

RESOLUTION NO. 2023-174

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ELK GROVE ADOPTING THE MITIGATED NEGATIVE DECLARATION AND MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAGUNA CREEK AND WHITEHOUSE CREEK MULTI-FUNCTIONAL CORRIDOR PROJECT (WDR018); AND APPROVING THE PROJECT

WHEREAS, the Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project (WDR018) (Project) will result in the construction of a maintenance access road for access across Laguna and Whitehouse Creeks within the City of Elk Grove, California; and

WHEREAS, work will be performed within the existing drainage easement along Laguna Creek and may require acquisition of trail rights; and

WHEREAS, the Project is a project under California Environmental Quality Act (Section 21000 et seq. of the Public Resources Code, hereinafter referred to as CEQA) which requires that cities consider the environmental consequences of their actions before approving a project; and

WHEREAS, the City prepared an Initial Study/Mitigated Negative Declaration pursuant to the California Environmental Quality Act (CEQA), attached hereto as Exhibit A, evaluating the potential environmental effects of the Project; and

WHEREAS, the Project is in compliance with all applicable state, federal and local codes and regulations; and

WHEREAS, the City determined that the mitigation measures identified in the Initial Study/Mitigated Negative Declaration would reduce environmental impacts to a less than significant level; and

WHEREAS, based on staff's review of the Project, no special circumstances exist that would create a reasonable possibility that this Project will have a significant effect on the environment beyond what was analyzed in the Initial Study/Mitigated Negative Declaration prepared for the Project and disclosed; and

WHEREAS, a Mitigation Monitoring and Reporting Program has been prepared for the preferred alternative in accordance with CEQA, attached hereto as Exhibit B, which is designed to ensure compliance with the identified mitigation measures during project implementation and operation; and

WHEREAS, the City distributed the Notice of Intent to Adopt the Mitigated Negative Declaration on November 4, 2022 pursuant to Section 15072 of Chapter 3 of Title 14 of the California Code of Regulations (State CEQA Guidelines); and

WHEREAS, the City received five written comment letters within the 36-day public review period and they are included in Appendix E of the Initial Study/Mitigated Negative Declaration, attached hereto as Exhibit A; and

WHEREAS, the City has considered the written and oral comments received during the public review period, and they do not alter the conclusions in the Initial Study/Mitigated Negative Declaration; and

WHEREAS, the City of Elk Grove, Public Works Department, located at 8401 Laguna Palms Way, Elk Grove, California 95758 is the custodian of documents and other materials that constitute the record of proceedings upon which the decision to adopt the Mitigated Negative Declaration is based; and

WHEREAS, the City Council has reviewed the Initial Study, the Mitigated Negative Declaration, and the Mitigation Monitoring and Reporting Program and find that these documents reflect their independent judgment.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Elk Grove hereby adopts the Mitigated Negative Declaration and the Mitigation Monitoring and Reporting Program, attached hereto as Exhibits A and B, respectively, and incorporated herein by reference for the Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project (WDR018) based on the following findings:

Findings:

- 1) On the basis of the whole record, there is no substantial evidence that the Project as designed and mitigated will have a significant effect on the environment. A Mitigated Negative Declaration has been prepared and completed in accordance with the CEQA. The Mitigated Negative Declaration reflects the independent judgment and analysis of the City.
- 2) Pursuant to Public Resources Code, Section 21081 and CEQA Guidelines, Section 15091, all the proposed mitigation measures described in the Mitigated Negative Declaration are feasible, and therefore shall become binding upon the City.
- 3) To the extent that these findings conclude that various proposed mitigation measures outlined in the Mitigated Negative Declaration are feasible and have not been modified, superseded or withdrawn, the City Council hereby binds itself and their assigns and successors in interest to implement those measures. These findings are not merely informational but constitute a binding set of obligations that will come into effect when the City constructs the Project.

Evidence: Pursuant to CEQA and the CEQA guidelines, staff prepared an Initial Study (State Clearing House No. 2022110059) for the Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project and mitigation measures have been developed that will reduce potential environmental impacts to less than significant levels. The Initial Study identified potentially significant adverse effects in the areas of air quality, biological resources, cultural resources, geology/soils, hazards and hazardous materials, hydrology/water quality, noise, and tribal cultural resources. Mitigation measures that avoid or mitigate the potentially significant effects to a point where no significant effects would occur were identified in the Initial Study and staff prepared a Mitigated Negative

