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Initial Study/
Negative Declaration

COUNTY OF NAPA
PLANNING, BUILDING & ENVIRONMENTAL SERVICES DEPARTMENT
1195 THIRD ST., SUITE 210, NAPA, CA 94559
(707) 253-4416

Initial Study Checklist
(form updated October 2016)

1. **Project Title:** Cuvaison Winery, Major Modification Use Permit #P16-00146-MOD
2. **Property Owner:** Cuvaison Incorporated; 1221 Duhig Road, Napa, CA 94559; (707) 942-2450
3. **Project Sponsor's Name and Address:** Bonnie Schoch, Cuvaison Incorporated; 1221 Duhig Road, Napa, CA 94559; (707) 942-2450
4. **Representative:** Tom Adams, Dickenson Peatman, & Fogarty, 1455 First Street, Suite 301, Napa, CA 94559; (707) 252-7122
5. **County Contact Person, Phone Number and email:** Jason R. Hade, AICP, Planner III; (707) 259-8757; jason.hade@countyofnapa.org
6. **Project Location and APN:** The project is located on an approximately 392 acre site within the AW (Agricultural Watershed) zoning district on the east side of Duhig Road approximately feet south of its intersection with State Route 12-221; 1221 Duhig Road, Napa, CA; APN: 047-120-005 and 047-120-006.
7. **General Plan Description:** AWOS (Agriculture, Watershed, and Open Space) and Agricultural Resource (AR) Designations
8. **Zoning:** Agricultural Watershed (AW) District
9. **Background/Project History:** On May 15, 2002, Use Permit (#UP01254-UP) was approved for a 340,000 gallon per year winery including the construction of 34,350 square feet of new winery buildings and eight full time employees (10 full time employees during harvest). A modification to the Use Permit (#03241-MOD) was subsequently approved on July 9, 2003 which authorized the conversion of a previously approved lab/office building to two buildings, the relocation of the septic system and wastewater ponds, and an increase in the number of outdoor fermentation tanks. Use Permit modification (P05-0452-MOD) was approved on February 24, 2006 which permitted a maximum of 75 visitors per day for tours and tastings, 10 full time employees (12 full time employees during harvest), and an increase in the parking spaces provided from 10 to 23 spaces. The most recent Use Permit modification (P07-00871-MOD), approved on April 22, 2008, permitted the expansion of the existing tasting room to 2,350 square feet, interior changes to the main winery building, and a comprehensive sign program.

The existing site consists of approximately 266 acres of vineyards. The site also includes a 23,340 square foot winery production building, 9,350 square foot barrel building, 2,350 square foot tasting building, 320 square foot pump house, single-family residence and 23 parking spaces. Other site improvements include three wells on APN 047-120-006, 10,000 gallon water storage tank, 60,000 gallon fire protection storage tank, four on-site reservoirs totaling 190 acre-feet (AF), and a wastewater treatment system. Existing winery access is provided via a driveway to Duhig Road.
10. **Project Description:** Approval of a Use Permit Major Modification to an existing 340,000 gallon per year winery to allow the following:
 - a) Construct a 2,860 square foot office within the existing barrel building;
 - b) Upgrading of the existing wastewater system and associated infrastructure consistent with County code to include one (1) additional 2,500 gallon septic tank and dispersal field expansion;
 - c) Increase daily tours and tastings from 75 persons per day (by appointment only), 525 person per week maximum to 180 persons per day (by appointment only), 1,260 visitors maximum per week;
 - d) A Marketing Program to add the following:
 - a. Twenty-four (24) annual events for up to 60 guests;
 - b. Thirteen (13) annual events for up to 200 guests; and
 - c. One (1) wine auction related event per year for up to 200 guests.
 - e) On-premises consumption of wines produced on site in the outdoor patio area in accordance with Business and Professions Code Sections 23358, 23390 and 23396.5;
 - f) Increase on-site employees from 10 full-time employees and 12 harvest season employees to 28 full-time employees and 34 harvest season employees;
 - g) Increase parking spaces from 23 spaces to 34 spaces via striping of an existing paved parking area;
 - h) Change the winery's tasting room hours of operation from 10:00 AM to 4:00 PM to 10:00 AM to 7:00 PM;

- i) Installation of a left-turn lane on Duhig Road at the project's access driveway and paving and striping at the intersection of Duhig Road and State Route 12-221; and
- j) Deletion of condition of approval number 2 in previously approved Major Modification Use Permit modification P05-0452-MOD which requires tasting and tours be completed by 4:00 PM and retail wine sales be completed by 4:30 PM.

No new buildings or other external changes to the winery's physical facility are proposed nor any production increase.

The project also included a request for an exception to the Napa County Road and Street Standards (RSS). The request proposed an exception to allow the Cuvaison Winery Use Permit Modification to be approved without the requirement that a left turn lane be installed at the intersection of the property driveway and Duhig Road because construction of the left-turn lane would result in the need to relocate four utility poles, impact an established drainage course, and potentially require the removal of a portion of existing vineyards. The applicant further argued that a left-turn lane would not be required if Caltrans standards were applied rather than the Napa County RSS. The applicant proposed only to install paving and striping at the intersection of Duhig Road and State Route 12-221. This request was considered by the County's Public Works Director and denied on September 28, 2017 because none of the required findings could be met.

11. Environmental setting and surrounding land uses:

The 392 acre project site is located within the AW zoning district on the east side of Duhig Road approximately 735 feet south of its intersection with State Route 12-221. Site topography ranges from 0-30 percent within the vineyard area. Published geologic mapping of the vicinity indicate that the eastern margin of the property is underlain at the surface by volcanic units of the Tertiary-age Sonoma Volcanics, which are overlain throughout most of the western portions of the property by sedimentary strata of the Huichica formation. The site is developed with winery buildings, a single-family residence, four irrigation reservoirs and three (3) wells.

The property is surrounded by vineyards and rural residential uses. Domaine Carneros Winery and di Rosa art center lie to the north of the proposed project site while rural residential uses are located to the east of the site. Acacia Winery and rural residential uses are located immediately to the south of the Cuvaison Winery while vineyards and rural residential uses are located to the west of the site. The existing winery buildings are located approximately 2,535 feet to the southeast of the nearest neighboring residence. The project site is located outside the boundaries of the 100 and 500 year flood hazard zones. Native vegetation of the site includes grassland; most of the site is disturbed and primarily planted with vineyards and developed with a winery.

Cuvaison Incorporated sold their Calistoga facility in April 2015 necessitating the relocation of the existing employees to the Carneros facility. As a result, the additional proposed office space is needed. These existing employees are currently working in leased space in St. Helena. The applicant also seeks to relocate some of the visitation and marketing program activities which were occurring at the Calistoga facility to their Carneros facility.

12. Other agencies whose approval is required (e.g., permits, financing approval, or participation agreement).

The project would also require various ministerial approvals by the County, including but not limited to building permits, grading permits, waste disposal permits, and an encroachment permit, in addition to CalFire. Permits may also be required by the Department of Alcoholic Beverage Control and Bureau of Alcohol, Tobacco, & Firearms.

Responsible (R) and Trustee (T) Agencies

California Department of Transportation (Caltrans)

Other Agencies Contacted

Federal Trade and Taxation Bureau
Department of Alcoholic Beverage Control

13. Tribal Cultural Resources. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Assembly Bill 52 (AB 52) Public Resources Code section 21080.3.1? If so, has consultation begun?

On September 27, 2017, County Staff sent invitations to consult on the proposed project to Native American tribes who had a cultural interest in the area and who as of that date had requested to be invited to consult on projects, in accordance with the requirements of Public Resources Code section 21080.3.1. No requests for consultation were received from the other Native American tribe traditionally and culturally affiliated with the project area during the 30-day consultation request period or afterward.

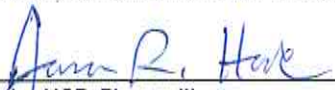
Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21083.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

ENVIRONMENTAL IMPACTS AND BASIS OF CONCLUSIONS:

The conclusions and recommendations contained herein are professional opinions derived in accordance with current standards of professional practice. They are based on a review of the Napa County Environmental Resource Maps, the other sources of information listed in the file, and the comments received, conversations with knowledgeable individuals; the preparer's personal knowledge of the area; and, where necessary, a visit to the site. For further information, see the environmental background information contained in the permanent file on this project.

On the basis of this initial evaluation:

- 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 by 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.



Jason R. Hade, AICP, Planner III
Napa County Planning, Building, and Environmental Services



Date

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|--|--------------------------------|---|-------------------------------------|--------------------------|
| I. AESTHETICS. Would the project: | | | | |
| a) Have a substantial adverse effect on a scenic vista? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c) Substantially degrade the existing visual character or quality of the site and its surroundings? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

a-c. Visual resources are those physical features that make up the environment, including landforms, geological features, water, trees and other plants, and elements of the human cultural landscape. A scenic vista, then, would be a publicly accessible vantage point such as a road, park, trail, or scenic overlook from which distant or landscape-scale views of a beautiful or otherwise important assembly of visual resources can be taken-in. As generally described in the **Environmental Setting and Surrounding Land Uses** section, above, this area is defined by a mix of vineyard, winery, and rural residential uses. The project would not result in a substantial damage to scenic resources or substantially degrade the visual character or quality of the site and its surroundings. The project site is currently developed with vineyards and a winery. No new structures or external changes to the winery would occur as part of the proposed project. No tree removal is proposed and there are no rock outcroppings visible from the road or other designated scenic resources on the property. State Route 12-121 is identified as a Viewshed Road. However, the County's Viewshed Protection Program is not applicable to the proposed project as no new structures or external changes are proposed. Because there is minimal visual impact from the road, there is a less than significant impact to a scenic vista.

d. The installation of additional lighting that may have the potential to impact nighttime views is not proposed as part of the project. In the event that additional outdoor lighting is installed, pursuant to standard Napa County conditions of approval for wineries, outdoor lighting would be required to be shielded and directed downwards, with only low level lighting allowed in parking areas. As subject to the standard conditions of approval, below, the project would not have a significant impact resulting from new sources of outside lighting.

