

County of Sacramento

Mitigated Negative Declaration

Pursuant to Title 14, Division 6, Chapter 3, Article 6, Sections 15070 and 15071 of the California Code of Regulations and pursuant to the Procedures for Preparation and Processing of Environmental Documents adopted by the County of Sacramento pursuant to Sacramento County Ordinance No. SCC-116, the Environmental Coordinator of Sacramento County, State of California, does prepare, make, declare, publish, and cause to be filed with the County Clerk of Sacramento County, State of California, this Mitigated Negative Declaration re: The Project described as follows:

1. Control Number: PLNP2022-00118

2. Title and Short Description of Project: River Retreat

The project consists of the following entitlement requests:

- 1. A Use Permit request to the Zoning Administrator to allow for a new single-family residence on a property less than 26,500 square feet in the "undeveloped residential parcel" category per the Garden Highway Special Planning Area.
- 2. A Design Review to determine substantial compliance with the Sacramento County Countywide Design Guidelines (Design Guidelines).

The project would construct a 4,700 square-foot, two-story, single-family home including an attached three car garage. The project will also include a private well and septic system and a concrete driveway leading from Garden Highway to the residence.

3. Assessor's Parcel Number: 274-0250-029-0000

4. Location of Project: The project site is located at 2553 Garden Highway approximately 5150 linear feet northwest of where Interstate 80 crosses the Sacramento River.

5. Project Applicant: Chandra Teja Kilaru

6. Said project will not have a significant effect on the environment for the following reasons:

a. It will not 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.

- b. It will not have the potential to achieve short-term, to the disadvantage of long-term, environmental goals.
- c. It will not have impacts, which are individually limited, but cumulatively considerable.

d. It will not have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly.

7. As a result thereof, the preparation of an environmental impact report pursuant to the Environmental Quality Act (Division 13 of the Public Resources Code of the State of California) is not required.

8. The attached Initial Study has been prepared by the Sacramento County Planning and Environmental Review Division in support of this Mitigated Negative Declaration. Further information may be obtained by contacting the Planning and Environmental Review Division at 827 Seventh Street, Room 225, Sacramento, California, 95814, or phone (916) 874-6141.

Julie Newton Environmental Coordinator County of Sacramento, State of California

COUNTY OF SACRAMENTO OFFICE OF PLANNING AND ENVIRONMENTAL REVIEW INITIAL STUDY

PROJECT INFORMATION

Control Number: PLNP2022-00118

Name: River Retreat

Location: The project site is located at 2553 Garden Highway approximately 5150 linear feet northwest of where Interstate 80 crosses the Sacramento River.

Assessor's Parcel Number: 274-0250-029-0000

Owner: Chandra Teja Kilaru 3632 Odessa Lane Sacramento, CA 95834

PROJECT DESCRIPTION

The project consists of the following entitlement requests:

- 1. A **Use Permit** request to the Zoning Administrator to allow for a new single-family residence on a property less than 26,500 square feet in the "undeveloped residential parcel" category per the Garden Highway Special Planning Area.
- 2. A **Design Review** to determine substantial compliance with the *Sacramento County Countywide Design Guidelines* (Design Guidelines).

The project would construct a 4,700 square-foot, two-story, single-family home including an attached three car garage. The project will also include a private well and septic system and a concrete driveway leading from Garden Highway to the residence.

ENVIRONMENTAL SETTING

The project site is located on the west side of Garden Highway (**Plate IS-1**) fronting the Sacramento River. The site consists of a relatively square parcel of land approximately 165 feet by 145 feet. The topography of the project site is generally flat other than the levee along the banks of the Sacramento River. The vegetation on the project site is predominantly valley oaks with several other deciduous tree species.

Native trees on the project site consist of valley oak, California Sycamore and completely cover the parcel with tree canopy.

Surrounding land uses include single-family residential uses developed along the riverbank, agricultural uses east of Garden Highway. The Sacramento River is popular for recreation such as boating, water skiing, and fishing as well as wildlife viewing.



Plate IS-1: Site Plan



Plate IS-2: Aerial View of Project Site





ENVIRONMENTAL EFFECTS

Appendix G of the California Environmental Quality Act (CEQA) provides guidance for assessing the significance of potential environmental impacts. Based on this guidance, Sacramento County has developed an Initial Study Checklist (located at the end of this report). The Checklist identifies a range of potential significant effects by topical area. The topical discussions that follow are provided only when additional analysis beyond the Checklist is warranted.

BACKGROUND

The application is subject to planning entitlements from Sacramento County for compliance with the Garden Highway Special Planning Area (SPA). The applicant will be required to coordinate with the United States Army Corps of Engineers (USACE) and the Central Valley Flood Protection Board (CVFPB) to conduct geotechnical testing on the parcel. The Sacramento River East Levee, located on the subject parcel, is a USACE Civil Work. Permission to implement the project on a Civil Work must be obtained from the USACE pursuant to compliance with Section 14 of the Rivers and Harbors Act of 1899, codified at 33 United States Code (USC) 408 (Section 408). Construction on the parcel is also subject to permitting from the CVFPB.

LAND USE

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

• Cause a significant environmental impact due to a conflict with any applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

The proposed project requires a use permit in order to construct a single-family home due to the fact that the approximately ½ -acre lot does not meet the lot depth requirements as described in the development standards of Section 501-257 (c) (2) in the Garden Highway SPA. As the property was not developed with residential land uses prior to October 4, 1978, the project would be subject to these development standards. Further, the project deviates from the Garden Highway SPA Development Standards in that there is one heritage/landmark tree that must be removed from the building pad area.

501-257. UNDEVELOPED RESIDENTIAL PARCELS:

(c) Development Standards

12. Existing trees. Trees which exceed nine (9) inches in diameter at a height of four (4) feet shall not be removed, except when such trees are located in the building pad area. The Director shall not approve the construction of a new dwelling if heritage or landmark trees must be

removed from the building pad area, unless the construction attempts to preserve such heritage and landmark trees through careful design.

The proposed project is consistent with the Garden Highway SPA land use designation for the undeveloped parcel - single-family residential. However, the proposed project is not consistent with the Garden Highway SPA policy regarding lot depth requirements. The inconsistency with the lot depth requirement is addressed under the use permit request and the new single-family residences will comply with all building setbacks and restrictions. Conflicts with Garden Highway SPA policy regarding removal of existing trees and heritage or landmark trees are discussed further in this document in the Biological Resources topical heading. Appropriate mitigation to compensate for the loss of these trees is recommended to reduce these impacts to a less than significant level. Further, due to the placement of heritage native oak tree in the center of the parcel, there is no feasible way to construct the new residence, driveway and private utilities, and retain the tree. Individual environmental impacts not specifically addressed in the Garden Highway SPA are addressed in this document under the appropriate topical heading.

All potential impacts would be reduced to less than significant with the implementation of project-specific mitigation. With approval of the use permit, the proposed project would have a *less than significant* impact with regards to potential conflict with the Garden Highway SPA.

AESTHETICS

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

• Substantially alter existing viewsheds such as scenic highways, corridors or vistas.

The Garden Highway is identified as a scenic corridor in the Circulation Element of the General Plan. Garden Highway is not an official State scenic highway established pursuant to Article 2.5 (commencing with Section 260) of Chapter 2 of Division 1 of the Streets and Highways Code. To preserve and enhance the scenic qualities of the scenic corridor, which runs along the crown of the Sacramento River levee from the Sacramento City limits north to the Sutter County line, the Garden Highway SPA includes development standards that must be met for new construction. Compliance with the development standards, which permit residential development on the river side of the levee, include specifications for setbacks and height limits, and encourage vegetative screening of homes along the corridor to preserve the quiet residential atmosphere of the corridor. Development of the site with a single-family residence would be consistent with the planned development and zoning of the site. The construction of the single-family home would be similar to the single-family homes to the north and south of the project site Ξ he home will be constructed to meet front yard, back yard, and side yard setbacks as well as height requirements as stipulated in the Garden Highway SPA. Therefore, impacts to aesthetics will be less than significant.

AIRPORTS

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

• Result in a safety hazard for people residing or working in the vicinity of an airport/airstrip.

The project occurs outside of any identified public or private airport/airstrip safety zones. However, the project is within Sacramento International Airport's Airport Planning Policy Area. The Sacramento County Board of Supervisors adopted resolution 2006-1379 on April 19, 2006, and associated land use conditions that were subsequently incorporated as Policies NO-3 and NO-4 in the Sacramento County 2030 General Plan Land Use Element, adopted in 2011. Those conditions read:

NO-3. New residential development within the 60 CNEL noise contours adopted by the County for planning purposes at any airport or Helipad within Sacramento County shall be prohibited. This policy is not applicable to Executive Airport.

NO-4. New residential development within adopted Airport Policy Area boundaries, but outside the 60 CNEL, shall be subject to the following conditions:

- A. Provide minimum noise insulation to 45 dB CNEL within new residential dwellings, including detached single-family dwellings, with windows closed in any habitable room. Notification in the Public Report prepared by the California Department of Real Estate disclosing the fact to prospective buyers that the parcel is located within an Airport Policy Area.
- B. Notification in the Public Report prepared by the California Department of Real Estate disclosing the fact to prospective buyers that the parcel is located within an Airport Policy Area.
- C. An Avigation Easement prepared by the Sacramento County Counsel's Office granted to the County of Sacramento, recorded with the Sacramento County Recorder, and filed with Department of Airports. Such Avigation Easement shall acknowledge the property location within an Airport Planning Policy Area and shall grant the right of flight and unobstructed passage of all aircraft into and out of the subject Airport.

The proposed project's existing General Plan land use is Recreation (APN 274-0250-029-0000). The proposed project lies within Sacramento International Airport's Airport Planning Policy Area and outside of Sacramento's 60 CNEL. While the project is not subject to policy NO-3, the proposed project would result in the development of the parcel within the adopted Airport Policy Area. Therefore, Policy NO-4 applies, and the inclusion of an Avigation Easement would be included as a condition of final project approval. Compliance with the conditions of approval will ensure impacts to Airports remain *less than significant*.

AIR QUALITY

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

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

CRITERIA POLLUTANT HEALTH RISKS

All criteria air pollutants can have human health effects at certain concentrations. Air districts develop region-specific CEQA thresholds of significance in consideration of existing air quality concentrations and attainment designations under the national ambient air quality standards (NAAQS) and California ambient air quality standards (CAAQS). The NAAQS and CAAQS are informed by a wide range of scientific evidence, which demonstrates that there are known safe concentrations of criteria air pollutants. Because the NAAQS and CAAQS are based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of these standards, the thresholds established by air districts are also protective of human health. Sacramento County is currently in nonattainment of the NAAQS and CAAQS for ozone. Projects that emit criteria air pollutants in exceedance of Sacramento Metropolitan Air Quality Management District (SMAQMD) thresholds would contribute to the regional degradation of air quality that could result in adverse human health impacts.

Acute health effects of ozone exposure include increased respiratory and pulmonary resistance, cough, pain, shortness of breath, and lung inflammation. Chronic health effects include permeability of respiratory epithelia and the possibility of permanent lung impairment (EPA 2016).

HEALTH EFFECTS SCREENING

In order to estimate the potential health risks that could result from the operational emissions of ROG, NO_X, PM₁₀ and PM_{2.5}, PER staff implemented the procedures within SMAQMD's Instructions for Sac Metro Air District Minor Project and Strategic Area Project Health Effects Screening Tools (SMAQMD's Instructions). To date, SMAQMD has published three options for analyzing projects: small projects may use the Minor Project Health Screening Tool, while larger projects may use the Strategic Area Project Health Screening Tool, and practitioners have the option to conduct project-specific modeling.

Both the Minor Project Health Screening Tool and Strategic Area Project Health Screening Tool are based on the maximum thresholds of significance adopted within the five air district regions contemplated within SMAQMD's Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District (SMAQMD's Friant Guidance; October 2020). The air district thresholds considered in SMAQMD's Friant Guidance included thresholds from SMAQMD as well as the El Dorado County Air Quality Management District, the Feather River Air Quality Management District, the Placer County Air Pollution Control District, and the Yolo Solano Air Quality Management District. The highest allowable emission rates of NO_X, ROG, PM₁₀, and PM_{2.5} from the five air districts is 82 pounds per day (lbs/day) for all four pollutants. Thus, the Minor Project Health Screening Tool is intended for use by projects that would result in emissions at or below 82 lbs/day, while the Strategic Area Project Health Screening Tool is intended for use by projects that would result in emissions between two and eight times greater than 82 lbs/day. The Strategic Area Project Screening Model was prepared by SMAQMD for five locations throughout the Sacramento region for two scenarios: two times and eight times the threshold of significance level (2xTOS and 8xTOS). The corresponding emissions levels included in the model for 2xTOS were 164 lb/day for ROG and NO_X, and 656 lb/day under the 8xTOS for ROG and NO_X (SMAQMD 2020).

As noted in SMAQMD's Friant Guidance, "each model generates conservative estimates of health effects, for two reasons: The tools' outputs are based on the simulation of a full year of exposure at the maximum daily average of the increases in air pollution concentration... [and] [t]he health effects are calculated for emissions levels that are very high" (SMAQMD 2020).

The model derives the estimated health risk associated with operation of the project based on increases in concentrations of ozone and PM_{2.5} that were estimated using a photochemical grid model (PGM). The concentration estimates of the PGM are then applied to the U.S. Environmental Protection Agency's Benefits Mapping and Analysis Program (BenMAP) to estimate the resulting health effects from concentration increases. PGMs and BenMAP were developed to assess air pollution and human health impacts over large areas and populations that far exceed the area of an average land use development project. These models were never designed to determine whether emissions generated by an individual development project would affect community health or the date an air basin would attain an ambient air quality standard. Rather, they are used to help inform regional planning strategies based on cumulative changes in emissions within an air basin or larger geography.

It must be cautioned that within the typical project-level scope of CEQA analyses, PGMs are unable to provide precise, spatially defined pollutant data at a local scale. In addition, as noted in SMAQMD's Friant Guidance, "BenMAP estimates potential health effects from a change in air pollutant concentrations, but does not fully account for other factors affecting health such as access to medical care, genetics, income levels, behavior choices such as diet and exercise, and underlying health conditions" (2020). Thus, the modeling conducted for the health risk analysis is based on imprecise mapping and only takes into account one of the main public health determinants (i.e., environmental influences).

DISCUSSION OF PROJECT IMPACTS: CRITERIA POLLUTANT HEALTH RISKS

Since the project was below the daily operational thresholds for criteria air pollutants, the Minor Project Health Screening Tool was used to estimate health risks. The results are shown in Table IS-1 and Table IS-2.

PM _{2.5} Health Endpoint	Age Range ¹	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year) ^{2,5}	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5- Air-District Region ³	Total Number of Health Incidences Across the 5- Air-District Region (per year) ⁴
Pospiratory		(Mean)	(Mean)		
Emergency Room	0 - 99	0.83	0.62	0.0034%	18419
Hospital Admissions, Asthma	0 - 64	0.053	0.042	0.0023%	1846
Hospital Admissions, All Respiratory	65 - 99	0.22	0.14	0.00074%	19644
Cardiovascular					
Hospital Admissions, All Cardiovascular (less Myocardial Infarctions)	65 - 99	0.11	0.082	0.00034%	24037
Acute Myocardial Infarction, Nonfatal	18 - 24	0.000095	0.000055	0.0015%	4
Acute Myocardial Infarction, Nonfatal	25 - 44	0.0064	0.0052	0.0017%	308
Acute Myocardial Infarction, Nonfatal	45 - 54	0.013	0.011	0.0015%	741
Acute Myocardial Infarction, Nonfatal	55 - 64	0.020	0.017	0.0014%	1239
Acute Myocardial Infarction, Nonfatal	65 - 99	0.068	0.053	0.0010%	5052
Mortality					
Mortality, All Cause	30 - 99	1.6	1.0	0.0022%	44766

Table IS-1: PM_{2.5} Health Risk Estimates

Notes:

1. Affected age ranges are shown. Other age ranges are available, but the endpoints and age ranges shown here are the ones used by the USEPA in their health assessments. The age ranges are consistent with the epidemiological study that is the basis of the health function.

 Health effects are shown in terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences, or "background health incidence") values. Health effects are shown for the Reduced Sacramento 4-km Modeling Domain and the 5-Air-District Region.