Declaration. Preparation of a Mitigation Monitoring and Reporting Program is required in accordance with the City of Elk Grove regulations and is designed to ensure compliance during project implementation. The City distributed the Notice of Intent to Adopt the Mitigated Negative Declaration on November 4, 2022. The Notice of Intent contained project information, the public circulation period, locations to view the Initial Study with Mitigated Negative Declaration, and City staff contact to submit public comments. The Notice of Intent was mailed to residents within a quarter-mile radius of the Project and posted at the Sacramento County Clerk's office, City Hall campus, the City's Public Works website, Elk Grove Citizen, and the State Clearinghouse's CEQA website, pursuant to Section 15072 of Chapter 3 of Title 14 of the California Code of Regulations (State CEQA Guidelines). A 36-day review and comment period was opened on November 4, 2022, and closed on December 9, 2022. The Initial Study/Mitigated Negative Declaration was made available to the public during this review period with electronic copies available on the City's Public Works website, State Clearinghouse CEQA website, and a hard copy available at the City's offices. The City received five written comment letters within the public review period. These comments do not alter the conclusions of the Initial Study/Mitigated Negative Declaration.

On the basis of the Mitigated Negative Declaration, environmental analysis, and the whole record, there is no substantial evidence that the project will have a significant adverse impact on the environment above those addressed within the adopted Mitigated Negative Declaration. A Mitigation Monitoring and Reporting Program, which is incorporated herein by this reference, has been prepared to ensure compliance during project implementation. The City of Elk Grove, Public Works Department, located at 8401 Laguna Palms Way, Elk Grove, California 95758 is the custodian of documents and other materials that constitute the record of proceedings upon which the decision to adopt the Mitigated Negative Declaration is based.

BE IT FURTHER RESOLVED that the City Council hereby approves the Project.

PASSED AND ADOPTED by the City Council of the City of Elk Grove this 26th day of July 2023



BOBBIE SINGH-ALLEN, MAYOR of the
CITY OF ELK GROVE

ATTEST:



JASON LINDGREN, CITY CLERK

APPROVED AS TO FORM:



JONATHAN P. HOBBS,
CITY ATTORNEY

Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project (WDR018)

FINAL DRAFT INITIAL STUDY /
MITIGATED NEGATIVE DECLARATION



State Clearing House (SCH) No. 2022110059

July 2023

LAGUNA CREEK AND WHITEHOUSE CREEK MULTI-FUNCTIONAL CORRIDOR PROJECT (WDR018)

Prepared for:



City of Elk Grove
Public Works Department
8401 Laguna Palms Way
Elk Grove, California 95758

Prepared by:



Dokken Engineering
110 Blue Ravine Road, Suite 200
Folsom, California 95630

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LIST OF ABBREVIATIONS

<i>AB</i>	<i>Assembly Bill</i>
<i>APE</i>	<i>Area of Potential Effects</i>
<i>BMPs</i>	<i>Best Management Practices</i>
<i>BSA</i>	<i>Biological Study Area</i>
<i>CAA</i>	<i>Clean Air Act</i>
<i>CAAQS</i>	<i>California Ambient Air Quality Standards</i>
<i>CalEPA</i>	<i>California Environmental Protection Agency</i>
<i>CARB</i>	<i>California Air Resources Board</i>
<i>CCAA</i>	<i>California Clean Air Act</i>
<i>CCSD</i>	<i>Consumnes Community Service District</i>
<i>CCSDFD</i>	<i>Consumnes Community Service District Fire Department</i>
<i>CDFW</i>	<i>California Department of Fish and Wildlife</i>
<i>CESA</i>	<i>California Endangered Species Act</i>
<i>CEQA</i>	<i>California Environmental Quality Act</i>
<i>CFR</i>	<i>Code of Federal Regulation</i>
<i>City</i>	<i>City of Elk Grove</i>
<i>CNDDB</i>	<i>California Natural Diversity Database</i>
<i>CNPS</i>	<i>California Native Plant Society</i>
<i>CO</i>	<i>Carbon Monoxide</i>
<i>CO₂</i>	<i>Carbon Dioxide</i>
<i>CWA</i>	<i>Clean Water Act</i>
<i>dBA</i>	<i>Decibel A-weighted</i>
<i>EO</i>	<i>Executive Order</i>
<i>EPA</i>	<i>Environmental Protection Agency</i>
<i>ESA</i>	<i>Environmentally Sensitive Area</i>
<i>FESA</i>	<i>Federal Endangered Species Act</i>
<i>FIRM</i>	<i>Flood Insurance Rate Map</i>
<i>GGs</i>	<i>Giant Garter Snake</i>
<i>GHG</i>	<i>greenhouse gases</i>
<i>IS</i>	<i>Initial Study</i>
<i>Leq</i>	<i>Equivalent Continuous Sound Level</i>
<i>MBTA</i>	<i>Migratory Bird Treaty Act</i>
<i>MND</i>	<i>Mitigated Negative Declaration</i>
<i>NAAQS</i>	<i>National Ambient Air Quality Standards</i>
<i>NAHC</i>	<i>Native American Heritage Commission</i>