6.3 **LIGHTING – PLAN SUBMITTAL**

- a. *Two (2) copies of a detailed lighting plan showing the location and specifications for all lighting fixtures to be installed on the property shall be submitted for Planning Division review and approval. All lighting shall comply with the CBC.*
- b. *All exterior lighting, including landscape lighting, shall be shielded and directed downward, shall be located as low to the ground as possible, shall be the minimum necessary for security, safety, or operations; on timers; and shall incorporate the use of motion detection sensors to the greatest extent practical. All lighting shall be shielded or placed such that it does not shine directly on adjacent properties or impact vehicles on adjacent streets. No flood-lighting or sodium lighting of the building is permitted, including architectural highlighting and spotting. Low-level lighting shall be utilized in parking areas as opposed to elevated high-intensity light standards. Lighting utilized during harvest activities is exempt from this requirement.*

4.16 **GENERAL PROPERTY MAINTENANCE – LIGHTING, LANDSCAPING, PAINTING, OUTDOOR EQUIPMENT STORAGE, AND TRASH ENCLOSURE AREAS**

- a. *All lighting shall be permanently maintained in accordance with the lighting and building plans approved by the County. Lighting utilized during harvest activities is exempt from this requirement.*

Mitigation Measures: None required.

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|--|--------------------------------|---|-------------------------------------|-------------------------------------|
| II. AGRICULTURE AND FOREST RESOURCES. ¹ Would the project: | | | | |
| a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Important (Farmland) as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Conflict with existing zoning for, or cause rezoning of, forest land as defined in Public Resources Code Section 12220(g), timberland as defined in Public Resources Code Section 4526, or timberland zoned Timberland Production as defined in Government Code Section 51104(g)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Result in the loss of forest land or conversion of forest land to non-forest use in a manner that will significantly affect timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, or other public benefits? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion:

a/b/e. The majority of the project site is designated "Unique Farmland" with portions of the site also designated "Prime Farmland" and "Other Land." No new winery structures or external changes are proposed that would result in the conversion of Prime Farmland, Unique Farmland or Farmland of Statewide Important as shown on the Napa County Important Farmland Map 2002 prepared by the California Department of Conservation District, Division of Land Resource Protection, pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency. The proposed project would not conflict with existing zoning for agricultural uses. There is no existing agricultural contract on the property. The project site currently has approximately 266 acres of vineyards and no vineyards would be removed as part of the proposed project. There are no other changes included in this proposal that would result in the conversion of Farmland beyond the immediate project site. General Plan Agricultural Preservation and Land Use policies AG/LU-2 and AG/LU-13 recognize wineries, and any use consistent with the Winery Definition Ordinance and clearly accessory to a winery, as agriculture. As a result, this application would not result in the conversion of special status farmland to a non-agricultural use.

c/d. The project site is zoned AW, which allow wineries upon grant of a use permit. According to the Napa County Environmental resource maps (based on the following layers – Sensitive Biotic Oak Woodlands, Riparian Woodland Forest and Coniferous Forest) the project site contains no woodland or forested areas. Therefore, the proposed project would not conflict with existing zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production. No impacts would occur.

Mitigation Measures: None required.

¹ "Forest land" is defined by the State as "land that can support 10-percent native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits." (Public Resources Code Section 12220(g)) The Napa County General Plan anticipates and does not preclude conversion of some "forest land" to agricultural use, and the program-level EIR for the 2008 General Plan Update analyzed the impacts of up to 12,500 acres of vineyard development between 2005 and 2030, with the assumption that some of this development would occur on "forest land." In that analysis specifically, and in the County's view generally, the conversion of forest land to agricultural use would constitute a potentially significant impact only if there were resulting significant impacts to sensitive species, biodiversity, wildlife movement, sensitive biotic communities listed by the California Department of Fish and Wildlife, water quality, or other environmental resources addressed in this checklist.

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|---|--------------------------------|---|-------------------------------------|--------------------------|
| III. AIR QUALITY. Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project: | | | | |
| a) Conflict with or obstruct implementation of the applicable air quality plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d) Expose sensitive receptors to substantial pollutant concentrations? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e) Create objectionable odors affecting a substantial number of people? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

On June 2, 2010, the Bay Area Air Quality Management District's (BAAQMD) Board of Directors unanimously adopted thresholds of significance to assist in the review of projects under the California Environmental Quality Act. These Thresholds are designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA and were posted on BAAQMD's website and included in BAAQMD's updated CEQA Guidelines (updated May 2012). The Thresholds are advisory and may be followed by local agencies at their own discretion.

The Thresholds were challenged in court. Following litigation in the trial court, the court of appeal, and the California Supreme Court, all of the Thresholds were upheld. However, in an opinion issued on December 17, 2015, the California Supreme Court held that CEQA does not generally require an analysis of the impacts of locating development in areas subject to environmental hazards unless the project would exacerbate existing environmental hazards. The Supreme Court also found that CEQA requires the analysis of exposing people to environmental hazards in specific circumstances, including the location of development near airports, schools near sources of toxic contamination, and certain exemptions for infill and workforce housing. The Supreme Court also held that public agencies remain free to conduct this analysis regardless of whether it is required by CEQA.

In view of the Supreme Court's opinion, local agencies may rely on Thresholds designed to reflect the impact of locating development near areas of toxic air contamination where such an analysis is required by CEQA or where the agency has determined that such an analysis would assist in making a decision about the project. However, the Thresholds are not mandatory and agencies should apply them only after determining that they reflect an appropriate measure of a project's impacts. These Guidelines may inform environmental review for development projects in the Bay Area, but do not commit local governments or BAAQMD to any specific course of regulatory action.

BAAQMD published a new version of the Guidelines dated May 2017, which includes revisions made to address the Supreme Court's opinion. The May 2017 Guidelines update does not address outdated references, links, analytical methodologies or other technical information that may be in the Guidelines or Thresholds Justification Report. The Air District is currently working to revise any outdated information in the Guidelines as part of its update to the CEQA Guidelines and thresholds of significance.

a-c. The mountains bordering Napa Valley block much of the prevailing northwesterly winds throughout the year. Sunshine is plentiful in Napa County, and summertime can be very warm in the valley, particularly in the northern end. Winters are usually mild, with cool temperatures overnight and mild-to-moderate temperatures during the day. Wintertime temperatures tend to be slightly cooler in the northern end of the valley. Winds are generally calm throughout the county. Annual precipitation averages range from about 24 inches in low elevations to more than 40 inches in the mountains.

Ozone and fine particle pollution, or PM2.5, are the major regional air pollutants of concern in the San Francisco Bay Area. Ozone is primarily a problem in the summer, and fine particle pollution in the winter. In Napa County, ozone rarely exceeds health standards, but PM2.5 occasionally does reach unhealthy concentrations. There are multiple reasons for PM2.5 exceedances in Napa County. First, much of the county is wind-sheltered, which tends to trap PM2.5 within the Napa Valley. Second, much of the area is well north of the moderating temperatures of San Pablo Bay and, as a result, Napa County experiences some of the coldest nights in the Bay Area. This leads to greater fireplace use and, in turn, higher PM2.5 levels. Finally, in the winter easterly winds often move fine-particle-laden air from the

Central Valley to the Carquinez Strait and then into western Solano and southern Napa County (BAAQMD, *In Your Community: Napa County*, April 2016)

The impacts associated with implementation of the project were evaluated consistent with guidance provided by BAAQMD. Ambient air quality standards have been established by state and federal environmental agencies for specific air pollutants most pervasive in urban environments. These pollutants are referred to as criteria air pollutants because the standards established for them were developed to meet specific health and welfare criteria set forth in the enabling legislation. The criteria air pollutants emitted by development, traffic and other activities anticipated under the proposed development include ozone, ozone precursors oxides of nitrogen and reactive organic gases (NO_x and ROG), carbon monoxide (CO), nitrogen dioxide (NO₂), and suspended particulate matter (PM₁₀ and PM_{2.5}). Other criteria pollutants, such as lead and sulfur dioxide (SO₂), would not be substantially emitted by the proposed development or traffic, and air quality standards for them are being met throughout the Bay Area.

BAAQMD has not officially recommended the use of its thresholds in CEQA analyses and CEQA ultimately allows lead agencies the discretion to determine whether a particular environmental impact would be considered significant, as evidenced by scientific or other factual data. BAAQMD also states that lead agencies need to determine appropriate air quality thresholds to use for each project they review based on substantial evidence that they include in the administrative record of the CEQA document. One resource BAAQMD provides as a reference for determining appropriate thresholds is the *California Environmental Quality Act Air Quality Guidelines* developed by its staff in 2010 and as updated through May 2017. These guidelines outline substantial evidence supporting a variety of thresholds of significance.

As mentioned above, in 2010, the BAAQMD adopted and later incorporated into its 2011 CEQA Guidelines project screening criteria (Table 3-1 – Operational-Related Criteria Air Pollutant and Precursors Screening Level Sizes) and thresholds of significance for air pollutants, which have now been updated by BAAQMD through May 2017. Because 2,860 square feet of office space is proposed within an existing winery barrel building when compared to the BAAQMD's operational criteria pollutant screening size of 541,000 square feet for general light industrial, and compared to the BAAQMD's screening criterion of 47,000 square feet for a high quality restaurant, the project would not significantly impact air quality and does not require further study (BAAQMD CEQA Guidelines, May 2017 Pages 3-2 & 3-3.). Given that the project includes no new winery structures (floor area) compared to the BAAQMD's screening criterion of 47ksf (thousand square feet) (high quality restaurant) and 541ksf (thousand square feet) (general light industry) for NO_x (oxides of nitrogen), the project would contribute an insignificant amount of air pollution and would not result in a conflict or obstruction of an air quality plan. (Please note: a high quality restaurant is considered comparable to a winery tasting room for purposes of evaluating air pollutant emissions, but grossly overstates emissions associated with other portions of a winery, such as office, barrel storage and production, which generate fewer vehicle trips. Therefore, a general light industry comparison has also been used for other such uses.)