3. The percent of background health incidence uses the mean incidence. The background health incidence is an estimate of the average number of people that are affected by the health endpoint in a given population over a given period of time. In this case, the background incidence rates cover the 5-Air-District Region (estimated 2035 population of 3,271,451 persons). Health incidence rates and other health data are typically collected by the government as well as the World Health Organization. The background incidence rates used here are obtained from BenMAP.

- 4. The total number of health incidences across the 5-Air-District Region is calculated based on
- the modeling data. The information is presented to assist in providing overall health context.
 The technical specifications and map for the Reduced Sacramento 4-km Modeling Domain are included in Appendix A, Table A-1 and Appendix B, Figure B-2 of the *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District.*

Ozone Health Endpoint	Age Range ¹	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year) ^{2,5}	Incidences Across the 5-Air- District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5- Air-District Region ³	Total Number of Health Incidences Across the 5-Air-District Region (per year) ⁴
		(Mean)	(Mean)		
Respiratory					
Hospital Admissions, All Respiratory	65 - 99	0.071	0.048	0.00024%	19644
Emergency Room Visits, Asthma	0 - 17	0.37	0.28	0.0047%	5859
Emergency Room Visits, Asthma	18 - 99	0.58	0.43	0.0034%	12560
Mortality					
Mortality, Non-Accidental	0 - 99	0.044	0.031	0.00010%	30386

Table IS-2: Ozone Health Risk Estimates

Notes:

1. Affected age ranges are shown. Other age ranges are available, but the endpoints and age ranges shown here are the ones used by the USEPA in their health assessments. The age ranges are consistent with the epidemiological study that is the basis of the health function.

 Health effects are shown in terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences, or "background health incidence") values. Health effects are shown for the Reduced Sacramento 4-km Modeling Domain and the 5-Air-District Region.

- 3. The percent of background health incidence uses the mean incidence. The background health incidence is an estimate of the average number of people that are affected by the health endpoint in a given population over a given period of time. In this case, the background incidence rates cover the 5-Air-District Region (estimated 2035 population of 3,271,451 persons). Health incidence rates and other health data are typically collected by the government as well as the World Health Organization. The background incidence rates used here are obtained from BenMAP.
- 4. The total number of health incidences across the 5-Air-District Region is calculated based on the modeling data. The information is presented to assist in providing overall health context.
- 5. The technical specifications and map for the Reduced Sacramento 4-km Modeling Domain are included in Appendix A, Table A-1 and Appendix B, Figure B-2 of the *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District.*

Again, it is important to note that the "model outputs are derived from the numbers of people who would be affected by [the] project due to their geographic proximity and based on average population through the Five-District-Region. The models do not take into account population subgroups with greater vulnerabilities to air pollution, except for

ages for certain endpoints" (SMAQMD 2020). Therefore, it would be misleading to correlate the levels of criteria air pollutant and precursor emissions associated with project implementation to specific health outcomes. While the effects noted above could manifest in individuals, actual effects depend on factors specific to each individual, including life stage (e.g., older adults are more sensitive), preexisting cardiovascular or respiratory diseases, and genetic polymorphisms. Even if this specific medical information was known about each individual, there are wide ranges of potential outcomes from exposure to ozone precursors and particulates, from no effect to the effects listed in the tables. Ultimately, the health effects associated with the project, using the SMAQMD guidance "are conservatively estimated, and the actual effects may be zero" (SMAQMD 2020).

CONCLUSION: CRITERIA POLLUTANT HEALTH RISKS

Neither SMAQMD nor the County of Sacramento have adopted thresholds of significance for the assessment of health risks related to the emission of criteria pollutants. Furthermore, an industry standard level of significance has not been adopted or proposed. Due to the lack of adopted thresholds of significance the health risks, this data is presented for informational purposes and does not represent an attempt to arrive at any level-of-significance conclusions.

Noise

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

• May involve the use of pile driving or other methods during construction that would produce excessive groundborne vibration or noise levels at the property boundary.

CONSTRUCTION NOISE

The Sacramento County Noise Ordinance (Noise Ordinance) establishes a noise standard and a means for enforcing that standard within Sacramento County. According to Section 6.68.090(e) of the Noise Ordinance, construction noise is conditionally exempt from the noise standard between 6:00 a.m. and 8:00 p.m. Monday through Friday and between 7:00 a.m. to 8:00 p.m. on Saturday and Sunday; however, construction after 8:00 p.m. is permissible when necessary to complete work in progress due to unforeseen or unavoidable circumstances.

Construction the home may require pile driving construction techniques. Hough high levels of noise will occur during pile driving activities, these activities are temporary and will cease once construction is completed. Further, all work is expected to be conducted during normal construction work hours as described in the Noise Ordinance. The noise generated from these construction activities may be considered a nuisance to the occupants of the nearby residences but does not rise to a level of environmental significance due to the short duration and daytime hours of construction. Impacts related to construction noise are considered **less than significant**.

GROUNDBORNE VIBRATION

The proposed project involves the preparation of geological foundation measures that may include the use of driving piles, which have the potential to create groundborne vibration. To quantify reference vibration levels generated by heavy equipment typically used in the proposed construction activities, the analysis uses vibration measurement results from similar pieces equipment conducting similar activities (Table IS-3).

Vibration Source	Measurement Distance (Feet)	Peak Particle Velocity (inch/second)
Bulldozer	35	0.0209
Front-Loaders	100	0.0047
Haul Truck	100	0.0062
Water Truck	100	0.0070
Rock Drill	50	0.0187
Pile Driver (80,000lb example)	100	0.21

Exple IS-3: Reference Heavy Equipment Vibration Levels

The California Department of Transportation (Caltrans) has developed criteria that are commonly applied as an industry standard to determine the impacts of project vibration relative to human annoyance and structural damage. Caltrans determines that the vibration level of 80 VdB (0.04 in/sec PPV) would be distinctly perceptible. Therefore, remaining less than 80 VdB at residential uses would avoid human annoyance. Also, Caltrans recommends staying below 0.3 (in/sec PPV) for new residential structures, to avoid structural damage (Caltrans 2020).

Pile driving for foundation installation could result in excessive vibration for sensitive receptors. For continuous or frequent intermittent vibration sources, a vibration level of 0.25 inch per second peak particle velocity (in/sec ppv) is considered a criterion that would protect against significant architectural or structural damage. The general range at which vibration becomes distinct to strongly perceptible is 0.04–0.10 in/sec ppv. Vibration measurement results shown in Table IS-3 indicate that heavy equipment-generated vibration levels would be below the thresholds for annoyance and damage to structures even at the very close measurement locations of 35–100 feet from the operating equipment. As a result, given the setback from the proposed operations relative to the nearest receivers (approximately 100 feet to the residence to the south), project vibration levels generated by heavy earthmoving equipment are expected to be below the threshold of perception and/or significant structural damage.

exposure of persons to or generation of excessive groundborne vibration or noise levels as a result of implementing the proposed project would be *less than significant*.

HYDROLOGY AND WATER QUALITY

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

- Substantially alter the existing drainage pattern of the project area and/or increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site.
- Develop within a 100-year floodplain as mapped on a federal Flood Insurance Rate Map or within a local flood hazard area.
- Place structures that would impede or redirect flood flows within a 100-year floodplain.
- Expose people or structures to a substantial risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam.
- Create or contribute runoff that would exceed the capacity of existing or planned stormwater drainage systems.
- Create substantial sources of polluted runoff or otherwise substantially degrade ground or surface water quality.

FLOODPLAIN

The project site is located on the river side of the Garden Highway levee and is identified as being subject to 200-year urban levels of flood protection (ULOP) without levee protection. Therefore, the project is within ULOP applicability as established by Senate Bill 5 (SB-5). SB-5 was one of several bills passed in 2007 that amended the California Water Code and Government Code to strengthen flood protection and link land use planning to flood planning. One of the primary purposes of SB-5 and related legislation is to better tie local land use decisions that allow development in floodplains to the potential consequences in the event of a levee break. In addition, the site is identified as being within the Federal Emergency Management Agency (FEMA) 100-year floodplain, Flood Zone AE (flood map number 06067C160J see **Plate IS-4**), which is a designated and regulated floodway

Mandatory flood insurance purchase requirements and floodplain management standards apply. The construction of the proposed single-family residence will have to comply with existing insurance requirements and the County Floodplain Management Ordinance. With compliance, impacts to hydrology, drainage and flooding would be *less than significant*.



Plate IS-4: FEMA Map

WATER QUALITY

CONSTRUCTION WATER QUALITY: EROSION AND GRADING

Construction on undeveloped land exposes bare soil, which can be mobilized by rain or wind and displaced into waterways or become an air pollutant. Construction equipment can also track mud and dirt onto roadways, where rains will wash the sediment into storm drains and thence into surface waters. After construction is complete, various other pollutants generated by site use can also be washed into local waterways. These pollutants include, but are not limited to, vehicle fluids, heavy metals deposited by vehicles, and pesticides or fertilizers used in landscaping.

Sacramento County has a National Pollutant Discharge Elimination System (NPDES) Municipal Stormwater Permit issued by Regional Water Board. The Municipal Stormwater Permit requires the County to reduce pollutants in stormwater discharges to the maximum extent practicable and to effectively prohibit non-stormwater discharges. The County complies with this permit in part by developing and enforcing ordinances and requirements to reduce the discharge of sediments and other pollutants in runoff from newly developing and redeveloping areas of the County.

The County has established a Stormwater Ordinance (Sacramento County Code 15.12). The Stormwater Ordinance prohibits the discharge of unauthorized nonstormwater to the County's stormwater conveyance system and local creeks. It applies to all private and public projects in the County, regardless of size or land use type. In addition, Sacramento County Code 16.44 (Land Grading and Erosion Control) requires private construction sites disturbing one or more acres or moving 350 cubic yards or more of earthen material to obtain a grading permit. To obtain a grading permit, project proponents must prepare and submit for approval an Erosion and Sediment Control (ESC) Plan describing erosion and sediment control best management practices (BMPs) that will be implemented during construction to prevent sediment from leaving the site and entering the County's storm drain system or local receiving waters. Construction projects not subject to SCC 16.44 are subject to the Stormwater Ordinance (SCC 15.12) described above.

In addition to complying with the County's ordinances and requirements, construction sites disturbing one or more acres are required to comply with the State's General Stormwater Permit for Construction Activities (CGP). CGP coverage is issued by the State Water Resources Control Board (State Board) http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml and enforced by the Regional Water Board. Coverage is obtained by submitting a Notice of Intent (NOI) to the State Board prior to construction and verified by receiving a WDID#. The CGP requires preparation and implementation of a site-specific Stormwater Pollution Prevention Plan (SWPPP) that must be kept on site at all times for review by the State inspector.

Applicable projects applying for a County grading permit must show proof that a WDID # has been obtained and must submit a copy of the SWPPP. Although the County has no enforcement authority related to the CGP, the County does have the authority to ensure

sediment/pollutants are not discharged and is required by its Municipal Stormwater Permit to verify that SWPPPs include the minimum components.

The project must include an effective combination of erosion, sediment and other pollution control BMPs in compliance with the County ordinances and the State's CGP.

Erosion controls should always be the *first line of defense*, to keep soil from being mobilized in wind and water. Examples include stabilized construction entrances, tackified mulch, 3-step hydroseeding, spray-on soil stabilizers and anchored blankets. Sediment controls are the *second line of defense*; they help to filter sediment out of runoff before it reaches the storm drains and local waterways. Examples include rock bags to protect storm drain inlets, staked or weighted straw wattles/fiber rolls, and silt fences.

In addition to erosion and sediment controls, the project must have BMPs in place to keep other construction-related wastes and pollutants out of the storm drains. Such practices include, but are not limited to: filtering water from dewatering operations, providing proper washout areas for concrete trucks and stucco/paint contractors, containing wastes, managing portable toilets properly, and dry sweeping instead of washing down dirty pavement.

It is the responsibility of the project proponent to verify that the proposed BMPs for the project are appropriate for the unique site conditions, including topography, soil type and anticipated volumes of water entering and leaving the site during the construction phase. In particular, the project proponent should check for the presence of colloidal clay soils on the site. Experience has shown that these soils do not settle out with conventional sedimentation and filtration BMPs. The project proponent may wish to conduct settling column tests in addition to other soils testing on the site, to ascertain whether conventional BMPs will work for the project.

If sediment-laden or otherwise polluted runoff discharges from the construction site are found to impact the County's storm drain system and/or Waters of the State, the property owner will be subject to enforcement action and possible fines by the County and the Regional Water Board.

Project compliance with requirements outlined above, as administered by the County and the Regional Water Board will ensure that project-related erosion and pollution impacts are *less than significant*.

OPERATION: STORMWATER RUNOFF

Development and urbanization can increase pollutant loads, temperature, volume and discharge velocity of runoff over the predevelopment condition. The increased volume, increased velocity, and discharge duration of stormwater runoff from developed areas has the potential to greatly accelerate downstream erosion and impair stream habitat in natural drainage systems. Studies have demonstrated a direct correlation between the degree of imperviousness of an area and the degradation of its receiving waters. These

impacts must be mitigated by requiring appropriate runoff reduction and pollution prevention controls to minimize runoff and keep runoff clean for the life of the project.

The County requires that projects include source and/or treatment control measures on selected new development and redevelopment projects. Source control BMPs are intended to keep pollutants from contacting site runoff. Examples include "No Dumping-Drains to Creek/River" stencils/stamps on storm drain inlets to educate the public, and providing roofs over areas likely to contain pollutants, so that rainfall does not contact the pollutants. Treatment control measures are intended to remove pollutants that have already been mobilized in runoff. Examples include vegetated swales and water quality detention basins. These facilities slow water down and allow sediments and pollutants to settle out prior to discharge to receiving waters. Additionally, vegetated facilities provide filtration and pollutant uptake/adsorption. The project proponent should consider the use of "low impact development" techniques to reduce the amount of imperviousness on the site, since this will reduce the volume of runoff and therefore will reduce the size/cost of stormwater quality treatment required. Examples of low impact development techniques include pervious pavement and bioretention facilities.

The County requires developers to utilize the *Stormwater Quality Design Manual for the Sacramento Region, 2018* (Design Manual) in selecting and designing post-construction facilities to treat runoff from the project. Regardless of project type or size, developers are required to implement the minimum source control measures (Chapter 4 of the Design Manual). Low impact development measures and Treatment Control Measures are required of all projects exceeding the impervious surface threshold defined in Table 3-2 and 3-3 of the Design Manual. Further, depending on project size and location, hydromodification control measures may be required (Chapter 5 of the Design Manual).

Updates and background on the County's requirements for post-construction stormwater quality treatment controls, along with several downloadable publications, can be found at the following websites:

http://www.waterresources.saccounty.net/stormwater/Pages/default.aspx

http://www.beriverfriendly.net/Newdevelopment/

The final selection and design of post-construction stormwater quality control measures is subject to the approval of the County Department of Water Resources; therefore, they should be contacted as early as possible in the design process for guidance. Project compliance with requirements outlined above will ensure that project-related stormwater pollution impacts are *less than significant*.

GEOLOGY AND SOILS

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

• 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, soil expansion, liquefaction or collapse.

A Geotechnical report was not provided with this project. However, a recent project along the levee on Garden Highway did provide a preliminary Geotechnical study. The following is a description of the site conditions for that parcel and should be similar to the site conditions for the subject parcel.

PROJECT SITE CONDITIONS AT NEARBY PARCEL

SUBSURFACE CONDITIONS

The subsurface soils encountered generally consisted of sandy silts and silty clays to depths of approximately 25 to 30 feet below ground surface (bgs) underlain by approximately 30 to 35 feet of silty sands and clean sands and subsequently underlain by finer grained clays and silts. The sandy silts and silty clays found near the surface were found to be in a soft to stiff and slightly moist to wet condition the underlying silty sands and sands were found to be in a loose to medium dense and moist to wet condition. The finer grained materials found at depth were generally found to be in a stiff to very stiff conditions.

GROUNDWATER CONDITIONS

Groundwater was encountered during the subsurface exploration at a depth of approximately 20 feet bgs. The depth at which groundwater is encountered in the area is generally dependent on the water level of the adjacent river. Based on observations, the groundwater level was encountered approximately 5 to 8 feet below the water level of the river and will typically rise and fall with the water level.