The project falls well below the screening criteria as noted above, and consequently will not significantly affect air quality individually or contribute considerably to any cumulative air quality impacts.

- d. In the short term, potential air quality impacts are most likely to result from earthmoving and construction activities required for installation of a left-turn lane on Duhig Road at the project's access driveway, paving and striping at the intersection of Duhig Road and State Route 12-221, and the striping of additional parking stalls. Earthmoving and construction emissions would have a temporary effect; consisting mainly of dust generated during grading and other construction activities, exhaust emissions from construction related equipment and vehicles, and relatively minor emissions from paints and other architectural coatings. The Air District recommends incorporating feasible control measures as a means of addressing construction impacts. If the proposed project adhere to these relevant best management practices identified by the Air District and the County's standard conditions of project approval, construction-related impacts are considered less than significant:

7.1 SITE IMPROVEMENTS

c. AIR QUALITY

During all construction activities the permittee shall comply with the most current version of BAAQMD Basic Construction Best Management Practices including but not limited to the following, as applicable:

- 1. Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. The BAAQMD's phone number shall also be visible.*
- 2. Water all exposed surfaces (e.g., parking areas, staging areas, soil piles, grading areas, and unpaved access roads) two times per day.*
- 3. Cover all haul trucks transporting soil, sand, or other loose material off-site.*
- 4. Remove all visible mud or dirt traced onto adjacent public roads by using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.*
- 5. All vehicle speeds on unpaved roads shall be limited to 15 mph.*
- 6. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.*

7. *Idling times shall be minimized either by shutting off equipment when not in use or reducing the maximum idling time to five (5) minutes (as required by State Regulations). Clear signage shall be provided for construction workers at all access points.*
8. *All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified visible emissions evaluator. Any portable engines greater than 50 horsepower or associated equipment operated within the BAAQMD's jurisdiction shall have either a California Air Resources Board (ARB) registration Portable Equipment Registration Program (PERP) or a BAAQMD permit. For general information regarding the certified visible emissions evaluator or the registration program, visit the ARB FAQ http://www.arb.ca.gov/portable/perp/perpfact_04-16-15.pdf or the PERP website <http://www.arb.ca.gov/portable/portable.htm>.*

Furthermore, while earthmoving and construction on the site would generate dust particulates in the short-term, the impact would be less than significant with dust control measures as specified in Napa County's standard condition of approval relating to dust:

7.1 **SITE IMPROVEMENTS**

b. **DUST CONTROL**

Water and/or dust palliatives shall be applied in sufficient quantities during grading and other ground disturbing activities on-site to minimize the amount of dust produced. Outdoor construction activities shall not occur when average wind speeds exceed 20 mph.

- e. While the Air District defines public exposure to offensive odors as a potentially significant impact, wineries are not known operational producers of pollutants capable of causing substantial negative impacts to sensitive receptors. The closest residence is approximately 2,535 feet to the southeast of the existing winery buildings. Construction-phase pollutants would be reduced to a less than significant level by the above-noted standard condition of approval. The project would not create pollutant concentrations or objectionable odors affecting a substantial number of people. Impacts would be less than significant.

Mitigation Measures: None required.

| | | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|-----|--|--------------------------------|---|-------------------------------------|-------------------------------------|
| IV. | BIOLOGICAL RESOURCES. Would the project: | | | | |
| | a) 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 Game or U.S. Fish and Wildlife Service? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, Coastal, etc.) through direct removal, filling, hydrological interruption, or other means? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion:

- a/b. According to the Napa County Environmental Resource Maps (based on the following layers - plants CNPS points & polygons, plant surveys, red legged frog core area and critical habitat, vernal pools & vernal pool species, Spotted Owl Habitat – 1.5 mile buffer and known fish presence) no known candidate, sensitive, or special status species have been identified as occurring within the project boundaries. The project would not have a substantial adverse effect on any special status species, or species of particular concern, as there are none identified in the project area. Most of the site is disturbed and primarily planted with vineyards and developed with a winery. Proposed physical improvements (left-turn lane and paving and striping at the intersection of Duhig Road and State Route 12-121) would occur within the previously disturbed areas. Furthermore, there were no species or site conditions which would be considered essential for the support of a species with limited distribution or considered to be a sensitive natural plant community. The site has not been identified in any local/regional or State plans as being a sensitive community. The potential for this project to have an impact on special status species is less than significant.
- c/d. According to the Napa County Environmental Resource Maps (based on the following layers – water bodies, vernal pools & vernal pool species), two unnamed USGS blue line streams traverse the site. However, no development is proposed within approximately 1,800-feet of the identified streams. All proposed improvements would occur within a previously disturbed area that is not a wildlife corridor. Therefore, project activities would not interfere with the movement of any native resident or migratory fish or wildlife species or with their corridors or nursery sites. Impacts would be less than significant.
- e. No trees are proposed for removal as part of the project. Moreover, the project is proposed within an area that has been previously disturbed. Impacts would be less than significant.
- f. The proposed project would not conflict with the provisions of an adopted Habitat Conservation Plans, Natural Community Conservation Plans or other approved local, regional or state habitat conservation plans because there are no plans applicable to the subject site. No impacts would occur.

Mitigation Measures: None required.

| | | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|----|---|--------------------------------|---|-------------------------------------|--------------------------|
| V. | CULTURAL RESOURCES. Would the project: | | | | |
| | a) Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines §15064.5? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines §15064.5? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | c) Directly or indirectly destroy a unique paleontological resource or site or unique geological feature? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | d) Disturb any human remains, including those interred outside of dedicated cemeteries? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

a-c. According to the Napa County Environmental Resource Maps (based on the following layers – Historical sites points & lines, Archaeology surveys, sites, sensitive areas, and flags) no historic sites have been identified on the property. The area at the intersection of Duhig Road and State Route 12-121 proposed for paving and striping was previously surveyed in 1980 as part of the Pacific Telephone Cable Undergrounding Project in Napa and Sonoma Counties, but no sites were identified (*Archaeological Reconnaissance of Napa to Petaluma Pacific Telephone Cable Undergrounding Route, Napa and Sonoma Counties, Part One, Congress Valley Road to Old Sonoma Road to Highway 12/121 to Napa-Sonoma Co. Line, 1980*). However, if resources are found during any earth disturbing activities associated with the project, construction of the project is required to cease, and a qualified archaeologist would be retained to investigate the site in accordance with the following standard condition of approval:

7.2 ARCHEOLOGICAL FINDING

In the event that archeological artifacts or human remains are discovered during construction, work shall cease in a 50-foot radius surrounding the area of discovery. The permittee shall contact the PBES Department for further guidance, which will likely

include the requirement for the permittee to hire a qualified professional to analyze the artifacts encountered and to determine if additional measures are required.

If human remains are encountered during project development, all work in the vicinity must be halted, and the Napa County Coroner informed, so that the Coroner can determine if an investigation of the cause of death is required, and if the remains are of Native American origin. If the remains are of Native American origin, the permittee shall comply with the requirements of Public Resources Code Section 5097.98.

- d. No human remains have been encountered on the property and no information has been encountered that would indicate that this project would encounter human remains. Most construction activities would occur on previously disturbed portions of the site. However, if resources are found during project grading, construction of the project is required to cease, and a qualified archaeologist would be retained to investigate the site in accordance with standard condition of approval noted above. Impacts would be less than significant.

Mitigation Measures: None required.

| | | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|-----|--|--------------------------------|---|-------------------------------------|--------------------------|
| VI. | GEOLOGY AND SOILS. Would the project: | | | | |
| | a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: | | | | |
| | i) Rupture of a known earthquake fault, 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. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | ii) Strong seismic ground shaking? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | iii) Seismic-related ground failure, including liquefaction? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | iv) Landslides? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | b) Result in substantial soil erosion or the loss of topsoil? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | c) 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 collapse? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | d) Be located on expansive soil creating substantial risks to life or property? Expansive soil is defined as soil having an expansive index greater than 20, as determined in accordance with ASTM (American Society of Testing and Materials) D 4829. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

- a.
- i.) There are no known faults on the project site as shown on the most recent Alquist-Priolo Earthquake Fault Zoning Map. As such, the proposed project would result in a less than significant impact with regards to rupturing a known fault.
 - ii.) All areas of the Bay Area are subject to strong seismic ground shaking. Construction of the project would be required to comply with the latest building standards and codes, including the California Building Code that would reduce any potential impacts to a less than significant level.
 - iii.) No subsurface conditions have been identified on the project site that indicated a susceptibility to seismic-related ground failure or liquefaction. Compliance with the latest edition of the California Building Code for seismic stability would result in less than significant impacts.
 - iv.) According to the Napa County Environmental Resource Maps (Landslides line, polygon, and geology layers) there are known landslide areas within the area of the subject site proposed for modification as part of the project.

- b. The proposed improvements would occur on slopes of five percent to 15 percent. The project would require incorporation of best management practices and would be subject to the Napa County Stormwater Ordinance which addresses sediment and erosion control measures and dust control, as applicable. Impacts would be less than significant.
- c/d. Published geologic mapping of the vicinity indicate that the eastern margin of the property is underlain at the surface by volcanic units of the Tertiary-age Sonoma Volcanics, which are overlain throughout most of the western portions of the property by sedimentary strata of the Huichica formation. Based on the Napa County Environmental Sensitivity Maps (liquefaction layer) the roadway improvements are proposed for an area which has a very low or medium susceptibility for liquefaction. Development would be required to comply with the latest building standards and codes, including the California Building Code that would reduce any potential impacts to a less than significant level.
- e. According to the Wastewater Feasibility Study prepared by RAM Engineering in May 2016, the project site and proposed system has adequate disposal capacity to serve the project. The study concluded "that adequate expansion area exists to accommodate the proposed increase in flows associated with this Use Permit modification request" (*Wastewater Feasibility Study, 2016*). The Division of Environmental Health reviewed this report and concurred with its findings. Impacts would be less than significant.

Mitigation Measures: None required.

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|---|--------------------------------|---|-------------------------------------|--------------------------|
| VII. GREENHOUSE GAS EMISSIONS. Would the project: | | | | |
| a) Generate a net increase in greenhouse gas emissions in excess of applicable thresholds adopted by the Bay Area Air Quality Management District or the California Air Resources Board which may have a significant impact on the environment? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Conflict with a county-adopted climate action plan or another applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

Napa County has been working to develop a Climate Action Plan (CAP) for several years. In 2012, a Draft CAP (March 2012) was recommended using the emissions checklist in the Draft CAP, on a trial basis, to determine potential greenhouse gas (GHG) emissions associated with project development and operation. At the December 11, 2012, Napa County Board of Supervisors (BOS) hearing, the BOS considered adoption of the proposed CAP. In addition to reducing Napa County's GHG emissions, the proposed plan was intended to address compliance with CEQA for projects reviewed by the County and to lay the foundation for development of a local offset program. While the BOS acknowledged the plan's objectives, the BOS requested that the CAP be revised to better address transportation-related greenhouse gas, to acknowledge and credit past accomplishments and voluntary efforts, and to allow more time for establishment of a cost-effective local offset program. The Board also requested that best management practices be applied and considered when reviewing projects until a revised CAP is adopted to ensure that projects address the County's policy goal related to reducing GHG emissions.

In July 2015, the County re-commenced preparation of the CAP to: i) account for present day conditions and modeling assumptions (such as but not limited to methods, emission factors, and data sources), ii) address the concerns with the previous CAP effort as outlined above, iii) meet applicable State requirements, and iv) result in a functional and legally defensible CAP. On April 13, 2016 the County, as the part of the first phase of development and preparation of the CAP, released Final Technical Memorandum #1: 2014 Greenhouse Gas Emissions Inventory and Forecast, April 13, 2016. This initial phase included: i) updating the unincorporated County's community-wide GHG emissions inventory to 2014, and ii) preparing new GHG emissions forecasts for the 2020, 2030, and 2050 horizons. Additional information on the County CAP can be obtained at the Napa County Department of Planning, Building and Environmental Services or <http://www.countyofnapa.org/CAP/>.

- a/b. Overall increases in Greenhouse Gas (GHG) emissions in Napa County were assessed in the Environmental Impact Report (EIR) prepared for the Napa County General Plan Update and certified in June 2008. GHG emissions were found to be significant and unavoidable in that document, despite the adoption of mitigation measures incorporating specific policies and action items into the General Plan.

Consistent with these General Plan action items, Napa County participated in the development of a community-wide GHG emissions inventory and “emission reduction framework” for all local jurisdictions in the County in 2008-2009. This planning effort was completed by the Napa County Transportation and Planning Agency in December 2009, and served as the basis for development of a refined inventory and emission reduction plan for unincorporated Napa County.

In 2011, the Bay Area Air Quality Management District (BAAQMD) released California Environmental Quality Act (CEQA) Project Screening Criteria and Significance of Thresholds [1,100 metric tons per year (MT) of carbon dioxide and carbon dioxide equivalents (CO₂e)]. This threshold of significance is appropriate for evaluating projects in Napa County.

During our ongoing planning effort, the County requires project applicants to consider methods to reduce GHG emissions consistent with Napa County General Plan Policy CON-65(e). (Note: Pursuant to State CEQA Guidelines Section 15183, because this initial study assesses a project that is consistent with an adopted General Plan for which an environmental impact report (EIR) was prepared, it appropriately focuses on impacts which are “peculiar to the project,” rather than the cumulative impacts previously assessed.)

For the purposes of this analysis potential GHG emissions associated with winery ‘construction’ and ‘development’ and with ‘ongoing’ winery operations have been discussed.

GHGs are the atmospheric gases whose absorption of solar radiation is responsible for the greenhouse effect, including carbon dioxide, methane, ozone, and the fluorocarbons, that contribute to climate change (a widely accepted theory/science explain human effects on the atmosphere). Carbon Dioxide (CO₂) gas, the principal greenhouse gas (GHG) being emitted by human activities, and whose concentration in the atmosphere is most affected by human activity, also serves as the reference gas to compare other greenhouse gases. Agricultural sources of carbon emissions include forest clearing, land-use changes, biomass burning, and farm equipment and management activity emissions (http://www.climatechange.ca.gov/glossary/letter_c.html). Equivalent Carbon Dioxide (CO₂e) is the most commonly reported type of GHG emission and a way to get one number that approximates total emissions from all the different gasses that contribute to GHG (BAAMD CEQA Air Quality Guidelines, May 2017). In this case, carbon dioxide (CO₂) is used as the reference atom/compound to obtain atmospheric carbon CO₂ effects of GHG. Carbon stocks are converted to carbon dioxide equivalents (CO₂e) by multiplying the carbon total by 44/12 (or 3.67), which is the ratio of the atomic mass of a carbon dioxide molecule to the atomic mass of a carbon atom (<http://www.nciasi2.org/COLE/index.html>).

One time “Construction Emissions” associated with a winery development project include: i) the carbon stocks that are lost (or released) when existing vegetation is removed and soil is ripped in preparation for a new winery structure and associated infrastructure; and ii) emissions associated with the energy used to develop and prepare the project area and construct a winery, including construction equipment and worker vehicle trips (hereinafter referred to as Equipment Emissions). These emissions also include underground carbon stocks (or Soil carbon) associated with any existing vegetation that is proposed to be removed. As previously stated, this project does not include the construction of any new winery buildings or external changes at the project site.

In addition to the one time Construction Emissions, “Operational Emissions” of the winery are also considered and include: i) any reduction in the amount of carbon sequestered by existing vegetation that is removed as part of the project compared to a “no project” scenario (hereinafter referred to as Operational Sequestration Emissions); and ii) ongoing emissions from the energy used to maintain and operate the winery, including vehicle trips associated with employee and visitor trips (hereinafter referred to as Operational Emissions). See Section XVI, Transportation/Traffic, for anticipated number of operational trips. Operational Emissions from the proposed winery would be the primary source of emissions over the long-term when compared to one time construction emissions.

As discussed in the Air Quality section of this Initial Study, in 2010, the BAAQMD adopted and later incorporated into its 2011 CEQA Guidelines project screening criteria (Table 3-1 – Criteria Air Pollutants and Precursors & GHG Screening Level Sizes) and thresholds of significance for air pollutants, including GHG emissions, which have now been updated by BAAQMD through May 2017. Because 2,860 square feet of office space is proposed within an existing winery barrel building when compared to the BAAQMD’s GHG screening criteria of 121,000 sf for general industrial, and compared to the BAAQMD’s screening criterion of 9,000 sf. for high quality restaurant, the project was determined not to exceed the 1,100 MT of CO₂e/yr GHG threshold of significance.

Furthermore, the applicant proposes to incorporate an additional GHG reduction method: installation of bicycling parking facilities. The existing winery has already implemented the following GHG reduction practices: installation of approximately 20,000 square feet of solar panels on the winery roof; planting of approximately 70 native trees along the driveway, near the irrigation pond, and along Carneros Creek; use of two gas/electric hybrid vehicles; installation of a cool roof; encouraging employees to commute via bicycles; installation of water efficient fixtures; use of a permeable surface parking lot; installation of water efficient landscape; recycling 75 percent of all waste; certification as a Napa Green Winery and Napa Green Land; use of recycled materials; education to staff and visitors on sustainable practices; and the use of 70 to 80 percent cover crop.

The proposed project has been evaluated against the BAAQMD thresholds and determined that the project would not exceed the 1,100 MT/yr of CO₂e. GHG Emission reductions from local programs and project level actions, such as application of the Cal Green Building Code, tightened vehicle fuel efficiency standards, and more project-specific on-site programs including those winery features noted above would combine to further reduce emissions below BAAQMD thresholds.

Greenhouse Gas Emission reductions from local programs and project level actions, such as application of the Cal Green Building Code, vehicle fuel efficiency standards, and the project-specific on-site programs identified above would combine to further reduce emissions below BAAQMD thresholds.

As indicated above, the County is currently preparing a CAP and as the part of the first phase of development and preparation of the CAP has released Final Technical Memorandum #1 (2014 Greenhouse Gas Emissions Inventory and Forecast, April 13, 2016). Table 1 of the Technical Memorandum indicates that 2% of the County's GHG emissions in 2014 were a result of land use change.

The increase in emissions expected as a result of the project would be relatively modest and the project is in compliance with the County's efforts to reduce emissions as described above. For these reasons, project impacts related to GHG emissions are considered less than significant.