PROJECT IMPACTS: GEOLOGIC STABILITY

Based on the information presented in the prior geotechnical report prepared for a nearby parcel, the project site could be subject to static and seismically induced settlements, and seismically induced lateral displacements. As such, the use of shallow conventional foundations alone is not a feasible option. It is recommended that the chosen foundation system provide adequate support for the structure and address the identified geo technical constraints.

RECOMMENDATIONS FOR STATIC SETTLEMENT AND INSTABILITY

Static settlement and instability are anticipated based on the relatively soft, near surface conditions. It is recommended to over-excavate the near surface soils under the proposed working area and replace these materials with engineered fill.

RECOMMENDATIONS FOR SEISMICALLY INDUCED SETTLEMENTS AND LATERAL DISPLACEMENTS

Due to the potential for liquefaction and lateral spreading it is recommended that the following options be considered to address these conditions. Measures for liquefaction and lateral spreading have a range of costs and complexity. The selected measures should, at a minimum, provide protection for life safety:

- 1. Deep Foundations
- 2. Ground Improvement

DEEP FOUNDATIONS

Due to the presence of soft, fine-grained soils and potentially liquefiable soils underlying the site, the use of conventional shallow foundation is not feasible due to the excessive static settlement, potential for seismically induced settlement, and potential for seismically induced lateral displacement. Therefore, the proposed residence should be supported by deep foundations bearing within the stiff silts and clays approximately 60 to 65 feet below the existing surface grade. Possible deep foundation include auger cast piles (ACP), drill displacement piles (DDP), and driven pipe piles. These foundation systems are designed and installed by specialty foundation contractors. The resulting depth of these foundations may extend tens of feet below the firm soil horizon to account for down drag settlements and bending by lateral spread.

GROUND IMPROVEMENT

In place of deep foundations, ground improvement methods may provide adequate mitigation against the identified geotechnical constraints. Conventional shallow or mat foundations may be used at the project site, provided that the selected ground improvement method(s) adequately addresses geotechnical constraints. The use of conventional shallow or mat foundations would include over-excavation of near surface soils and placement of engineered fills prior to ground improvement. This over-excavation and recompaction efforts may be necessary for site access by the ground improvement contractor. The structural engineer should work with the ground improvement design-build contractor to design the shallow or mat foundations to be sufficiently stiff to address the potential settlement of soil and ultimate, differential settlement damages to the structure.

The Preliminary Geotechnical Engineering Study found that the soils present along the Garden highway would not support development of the proposed building without modification. The Geotechnical Study proposed alternative soil/foundation measures to address the settlement and displacement issues present on the project site. These measures included the possible use of deep foundation piles or ground improvements. With the implementation of either measure the potential impacts to geology and soils would be *less than significant*.

BIOLOGICAL RESOURCES

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

• Have a substantial adverse effect on any special status species, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, or threaten to eliminate a plant or animal community.

- Have a substantial adverse effect on riparian habitat or other sensitive natural communities.
- Have a substantial adverse effect on streams, wetlands, or other surface waters that are protected by federal, state, or local regulations and policies.
- Have a substantial adverse effect on the movement of any native resident or migratory fish or wildlife species.
- Adversely affect or result in the removal of native or landmark trees.

BIOLOGICAL RESOURCES – REGULATORY SETTING

FEDERAL REGULATIONS

FEDERAL ENDANGERED SPECIES ACT

The Federal Endangered Species Act (FESA) of 1973 protects species that are federally listed as endangered or threatened with extinction. FESA prohibits the unauthorized "take" of listed wildlife species. Take includes harassing, harming, pursuing, hunting, shooting, wounding, killing, trapping, capturing, or collecting wildlife species or any attempt to engage in such activities. Harm includes significant modifications or degradations of habitats that may cause death or injury to protected species by impairing their behavioral patterns. Harassment includes disruption of normal behavior patterns that may result in injury to or mortality of protected species. Civil or criminal penalties can be levied against persons convicted of unauthorized "take." In addition, FESA prohibits malicious damage or destruction of listed plant species on federal lands or in association with federal actions, and the removal, cutting, digging up, damage, or destruction of listed plant species in violation of state law. FESA does not afford any protections to federally listed plant species that are not also included on a state endangered species list on private lands with no associated federal action.

MIGRATORY BIRD TREATY ACT

The Migratory Bird Treaty Act (MBTA) prohibits the take, possession, import, export, transport, selling, purchase, barter, or offering for sale, purchase or barter, any native migratory bird, their eggs, parts, and nests, except as authorized under a valid permit (50 CFR 21.11.). Likewise, Section 3513 of the California Fish & Game Code prohibits the "take or possession" of any migratory non-game bird identified under the MBTA. Therefore, activities that may result in the injury or mortality of native migratory birds, including eggs and nestlings, would be prohibited under the MBTA.

STATE REGULATIONS

STATE ENDANGERED SPECIES ACT

With limited exceptions, the California Endangered Species Act (CESA) of 1984 protects state-designated endangered and threatened species in a way similar to FESA. For projects on private property (i.e. that for which a state agency is not a lead agency),

CESA enables the California Department of Fish and Wildlife (CDFW) to authorize take of a listed species that is incidental to carrying out an otherwise lawful project that has been approved under CEQA (Fish & Game Code Section 2081).

CALIFORNIA FISH AND GAME CODE, SECTION 3503.5 - RAPTOR NESTS

Section 3503.5 of the Fish and Game Code makes it unlawful to take, possess, or destroy hawks or owls, unless permitted to do so, or to destroy the nest or eggs of any hawk or owl.

LOCAL REGULATIONS

COUNTY OF SACRAMENTO GENERAL PLAN

The Conservation Element of the Sacramento County General Plan (under Policy CO-58) currently provides protection to various ecosystems. Specifically, it "ensures no net loss of wetlands, riparian woodlands, and oak woodlands." The General Plan also seeks to protect landmark and heritage trees (collectively referred to as "protected trees"). "Landmark trees" are defined as ones that are "especially prominent and stately." "Heritage trees" are defined as native oaks that exceed 60 inches in circumference. Policies CO-137, CO- 138, CO-139, CO-140, and CO-141 encourage protection and preservation of landmark and heritage trees, and Policy CO-145 requires mitigation by creation of new tree canopy equivalent to the acreage of non-native tree canopy removed.

GARDEN HIGHWAY SPECIAL PLANNING AREA

The property is located within the Garden Highway Special Planning Area SPA. The Board of Supervisors expressed the following regarding adoption of the SPA:

"It is the express purpose of the Board of Supervisors in adopting this Ordinance to take into consideration the historical residential development and property divisions and to legalize all nonconforming uses, buildings and lots to the extent consistent with the provisions of this Ordinance, State law, and the County General Plan. The Board realizes that there is a unique blend of lot sizes, setbacks, building pad locations, and sewage disposal considerations that call for this special regulation."

Section 501-257(c)(12) of the SPA stipulates that existing trees which exceed nine (9) inches in diameter at a height of four (4)feet shall not be removed, except when such trees are located in the building pad area. The Director shall not approve the construction of a new dwelling if heritage or landmark trees must be removed from the building pad area, unless the construction attempts to preserve such heritage and landmark trees through careful design

BIOLOGICAL RESOURCES- IMPACTS AND ANALYSIS

SPECIAL STATUS SPECIES

Staff review of the project site, and search of the California Natural Diversity Database (CNDDB) species list was used to determine the potential habitats and species which

could be impacted by the project. Some sensitive habitats, plants, and animals occur within the West Sacramento quadrangle. The CNDDB indicates documented occurrences of bald eagle, least Bells vireo, Swainson's hawk, tricolored blackbird, California black rail, western yellow-billed cuckoo, longfin smelt, chinook salmon -Sacramento River winter-run, Delta smelt, green sturgeon, steelhead, valley elderberry longhorn beetle (VELB), giant garter snake within the specific quadrangles. The closest occurrences of the species listed above (i.e., Swainson's hawk) with two CNDDB documented nesting sites 0.14 and 0.2 miles of the project site. The CNDDB shows there are no records of VELB being on the project site with the nearest record of a VELB approximately 0.95 miles to the southeast of the project site. During the preparation of the arborist report, no Elderberry shrubs were found on the property. The project site does not contain habitat to support giant garter snake or tricolor blackbird. The neighboring Sacramento River could support longfin smelt, green sturgeon, and steelhead; however, the project will not impact the river. The project site contains habitat that may be suitable for tree roosting bats. Disturbance of roost sites during the maternity and hibernation seasons are considered primary factors that may negatively impact bats. The species that have the potential for occurrence on the project site are discussed in further detail below.

Swainson's Hawk

The Swainson's hawk (*Buteo swainsoni*) is listed as a threatened species by the State of California. It is a migratory raptor typically nesting in or near valley floor riparian habitats during spring and summer months. Swainson's hawks were once common throughout the state, but various habitat changes, including the loss of nesting habitat (trees) and the loss of foraging habitat through the conversion of native Central Valley grasslands to certain incompatible agricultural and urban uses has caused an estimated 90% decline in their population.

Swainson's hawks feed primarily upon small mammals, birds, and insects. Their typical foraging habitat includes native grasslands, alfalfa, and other hay crops that provide suitable habitat for small mammals. Certain other row crops and open habitats also provide some foraging habitat. The availability of productive foraging habitat near a Swainson's hawk's nest site is a critical requirement for nesting and fledgling success. In central California, about 85% of Swainson's hawk nests are within riparian forest or remnant riparian trees. CEQA analysis of impacts to Swainson's hawks consists of separate analyses of impacts to nesting habitat and foraging habitat.

The CEQA analysis provides a means by which to ascertain impacts to the Swainson's hawk. When the analysis identifies impacts, mitigation measures are established that will reduce impacts to the species to a less than significant level. Project proponents are cautioned that the mitigation measures are designed to reduce impacts and do not constitute an incidental take permit under the California Endangered Species Act (CESA). Anyone who directly or incidentally takes a Swainson's hawk, even when in compliance with mitigation measures established pursuant to CEQA, may violate the California Endangered Species Act.

NESTING HABITAT IMPACT METHODOLOGY

For determining impacts to and establishing mitigation for nesting Swainson's hawks in Sacramento County, CDFW recommends utilizing the methodology set forth in the Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley (Swainson's Hawk TAC 2000). The document recommends that surveys be conducted for the two survey periods immediately prior to the start of construction. The five survey periods are defined by the timing of migration, courtship, and nesting in a typical year (refer to Table IS-4). Surveys should extend a ½-mile radius around all project activities, and if active nesting is identified, CDFW should be contacted.

Period #	Timeframe	# of surveys required	Notes
Ι.	Jan. 1 – Mar. 20	1	Optional, but recommended
II.	Mar. 20 – Apr. 5	3	
111.	Apr. 5 – Apr. 20	3	
IV.	Apr. 21 – June 10	N/A	Initiating surveys is not recommended during this period
V.	June 10 – July 30	3	

For example, if a project is scheduled to begin on June 20, three surveys should be completed in Period III and three surveys in Period V, as surveys should not be initiated in Period IV. It is always recommended that surveys be completed in Periods II, III and V.

Swainson's Hawk Nesting Habitat - Project Impacts

The project site is located within the area of the nearest recorded Swainson's hawk occurrence and there are two more Swainson's hawk nesting sites within 0.5 miles. The project site contains numerous mature trees that could provide adequate nesting habitat for Swainson's hawk, therefore, preconstruction surveys for nesting hawks are necessary prior to construction. The purpose of the survey requirement is to ensure that construction activities do not agitate nesting hawks, potentially resulting in nest abandonment or other harm to nesting success. If Swainson's hawk nests are found, the developer is required to contact CDFW to determine what measures need to be implemented in order to ensure that nesting hawks remain undisturbed. The measures selected will depend on many variables, including the distance of activities from the nest, the types of activities, and whether the landform between the nest and activities provides any kind of natural screening. According to the Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley (Swainson's Hawk TAC 2000). The mitigation described above will ensure that impacts to nesting Swainson's hawk will be *less than significant*.

FORAGING HABITAT IMPACT METHODOLOGY

Swainson's hawks are known to forage up to 18 miles from their nest site; however, that is the extreme range of one individual bird's daily movement. It is more common for a Swainson's hawk to forage within 10 miles of its nest-site. Therefore, it is generally accepted and California Fish and Wildlife recommends evaluating projects for foraging habitat impacts when they are within 10 miles of a known nest site. Virtually all of Sacramento County is within 10 miles of a known nest.

Statewide, California Fish and Wildlife recommends implementing the measures set forth in the California Fish and Wildlife Staff Report Regarding Mitigation for Impacts to Swainson's Hawks (*Buteo swainsoni*) in the Central Valley of California (November 1, 1994) for determining impacts to Swainson's hawk foraging habitat unless local jurisdictions develop an individualized methodology designed specifically for their location. Sacramento County has developed such a methodology and received confirmation from California Fish and Wildlife in May of 2006 that the methodology is a better fit for unincorporated Sacramento County and should replace the statewide, generalized methodology for determining impacts to foraging habitat.

Swainson's hawk foraging habitat value is greater in large expansive open space and agricultural areas than in areas which have been fragmented by agricultural-residential or urban development. The methodology for unincorporated Sacramento County is based on the concept that impacts to Swainson's hawk foraging habitat occur as properties develop to increasingly more intensive uses on smaller minimum parcel sizes. As part of methodology development, County and California Fish and Wildlife staff analyzed aerial photography of the County and compared this to the underlying zoning. It was determined that there was a strong correlation in most areas between the presence of suitable habitat and zoning for large agricultural parcels, and conversely that areas zoned for agricultural-residential or more dense uses tended to have fragmented or absent habitat. Therefore, the methodology relies mainly on the minimum parcel size allowed by zoning to determine habitat value. Exceptions include Rio Linda/Elverta and the Rancho Murieta areas, in which this methodology does not apply because there are very large parcels with high-quality habitat which are zoned A-2 or similar. Though there may be individual properties which do not follow the observed regional trend, it was concluded that adherence to this methodology would result in adequate cumulative mitigation for the species.

For the purpose of the methodology, properties with zoning of AG-40 and larger are assumed to maintain 100% of their foraging habitat value and properties with AR-5 zoning and smaller are assumed to have lost all foraging habitat value. Table IS-5 below illustrates the continuum between AG-40 and AR-5 that represents the partial loss of habitat value that occurs with fragmentation of large agricultural land holdings. The large, 50% loss of habitat value between AG-20 and AR-10 is due to the change in land use from general agriculture to agricultural-residential. The methodology does allow case-by-case analysis for projects with unique characteristics.

The parcel is almost entirely covered by tree canopy and is surrounded by neighboring residential uses. The project site conditions are not conducive to foraging ground for Swainson's Hawk. Therefore, impacts to Swainson's hawk foraging habitat would be *less than significant*.

NESTING BIRDS OF PREY

This section addresses raptors which are not listed as endangered, threatened, or of special concern, but are nonetheless afforded general protections by the Fish and Game Code. Raptors and their active nests are protected by the California Fish and Game Code Section 3503.5, which states: It is unlawful to take, possess, or destroy any

birds in the orders Falconiformes or Strigiformes (birds of prey, or raptors) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto. Section 3(19) of the Federal Endangered Species Act defines the term "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. Causing a bird to abandon an active nest may cause harm to egg(s) or chick(s) and is therefore considered "take." Thus, take may occur both as a result of cutting down a tree or as a result of activities nearby an active nest which cause nest abandonment.

Raptors within the Sacramento region include tree-nesting species such as the redtailed hawk and red-shouldered hawk, as well as ground-nesting species such as the northern harrier. The following raptor species are identified as "special animals" due to concerns over nest disturbance: Cooper's hawk, sharp-shinned hawk, golden eagle, northern harrier, and white-tailed kite.

The project site contains numerous mature trees that could serve as suitable habitat for nesting raptors. If present, nesting raptors can be disturbed by construction equipment if appropriate measures are not taken. To avoid impacts to nesting raptors, mitigation involves pre-construction nesting surveys to identify any active nests and to implement avoidance measures if nests are found – if construction will occur during the nesting season of March 1 to September 15. The purpose of the survey requirement is to ensure that construction activities do not agitate or harm nesting raptors, potentially resulting in nest abandonment or other harm to nesting success. If nests are found, the developer is required to contact California Fish and Wildlife to determine what measures need to be implemented in order to ensure that nesting raptors remain undisturbed. The measures selected will depend on many variables, including the distance of activities from the nest, the types of activities, and whether the landform between the nest and activities provides any kind of natural screening. If no active nests are found during the focused survey, no further mitigation will be required. Mitigation will ensure that impacts to nesting raptors will be *less than significant*.