Mitigation Measures: None required.

| | | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|-------|---|--------------------------------|---|-------------------------------------|-------------------------------------|
| VIII. | HAZARDS AND HAZARDOUS MATERIALS. Would the project: | | | | |
| | a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | b) Create a significant hazard to the public or the environment through reasonable foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | d) 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | e) 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 for people residing or working in the project area? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | f) For a project within the vicinity of a private airstrip, 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 for people residing or working in the project area? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | h) Expose people or structures to a significant risk of loss, injury or death involving wild-land fires, including where wild-lands are adjacent to urbanized areas or where residences are intermixed with wild-lands? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

- a. The proposed project would not involve the transport of hazardous materials other than those small amounts utilized in typical winery operations. A Business Plan would be filed with the Environmental Health Division should hazardous materials reach reportable levels. Impacts would be less than significant.
- b. Hazardous materials such as diesel, maintenance fluids, and paints would be used onsite during construction. Should they be stored onsite, these materials would be stored in secure locations to reduce the potential for upset or accident conditions. The proposed project consists of an existing winery that would not be expected to use any substantial quantities of hazardous materials. Therefore, it would not be reasonably foreseeable for the proposed project to create upset or accident conditions that involve the release of hazardous materials into the environments. Impacts would be less than significant.
- c. There are no schools located within one-quarter mile from the existing winery buildings. According to Google Earth, the nearest school to the project site is Stone Bridge School, located approximately 1.5 miles to the southeast. No impacts would occur.
- d. Based on a search of the California Department of Toxic Substances Control database, the project site does not contain any known EPA National Priority List sites, State response sites, voluntary cleanup sites, or any school cleanup sites. No impact would occur as the project site is not on any known list of hazardous materials sites.
- e. No impact would occur as the project site is not located within an airport land use plan.
- f. No impact would occur as the project site is not located within the vicinity of any private airports.
- g. The proposed project's access driveway would meet Napa County Road and Street Standards. Therefore, the proposed winery would not obstruct emergency vehicle access. The project has been reviewed by the County Fire Department and Engineering Services Division and found acceptable, as conditioned.
- h. The project would not increase exposure of people and/or structures to a significant loss, injury or death involving wild land fires. The project currently complies and would continue to comply with current California Department of Forestry and California Building Code requirements for fire safety. Impacts would be less than significant.

Mitigation Measures: None required.

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|---|--------------------------------|---|-------------------------------------|--------------------------|
| IX. HYDROLOGY AND WATER QUALITY. Would the project: | | | | |
| a) Violate any water quality standards or waste discharge requirements? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e) 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f) Otherwise substantially degrade water quality? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|--|--------------------------------|---|-------------------------------------|-------------------------------------|
| g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| j) Inundation by seiche, tsunami, or mudflow? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

On January 14, 2014, Governor Jerry Brown declared a drought emergency in the state of California. That declaration was followed up on April 1, 2015, when the Governor directed the State Water Resources Control Board to implement mandatory water reductions in cities and town across California to reduce water usage by 25 percent. These water restrictions do not apply to agricultural users. However, on April 7, 2017, Governor Jerry Brown signed an executive order lifting California's drought emergency in all but four counties (Fresno, Kings, Tulare and Tuolumne). The County of Napa had not adopted or implemented any additional mandatory water use restrictions. The County requires all Use Permit applicants to complete necessary water analyses in order to document that sufficient water supplies are available for the proposed project and to implement water saving measures to prepare for periods of limited water supply and to conserve limited groundwater resources.

In general, recent studies have found that groundwater levels in the Napa Valley Floor exhibit stable long-term trends with a shallow depth to water. Historical trends in the Milliken-Sarco-Tulucay (MST) area, however, have shown increasing depths to groundwater, but recent stabilization in many locations. Groundwater availability, recharge, storage and yield are not consistent across the County. More is known about the resource where historical data have been collected. Less is known in areas with limited data or unknown geology. In order to fill existing data gaps and to provide a better understand of groundwater resources in the County, the Napa County Groundwater Monitoring Plan recommended 18 Areas of Interest (AOIs) for additional groundwater level and water quality monitoring. Through the well owner and public outreach efforts of the (GRAC) approximately 40 new wells have been added to the monitoring program within these areas. Groundwater Sustainability Objectives were developed and recommended by the GRAC and adopted by the Board. The recommendations included the goal of developing sustainability objectives, provided a definition, explained the shared responsibility for Groundwater Sustainability and the important role monitoring as a means to achieving groundwater sustainability.

In 2009 Napa County began a comprehensive study of its groundwater resources to meet identified action items in the County's 2008 General Plan update. The study, by Luhdorff and Scalmanini Consulting Engineers (LSCE), emphasized developing a sound understanding of groundwater conditions and implementing an expanded groundwater monitoring and data management program as a foundation for integrated water resources planning and dissemination of water resources information. The 2011 baseline study by LSCE, which included over 600 wells and data going back over 50 years, concluded that "the groundwater levels in Napa County are stable, except for portions of the MST district". Most wells elsewhere within the Napa Valley floor with a sufficient record indicate that groundwater levels are more affected by climatic conditions, are within historical levels, and seem to recover from dry periods during subsequent wet or normal periods. The LSCE Study also concluded that, on a regional scale, there appear to be no current groundwater quality issues except north of Calistoga (mostly naturally occurring boron and trace metals) and in the Carneros region (mostly salinity). The subject property is located within the Carneros subarea of Napa County where very limited historical data exists concerning groundwater levels according to the Napa County Groundwater Monitoring Plan 2013. The County has no record of problems or complaints of diminished groundwater supplies at the project site or in the general vicinity. The applicant has not experienced any issues with the availability of groundwater.

Minimum thresholds for water use have been established by the Department of Public Works using reports by the United States Geological Survey (USGS). These reports are the result of water resources investigations performed by the USGS in cooperation with the Napa County Flood Control and Water Conservation District. Any project which reduces water usage or any water usage which is at or below the established threshold is assumed not to have a significant effect on groundwater levels. While the project was previously categorized as being located within the Valley Floor/Carneros Region in an area that has an established acceptable water use criteria of 1.0 acre foot per acre per year, the Carneros Region is now considered "all other areas" based upon current County Water Availability Analysis policies and therefore water use criteria is parcel specific based upon a Tier 2 analysis. A Tier 2 analysis was completed by RAM Engineering on September 27, 2016 which included a parcel specific recharge evaluation prepared by Wagner and Bonsignore. According to the recharge evaluation, "For the site, with 26 inches of average rainfall, the hydrograph-derived average year recharge would amount to about 2.17 ft x 0.14 = 0.30 feet (or acre-feet/acre), with about 2.17 x 0.08 = 0.17 acre-

ft/acre in a drought period. Over the 392 acre property, this amounts to recharge of about 118 acre-feet in a normal year, and about 67 acre-feet during drought periods" (*Estimate of Groundwater Recharge Carneros Cuvaison Winery Property, 1221 Duhig Road, Napa, 2016*).

a/b. The project would not violate any water quality standards or waste discharge requirements nor substantially deplete local groundwater supplies. According to the Wastewater Feasibility Study prepared by RAM Engineering in May 2016, the project site and proposed system has adequate disposal capacity to serve the project. The study concluded "that adequate expansion area exists to accommodate the proposed increase in flows associated with this Use Permit modification request" (*Wastewater Feasibility Study, 2016*). The Division of Environmental Health reviewed this report and concurred with its findings.

The project is not expected to violate any water quality standards or waste discharge requirements nor substantially deplete local groundwater supplies. The facility's domestic water system would be classified as transient, non-community and would be managed by employees of the winery. Fire protection system water would be provided a 60,000 fire protection storage tank. The subject parcel currently sources water from three wells. There are three wells total on APN 047-120-006; the primary well, the "back-up" well, and the residential well. According to the WAA prepared by RAM Engineering, the primary winery well was constructed in April 2006. The project proposes to use the primary well as the main project water source capable of providing winery related water demand shown below. As detailed further below, reservoir water would be used for irrigation of the existing vineyard rather than well water. The onsite reservoirs provide 142 acre-feet of diversion rights, none of which include groundwater extraction. These reservoirs are not fed by a groundwater source, they are fed by direct rainfall, surface runoff, drain tile water, Carneros Creek, and recycled process wastewater generated by the winery. The applicant submitted a Tier 2 WAA completed by RAM Engineering in September 2016 showing the projected water use for the project is 6.51 AF/YR in a normal rainfall year and 45.31 AF/YR in a drought year. The analysis concluded that anticipated total overall water demand for the project site in a normal rainfall year would be 6.51 AF/YR representing a 141.7 AF/YR decrease of the existing water demand of 148.2 AF/YR due primarily to relying upon reservoir water, not well water, for irrigation purposes. The parcel water demand can be met with the existing project wells. Therefore, the impacts from the project would be less than significant and no further analysis is needed. Below is a table that details each source of existing and proposed groundwater use in a **normal** rainfall year:

| Usage Type | Existing Usage | Proposed Usage |
|----------------------------|----------------|----------------|
| Vineyard Irrigation | 139.5 | 0 |
| Winery | | |
| Wine Production | 6.25 | 5.20 |
| Domestic | 2.45 | 1.24 |
| Landscape Irrigation | 0.00 | 0.07 |
| Net Use (Acre-ft per Year) | 148.20 | 6.51 |

Below is a table that details each source of existing and proposed groundwater use in a **drought** year:

| Usage Type | Existing Usage | Proposed Usage |
|----------------------------|----------------|----------------|
| Vineyard Irrigation | 139.5 | 38.8 |
| Winery | | |
| Wine Production | 6.25 | 5.20 |
| Domestic | 2.45 | 1.24 |
| Landscape Irrigation | 0.00 | 0.07 |
| Net Use (Acre-ft per Year) | 148.20 | 45.31 |

While the 142 AF/YR of diversion rights from the on-site reservoirs would be sufficient for vineyard irrigation during a normal rainfall year and require no groundwater extraction, 38.8 AF/YR of groundwater would need to be extracted to irrigate the vineyards in a drought year as shown above. The "existing" water use values identified above were obtained from a Water Availability Analysis prepared in 2005 by Summit Engineering, Inc. which utilized the previously applied Valley Floor parcel location factor possibly resulting in higher water use calculations at that time. Projected water use numbers shown above were provided by RAM Engineering based upon actual well meter readings from July 8, 2014 to July 8, 2015.