MIGRATORY BIRDS

The Migratory Bird Treaty Act of 1918, which states "unless and except as permitted by regulations, it shall be unlawful at any time, by any means or in any manner, to pursue, hunt, take, capture, kill, attempt to take, capture, or kill" a migratory bird. Section 3(19) of the Federal Endangered Species Act defines the term "take" to mean to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. Causing a bird to abandon an active nest may cause harm to egg(s) or chick(s) and is therefore considered "take."

The project site contains numerous mature trees that could serve as suitable habitat for migratory birds. If present, migratory birds can be disturbed by construction equipment if appropriate measures are not taken. To avoid take of nesting migratory birds, mitigation has been included to require that activities either occur outside of the nesting season, or to require that nests be buffered from construction activities until the nesting season is concluded. Impacts to migratory birds are **less than significant**.

SPECIAL STATUS BATS

There are many bat species which can be found in Sacramento County, the following of which are listed as special animals: pallid bat (*Antrozous pallidus*), western red bat (*Lasiurus blossevillii*), and Yuma myotis bat (*Myotis yumanensis*). The pallid bat and western red bat are state-listed Species of Special Concern, while the Yuma myotis is a special animal. All three bat species roost within either natural or human-made structures, such as caves, mines, crevices (including under bridges), hollow trees, and in abandoned or seldom-used buildings. Young are born to the species in the spring and early summer (maternity colonies typically begin to form in April, and births occur from May through early July, depending on the species). Threats to the species include loss of foraging and roosting habitat, and disruption of maternity colonies.

County policies and ordinances already require one-to-one replacement of most largescale grassland habitat (for the Swainson's hawk) and for wetland habitats, which will also act to conserve bat foraging habitat. Given the wide range of habitats suitable for foraging and the presence of County policies which will continue to ensure the mitigation of the most common types of foraging habitat in the County, the loss of this habitat is of less concern than would be the loss of the more specialized roosting habitat or the disruption of maternity colonies.

The project site contains several mature trees that may be suitable for tree roosting bats. Disturbance of roost sites during the maternity and hibernation seasons are considered primary factors that may negatively impact bats and have the potential to result in take. During the hibernation period, bats are very slow to respond to disturbance during torpor and can lose fat stores needed to survive the winter while pups in the maternity colony may not have the ability to fly. The disturbance and removal of roost sites may have a significant adverse effect on bats. Heavy machinery on site has the potential to disturb roosting bats, if present. Therefore, mitigation has been incorporated into the project requirements that involve pre-construction surveys to determine bat presence, and implementation of avoidance and minimization measures, if necessary. With implementation of mitigation, impacts to special status bats are **less than significant**.

WESTERN POND TURTLE

The western pond turtle (*Emys marmorata*)¹, is listed as a California Species of Special Concern by the California Department of Fish and Wildlife. According to the Fish and Wildlife Life History Account for the species, the western pond turtle is an aquatic turtle that usually leaves the aquatic site to reproduce, to aestivate, or to overwinter. Western pond turtles require some slack- or slow-water aquatic habitat. High-gradient streams

¹ The western pond turtle was identified as being comprised of two subspecies, one of which was the northwestern pond turtle (*Clemmys marmorata marmorata*). It is still listed as such in the Fish and Game Life History Account, as the account was written in 1994; however, the current special animals list clarifies that subsequent research has shown that the subspecies designations were not warranted, and the western pond turtle is now tracked only by species, not subspecies.

with minimal cover or basking habitat are not suitable. In pond environments the species typically only leaves the water to reproduce, whereas in stream environments the turtles more commonly leave the water to aestivate or overwinter, in addition to leaving for reproduction. Turtles leave the water to overwinter in October or November, and typically become active in March or April. Mating typically occurs in late April or early May, but may occur year-round. Most egg-laying occurs in May or June, but may occur as early as April or as late as August. The hatchlings remain in the nest over the winter, and emerge in the spring. Suitable nesting locations have dry soils (usually in a substrate with a high clay or silt fraction) on a slope that is unshaded and may be at least partially south-facing. The nest site can be up to 1,300 feet from the aquatic habitat, but it is more typical for the nest to be within 650 feet of aquatic habitat. The Life History Account conservatively recommends a buffer of 1,650 feet to ensure that neither adults nor nests will be impacted.

The project site and location of where the single-family residence will be built is entirely within the 1,650 buffer from the river where the turtles would use upland habitat for nesting. The California Fish and Wildlife has not published mitigation or other regulatory guidance for the treatment of impacts to this species. As a result, mitigation is focused on preventing construction activities from resulting in direct mortality of a western pond turtle. The developer will be required to perform surveys 24-hours prior to ground-disturbing activity to ensure that there are no western pond turtles within or near the construction area. Mitigation will ensure that no turtles are impacted during project construction. With the included mitigation, impacts to western pond turtle are **less than** *significant*.

Table IS-5: Special Status Plant Species Matrix

Species	Status ¹	Habitat ¹	Potential for Occurrence		
MAMMALS					
Pallid bat <i>Antrozous pallidus</i>	CSC	Roost within either natural or human made structures, such as caves, mines, crevices, (including under bridges), hollow trees, and in abandon or seldom used buildings.	Moderate: The project site contains a number of mature trees that may be suitable for tree roosting bats.		
Western red bat <i>Lasiurus frantzii</i>	csc	Roost within either natural or human made structures, such as caves, mines, crevices, (including under bridges), hollow trees, and in abandon or seldom used buildings.	Moderate: The project site contains a number of mature trees that may be suitable for tree roosting bats.		
BIRDS					
Burrowing Owl Athene cunicularia hypugea	CSC	Frequents open grasslands and shrublands with perches and burrows. Nests and roosts in old burrows of small mammals and rubble piles. Listed for breeding habitat.	Low. The project site is covered in dense tree cover and is next to the Sacramento River		
California Black Rail Laterallus jamaicensis coturniculus	ST	A yearlong resident of saline, brackish, and fresh emergent wetlands, the majority of the species are found in the tidal salt marshes of the northern San Francisco Bay region. The only known occurrence in the County is within the Cosumnes River Preserve.	Low. The project site is not near any of the typical habitat of the California Black Rail		
Great Blue Heron <i>Ardea herodias</i>	SA	Associated with estuaries, rivers, and oceans, the species is known to occur along major rivers in the Central Valley. A colonial nester, the species prefers tall trees beside water. The range is restricted to within 10 miles of the nesting area. Listed for the protection of nesting colonies.	Low. The project site could provide habitat for the Great Blue Heron; however, the presence of human activity diminishes the likelihood of nesting colonies.		

Great Egret <i>Ardea alba</i>	SA	Associated with estuaries, rivers, and oceans, the species is known to occur along major rivers in the Central Valley. A colonial nester, the species prefers cliffs, rugged slopes, or tall trees beside water. Listed for the protection of nesting colonies.	Low. The project site could provide habitat for the Great Egret; however, the presence of human activity diminishes the likelihood of nesting colonies.
Suisun Song Sparrow Melospiza melodia maxillaris	CSC	The species' year-round range is confined to tidal salt and brackish marshes fringing the Carquinez Strait and Suisun Bay east to Antioch, at the confluence of the San Joaquin and Sacramento rivers.	Not Present. The species only has the potential to be present at the very southernmost tip of the County, where no development is proposed.
Swainson's Hawk <i>Buteo swainsoni</i>	ST	Breeds in stands with few trees in juniper- sage flats, riparian areas, and oak savannah. Requires adjacent suitable foraging areas such as grasslands or grain fields supporting rodent populations.	High. There are two documented occurrences of Swainson Hawk nesting sites within 0.5 miles of the project site.
Tricolored Blackbird <i>Agelaius tricolor</i>	ST	The species is listed for breeding habitat. Known to nest near marshes in large (several hundred to several thousand birds) breeding colonies in habitat made up of blackberry thickets, bulrush (<i>Scrirpus</i> sp.) or cattails (<i>Typha</i> sp.) patches.	Low. The project site is not near any marshes.
Western Yellow-Billed Cuckoo	FE (state candidate)	Inhabits extensive deciduous riparian thickets or forests with dense, low-level or understory foliage, and which abut on slow- moving watercourses, backwaters, or seeps.	Low. The project site lacks the preferred habitat.
White-Tailed Kite <i>Elanus leucurus</i>	CFP, SA	Inhabit low-elevation grasslands, wetlands dominated by grasses, oak woodlands, and agricultural and riparian areas. The species is listed for nesting.	High. The area surrounding the project site is in a riparian zone with surrounding agricultural fields.
REPTILES			

Giant Garter Snake Thamnophis gigas	FT, ST	Endemic to valley floors of the Sacramento and San Joaquin Valleys. Prefers freshwater marsh and low gradient streams. Has adapted to rice agriculture, drainage channels, and irrigation ditches. Requires permanent water, emergent vegetation, and upland habitat for basking and cover.	Lew. The project site consists of riparian woodlands which not provide suitable habitat because of excessive shade, lack of basking sites, and absence of prey populations.		
Western Pond Turtle <i>Emys marmorata</i>	CSC	Occurs in perennial ponds, lakes, rivers, and streams with suitable basking habitat (mud banks, mats of floating vegetation, partially submerged logs) and submerged shelter. Require some slack- or slow-water aquatic habitat. Nests upland, on unshaded south- facing slopes with friable soils that have a high percentage of clay or silt.	High. The project site is in upland habitat and within the 1,650 foot buffer that is typical upland habitat nesting.		
FISH					
Central Valley Winter-Run Chinook Salmon <i>Oncorhynchus tshawytscha</i>	SE, FE	Distribution as above for spring-run salmon. Federal listing is for the Sacramento River, specifically. The state-listing application is unspecified.	Low. The project will not take place in the Sacramento River		
Central Valley Steelhead Oncorhynchus mykiss	FT	Most of Sacramento County is within the distinct population segment area for this species. Critical habitat has been designated within Sacramento County on the Sacramento River, American River, Mokelumne River, and Dry Creek (both north and south creeks). Spawning has been documented on the Cosumnes River. (NMFS 2009) The listing applies to the Sacramento and San Joaquin Rivers and their tributaries.	Low. The project will not take place in the Sacramento River		
Green Sturgeon <i>Acipenser medirostris</i>	FT	Distribution occurs within the San Francisco Bay System, which includes the Delta. The species enters the Sacramento River to spawn, and has been observed as far north as Red Bluff. Spawning occurs from March to July.	Low. The project will not take place in the Sacramento River		
Longfin Smelt Spirinchus thaleichthys	ST	Distribution includes the Sacramento River below Rio Vista, and in the middle and lower Delta (below Medford Island).	Not Present. The species occurs in portions of the Sacramento River and the Delta which are not within Sacramento County.		
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Sacramento Splittail Pogonichthys macrolepidotus	cSC The species prefers low-salinity, shallow- water habitat. The species is primarily found in the Delta, and are only rarely found in the main Sacramento River channel unless spawning. Spawning may occur in the Sacramento River below the Feather River confluence, and runs from late January through July.		Low. The project will not take place in the Sacramento River		
INVERTEBRATES					
Crotch bumble bee <i>Bombus crotchii</i>	SE	Inhabits open grasslands and scrub habitat. Nests are often locate underground in abandoned rodent nests, or above ground in tufts of grass, old bud nest, rock piles, or cavities of dead trees.	Low. The project site lacks open grassland or scrub habitat.		
Valley Elderberry Longhorn Beetle Desmocerus californicus dimorphus	FT	Associated with mature elderberry (<i>Sambucus</i> spp.) trees/shrubs found in riparian forests in the Central Valley (USFWS, 1999).	Not Present. There are no Elderberry Shrubs on the project site.		
Vernal Pool Fairy Shrimp Branchinecta lynchi	al Pool Fairy Shrimp chinecta lynchiFTInhabit alkaline pools, ephemeral drainages, rock outcrop pools, ditches, stream oxbows, stock ponds, vernal pools, vernal swales, and other seasonal wetlands. Also found in basalt flow depression pools in unplowed grasslands. ²		Not Present. There are no vernal pools on the project site.		
PLANTS	•				
Sanford's Arrowhead Sagittaria sanfordii	List 1B	Marshes and swamps; elevation 0 – 2,000 ft (blooms May – Oct.)	Not Present. There are no marshes and swamps on the project site.		
Suisun Marsh Aster Aster lentus	List 1B	Marshes and swamps; elevation 0 – 10 ft (blooms May – Nov.) In Sacramento County, found only in the Delta.	Not Present. The project site is not in the Delta and there are not marshes or swamps on the site.		

Relevant species compiled from the California Dept. of Fish and Wildlife Natural Diversity Data Base (2011) and the U.S. Fish and Wildlife Species List for Sacramento County

1. Listing status sources and, unless otherwise specified, habitat description sources (life history accounts) are:

California Species: https://wildlife.ca.gov/Conservation/SSC for the general webpage where you can use the links, or use the "search" field in the upper right-hand corner – for instance, enter "American Badger life history" – to obtain life history accounts. Most Bird Accounts are https://wildlife.ca.gov/Conservation/SSC for the general webpage where you can use the links, or use the "search" field in the upper right-hand corner – for instance, enter "American Badger life history" – to obtain life history accounts. Most Bird Accounts are https://wildlife.ca.gov/Conservation/SSC/Birds, most Mammal Accounts are https://wildlife.ca.gov/Conservation/SSC/Birds, most Fish Accounts are https://wildlife.ca.gov/Conservation/SSC/Mammals, most Fish Accounts are https://wildlife.ca.gov/Conservation/SSC/Mammals, most Fish Accounts are https://wildlife.ca.gov/Conservation/SSC/Mammals, most Fish Accounts are https://wildlife.ca.gov/Conservation/SSC/Mammals, most Fish Accounts are https://wildlife.ca.gov/Conservation/SSC/Amphibians-Reptiles, Last accessed March 4, 2024.

Federal Species: https://www.fws.gov/office/sacramento-fish-and-wildlife/species_Last accessed April 15, 2024.

California Native Plant Society: http://www.rareplants.cnps.org/ Last accessed March 4, 2024. ____

2. United States Fish and Wildlife Service, "Recovery Plan for Vernal Pool Ecosystems of California and Southern Oregon", December 2005.

FE = Federal Endangered; FT = Federal Threatened; FC = Federal Candidate

SE = State of California Endangered; ST = State of California Threatened; CSC = State of California Species of Special Concern; CFP = State of California Fully Protected; SA = Special Animal

List 1B = California Native Plant Society Endangered, Threatened, or Rare in California

List 2 = California Native Plant Society Endangered, Threatened, or Rare in California but more common elsewhere

NATIVE TREES

Sacramento County has identified the value of its native and landmark trees and has adopted measures for their preservation. The Sacramento County General Plan Conservation Element policies CO-138 and CO-139 provide protections for native trees:

CO-138. Protect and preserve non-oak native trees along riparian areas if used by Swainson's Hawk, as well as landmark and native oak trees measuring a minimum of 6 inches in diameter or 10 inches aggregate for multi-trunk trees at 4.5 feet above ground.

CO-139. Native trees other than oaks, which cannot be protected through development, shall be replaced with in-kind species in accordance with established tree planting specifications, the combined diameter of which shall equal the combined diameter of the trees removed.

Native trees other than oaks include Fremont cottonwood (*Populus fremontii*), California sycamore (*Platanus racemosa*), California black walnut (*Juglans californica*), Oregon ash (*Fraxinus latifolia*), western redbud (*Cercis occidentalis*), gray pine (*Pinus sabiniana*), California white alder (*Alnus rhombifolia*), boxelder (*Acer negundo*), California buckeye (*Aesculus californica*), narrowleaf willow (*Salix exigua*), Gooding's willow (*Salix gooddingii*), red willow (*Salix laevigata*), arroyo willow (*Salix lasiolepis*), shining willow (*Salix lucida*), Pacific willow (*Salix lasiandra*), and dusky willow (*Salix melanopsis*).

Further, the Garden Highway SPA requires preservation of all trees over nine inches in diameter, unless if the development of the parcel would be impeded.