The estimated groundwater demand of 6.51 AF/YR in a normal rainfall year represents a net decrease of 141.7 AF/YR over the existing condition and is below the anticipated annual recharge of approximately 118 AF/YR in a normal year. The winery, as part of its entitlement would include the County's standard condition of approval requiring well monitoring as well as the potential to modify/alter permitted uses on site should groundwater resources become insufficient to supply the use.

In response to regional drought and the general Statewide need to protect groundwater resources, the Governor enacted new legislation requiring local governments to monitor and management groundwater resources. Napa County's prior work on the Napa Valley Groundwater Management Plan provides a strong foundation for Napa County to comply with this State mandated monitoring and management objective. As a direct result, the project site is now subject to this new legislation requiring local agencies to monitor groundwater use. Assembly Bill - AB 1739 by Assembly member Roger Dickinson (D-Sacramento) and Senate Bills 1168 and 1319 by Senator Fran Pavley (D-Agoura Hills) establish a framework for sustainable, local groundwater management for the first time in California history. The legislation requires local agencies to tailor sustainable groundwater plans to their regional economic and environmental needs. The legislation prioritizes groundwater basin management Statewide, which includes the Napa Valley/Napa River Drainage Basin, and sets a timeline for implementation of the following:

- By 2017, local groundwater management agencies must be identified;
- By 2020, overdrafted groundwater basins must have sustainability plans;
- By 2022, other high and medium priority basins not currently in overdraft must have sustainability plans; and
- By 2040, all high and medium priority groundwater basins must achieve sustainability.

The State has classified the Napa River Drainage Basin as a medium priority resource. Additionally, the legislation provides measurable objectives and milestones to reach sustainability and a State role of limited intervention when local agencies are unable or unwilling to adopt sustainable management plans. Napa County supports this legislation and has begun the process of developing a local groundwater management agency which is anticipated to be in place and functioning within the timeline prescribed by the State.

The proposed project would result in a net decrease on the demand of ground water supplies and therefore would not interfere with groundwater recharge or lowering of the local groundwater level. There are no neighboring wells located within 500 feet of the primary source well other than the "back-up" well on the same parcel and under the same ownership. There are no springs located within 1,500 feet of the primary source well. As a result, the Tier 2 well interference and spring interference criteria are met.

- c-d. The project would not substantially alter the drainage pattern on site or cause a significant increase in erosion or siltation on or off the cultivated agricultural vineyard site. Impacts would be less than significant.
- e. The preliminary grading and drainage plan has been reviewed by the Engineering Division. As conditioned, impacts would be less than significant.
- f. A review of all parcels within 500-feet of the subject site's property line was conducted to identify any potential hazardous spills and none were identified. According to the WAA, "raw water sample analytical results conformed to the most current NELAC standards and total coliform and fecal coliform were both absent from the sample"(Water Availability Analysis Carneros Cuvaision Winery, 2016). Impacts from the project to water quality would be less than significant.
- g/h. The project site is located outside the boundaries of the 100 and 500 year flood hazard zones. Accordingly, no impact would occur.
- i/j. The parcel is not located in an area that is subject to inundation by tsunamis, seiches, or mudflows. Impacts would be less than significant.

Mitigation Measures: None required.

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|---|--------------------------------|---|------------------------------|-------------------------------------|
| X. LAND USE AND PLANNING. Would the project: | | | | |
| a) Physically divide an established community? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Conflict with any applicable habitat conservation plan or natural community conservation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion:

a-c. The project would not occur within an established community, nor would it result in the division of an established community. The project complies with the Napa County Code and all other applicable regulations. The subject parcel is located in the AW zoning district, which allow wineries and uses accessory to wineries subject to use permit approval. The proposed project is compliant with the physical limitations of the Napa County Zoning Ordinance. The County has adopted the Winery Definition Ordinance (WDO) to protect agriculture and open space and to regulate winery development and expansion in a manner that avoids potential negative environmental effects.

Agricultural Preservation and Land Use Policy AG/LU-1 of the 2008 General Plan states that the County shall, "preserve existing agricultural land uses and plan for agriculture and related activities as the primary land uses in Napa County." The property's General Plan land use designation is AWOS and AR which allow "agriculture, processing of agricultural products, and single-family dwellings." More specifically, General Plan Agricultural Preservation and Land Use Policy AG/LU-2 recognizes wineries and other agricultural processing facilities, and any use clearly accessory to those facilities, as agriculture. The project would allow for the continuation of agriculture as a dominant land use within the county and is consistent with the Napa County General Plan.

The continued use of the property for the "fermenting and processing of grape juice into wine" (NCC §18.08.640) supports the economic viability of agriculture within the county consistent with General Plan Agricultural Preservation and Land Use Policy AG/LU-4 ("The County will reserve agricultural lands for agricultural use including lands used for grazing and watershed/ open space...") and General Plan Economic Development Policy E-1 (The County's economic development will focus on ensuring the continued viability of agriculture...).

The General Plan includes two policies requiring wineries to be designed generally of a high architectural quality for the site and its surroundings. There are no applicable habitat conservation plans or natural community conservation plans applicable to the property. No impacts would occur.

Mitigation Measures: None required.

| | | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|-----|---|--------------------------------|---|------------------------------|-------------------------------------|
| XI. | MINERAL RESOURCES. Would the project: | | | | |
| | a) 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | b) 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion:

a/b. Historically, the two most valuable mineral commodities in Napa County in economic terms have been mercury and mineral water. More recently, building stone and aggregate have become economically valuable. Mines and Mineral Deposits mapping included in the Napa County Baseline Data Report (*Mines and Mineral Deposits*, BDR Figure 2-2) indicates that there are no known mineral resources nor any locally important mineral resource recovery sites located on the project site. No impacts would occur.

Mitigation Measures: None required.

| | | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|------|---|--------------------------------|---|-------------------------------------|--------------------------|
| XII. | NOISE. Would the project result in: | | | | |
| | a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|---|--------------------------------|---|-------------------------------------|-------------------------------------|
| c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e) 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 expose people residing or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion:

a/b. The project would result in a temporary increase in noise levels during construction of a left-turn lane on Duhig Road at the project's access driveway, paving and striping at the intersection of Duhig Road and State Route 12-221, and the striping of additional parking stalls. Construction activities would be limited to daylight hours using properly muffled vehicles. Noise generated during this time is not anticipated to be significant. As such, the project would not result in potentially significant temporary construction noise impacts or operational impacts. Because the nearest residence to the project site is approximately 2,535 feet to the southeast of the existing winery structures and operations, there is a low potential for impacts related to construction noise to result in a significant impact. Further, construction activities would occur during the period of 7am-7pm on weekdays, during normal hours of human activity. All construction activities would be conducted in compliance with the Napa County Noise Ordinance (Napa County Code Chapter 8.16). The proposed project would not result in long-term significant construction noise impacts. Conditions of approval identified below would require construction activities to be limited to daylight hours, vehicles to be muffled, and backup alarms adjusted to the lowest allowable levels. Impacts would be less than significant.

7.3. CONSTRUCTION NOISE

Construction noise shall be minimized to the greatest extent practical and feasible under State and local safety laws, consistent with construction noise levels permitted by the General Plan Community Character Element and the County Noise Ordinance. Construction equipment muffling and hours of operation shall be in compliance with the County Code. Equipment shall be shut down when not in use. Construction equipment shall normally be staged, loaded, and unloaded on the project site, if at all practicable. If project terrain or access road conditions require construction equipment to be staged, loaded, or unloaded off the project site (such as on a neighboring road or at the base of a hill), such activities shall only occur daily between the hours of 8 am to 5 pm.

c/d. The proposed project involves a marketing program including 38 events on an annual basis with the largest events permitting up to 200 guests that has the potential to generate higher noise levels, compared to existing conditions, as a result of the proposed occurrence of marketing events outdoors.

Additional regulations contained within County Code Chapter 8.16 establish exterior noise criteria for various land uses in the County. As described in the Project Setting, above, land uses that surround the proposed parcel are predominantly agricultural (vineyard and winery) but include low density residential; of these land uses, the residential land use is considered the most sensitive to noise. Based on the standards in County Code section 8.16.070, noise levels, measured at the exterior of a residential structure or residential use on a portion of a larger property, may not exceed 50 decibels for more than half of any hour in the window of daytime hours (7:00 a.m. to 10:00 p.m.) within which the applicant proposes to conduct events. Noise impacts of the proposed project would be considered bothersome and potentially significant if sound generated by it had the effect of exceeding the standards in County Code more than 50 percent of the time (i.e., more than 50 decibels for more than 30 minutes in an hour for a residential use).

The nearest off-site residence to the proposed winery is approximately 2,535 feet to the southeast of the existing winery structures. Under the proposed project, the largest outdoor event that would occur on the parcel would have an attendance of no more than 200 people, and all events would end by 10:00 p.m., with clean-up conducted afterwards. Winery operations would occur between 7:00 a.m. and 7:00 p.m. (excluding harvest). The potential for the creation of significant noise from visitation is significantly reduced, since the tasting areas are predominantly within the winery (hospitality building) itself. Continuing enforcement of Napa County's Noise Ordinance by the Division of Environmental Health and the Napa County Sheriff, including the prohibition against amplified music, should further ensure that marketing events and other winery activities do not create a significant noise impact. Events and non-amplified music, including clean-up are required

to finish by 10:00 p.m. Amplified music or sound systems would not be permitted for outdoor events as identified in standard Condition of Approval 4.10 below. Temporary events would be subject to County Code Chapter 5.36 which regulates proposed temporary events.

4.10 **AMPLIFIED MUSIC**

There shall be no amplified sound system or amplified music utilized outside of approved, enclosed, winery buildings.

The proposed project would not result in long-term significant permanent noise impacts.

e/f. The project site is not located within an airport land use plan or the vicinity of a private airstrip. No impact would occur.

Mitigation Measures: None required.