NATIVE TREE INVENTORY

The applicant provided an Arborist Report and Tree Inventory (Arborist Report) prepared by California Tree and Landscape Consulting, Inc. (CTLC)(Appendix A). The Arborist Report identified the species, size, and location of onsite and overhanging offsite trees. CTLC inventoried and evaluated trees four inches or greater diameter at breast height (dbh) and all multi-trunk trees with an aggregate dbh of 10 inches or greater. There are 32 trees included in the arborist report. Four trees are offsite and will not be impacted by the proposed project. There are seven trees proposed for removal. One of those is a heritage sized, 49" Valley Oak in the footprint of the front porch and roof. Table IS-7 identifies those protected trees that would be removed or potentially impacted.

DISCUSSION OF PROJECT IMPACTS

SITE PROTECTED NATIVE TREES TO BE REMOVED

There are seven native trees proposed for removal due to either conflict with the proposed house or overall tree health (Table IS-7). The Garden Highway SPA, 501-257 section c, number 12, stipulates that existing trees which exceed 9 inches dbh shall not be removed, except when such trees are located in the building pad area. Additionally,

pursuant to Sacramento County General Plan policies, in-kind mitigation equaling the total diameter of native trees removed is required. The project also proposes removal of three California Sycamores due to conflict with the proposed deck that would be attached to the home. The removal of these native trees would require mitigation at \$325/DBH inch as well. Three other California Sycamores are proposed for removal due to severe health decline or being dead. These would not require mitigation.

Tree number	Tree Species	DBH (inches)	Reason for removal	Mitigation required
2	Valley Oak	49.2	Located in footprint of proposed home	Yes
3	California Sycamore	33.5	Tree Health – Very Poor	No
4	California Sycamore	31.6	Conflict with proposed deck	Yes
5	California Sycamore	23.6	Conflict with proposed deck	Yes
6	California Sycamore	24.3	Conflict with proposed deck	Yes
18	Fremont Cottonwood	30	Dead	No
22	Fremont Cottonwood	26.5	Dead	No

Table IS-6: Trees Slated for Removal

CONCLUSION

County Policy requires replacement of native trees removed by planting in-kind native trees equivalent to the combined diameter of trees lost. A total of 129 inches require compensation. If replacement planting is shown to be infeasible, payment on an inchby-inch basis to the Sacramento Tree Foundation is acceptable. Project impacts associated with the removal of protected native trees are *less than significant*.

ONSITE NATIVE TREE ENCROACHMENT

Development of the project site could result in encroachment upon the driplines of three native trees (**Table IS-7**). Tree encroachment was calculated using ESRI ArcPro software, data from the arborist report, and the project site plans. Partial mitigation is applied to 6-inch or larger native oak trees when encroachment exceeds 20 percent of the dripline protection area, as defined by a circle using the distance from the trunk to the tip of the longest limb as a radius. The concept of partial mitigation stems from the fact that removal of more than 25-30 percent of a tree's root system or live canopy can result in early decline, if not death. The dripline protection area is the minimum

protected area for a tree. A 20 percent encroachment threshold is utilized because of the difference between the extent of root systems and the minimum protected area. An encroachment of 20 percent of the dripline protection area will likely impact 25-30 percent of the root system, if not more.

Tree number	Common Name	DBH (inches)	Encroachment percentage	Mitigation required
8	Valley Oak	29.3	15	No
15	Valley Oak	10.6	15	No
16	Valley Oak	16.3	15	No
17	Valley Oak	12.4	15	No

Table IS-7: Project Site Trees with Encroachment

CONCLUSION

The proposed house and driveway will encroach on protected native oak trees. However, the encroachment values are less than 20 percent and therefore, no mitigation is required.

In addition to permanent encroachment impacts from the proposed project, there could be temporary encroachment of all remaining trees during the construction phase. Construction impacts could include construction equipment traveling over or parking within the trees dripline area. Mitigation has been included to ensure that protective measures are in place during construction. Impacts to native trees due to potential encroachment are **less than significant**.

CULTURAL RESOURCES

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

- Cause a substantial adverse change in the significance of a historical resource
- Have a substantial adverse effect on an archaeological resource
- Disturb any human remains, including those interred outside of formal cemeteries

Under CEQA, lead agencies must consider the effects of projects on historical resources and archaeological resources. A "historical resource" is defined as a resource listed in, or determined to be eligible for listing in, the California Register of Historical Resources (CRHR), a resource included in a local register of historical resources, and any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant (Section 15064.5[a] of the Guidelines). Public Resources Code (PRC) Section 5042.1 requires that any properties that can be expected to be directly or indirectly affected by a proposed project be evaluated for CRHR eligibility. Impacts to historical resources that materially impair those

characteristics that convey its historical significance and justify its inclusion or eligibility for the NRHP or CRHR are considered a significant effect on the environment (CEQA guidelines 15064.5)).

In addition to historically significant resources, an archeological site may meet the definition of a "unique archeological resource" as defined in PRC Section 21083.2(g). If unique archaeological resources cannot be preserved in place or left in an undisturbed state, mitigation measures shall be required (PRC Section 21083.2 (c)).

CEQA Guidelines Section 15064.5 (e) outlines the steps the lead agency shall take in the event of an accidental discovery of human remains in any location other than a dedicated cemetery.

CULTURAL SETTING

A Cultural Resources Assessment was prepared for the project by Environmental Resources Compliance, LLC (ERC). The following information and analysis is based on these reports.

A search of records and historical information on file at the North Central Information Center (NCIC) of the California Historical Resources Information System (CHRIS) was conducted on December 11, 2020 for the project area and a one-half-mile buffer.

Based on the results of the pre-field archival research and literature review, and in consideration of the depositional history of environment in the project area, comprising of the entire 0.58-acre parcel, and construction phases associated with the reclamation district, ERC identified the project area as being moderately sensitivity for precontact and historic cultural resources. The levee appears to have been created with locally borrowed materials, therefore any potential discoveries could be in a disturbed or secondary context.

On December 10, 2022, Environmental Resource Compliance, LLC (ERC) conducted a field survey of the project site. The archaeologists walked parallel transects no greater than five meters of separation. The bullet-point list below summarizes the findings of the built environment and historic archaeological surveys.

PROJECT IMPACTS

As a result of the intensive pedestrian survey, two previously recorded resources were found within the project area:

- The Reclamation District 1000 Natomas Levee (P34-005251) and
- Tribal Cultural Landscape, Sacramento River TCL (P-34-005225) (discussed under Tribal Cultural Resources below)

The Sacramento River Levee was previously determined to be a contributing element of RD 1000. No additional cultural resources were found as a result of the desktop or pedestrian surveys. Regarding the effects of the project, geotextile fabric and clean fill will be used. The project will not result in alterations to any characteristics to

Reclamation District 1000, as existing residential homes surround the Project. The project will utilize an existing road for access that intersects the river levee and Garden Highway.

The Tribal Cultural Landscape, Sacramento River TCL, P-34-005225 has not been previously evaluated or reviewed by the California Office of Historical Preservation (OHP), or any other Agency for integrity and NRHP-eligibility through application of the National Register Criteria for Evaluation guidelines (National Park Service 1997). The evaluation of Tribal Cultural Landscape, Sacramento River TCL (P-34-005225) presented below applies those criteria and guidelines. No section of the Sacramento River TCL has been evaluated or determined to be eligible for inclusion in the NRHP or CRHR. The native vegetation is a component of the Sacramento River TCL, and also contributes to the physical integrity of the levee prism. Therefore, ERC recommends that the Sacramento River TCL be treated as eligible for the NRHP under Criterion D by the USACE and CVFPB treat this site as eligible for the CRHR under Criterion 4

The cultural resources inventory indicated that there is potential for subsurface cultural resources to be uncovered during construction, and recommended the project implement mitigation to ensure the protection of resources in the event there is a discovery during construction. Mitigation in the form of worker awareness training, archaeological monitoring and inadvertent discovery protocols has been included. In the event human remains are encountered during construction, mitigation is included specifying how to comply with CEQA Guidelines Section 15064.5 (e), Sections 5097.97 and 5097.98 of the State Public Resources Code, and Section 7050.5 of the State Health and Safety Code. Therefore, with mitigation, project impacts to cultural resources welld be *less than significant*.

TRIBAL CULTURAL RESOURCES

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

- 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 a cultural value to a California Native American tribe, 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
 - 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 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.

Under PRC Section 21084.3, public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. California Native American tribes traditionally and culturally affiliated with a geographic area may have expertise concerning their tribal cultural resources (21080.3.1(a)). Tribal expertise and knowledge constitute substantial evidence - California Health and Safety Code 8012 (k)(p). Evaluation and treatment of TCRs are considered on a project-by-project basis.

SACRAMENTO RIVER TRIBAL CULTURAL LANDSCAPE

The Sacramento River is a registered Tribal Cultural Landscape (TCL) on file with the Office of Historic Preservation and recognized by California's State Historic Preservation Officer as a landscape that is eligible for listing in the National Register of Historic Places (NRHP) under the Criterion A of the National Historic Preservation Act, Section 106.

The TCL includes the entire span (approximately 50 miles) of the Lower Sacramento River within Sacramento County. The primary characteristics of this landscape are waterways, Tule habitat, fisheries, and native wildlife. It is considered sacred for its association with pre-contact indigenous occupation and long-spanning ethnographic lore.

It remains significant to the indigenous communities of Sacramento County for its contemporary habitats which support native plants and animals still used today for spiritual, medicinal, and modern foraging practices that help preserve traditional lifeways.

NATIONAL EVALUATION STATUS

All properties and districts listed in or eligible for listing in the National Register of Historic Properties (NRHP) are considered in the planning of federal undertaking such as highway construction and Community Development Block Grant projects. "Federal Undertakings" also includes activities sponsored by state or local governments or private entities if they are licensed or partially funded by the federal government.

If a project is subject to CEQA, then the National Register designation of a property (or the determination of its eligibility) would indicate its significance and the need to take into account any effects of the project on the property. A local agency may tie listing in the National Register to restrictions imposed locally, such as design review.

In March 2023, California's State Historic Preservation Officer (SHPO) recognized the Sacramento River TCL as an eligible property of the NRHP under Criterion A: Associate with events that have made a significant contribution to the broad patterns of our history. Despite being subject to significant alterations in the 19th and 20th centuries, the SHPO concurred that the landscape maintains integrity of location, setting, feeling, and association.

STATE EVALUATION STATUS

All properties and districts listed in or eligible for listing in the California Register of Historic Resources (CRHR) are considered in the planning of public and private projects that are subject to CEQA as potential impacts to Cultural and/or Tribal Cultural Resources.

The Sacramento River TCL has not been evaluated at the state level, and its eligibility status remains unconfirmed.

TRIBAL CULTURAL RESOURCE SETTING

Environmental Resources Compliance, LLC submitted a Sacred Lands File Search (SLFS) request to the Native American Heritage Commission (NAHC) on December 8, 2020. On January 11, 2021, the NAHC responded that there was a negative SLFS for the project site. In accordance with Assembly Bill (AB) 52, codified as Section 21080.3.1 of CEQA, formal notification letters were sent to those tribes who had previously requested to be notified of Sacramento County projects on November 30, 2022. United Auburn Indian Community (UAIC) was the only tribe to respond and recommended mitigation to address the evaluation and treatment of inadvertent/unanticipated discoveries of potential tribal cultural resources (TCR's), archeological, or cultural resource during the project's ground disturbing activities.

UAIC conducted background search for the identification of Tribal Cultural Resources for this project, which included a review of pertinent literature, historic maps, and a records search using UAIC's Tribal Historic Information System (THRIS). UAIC's THRIS database is composed of UAIC's areas of oral history, ethnographic history, and places of cultural and religious significance, including UAIC Sacred Lands that are submitted to the Native American Heritage Commission (NAHC). The THRIS resources shown in this region also include previously recorded indigenous resources identified through the California Historic Resources Information System Center (CHRIS), as well as historic resources and survey data.

DISCUSSION OF PROJECT IMPACTS – TRIBAL CULTURAL RESOURCES

Because the Sacramento River TCL is not a listed or evaluated property under the CRHR, Sacramento County defers to Public Resources Code (PRC) § 21074, which states that "a resource determined by a lead agency, in its discretion and supported by substantial evidence to be significant according to the historical register criteria in Public Resources Section § 5024.1(c) and considering the significance of the resource to a California Native American tribe."

As an altered landscape with a spectrum of significance throughout, Sacramento County relies on tribal consultation to determine when impacts to the Sacramento River TCL are potentially significant. Through consultation under CEQA, tribes confirmed that the project area contains tribal cultural resources of significance. The tribes and lead agency mutually agreed that tribal cultural resources mitigation measures were appropriate and feasible for the project. These mitigation measures are listed below in the Environmental Mitigation Measures section and include best practices for the evaluation and treatment of inadvertent/unanticipated discoveries of potential tribal cultural resources (TCRs), and a post construction monitor/site visit. With this mitigation in place, project impacts to tribal cultural resources will be *less than significant*.

GREENHOUSE GAS EMISSIONS

This section supplements the Initial Study Checklist by analyzing if the proposed project would:

• Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.

REGULATORY BACKGROUND

California has adopted statewide legislation addressing various aspects of climate change and GHG emissions mitigation. Much of this establishes a broad framework for the State's long-term GHG reduction and climate change adaptation program. Of particular importance is AB 32, which establishes a statewide goal to reduce GHG emissions back to 1990 levels by 2020, and Senate Bill (SB) 375 supports AB 32 through coordinated transportation and land use planning with the goal of more sustainable communities. SB 32 extends the State's GHG policies and establishes a near-term GHG reduction goal of 40% below 1990 emissions levels by 2030. Executive Order (EO) S-03-05 identifies a longer-term goal for 2050.

COUNTY OF SACRAMENTO CLIMATE ACTION PLANNING

The Sacramento County Board of Supervisors adopted the Climate Action Plan – Strategy and Framework Document (Phase 1 CAP) on November 9, 2011. The Phase 1 CAP provides a framework and overall policy strategy for reducing GHG emissions and managing the County's resources in order to comply with AB 32 (Sacramento County, 2011b). The Phase 1 CAP includes a GHG inventory for the unincorporated areas of Sacramento County for 2005, a GHG emission reduction target, and goals and implementation measures developed to help the County reach these goals. Reduction strategies address GHG emissions associated with transportation and land use, energy, water, waste management and recycling, and agriculture and open space. The County's primary goals related to the proposed project include the following:

- Improve energy efficiency of existing and new buildings in the unincorporated county; and
- Decrease use of fossil fuels by transitioning to renewable energy sources.

On September 11, 2012, the Phase 2A CAP (Government Operations) was adopted by the County. Neither the Phase 1 CAP nor the Phase 2A CAP are "qualified" GHG

 $^{^2}$ EO S-03-05 has set forth a reduction target to reduce GHG emissions by 80 percent below 1990 levels by 2050. This target has not been legislatively adopted.

reduction plans pursuant to CEQA Guidelines section 15183.5(b), through which subsequent projects may receive CEQA streamlining benefits.

In 2016, the County began preparing the communitywide CAP (Phase 2B CAP), but in late 2018, it was placed on hold pending in-depth review of CAP-related litigation in other jurisdictions. In addition to reducing GHG emissions in Sacramento County, the CAP is intended to serve as a climate change resiliency plan to ensure that the County is prepared for the physical effects of climate change. The County released an updated GHG inventory for 2021 in 2023 (see Table CC-1 above) and a Climate Change Vulnerability Assessment in 2017, which identified extreme heat and increased flooding as the most likely adverse impacts to Sacramento County.

The Phase 2B CAP was re-initiated in early 2020. In March of 2021, the draft Phase 2B CAP was released by the County for public review. On September 7, 2021, a Final Draft CAP and Addendum to the 2030 General Plan EIR was released for public review. The County revised the CAP a second time and released the Revised Final Draft CAP and Revised Addendum to the 2030 General Plan EIR on February 17, 2022. These documents were presented at a Board of Supervisors workshop on March 23, 2022. The County received more than 85 comment letters on the Revised Final Draft CAP leading up to the Board workshop on March 23, 2022. Based on input from the Board of Supervisors during the September 27, 2022, hearing on the CAP, County staff are reviewing the numerous comments received and preparing another revision to the CAP. Sacramento County will be preparing a Subsequent Environmental Impact Report to analyze the potential impacts of the revised CAP and it is anticipated that a draft of the report will be distributed for public review in 2024.

Based on the inventory and GHG reductions identified in the Phase 2B CAP, the County has set a goal of achieving a 4.0 metric tons of carbon dioxide equivalent per capita (MTCO₂e/capita) for 2030, resulting in an emissions limit of 3,674,904 MTCO₂e (Sacramento County, 2022). As allowed under CEQA Guidelines Section 15183(b), lead agencies may choose to analyze and mitigate significant GHG emissions in a plan for the reduction of GHG emissions or similar document. The CAP remains in draft form and has not been formally adopted by the County. As such, the CAP is not yet qualified for use in CEQA reviews.

Thresholds of Significance

Addressing GHG generation impacts requires an agency to make a determination as to what constitutes a significant impact. Governor's Office of Planning and Research's (OPR's) Guidance does not include a quantitative threshold of significance to use for assessing a proposed development's GHG emissions under CEQA. Moreover, CARB has not established such a threshold or recommended a method for setting a threshold for proposed development-level analysis.

In April 2020, SMAQMD adopted an update to their land development project operational GHG threshold, which requires a project to demonstrate consistency with CARB's 2017 Climate Change Scoping Plan. The Sacramento County Board of Supervisors adopted the updated GHG threshold in December 2020. SMAQMD's technical support document, "Greenhouse Gas Thresholds for Sacramento County", identifies operational measures that should be applied to a project to demonstrate consistency.

All projects must implement Tier 1 Best Management Practices to demonstrate consistency with the Climate Change Scoping Plan. After implementation of Tier 1 Best Management Practices, project emissions are compared to the operational land use screening levels table (equivalent to 1,100 metric tons of CO₂e per year). If a project's operational emissions are less than or equal to 1,100 metric tons of CO₂e per year). If a project's implementation of Tier 1 Best Management Practices, the project will result in a less than cumulatively considerable contribution and has no further action. Tier 1 Best Management Practices include:

- BMP 1 no natural gas: projects shall be designed and constructed without natural gas infrastructure.
- BMP 2 electric vehicle (EV) Ready: projects shall meet the current CalGreen Tier 2 standards.
 - EV Capable requires the installation of "raceway" (the enclosed conduit that forms the physical pathway for electrical wiring to protect it from damage) and adequate panel capacity to accommodate future installation of a dedicated branch circuit and charging station(s)
 - EV Ready requires all EV Capable improvements plus installation of dedicated branch circuit(s) (electrical pre-wiring), circuit breakers, and other electrical components, including a receptacle (240-volt outlet) or blank cover needed to support future installation of one or more charging stations

Projects that implement BMP 1 and BMP 2 can utilize the screening criteria for operation emissions outlined in **Table IS-8**. Projects that do not exceed 1,100 metric tons per year are then screened out of further requirements. For projects that exceed 1,100 metric tons per year, then compliance with BMP 3 is also required:

 BMP 3 – Reduce applicable project VMT by 15% residential and 15% worker relative to Sacramento County targets, and no net increase in retail VMT. In areas with above-average existing VMT, commit to provide electrical capacity for 100% electric vehicles.

SMAQMD's GHG construction and operational emissions thresholds for Sacramento County are shown in Table IS-8.

Land Development and Construction Projects									
	Construction Phase	Operational Phase							
Greenhouse Gas as CO ₂ e	1,100 metric tons per year								
Stationary Source Only									
	Construction Phase	Operational Phase							
Greenhouse Gas as CO ₂ e	1,100 metric tons per year	10,000 metric tons per year							

Table IS-8: SMAQMD Thresholds of Significance for Greenhouse Gases

PROJECT IMPACTS

CONSTRUCTION-GENERATED GREENHOUSE GAS EMISSIONS

GHG emissions associated with the project would occur over the short term from construction activities, consisting primarily of emissions from equipment exhaust. As a single-family residence, the project is within the screening criteria for construction related impacts related to air quality. The project site is less than 35 acres, and does not involve buildings more than 4 stories tall; demolition activities; significant trenching activities; an unusually compact construction schedule; cut-and-fill operations; or, import or export of soil materials requiring a considerable amount of haul truck activity. Basic Construction Emissions Control Practices have also been included as a mitigation measure with which the project must comply. The project meets the Sacramento Metropolitan Air Quality Management District's screening criteria for Ozone precursors. Therefore, construction-related GHG impacts are considered *less than significant*.

OPERATIONAL PHASE GREENHOUSE GAS EMISSIONS

The project will implement BPM 1 and BMP 2 in its entirety. As such, the project can be compared to the operational screening table published by SMAQMD. The operational screening criteria is that for residential projects less than 56 units the operational emissions associated with the project are less than 1,100 MT of CO2e per year. Mitigation has been included such that the project will implement BMP 1 and BMP 2. The impacts from GHG emissions are *less than significant with mitigation.*

ENVIRONMENTAL MITIGATION MEASURES

Mitigation Measures A-L are critical to ensure that identified significant impacts of the project are reduced to a level of less than significant. Pursuant to Section 15074.1(b) of the CEQA Guidelines, each of these measures must be adopted exactly as written unless both of the following occur: (1) A public hearing is held on the proposed changes; (2) The hearing body adopts a written finding that the new measure is

equivalent or more effective in mitigating or avoiding potential significant effects and that it in itself will not cause any potentially significant effect on the environment.

As the applicant, or applicant's representative, for this project, I acknowledge that project development creates the potential for significant environmental impact and agree to implement the mitigation measures listed below, which are intended to reduce potential impacts to a less than significant level.

Applicant _____ Date: _____

MITIGATION MEASURE A: BASIC CONSTRUCTION EMISSIONS CONTROL PRACTICES

The following Basic Construction Emissions Control Practices are considered feasible for controlling fugitive dust from a construction site. The practices also serve as best management practices (BMPs), allowing the use of the non-zero particulate matter significance thresholds.

Control of fugitive dust is required by District Rule 403 and enforced by District staff.

- Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads.
- Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways should be covered.
- Use wet power vacuum street sweepers to remove any visible track out mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited.
- Limit vehicle speeds on unpaved roads to 15 miles per hour (mph).
- All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.

The following practices describe exhaust emission control from diesel powered fleets working at a construction site. California regulations limit idling from both on-road and off-road diesel-powered equipment. The California Air Resources Board (CARB) enforces idling limitations and compliance with diesel fleet regulations.

• Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [California Code of Regulations, Title 13, sections 2449(d)(3) and 2485]. Provide clear signage that posts this requirement for workers at the entrances to the site.

- Provide current certificate(s) of compliance for CARB's In-Use Off-Road Diesel-Fueled Fleets Regulation [California Code of Regulations, Title 13, sections 2449 and 2449.1]. For more information contact CARB at 877-593-6677, <u>doors@arb.ca.gov</u>, or <u>www.arb.ca.gov/doors/compliance_cert1.html</u>.
- Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic.

MITIGATION MEASURE B: GEOLOGIC STABILITY

The project shall implement measures to prevent the potential for liquefaction and lateral spreading including the use of deep foundations, ground improvements, or other mechanisms as recommended by a qualified Geotechnical Engineer. Prior to approval of building permits, the applicant shall submit a Geotechnical report for verification, prepared by a qualified Geotechnical Engineer, outlining the measures to be incorporated for foundation stability.

MITIGATION MEASURE C: SWAINSON'S HAWK

If construction, grading, or project-related improvements are to commence between February 1 and September 15, focused surveys for Swainson's hawk nests shall be conducted by a qualified biologist within a ½-mile radius of project activities, in accordance with the Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley (Swainson's Hawk TAC 2000). To meet the minimum level of protection for the species, surveys should be completed for the two survey periods immediately prior to commencement of construction activities in accordance with the 2000 TAC recommendations. If active nests are found, CDFW shall be contacted to determine appropriate protective measures, and these measures shall be implemented prior to the start of any ground-disturbing activities. If no active nests are found during the focused survey, no further mitigation will be required.

MITIGATION MEASURE D: RAPTOR NEST PROTECTION

If construction activity (which includes clearing, grubbing, or grading) is to commence within 500 feet of suitable nesting habitat between February 1 and September 15, a survey for raptor nests shall be conducted by a qualified biologist. The survey shall cover all potential tree habitat on-site and off-site up to a distance of 500 feet from the project boundary. The survey shall occur within 7 days of the date that construction will encroach within 500 feet of suitable habitat. The biologist shall supply a brief written report (including date, time of survey, survey method, name of surveyor and survey results) to the Environmental Coordinator prior to ground disturbing activity. If no active nests are found during the survey, no further mitigation will be required. If any active nests are found, the Environmental Coordinator and California Fish and Wildlife shall be contacted to determine appropriate avoidance/protective measures. The avoidance/protective measures shall be implemented prior to the commencement of construction within 500 feet of an identified nest.

MITIGATION MEASURE E: MIGRATORY BIRD NEST PROTECTION

To avoid impacts to nesting migratory birds the following shall apply:

- 1. If construction activity (which includes clearing, grubbing, or grading) is to commence within 50 feet of nesting habitat between February 1 and August 31, a survey for active migratory bird nests shall be conducted no more than 7 days prior to construction by a qualified biologist.
- Trees slated for removal shall be removed during the period of September through January, in order to avoid the nesting season. Any trees that are to be removed during the nesting season, which is February through August, shall be surveyed by a qualified biologist and will only be removed if no nesting migratory birds are found.
- 3. If active nest(s) are found in the survey area, a non-disturbance buffer, the size of which has been determined by a qualified biologist, shall be established and maintained around the nest to prevent nest failure. All construction activities shall be avoided within this buffer area until a qualified biologist determines that nestlings have fledged, or until September 1.

MITIGATION MEASURE F: SPECIAL STATUS BATS

To avoid impacts to day roosting bats the following shall apply:

- Habitat Assessment: A qualified biologist with education and experience in bat biology and identification, shall conduct a habitat assessment for potentially suitable bat habitat within six months of project activities. If the habitat assessment reveals suitable bat habitat, then a qualified bat biologist shall do a presence/absence survey during the peak activity periods. If bats are present, then the qualified biologist shall submit a bat avoidance plan to CDFW for review and approval.
- 2. Bat Avoidance Plan: The bat avoidance plan should identify: 1) the location of the roosting sites; 2) the number of bats present at the time of assessment (count or estimate); 3) species of bats present; 4) the type of roost (e.g. day/night, maternity, hibernaculum, bachelor); and 5) species specific measures to avoid and minimize impacts to bats. The bat avoidance plan shall evaluate the length of time of disturbance, equipment noise, and type of habitat present at the project.
- 3. No Disturbance Buffer. If during the habitat assessment the qualified bat biologist identifies a bat roost within the project boundary that is not proposed for demolition or removal, then a no disturbance buffer shall be established around the roost in consultation with CDFW. The width of the buffer should be determined by the qualified bat biologist based on the bat species, specific site conditions, and level of disturbance. The buffer should be maintained until the qualified bat biologist determines that the roost is no longer occupied.

- 4. Replacement Structures. If the bat roost cannot be avoided, replacement roost structures (bat houses or other structures) shall be designed to accommodate the bat species they are intended for. Replacement roost structures shall be in place for a minimum of one full year prior to implementing the project. The replacement structures should be monitored to document bat use. Ideally, the project would not be implemented unless and until replacement roost structures on site are documented to be acceptable and used by the bat species of interest.
- Roost Removal Timing. The project that results in the loss or modification of the original roost structure should be implemented outside hibernation and maternity seasons, Nov 1 – Feb 1 and April 1 – August 31 respectively.
- 6. Bat Exclusion. If an active bat roost is found in a tree or structure that must be removed, the qualified bat biologist should prepare a Bat Exclusion Plan for the passive exclusion of the bats from the roost. Exclusion shall be scheduled either (1) between March 1 and March 31, prior to parturition of pups; or (2) between September 1 and October 31 prior to hibernation (or prior to evening temperatures dropping below 45°F and onset of rainfall greater than ½ inch in 24 hours). The qualified bat biologist shall confirm the absence of bats prior to the start of construction. The Bat Exclusion Plan shall be submitted to CDFW for review and approval a minimum of 10 days prior to the installation of exclusion devices. CDFW does not support eviction of bats during the maternity or hibernation periods.
- 7. Tree Removal. Tree removal shall be scheduled either (1) between approximately March 1 and March 31, prior to parturition of pups; or (2) between September 1 and October 31 prior to hibernation (or prior to evening temperatures dropping below 45°F and onset of rainfall greater than ½ inch in 24 hours). Removal of trees containing suitable bat habitat should be conducted under the supervision of a qualified bat biologist.

MITIGATION MEASURE G: WESTERN POND TURTLE

To avoid impacts to western pond turtles the following shall apply:

- Twenty-four hours prior to the commencement of ground-disturbing activity (i.e. clearing, grubbing, or grading) suitable habitat within the project area shall be surveyed for western pond turtle by a qualified biologist. The survey shall include aquatic habitat and 1,650 feet of adjacent uplands surrounding aquatic habitat within the project area. The biologist shall supply a brief written report (including date, time of survey, survey method, name of surveyor and survey results) to the Environmental Coordinator prior to ground disturbing activity.
- 2. Construction personnel shall receive worker environmental awareness training. This training instructs workers how to recognize western pond turtles and their habitat.
- 3. If a western pond turtle is encountered during active construction, all construction shall cease until the animal has moved out of the construction area on its own or

relocated by a qualified biologist. If the animal is injured or trapped, a qualified biologist shall move the animal out of the construction area and into a suitable habitat area. California Fish and Wildlife and the Environmental Coordinator shall be notified within 24-hours that a turtle was encountered.

4. The applicant shall prepare a western pond turtle relocation plan. This relocation plan shall include: a summary of the species and habitat features; identification of habitat suitability in relation to the project site; acceptable methods to capture, handle, and relocate individuals out of the construction area; minimum qualifications for biologists to conduct physical relocation of turtle individuals, if necessary; identification of where salvaged individuals will be relocated; and identification of wildlife rehabilitation center or veterinary facility where any injured individuals found within the project site will be taken.

MITIGATION MEASURE H: NATIVE TREE REMOVAL

The removal of one valley oak (Tree #2) and three California sycamores (Tree #'s 4,5,6) to implement the project would result in a loss of dbh inches. This shall be compensated for by planting in-kind native trees equivalent to the dbh inches lost, based on the ratios listed below, at locations that are authorized by the Environmental Coordinator. On-site preservation of native trees that are less than 6 inches (<6 inches) dbh, may also be used to meet this compensation requirement. Native trees include: valley oak (*Quercus lobata*), interior live oak (*Quercus wislizenii*), blue oak (*Quercus douglasii*), or oracle oak (*Quercus morehus*), California sycamore (*Platanus racemosa*), California black walnut (*Juglans californica*), Oregon ash (*Fraxinus latifolia*), western redbud (*Cercis occidentalis*), gray pine (*Pinus sabiniana*), California white alder (*Alnus rhombifolia*), boxelder (*Acer negundo*), California buckeye (*Aesculus californica*), narrowleaf willow (*Salix exigua*), Gooding's willow (*Salix gooddingii*), red willow (*Salix lasiolepis*), shining willow (*Salix lucida*), Pacific willow (*Salix lasiandra*), and dusky willow (*Salix melanopsis*).

Replacement tree planting shall be completed prior to approval of grading or improvement plans, whichever comes first. A total of <u>129</u> inches will require compensation.

Equivalent compensation based on the following ratio is required:

- one preserved native tree < 6 inches dbh on-site = 1 inch dbh
- one D-pot seedling (40 cubic inches or larger) = 1 inch dbh
- one 15-gallon tree = 1 inch dbh
- one 24-inch box tree = 2 inches dbh
- one 36-inch box tree = 3 inches dbh

Prior to the approval of Improvement Plans or Building Permits, whichever occurs first, a Replacement Tree Planting Plan shall be prepared by a certified arborist or licensed landscape architect and shall be submitted to the Environmental Coordinator for approval. The Replacement Tree Planting Plan(s) shall include the following minimum elements:

- 1. Species, size and locations of all replacement plantings and < 6-inch dbh trees to be preserved
- 2. Method of irrigation
- 3. If planting in soils with a hardpan/duripan or claypan layer, include the Sacramento County Standard Tree Planting Detail L-1, including the 10-foot deep boring hole to provide for adequate drainage
- 4. Planting, irrigation, and maintenance schedules;
- 5. Identification of the maintenance entity and a written agreement with that entity to provide care and irrigation of the trees for a 3-year establishment period, and to replace any of the replacement trees which do not survive during that period.
- 6. Designation of 20-foot root zone radius and landscaping to occur within the radius of trees < 6 inches dbh to be preserved on-site.