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|---|--------------------------------|---|-------------------------------------|-------------------------------------|
| XIII. POPULATION AND HOUSING. Would the project: | | | | |
| a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion:

a. Staffing for the winery would include up to a maximum of 28 full-time employees. The Association of Bay Area Governments' *Projections 2003* figures indicate that the total population of Napa County is projected to increase some 23% by the year 2030 (*Napa County Baseline Data Report*, November 30, 2005). Additionally, the County's *Baseline Data Report* indicates that total housing units currently programmed in county and municipal housing elements exceed ABAG growth projections by approximately 15%. The 28 full-time employees which are part of this project could lead to minor population growth in Napa County. However, Cuvaision Incorporated sold their Calistoga facility in April 2015 necessitating the relocation of the existing employees to the Carneros facility. Therefore, many of the employees at the Carneros facility would be existing employees, not new employees. Relative to the County's projected low to moderate growth rate and overall adequate programmed housing supply that population growth does not raise to a level of environmental significance. In addition, the project would be subject to the County's housing impact mitigation fee, which provides funding to meet local housing needs.

Cumulative impacts related to population and housing balance were identified in the 2008 General Plan EIR. As set forth in Government Code §65580, the County of Napa must facilitate the improvement and development of housing to make adequate provision for the housing needs of all economic segments of the community. Similarly, CEQA recognizes the importance of balancing the prevention of environment damage with the provision of a "decent home and satisfying living environment for every Californian." (See Public Resources Code §21000(g).) The 2008 General Plan sets forth the County's long-range plan for meeting regional housing needs, during the present and future housing cycles, while balancing environmental, economic, and fiscal factors and community goals. The policies and programs identified in the General Plan Housing Element function, in combination with the County's housing impact mitigation fee, to ensure adequate cumulative volume and diversity of housing. Cumulative impacts on the local and regional population and housing balance would be less than significant.

b/c. This application would not displace a substantial volume of existing housing or a substantial number of people and would not necessitate the construction of replacement housing elsewhere. No impacts would occur.

Mitigation Measures: None required.

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|---|--------------------------------|---|-------------------------------------|--------------------------|
| XIV. PUBLIC SERVICES. Would the project result in: | | | | |
| a) Substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: | | | | |
| Fire protection? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Police protection? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Schools? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Parks? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Other public facilities? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

- a. Public services are currently provided to the project area and the additional demand placed on existing services as a result of the proposed project would be minimal. Fire protection measures would be required as part of the development pursuant to Napa County Fire Marshall conditions and there would be no foreseeable impact to emergency response times with compliance with these conditions of approval. The Fire Department and Engineering Services Division have reviewed the application and recommend approval, as conditioned. School impact fees, which assist local school districts with capacity building measures, would be levied pursuant to building permit submittal. The proposed project would have minimal impact on public parks as no residences are proposed. Impacts to public services would be less than significant.

Mitigation Measures: None required.

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|--|--------------------------------|---|-------------------------------------|-------------------------------------|
| XV. RECREATION. Would the project: | | | | |
| a) 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion:

- a. The project would not significantly increase use of existing park or recreational facilities based on its limited scope. Impacts would be less than significant.
- b. No recreational facilities are proposed as part of the project. No impact would occur.

Mitigation Measures: None required.

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|--|--------------------------------|---|------------------------------|-----------|
| XVI. TRANSPORTATION/TRAFFIC. Would the project: | | | | |

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|--|--------------------------------|---|-------------------------------------|-------------------------------------|
| a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system and/or conflict with General Plan Policy CIR-16, which seeks to maintain an adequate Level of Service (LOS) at signalized and unsignalized intersections, or reduce the effectiveness of existing transit services or pedestrian/bicycle facilities? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the Napa County Transportation and Planning Agency for designated roads or highways? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Substantially increase hazards due to a design feature, (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e) Result in inadequate emergency access? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f) Conflict with General Plan Policy CIR-23, which requires new uses to meet their anticipated parking demand, but to avoid providing excess parking which could stimulate unnecessary vehicle trips or activity exceeding the site's capacity? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| g) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion:

a/b. The project study area consists of the intersections of SR 12-121/Duhig Road and SR 12-121/Old Sonoma Road. SR 12-121/Duhig Road is a "tee" intersection with the northbound Duhig Road approach stop-controlled. SR 12-121/Old Sonoma Road is a signalized "tee" intersection with protected left-turn phasing on the eastbound SR 12-121 approach and a right-turn overlap on the southbound Old Sonoma Road approach. The project site would continue to be accessed via a private driveway connecting to Duhig Road.

W-Trans prepared a *Traffic Impact Study* on September 21, 2017. Existing and anticipated project trips are identified in Table 6 of the study and are also summarized in the table below.

| Scenario | Daily | | Weekend PM Peak Hour (4:00 PM to 6:00 PM) | | | Weekend MD Peak Hour (12 noon to 2:00 PM) | | |
|----------------------|------------|------------|---|-----------|-----------|---|-----------|-----------|
| | Weekday | Weekend | Trips | In | Out | Trips | In | Out |
| Existing | 94 | 84 | 36 | 12 | 24 | 48 | 24 | 24 |
| Proposed | 230 | 214 | 87 | 29 | 58 | 122 | 61 | 61 |
| Net New Trips | 136 | 130 | 51 | 17 | 34 | 74 | 37 | 37 |

The requested additional marketing events would have up to 200 attendees at the largest event which would occur 14 times a year. These events would typically be held outside the peak hour for traffic and would be anticipated to generate 163 trip ends at the driveway including 81 inbound trips and 82 outbound trips.

Cumulative operating conditions were determined by the calculating the project's percentage contribution to the total growth in traffic from existing conditions.

Traffic conditions on roads and at intersections are generally characterized by their "level of service" or LOS. LOS is a convenient way to express the ratio between volume and capacity on a given link or at a given intersection, and is expressed as a letter grade ranging from LOS A through LOS F. Each level of service is generally described as follows:

LOS A- Free-flowing travel with an excellent level of comfort and convenience and freedom to maneuver.

LOS B- Stable operating conditions, but the presence of other road users causes a noticeable, though slight, reduction in comfort, convenience, and maneuvering freedom.

LOS C- Stable operating conditions, but the operation of individual users is substantially affected by the interaction with others in the traffic stream.

LOS D- High-density, but stable flow. Users experience severe restrictions in speed and freedom to maneuver, with poor levels of comfort and convenience.

LOS E- Operating conditions at or near capacity. Speeds are reduced to a low but relatively uniform value. Freedom to maneuver is difficult with users experiencing frustration and poor comfort and convenience. Unstable operation is frequent, and minor disturbances in traffic flow can cause breakdown conditions.

LOS F- Forced or breakdown conditions. This condition exists wherever the volume of traffic exceeds the capacity of the roadway. Long queues can form behind these bottleneck points with queued traffic traveling in a stop-and-go fashion. (2000 Highway Capacity Manual, Transportation Research Board)

A summary of the existing peak hour intersection level of service calculations is provided in the table below. Delay is measured in average seconds per vehicle.

| Study Intersection Approach | Weekday PM Peak | | Weekend Midday Peak | |
|-----------------------------|-----------------|-----|---------------------|-----|
| | Delay | LOS | Delay | LOS |
| SR 12-121/Duhig Road | 5.4 | A | 2.8 | A |
| Northbound Approach | 85.4 | F | 54.5 | F |
| SR 12-121/Old Sonoma Road | 56.0 | E | 44.2 | D |

According to the study, "SR 12-121/Duhig Road is operating unacceptably at LOS F on the Duhig Road approach during both peak periods under Existing, Existing plus Approved, and Future Conditions. Upon adding project-generated trips, and with the proposed improvements to provide separate left-turn and right-turn lanes on the Duhig Road approach, delays would be less with the project than without it, resulting in a less-than-significant impact" (*Traffic Impact Study for Cuvaison Winery, 2017*). The intersection of SR 12-121 is operating unacceptably during the weekday PM peak hour at LOS E and acceptably during the weekend midday peak hour at LOS D under Existing and Existing plus Approved conditions, with and without project-added trips. This intersection is anticipated to operate unacceptably at LOS F during the weekday PM peak hour and at LOS E during the weekend midday peak hour under Future and Future plus Project conditions. The study found that the project would have a less than significant impact under all scenarios, including those where the study intersection is operating unacceptably without project-added volumes, because the project-added volumes represent less than one percent of existing or existing plus approved volumes and less than five percent of the difference between existing and projected future volumes. The study also evaluated queuing on northbound Duhig Road at SR 12 which is expected to increase to 220 feet under existing weekend midday peak hour volumes plus special event traffic. "The distance on Duhig Road between SR 12 and the nearest driveway is 650 feet, so existing space is adequate for the projected queue lengths. Queuing in the westbound SR 12 direction is expected to remain within the existing storage length of the left-turn pocket, which is 200 feet" (*Traffic Impact Study for Cuvaison Winery, 2017*). Public Works Department staff reviewed the study and concluded that the study adequately demonstrates that the proposed use in the proposed location would not result in any significant impacts, either project-specific or cumulative, on traffic circulation in the vicinity. Therefore, the project would result in a nominal increase in trips on the study area transportation network. Additionally, a project specific condition would ensure that all marketing events be scheduled outside peak weekend midday hours (12:00 noon to 2:00 PM), peak weekend PM hours (4:00 PM to 6:00 PM), and weekday (4:00 PM to 6:00 PM) traffic hours. Impacts would be less than significant.

c. No air traffic is proposed and there are no new structures proposed for this project that would interfere with or require alteration of air traffic patterns. No impact would occur.

d-f. After implementation of the proposed project, the site would continue to be accessed via a driveway on Duhig Road. Sight distance along Duhig Road at the project driveway was evaluated based on sight distance criteria contained in the *Highway Design Manual* published by Caltrans. The study found that "sight distance along Duhig Road in both directions from the driveway is clear for more than 600 feet, which exceeds the minimum sight distance required for vehicles traveling 50 mph. Similarly, drivers on Duhig Road will have visibility of a vehicle stopped to turn left onto the driveway for more than 600 feet, which is also adequate" (*Traffic Impact Study for Cuvaison Winery, 2017*). A project specific condition would require that any proposed landscaping be maintained in a manner which does not interfere with this sight distance. Proposed site access was reviewed and approved by the Napa County Fire Department, Engineering Services Division, and Public Works Department, as conditioned.