No replacement tree shall be planted within 15 feet of the driplines of existing native trees or landmark size trees that are retained on-site, or within 15 feet of a building foundation or swimming pool excavation. The minimum spacing for replacement native trees shall be 20 feet on-center. Examples of acceptable planting locations are publicly owned lands, common areas, and landscaped frontages (with adequate spacing). Generally unacceptable locations are utility easements (PUE, sewer, storm drains), under overhead utility lines, private yards of single family lots (including front yards), and roadway medians.

Native trees <6 inches dbh to be retained on-site shall have at least a 20-foot radius suitable root zone. The suitable root zone shall not have impermeable surfaces, turf/lawn, dense plantings, soil compaction, drainage conditions that create ponding (in the case of oak trees), utility easements, or other overstory tree(s) within 20 feet of the tree to be preserved. Trees to be retained shall be determined to be healthy and structurally sound for future growth, by an ISA Certified Arborist subject to Environmental Coordinator approval.

If tree replacement plantings are demonstrated to the satisfaction of the Environmental Coordinator to be infeasible for any or all trees removed, then compensation shall be through payment into the County Tree Preservation Fund. Payment shall be made at a rate of \$325.00 per dbh inch removed but not otherwise compensated, or at the prevailing rate at the time payment into the fund is made.

MITIGATION MEASURE I: NATIVE TREE PROTECTION

All portions of adjacent off-site oak trees that have driplines that extend onto the project site, and all off-site oak trees which may be impacted by utility installation and/or improvements associated with this project, shall be preserved and protected as follows:

- a. A circle with a radius measurement from the trunk of the tree to the tip of its longest limb shall constitute the dripline protection area of each tree. Limbs must not be cut back in order to change the dripline. The area beneath the dripline is a critical portion of the root zone and defines the minimum protected area of each tree. Removing limbs that make up the dripline does not change the protected area.
- b. Any protected trees on the site that require pruning shall be pruned by a certified arborist prior to the start of construction work. All pruning shall be in accordance with the American National Standards Institute (ANSI) A300 pruning standards and the International Society of Arboriculture (ISA) "Tree Pruning Guidelines."
- c. Temporary protective fencing shall be installed at least one foot outside the driplines of the oak trees prior to the start of construction work, in order to avoid damage to the trees and their root systems. Protective fencing shall be installed at one foot from the limit of work for retaining wall construction. Protective fencing must be must be maintained through the duration of construction.
- d. No signs, ropes, cables (except those which may be installed by a certified arborist to provide limb support) or any other items shall be attached to the protected trees. Small metallic numbering tags for the purpose of preparing tree reports and inventories shall be allowed.
- e. No vehicles, construction equipment, mobile home/office, supplies, materials or facilities shall be parked, stockpiled or staged within the driplines of protected trees. If construction equipment needs to traverse within a tree dripline it shall only be temporary and if absolutely necessary. A six (6) inch thick layer of mulch shall be placed in the travel path to disperse the weight of the vehicles.
- f. grading (grade cuts or fills) shall be allowed within the driplines of oak trees. Grade cuts for the proposed driveway wall shall be performed under direct supervision of a certified arborist.
- g. Drainage patterns on the site shall not be modified so that water collects or stands within, or is diverted across, the dripline of any protected tree.
- h. No trenching shall be allowed within the driplines of protected trees. If it is absolutely necessary to install underground utilities within the dripline of a protected tree, the utility line shall be bored and jacked under the supervision of a certified arborist.

- i. The construction of impervious surfaces within the driplines of protected trees shall be stringently minimized. When it is absolutely necessary, a piped aeration system per County standard detail shall be installed under the supervision of a certified arborist.
- j. No sprinkler or irrigation system shall be installed in such a manner that sprays water or requires trenching within the driplines of protected trees. An above ground drip irrigation system is recommended.

Landscaping beneath oak trees may include non-plant materials such as bark mulch, wood chips, boulders, etc. The only plant species which shall be planted within the driplines of oak trees are those which are tolerant of the natural semi-arid environs of the trees. A list of such drought-tolerant plant species is available from the Planning Environmental Review. Limited drip irrigation approximately twice per summer is recommended for the understory plants.

MITIGATION MEASURE J: ARCHAEOLOGICAL MONITORING

A full-time archaeological monitor shall be present for all earthmoving activities. The project proponent shall enlist the services of one monitor per active construction area. If an excavation area is too large for one monitor to effectively observe the soil removal, one or more additional monitors will be retained to observe the area.

MITIGATION MEASURE K: CULTURAL AWARENESS TRAINING

Prior to the beginning of ground disturbance and during all periods of ground disturbance thereafter, the archaeological monitor, or equivalent qualified person approved by PER, will provide cultural resources training to all new employees within their first week of employment on the proper procedures to follow in the event that cultural resources are uncovered during project excavations. Employees working in ground-disturbing activities will not begin job-related tasks until they have received this training. Employee education will focus on the following issues:

- 1. The rationale for cultural resources monitoring.
- 2. Regulatory policies and laws protecting resources and penalties for violations.
- 3. Basic identification of cultural resources.
- 4. The procedures to follow in case of a discovery of such resources.

MITIGATION MEASURE L: CULTURAL RESOURCES UNANTICIPATED DISCOVERY

In the event that human remains are discovered in any location other than a dedicated cemetery, work shall be halted and the County Coroner contacted. For all other unexpected cultural resources discovered during project construction, work shall be halted until a qualified archaeologist may evaluate the resource encountered.

1. Pursuant to Sections 5097.97 and 5097.98 of the State Public Resources Code, and Section 7050.5 of the State Health and Safety Code, if a human bone or bone of unknown origin is found during construction, all work is to stop and the

County Coroner and the Office of Planning and Environmental Review shall be immediately notified. If the remains are determined to be Native American, the coroner shall notify the Native American Heritage Commission within 24 hours, and the Native American Heritage Commission shall identify the person or persons it believes to be the most likely descendent from the deceased Native American. The most likely descendent may make recommendations to the landowner or the person responsible for the excavation work, for means of treating or disposition of, with appropriate dignity, the human remains and any associated grave goods.

- 2. In the event of an inadvertent discovery of cultural resources (excluding human remains) during construction, all work must halt within a 100-foot radius of the discovery. A qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeology, shall be retained at the Applicant's expense to evaluate the significance of the find. If it is determined due to the types of deposits discovered that a Native American monitor is required, the Guidelines for Monitors/Consultants of Native American Cultural, Religious, and Burial Sites as established by the Native American Heritage Commission shall be followed, and the monitor shall be retained at the Applicant's expense.
 - a. Work cannot continue within the 100-foot radius of the discovery site until the archaeologist and/or tribal monitor conducts sufficient research and data collection to make a determination that the resource is either 1) not cultural in origin; or 2) not potentially eligible for listing on the National Register of Historic Places or California Register of Historical Resources.
 - b. If a potentially-eligible resource is encountered, then the archaeologist and/or tribal monitor, Planning and Environmental Review staff, and project proponent shall arrange for either 1) total avoidance of the resource, if possible; or 2) test excavations or total data recovery as mitigation. The determination shall be formally documented in writing and submitted to the County Environmental Coordinator as verification that the provisions of CEQA for managing unanticipated discoveries have been met.

Heasure M: Tribal cultural Resources – unanticipated Discoveries

The following mitigation measure is intended to address the evaluation and treatment of inadvertent/unanticipated discoveries of potential tribal cultural resources (TCRs), archaeological, or cultural resources during a project's ground disturbing activities.

 If any suspected TCRs are discovered during ground disturbing construction activities, all work shall cease within 100 feet of the find, or an agreed upon distance based on the project area and nature of the find. A Tribal Representative from a California Native American tribe that is traditionally and culturally affiliated with a geographic area shall be immediately notified and shall determine if the find is a TCR (PRC §21074). The Tribal Representative will make recommendations for further evaluation and treatment as necessary.

- 2. When avoidance is infeasible, preservation in place is the preferred option for mitigation of TCRs under CEQA and UAIC protocols, and every effort shall be made to preserve the resources in place, including through project redesign, if feasible. Culturally appropriate treatment may be, but is not limited to, processing materials for reburial, minimizing handling of cultural objects, leaving objects in place within the landscape, or returning objects to a location within the project area where they will not be subject to future impacts. Permanent curation of TCRs will not take place unless approved in writing by UAIC or by the California Native American Tribe that is traditionally and culturally affiliated with the project area.
- 3. The contractor shall implement any measures deemed by the CEQA lead agency to be necessary and feasible to preserve in place, avoid, or minimize impacts to the resource, including, but not limited to, facilitating the appropriate tribal treatment of the find, as necessary. Treatment that preserves or restores the cultural character and integrity of a TCR may include Tribal Monitoring, culturally appropriate recovery of cultural objects, and reburial of cultural objects or cultural soil.
- 4. Work at the discovery location cannot resume until all necessary investigation and evaluation of the discovery under the requirements of the CEQA, including AB52, have been satisfied.

MITIGATION MEASURE N: TRIBAL CULTURAL RESOURCES – POST GROUND DISTURBANCES

Due to the cultural sensitivity of the project area, the following mitigation measure is intended to address the potential for buried Tribal Cultural Resources (TCRs) that may be unearthed during ground disturbing activities.

- 1. A minimum of seven days prior to beginning earthwork, clearing and grubbing, or other soil disturbing activities, the applicant shall notify lead agency of the proposed earthwork start-date. The lead agency shall contact the United Auburn Indian Community (UAIC) with the proposed earthwork start-date and a UAIC Tribal Representative or Tribal Monitor shall be invited to inspect the project site, including any soil piles, trenches, or other disturbed areas, within the first five days of groundbreaking activity, or as appropriate for the type and size of project. During this inspection, a UAIC Tribal Representative or Tribal Monitor may provide an on-site meeting for construction personnel information on TCRs and workers awareness brochure.
- 2. If any TCRs are encountered during this initial inspection, or during any subsequent construction activities, work shall be suspended within 100 feet of

the find and the measures included in the Inadvertent/Unanticipated Discoveries Mitigation Measure (Measure L) shall be implemented. Preservation in place is the preferred alternative under CEQA and UAIC protocols, and every effort must be made to preserve the resources in place, including through project redesign.

3. The contractor shall implement any measures deemed by CEQA lead agency to be necessary and feasible to preserve in place, avoid, or minimize significant effects to the resources, including the use of a paid Native American Monitor during ground disturbing activities

MITIGATION MEASURE O: GREENHOUSE GASES BMPS

The project is required to incorporate the following Tier 1 Best Management Practices (BMPs)

- BMP 1: he natural gas: Projects shall be designed and constructed without natural gas infrastructure.
- BMP 2: Electric vehicle ready: Projects shall meet the current CalGreen Tier 2 standards, except all EV Capable spaces shall instead by EV Ready.
 - EV Capable requires the installation of "raceway" (the enclosed conduit that forms the physical pathway for electrical wiring to protect it from damage) and adequate panel capacity to accommodate future installation of a dedicated branch circuit and charging station(s)
- EV Ready requires all EV Capable improvements plus installation of dedicated branch circuit(s) (electrical pre-wiring), circuit breakers, and other electrical components, including a receptacle (240-volt outlet) or blank cover needed to support future installation of one or more charging stations

If the project proponent chooses to propose an alternative to the above BMPs, they will need to submit documentation, to the satisfaction of the Environmental Coordinator, demonstrating that the alternatives are equivalent to Tier 1 BMPs. Documentation shall be submitted to the Environmental Coordinator prior to final approval of building permits.

MITIGATION MEASURE COMPLIANCE

Comply with the Mitigation Monitoring and Reporting Program (MMRP) for this project as follows:

1. The proponent shall comply with the MMRP for this project, including the payment of a fee to cover the Office of Planning and Environmental Review staff costs incurred during implementation of the MMRP. The MMRP fee for this project is \$11,700.00. This fee includes administrative costs of \$1,103.00.

Until the MMRP has been recorded and the administrative portion of the MMRP fee has been paid, no final parcel map or final subdivision map for the subject property shall be approved. Until the balance of the MMRP fee has been paid, no encroachment, grading, building, sewer connection, water connection or occupancy permit from Sacramento County shall be approved.

INITIAL STUDY CHECKLIST

Appendix G of the California Environmental Quality Act (CEQA) provides guidance for assessing the significance of potential environmental impacts. Based on this guidance, Sacramento County has developed the following Initial Study Checklist. The Checklist identifies a range of potential significant effects by topical area. The words "significant" and "significance" used throughout the following checklist are related to impacts as defined by the California Environmental Quality Act as follows:

1 Potentially Significant indicates there is substantial evidence that an effect MAY be significant. If there are one or more "Potentially Significant" entries an Environmental Impact Report (EIR) is required. Further research of a potentially significant impact may reveal that the impact is actually less than significant or less than significant with mitigation.

2 Less than Significant with Mitigation applies where an impact could be significant but specific mitigation has been identified that reduces the impact to a less than significant level.

3 Less than Significant or No Impact indicates that either a project will have an impact but the impact is considered minor or that a project does not impact the particular resource.

		Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments
1. LAND USE - Would	the project:	-	-	-	-	
a. Cause a significant er to a conflict with any a policy, or regulation a avoiding or mitigating	nvironmental impact due applicable land use plan, dopted for the purpose of an environmental effect?			Х		The project is consistent with environmental policies of the Sacramento County General Plan, Garden Highway Special Planning Area and Sacramento County Zoning Code.
b. Physically disrupt or c community?	livide an established			x		The project will not create physical barriers that substantially limit movement within or through the community.
2. POPULATION/HOU	SING - Would the project:					
a. Induce substantial un growth in an area eith proposing new homes indirectly (e.g., throug infrastructure)?	planned population ler directly (e.g., by s and businesses) or h extension of			x		The project will neither directly nor indirectly induce substantial unplanned population growth; the proposal is consistent with existing land use designations.
 Displace substantial a or housing, necessita replacement housing 	amounts of existing people ting the construction of elsewhere?				х	The project will not result in the removal of existing housing, and thus will not displace substantial amounts of existing housing.
3. AGRICULTURAL R	ESOURCES - Would the pro	oject:				
a. Convert Prime Farmla Farmland of Statewid containing prime soils agricultural production	and, Unique Farmland, e Importance or areas to uses not conducive to n?				X	The project site is not designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance on the current Sacramento County Important Farmland Map published by the California Department of Conservation. The site does not contain prime soils.
b. Conflict with any exist contract?	ting Williamson Act				Х	No Williamson Act contracts apply to the project site

		Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments
C.	Introduce incompatible uses in the vicinity of existing agricultural uses?			X		The project is located within the Garden Highway SPA and is surrounded by residential land uses. The project site has been designated for residential uses. Areas of agricultural production occur in the project vicinity. The addition of one additional residential parcel will not conflict with surrounding existing agricultural uses.
4.	AESTHETICS - Would the project:					
a.	Substantially alter existing viewsheds such as scenic highways, corridors or vistas?			х		The project does not occur in the vicinity of any scenic highways, but the site is along Garden Highway, which has been identified as a scenic corridor. Refer to the Aesthetics discussion in the Environmental Effects section above
b.	In non-urbanized area, substantially degrade the existing visual character or quality of public views of the site and its surroundings?			x		It is acknowledged that aesthetic impacts are subjective and may be perceived differently by various affected individuals. Nonetheless, given the similar parcels sizes surrounding the proposed project, it is concluded that the project would not substantially degrade the visual character or quality of the project site or vicinity.
C.	If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			х		The project is not located in an urbanized area.
d.	Create a new source of substantial light, glare, or shadow that would result in safety hazards or adversely affect day or nighttime views in the area?			Х		The project will not result in a new source of substantial light, glare or shadow that would result in safety hazards or adversely affect day or nighttime views in the area.
5.	AIRPORTS - Would the project:					
a.	Result in a safety hazard for people residing or working in the vicinity of an airport/airstrip?				x	The project occurs outside of any identified public or private airport/airstrip safety zones.

		Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments
b.	Expose people residing or working in the project area to aircraft noise levels in excess of applicable standards?				х	The project occurs outside of any identified public or private airport/airstrip noise zones or contours.
C.	Result in a substantial adverse effect upon the safe and efficient use of navigable airspace by aircraft?				х	The project does not affect navigable airspace.
d.	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?			X		The project does not involve or affect air traffic movement.
6.	PUBLIC SERVICES - Would the project:					
a.	Have an adequate water supply for full buildout of the project?			X		Private wells would be required to provide potable water to future development. As proposed, the project could result in the addition of one new water well to serve the project. The introduction of one well would add incrementally to a documented decline in the groundwater table in the County but it would not in itself constitute a significant environmental impact.
b.	Have adequate wastewater treatment and disposal facilities for full buildout of the project?			X		Septic systems would be required. Sacramento County Code Chapters 6.28 and 6.32 provide rules and regulations for water wells and septic systems that are designed to protect water quality. The Environmental Health Division of the County Environmental Management Department has permit approval authority for any new water wells and septic systems on the site.
C.	Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?			X		The Kiefer Landfill has capacity to accommodate solid waste until the year 2050.

		Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments
d.	Result in substantial adverse physical impacts associated with the construction of new water supply or wastewater treatment and disposal facilities or expansion of existing facilities?			Х		The project will not require construction or expansion of new water supply, wastewater treatment, or wastewater disposal facilities.
e.	Result in substantial adverse physical impacts associated with the provision of storm water drainage facilities?			х		Project construction would not require the addition of new stormwater drainage facilities.
f.	Result in substantial adverse physical impacts associated with the provision of electric or natural gas service?			х		Minor extension of utility lines would be necessary to serve the proposed project. Existing utility lines are located along existing roadways and other developed areas, and the extension of lines would take place within areas already proposed for development as part of the project. No significant new impacts would result from utility extension.
g.	Result in substantial adverse physical impacts associated with the provision of emergency services?			Х		The project would incrementally increase demand for emergency services but would not cause substantial adverse physical impacts as a result of providing adequate service.
h.	Result in substantial adverse physical impacts associated with the provision of public school services?			x		The project would result in minor increases to student population; however, the increase would not require the construction/expansion of new unplanned school facilities. Established case law, <i>Goleta Union School District v. The Regents of the University of California</i> (36 Cal-App. 4 th 1121, 1995), indicates that school overcrowding, standing alone, is not a change in the physical conditions, and cannot be treated as an impact on the environment.
i. 	Result in substantial adverse physical impacts associated with the provision of park and recreation services?			х		The project will result in increased demand for park and recreation services, but meeting this demand will not result in any substantial physical impacts.
7.	TRANSPORTATION - Would the project:					

	Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments
 a. Conflict with or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b) – measuring transportation impacts individually or cumulatively, using a vehicles miles traveled standard established by the County? 			Х		The project is the development of a single-family residence the number of trips generated by the project would meet the criteria for a small project and is below the thresholds established by Sacramento County Department of Transportation; therefore, project impacts individually or cumulatively are less than significant.
b. Result in a substantial adverse impact to access and/or circulation?			Х		The project will be required to comply with applicable access and circulation requirements of the County Improvement Standards and the Uniform Fire Code. Upon compliance, impacts are less than significant.
c. Result in a substantial adverse impact to public safety on area roadways?			Х		The project will be required to comply with applicable access and circulation requirements of the County Improvement Standards and the Uniform Fire Code. Upon compliance, impacts are less than significant.
d. Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?			x		The project does not conflict with alternative transportation policies of the Sacramento County General Plan, with the Sacramento Regional Transit Master Plan, or other adopted policies, plans or programs supporting alternative transportation.

		Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments
8.	AIR QUALITY - Would the project:		<u>.</u>		<u>.</u>	
a.	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard?		X			The project is within the screening criteria for construction related impacts related to air quality. The project site is less than 35 acres and does not involve buildings more than 4 stories tall; demolition activities; significant trenching activities; an unusually compact construction schedule; cut-and-fill operations; or, import or export of soil materials requiring a considerable amount of haul truck activity. Basic Construction Emissions Control Practices have also been included as a mitigation measure with which the project must comply. The project meets the Sacramento Metropolitan Air Quality Management District's screening criteria for PM ₁₀ and PM _{2.5} and Ozone precursors.
b.	Expose sensitive receptors to pollutant concentrations in excess of standards?			Х		There are no sensitive receptors (i.e., schools, nursing homes, hospitals, daycare centers, etc.) adjacent to the project site.
C.	Create objectionable odors affecting a substantial number of people?			Х		The project will not generate objectionable odors.
9.	NOISE - Would the project:					
a.	Result in generation of a temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established by the local general plan, noise ordinance or applicable standards of other agencies?			x		The project is not in the vicinity of any uses that generate substantial noise, nor will the completed project generate substantial noise. The project will not result in exposure of persons to, or generation of, noise levels in excess of applicable standards.
b.	Result in a substantial temporary increase in ambient noise levels in the project vicinity?			x		Project construction will result in a temporary increase in ambient noise levels in the project vicinity. This impact is less than significant due to the temporary nature of these activities, limits on the duration of noise, and evening and nighttime restrictions imposed by the County Noise Ordinance (Chapter 6.68 of the County Code).

		Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments
C.	Generate excessive groundborne vibration or groundborne noise levels.			Х		The project will involve the use of pile driving or other methods that may produce excessive groundborne vibration or noise levels at the property boundary. Please refer to the Noise Discussion of the Environmental Effects section above.
10	. HYDROLOGY AND WATER QUALITY - Would	the project:				
a.	Substantially deplete groundwater supplies or substantially interfere with groundwater recharge?			Х		The project will incrementally add to groundwater consumption; however, the singular and cumulative impacts of the proposed project upon the groundwater decline in the project area are minor.
b.	Substantially alter the existing drainage pattern of the project area and/or increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?			X		The project does not involve any modifications that would substantially alter the existing drainage pattern and or/increase the rate or amount of surface runoff in a manner that would lead to flooding. Compliance with applicable requirements of the Sacramento County Floodplain Management Ordinance, Sacramento County Water Agency Code, and Sacramento County Improvement Standards will ensure that impacts are less than significant.
C.	Develop within a 100-year floodplain as mapped on a federal Flood Insurance Rate Map or within a local flood hazard area?			X		The project is within a 100-year floodplain as mapped on a federal Flood Insurance Rate Map (Flood Zone AE). The Sacramento County Floodplain Management Ordinance, Sacramento County Water Agency Code, and Sacramento County Improvement Standards require that structures be located outside or above the floodplain, and will ensure that impacts are less than significant. Refer to the Hydrology discussion in the Environmental Effects section above.

	Potentia Significa	Ily Less Than nt Significant with Mitigation	Less Than Significant	No Impact	Comments
d. Place structures that would impede or re flood flows within a 100-year floodplain?	direct		X		Although the project is within a 100-year floodplain, compliance with the Sacramento County Floodplain Management Ordinance, Sacramento County Water Agency Code, and Sacramento County Improvement Standards will ensure that impacts are less than significant.
e. Develop in an area that is subject to 200 urban levels of flood protection (ULOP)?	year		X		The project would construct a single-family home on a site zoned for a single-family residence. The project site is located in an area subject to 200-year urban levels of flood protection (ULOP). Refer to the Hydrology discussion in the Environmental Effects section above.
f. Expose people or structures to a substal risk of loss, injury or death involving floo including flooding as a result of the failur levee or dam?	ntial ding, e of a		x		The project site is located between the Sacramento River and the levee. The site is located within the 100-year and 200-year flood plain. Compliance with the Sacramento County Floodplain Management Ordinance, Sacramento County Water Agency Code, and Sacramento County Improvement Standards would ensure that the project is constructed above 100-year flood plain line. Failure of the adjacent levee would not increase the risk of flooding on the project site. Therefore, the project would have a less than significant impact. Refer to the Hydrology discussion in the Environmental Effects section above.
g. Create or contribute runoff that would ex the capacity of existing or planned storm drainage systems?	ceed water		x		The project involves the construction of a single-family home, which would alter the drainage of the site. Adequate on- and/or off-site drainage improvements would be required pursuant to the Sacramento County Floodplain Management Ordinance and Improvement Standards. Compliance with the Sacramento County Floodplain Management Ordinance and Improvement Standards would ensure that the project would have a less than significant impact.

		Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments			
h.	Create substantial sources of polluted runoff or otherwise substantially degrade ground or surface water quality?			X		Compliance with the Stormwater Ordinance and Land Grading and Erosion Control Ordinance (Chapters 15.12 and 14.44 of the County Code respectively) will ensure that the project will not create substantial sources of polluted runoff or otherwise substantially degrade ground or surface water quality.			
						Sacramento County Code Chapters 6.28 and 6.32 provide rules and regulations for water wells and septic systems that are designed to protect water quality. The Environmental Health Division of the County Environmental Management Department has permit approval authority for any new water wells and septic systems on the site. Compliance with existing regulations will ensure that impacts are less than significant.			
11. GEOLOGY AND SOILS - Would the project:									
a.	Directly or indirectly cause potential substantial adverse effects, including risk of loss, injury or death involving 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?			X		Sacramento County is not within an Alquist-Priolo Earthquake Fault Zone. Although there are no known active earthquake faults in the project area, the site could be subject to some ground shaking from regional faults. The Uniform Building Code contains applicable construction regulations for earthquake safety that will ensure less than significant impacts.			
b.	Result in substantial soil erosion, siltation or loss of topsoil?			X		Compliance with the County's Land Grading and Erosion Control Ordinance will reduce the amount of construction site erosion and minimize water quality degradation by providing stabilization and protection of disturbed areas, and by controlling the runoff of sediment and other pollutants during the course of construction.			

	Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments				
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, soil expansion, liquefaction or collapse?		X			Pursuant to Title 16 of the Sacramento County Code and the Uniform Building Code, a soils report will be required prior to building construction. If the soils report indicates than soils may be unstable for building construction then site-specific measures (e.g., special engineering design or soil replacement) must be incorporated to ensure that soil conditions will be satisfactory for the proposed construction. Refer to the Geology and Soils discussion in the Environmental Effects section above. Mitigation has been included to ensure that impacts are less than significant.				
d. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available?			x		All septic systems must comply with the requirements of the County Environmental Management Department, Environmental Health Division, as set forth in Chapter 6.32 of the County Code. Compliance with County standards will ensure impacts are less than significant.				
e. Result in a substantial loss of an important mineral resource?			x		The project is not located within an Aggregate Resource Area as identified by the Sacramento County General Plan Land Use Diagram, nor are any important mineral resources known to be located on the project site.				
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?			х		No known paleontological resources (e.g. fossil remains) or sites occur at the project location.				
12. BIOLOGICAL RESOURCES - Would the project:									
a. Have a substantial adverse effect on any special status species, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self- sustaining levels, or threaten to eliminate a plant or animal community?		х			The project site contains suitable habitat for Swainson's Hawk, other nesting raptors, and migratory birds. Mitigation is included to reduce impacts to less than significant levels. Refer to the Biological Resources discussion in the Environmental Effects section above.				
	Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments				
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b. Have a substantial adverse effect on riparian habitat or other sensitive natural communities?			Х		Though the project site is in a riparian zone along the Sacramento River, the top of the levee has been zoned for residential development and construction of single-family homesteads has fragmented continuous riparian habitat such that the quality of riparian habitat has been reduced significantly. Therefore, there would be no adverse effect on riparian habitat from the construction of this one single- family residence.				
c. Have a substantial adverse effect on streams, wetlands, or other surface waters that are protected by federal, state, or local regulations and policies?			x		The Sacramento River is located adjacent to the project site. However, the project will not impact the Sacramento River. Refer to the Biological Resources discussion in the Environmental Effects section above.				
 Have a substantial adverse effect on the movement of any native resident or migratory fish or wildlife species? 		Х			Resident and/or migratory wildlife may be displaced by project construction; mitigation has been included to reduce impacts to less than significant.				
e. Adversely affect or result in the removal of native or landmark trees?		X			Native and/or landmark trees occur on the project site and a total of seven native trees will be removed due to conflict with the proposed home building footprint and four more valley oaks will be affected by encroachment of the proposed driveway. Mitigation is included to ensure impacts are less than significant. Refer to the Biological Resources discussion in the Environmental Effects section above.				
f. Conflict with any local policies or ordinances protecting biological resources?			Х		The project is consistent with local policies/ordinances protecting biological resources.				
g. Conflict with the provisions of an adopted Habitat Conservation Plan or other approved local, regional, state or federal plan for the conservation of habitat?			X		There are no known conflicts with any approved plan for the conservation of habitat.				

	Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments	
13. CULTURAL RESOURCES - Would the project:						
a. Cause a substantial adverse change in the significance of a historical resource?			х		No historical resources would be affected by the proposed project.	
b. Have a substantial adverse effect on an archaeological resource?		x			No known archaeological resources occur on-site. A Cultural Resources Survey was prepared and indicated there is potential for subsurface resources. Refer to the Cultural Resources discussion in the Environmental Effects section above.	
c. Disturb any human remains, including those interred outside of formal cemeteries?		Х			No known human remains exist on the project site. Nonetheless, mitigation has been recommended to ensure appropriate treatment should remains be uncovered during project implementation.	
14. TRIBAL CULTURAL RESOURCES - Would the project:						
a. Would the project cause a substantial adverse change in the significance of a tribal cultural resource as defined in Public Resources Code 21074?			X		The Sacramento River TCL was previously identified in the Cultural Resources Inventory Report prepared by ECORP Consulting, Inc., evaluated as eligible under NRHP and CRHR, and therefore is a Historical Resource under CEQA and a Historic Property under Section 106 of the NHPA. Tribal consultation would determine whether this resource retains integrity within the current project Area. Notification pursuant to Public Resources Code 21080.3.1(b) was provided to the tribes and request for consultation was received from United Auburn Indian Community (UAIC). Mitigation measures were submitted by UAIC and have been incorporated into the Tribal Cultural Resources section of this document.	
15. HAZARDS AND HAZARDOUS MATERIALS - Would the project:						
a. Create a substantial hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			Х		The project does not involve the transport, use, and/or disposal of hazardous material.	

		Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments
b.	Expose the public or the environment to a substantial hazard through reasonably foreseeable upset conditions involving the release of hazardous materials?			X		The project does not involve the transport, use, and/or disposal of hazardous material.
C.	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances or waste within one-quarter mile of an existing or proposed school?			х		The project does not involve the use or handling of hazardous material.
d.	Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5, resulting in a substantial hazard to the public or the environment?				x	The project is not located on a known hazardous materials site.
e.	Impair implementation of or physically interfere with an adopted emergency response or emergency evacuation plan?			x		The project would not interfere with any known emergency response or evacuation plan.
f.	Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to or intermixed with urbanized areas?			X		The project is within an urbanizing area of the unincorporated County and is located within the Local Responsibility Area according to the Cal Severity Zones Map (2023). Compliance with local Fire District standards and requirements ensures impacts are less than significant.
16	. ENERGY – Would the project:				•	
a.	Result in potentially significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction?			x		While the project will introduce one new home and increase energy consumption, compliance with Title 24, Green Building Code, will ensure that all project energy efficiency requirements are net resulting in less than significant impacts.
b.	Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			х		The project will comply with Title 24, Green Building Code, for all project efficiency requirements.

		Potentially Significant	Less Than Significant with Mitigation	Less Than Significant	No Impact	Comments	
17	17. GREENHOUSE GAS EMISSIONS – Would the project:						
a.	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			X		The project will fully implement the SMAQMD Tier 1 BMPs. The project will result that fewer than 36 dwelling units, which is the associated screening level of dwelling units, indicating that the project would have a less than significant impact on GHG emissions. Refer to the Greenhouse Gas Emissions discussion in the Environmental Effects section above.	
b.	Conflict with an applicable plan, policy or regulation for the purpose of reducing the emission of greenhouse gases?			x		The project is consistent with County policies adopted for the purpose or reducing the emission of greenhouse gases.	

SUPPLEMENTAL INFORMATION

LAND USE CONSISTENCY	Current Land Use Designation	Consistent	Not Consistent	Comments
General Plan	Recreation	Х		Residential
Community Plan	N/A			
Land Use Zone	SPA	Х		

Appendix A – Arborist Report and Tree Inventory

The appendices and all project files are available at the following link:

https://planningdocuments.saccounty.net/projectdetails.aspx?projectID=8371&communi tyID=11

INITIAL STUDY PREPARERS

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