Based on the forecast of traffic to be generated by the proposed project, the project would require the installation of a left-turn lane at the location of the proposed project driveway on Duhig Road. The request proposed an exception to allow the Cuvaison Winery Use Permit Modification to be approved without the requirement that a left turn lane be installed at the intersection of the property driveway and Duhig Road because construction of the left-turn lane would result in the need to relocate four utility poles, impact an established drainage

course, and potentially require the removal of a portion of existing vineyards. The applicant also argued that a left-turn lane would not be required if Caltrans standards were applied rather than the Napa County RSS. The applicant proposed to only install paving and striping at the intersection of Duhig Road and State Route 12-221. This request was considered by the County's Public Works Director and denied on September 28, 2017.

The proposal includes the striping of an additional 11 parking spaces within an existing paved area for a total of 34 parking spaces. Based upon the County standard of 2.6 persons per vehicle during weekdays and 2.8 persons per vehicle during weekends and 1.05 persons per vehicle for employees the minimum parking required for daily activities would be 96 parking spaces. However, it is unlikely that the winery would host 180 visitors at one time and have 28 full-time employees at the site at one time.

- g. As proposed, the project would not conflict with any adopted policies, plans or programs supporting alternative transportation. The project proposes the installation of bicycling parking facilities. No impact would occur.

Mitigation Measures: None required.

| | | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|-------|---|--------------------------------|---|------------------------------|-------------------------------------|
| XVII. | TRIBAL CULTURAL RESOURCES. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: | | | | |
| | a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k); or | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion:

- a/b. On September 27, 2017, County Staff sent invitations to consult on the proposed project to Native American tribes who had a cultural interest in the area and who as of that date had requested to be invited to consult on projects, in accordance with the requirements of Public Resources Code section 21080.3.1. No requests for consultation were received from the other Native American tribe traditionally and culturally affiliated with the project area during the 30-day consultation request period or afterward.

Mitigation Measures: None required.

| | | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|--------|--|--------------------------------|---|-------------------------------------|--------------------------|
| XVIII. | UTILITIES AND SERVICE SYSTEMS. Would the project: | | | | |
| | a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | b) Require or result in the construction of a new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | c) Require or result in the construction of a new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|---|--------------------------------|---|-------------------------------------|--------------------------|
| d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| g) Comply with federal, state, and local statutes and regulations related to solid waste? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

a/b. The project would not exceed wastewater treatment requirements of the Regional Water Quality Control Board and would not result in a significant impact on the environment relative to wastewater discharge. Wastewater disposal would be accommodated on-site and in compliance with State and County regulations. According to the Wastewater Feasibility Study prepared by RAM Engineering in May 2016, the project site and proposed system has adequate disposal capacity to serve the project. The study concluded "that adequate expansion area exists to accommodate the proposed increase in flows associated with this Use Permit modification request" (Wastewater Feasibility Study, 2016). The Division of Environmental Health reviewed this report and concurred with its findings.

The facility's domestic water system would be classified as transient, non-community and would be managed by employees of the winery. The subject parcel currently sources water from three wells. According to the WAA prepared by RAM Engineering, the primary winery well was constructed in April 2006. The project proposes to use the primary well as the main project water source capable of providing winery related water demand. The onsite reservoirs provide 142 acre-feet of diversion rights, none of which include groundwater extraction. These reservoirs are not fed by a groundwater source, they are fed by direct rainfall, surface runoff, drain tile water, Carneros Creek, and recycled process wastewater generated by the winery. The applicant submitted a Tier 2 WAA completed by RAM Engineering in September 2016 showing the projected water use for the project is 6.51 AF/YR in a normal rainfall year and 45.31 AF/YR in a drought year. The analysis concluded that anticipated total overall water demand for the project site in a normal rainfall year would be 6.51 AF/YR representing a 141.7 AF/YR decrease of the existing water demand of 148.2 AF/YR. The parcel water demand can be met with the existing project wells. The Water Availability Analysis concluded that sufficient water would be available to serve the proposed project. Impacts would be less than significant.

c. The preliminary grading and drainage plan has been reviewed by the Engineering Division. As conditioned, impacts would be less than significant.

d. As discussed in **Section IX** above, the Carneros Region is now considered "all other areas" based upon current County Water Availability Analysis policies and therefore water use criteria is parcel specific based upon a Tier 2 analysis. A Tier 2 analysis was completed by RAM Engineering on September 27, 2016 which included a parcel specific recharge evaluation prepared by Wagner and Bonsignore. According to the recharge evaluation, "For the site, with 26 inches of average rainfall, the hydrograph-derived average year recharge would amount to about 2.17 ft x 0.14 = 0.30 feet (or acre-feet/acre), with about 2.17 x 0.08 = 0.17 acre-ft/acre in a drought period. Over the 392 acre property, this amounts to recharge of about 118 acre-feet in a normal year, and about 67 acre-feet during drought periods" (*Estimate of Groundwater Recharge Carneros Cuvaison Winery Property, 1221 Duhig Road, Napa, 2016*). Existing water demand for the site is 148.20 AF/YR. The Water Availability Analysis concluded that sufficient water would be available to serve the proposed project. According to the Water Availability Analysis, a total future demand of 6.51AF/YR in a normal rainfall year, representing a 141.7 AF/YR decrease, would be required to serve the site which is below the parcel's anticipated groundwater recharge rate of 118 AF/YR in a normal year. In summary, the existing yield would be sufficient to serve all uses on the property. Any project which reduces water usage or any water usage which is at or below the established threshold is assumed not to have a significant effect on groundwater levels. Impacts would be less than significant as there is sufficient water supply available to serve the proposed project.

e. Wastewater would be treated on-site and would not require a wastewater treatment provider. Impacts would be less than significant.

f. The project would be served by Keller Canyon Landfill which has a capacity which exceeds current demand. As of January 2004, the Keller Canyon Landfill had 64.8 million cubic yards of remaining capacity and has enough permitted capacity to receive solid waste through 2030. Impacts would be less than significant.

- g. The project would comply with federal, state, and local statutes and regulations related to solid waste. Therefore, impacts would be less than significant.

Mitigation Measures: None required.

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporation | Less Than Significant Impact | No Impact |
|--|--------------------------------|---|-------------------------------------|--------------------------|
| XIX. MANDATORY FINDINGS OF SIGNIFICANCE | | | | |
| a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

- a. As identified in **Section IV and Section V**, all potential impacts to biological resources and cultural resources would be less than significant.
- b. The project does not have impacts that are individually limited, but cumulatively considerable. Potential air quality, greenhouse gas emissions, hydrology, and traffic impacts are discussed in the respective sections above. The project would also increase the demands for public services to a limited extent, increase traffic and air pollutions, all of which contribute to cumulative effects when future development in Napa Valley is considered. Cumulative impacts of these issues are discussed in previous sections of this Initial Study, wherein the impact from an increase in air pollution is being addressed as discussed in the project's Greenhouse Gas Voluntary Best Management Practices including but not limited to: installation of bicycling parking facilities. The existing winery has already implemented the following GHG reduction practices: installation of approximately 20,000 square feet of solar panels on the winery roof; planting of approximately 70 native trees along the driveway, near the irrigation pond, and along Carneros Creek; use of two gas/electric hybrid vehicles; installation of a cool roof; encouraging employees to commute via bicycles; installation of water efficient fixtures; use of a permeable surface parking lot; installation of water efficient landscape; recycling 75 percent of all waste; certification as a Napa Green Winery and Napa Green Land; use of recycled materials; education to staff and visitors on sustainable practices; and the use of 70 to 80 percent cover crop.

Potential impacts are discussed in the respective sections above. The project trip generation was calculated from winery operations, where the calculated trips reflect total visitation, on-site employees and wine production trips generated by the winery. Under the Napa County General Plan, traffic volumes are projected to increase and will be caused by a combination of locally generated traffic as well as general regional growth. The General Plan EIR indicates that much of the forecasted increase in traffic on the arterial roadway network will result from traffic generated outside of the county, however the project would contribute a small amount toward the general overall increase.

General Plan Policy CIR-16 states that "The County will seek to maintain an arterial Level of Service D or better on all County roadways, except where the level of Service already exceeds this standard and where increased intersection capacity is not feasible without substantial additional right of way." Under future conditions, the intersection of SR 12-121/Duhig Road is anticipated to operate at LOS F on the Duhig Road approach. With the addition of project generated trips, the intersection is expected to operate at reduced delays because of the additional capacity to be provided by the project improvements. According to the traffic study, "the intersection of SR 12-121/Old Sonoma Road is expected to operate at LOS E during the weekday p.m. peak hours and LOS F during the weekend midday peak hour under Future conditions. With the addition of project generated trips, the intersection is expected to continue operating at the same levels of service as without" (*Traffic Impact Study for Cuvaison Winery, 2017*). As discussed above under Section XVI Transportation, the

project's additional traffic at the peak hours would avoid a deterioration of the level of service at the study intersections by adding less than one percent to the existing volume, reducing potential cumulative impacts to a less than significant level.

- c. All impacts identified in this ND are less than significant and do not require mitigation. Therefore, the proposed project would not result in environmental effects that cause substantial adverse effects on human being either directly or indirectly. Impacts would be less than significant.

Mitigation Measures: None Required.