<i>NCIC</i>	<i>North Central Information Center</i>
<i>NEPA</i>	<i>National Environmental Protection Act</i>
<i>NMFS</i>	<i>National Marine Fisheries Service</i>
<i>NO₂</i>	<i>Nitrogen Dioxide</i>
<i>NO_x</i>	<i>Nitrogen Oxides</i>
<i>NOA</i>	<i>Naturally Occurring Asbestos</i>
<i>NOAA</i>	<i>National Oceanic and Atmospheric Administration</i>
<i>NPDES</i>	<i>National Pollutant Discharge Elimination System</i>
<i>NRCS</i>	<i>Natural Resource Conservation Service</i>
<i>O₃</i>	<i>Ozone</i>
<i>OHP</i>	<i>Office of Historic Preservation</i>
<i>PM</i>	<i>Particulate Matter</i>
<i>ppm</i>	<i>Parts per Million</i>
<i>PRC</i>	<i>Public Resources Code</i>
<i>Project</i>	<i>Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project</i>
<i>ROG</i>	<i>Reactive organic compounds</i>
<i>RWQCB</i>	<i>Regional Water Quality Control Board</i>
<i>SHPO</i>	<i>State Historic Preservation Office</i>
<i>SHTAC</i>	<i>Swainson's Hawk Technical Advisory Committee</i>
<i>SMAQMD</i>	<i>Sacramento Metropolitan Air Quality Management District</i>
<i>SO₂</i>	<i>Sulfur Dioxide</i>
<i>SPCCP</i>	<i>Spill Prevention, Control, and Countermeasure Program</i>
<i>SSC</i>	<i>Species of Special Concern (SSC).</i>
<i>SWPPP</i>	<i>Storm Water Pollution Prevention Plan</i>
<i>SWRCB</i>	<i>State Water Resources Control Board</i>
<i>TAC</i>	<i>Toxic Air Contaminant</i>
<i>TCM</i>	<i>transportation control measure</i>
<i>USACE</i>	<i>United States Army Corps of Engineers</i>
<i>USFWS</i>	<i>United States Fish and Wildlife Service</i>
<i>VMT</i>	<i>Vehicle miles traveled</i>
<i>VOC</i>	<i>Volatile organic compounds</i>
<i>WPT</i>	<i>Western pond turtle</i>

1.0 INTRODUCTION

This **Final Initial Study** includes limited revisions that derived from public comments that were received during the Draft Initial Study's public circulation period, which began on November 4, 2022 and ended December 9, 2022. Revisions to the Draft Initial Study can be identified by ~~strikeout~~ text where language has been deleted, and by underline text where language has been added. This revised document constitutes the **Final Initial Study** for the Project.

1.1 Purpose and Background of the Initial Study

This document is an Initial Study (IS) with supporting environmental studies, which provides justification for a Mitigated Negative Declaration (MND) pursuant to the California Environmental Quality Act (CEQA) for the Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project (Project).

The purpose of this IS/MND is to evaluate the potential environmental impacts of the ~~proposed~~ Project. Mitigation measures have also been established that reduce or eliminate any identified significant and/or potentially significant impacts.

The IS/MND is a public document to be used by the City of Elk Grove (City), acting as the CEQA lead agency, to determine whether the ~~proposed~~ Project may have a significant effect on the environment pursuant to CEQA. If the lead agency finds substantial evidence that any aspect of the ~~proposed~~ Project, either individually or cumulatively, may have a significant effect on the environment that cannot be mitigated, regardless of whether the overall effect of the ~~proposed~~ Project is adverse or beneficial, the lead agency is required to prepare an Environmental Impact Report (EIR), use a previously prepared EIR and supplement that EIR, or prepare a subsequent EIR to analyze the Project at hand (Public Resources Code Sections 21080(d), 21082.2(d)).

If the agency finds no substantial evidence that the ~~proposed~~ Project or any of its aspects may cause a significant impact on the environment with mitigation, a MND shall be prepared with a written statement describing the reasons why the ~~proposed~~ Project, which is not exempt from CEQA, would not have a significant effect on the environment, and therefore, why it does not require the preparation of an EIR (State CEQA Guidelines Section 15371).

According to State CEQA Guidelines Section 15070, a Negative Declaration shall be prepared for a project subject to CEQA when either:

- 1) *The initial study shows there is no substantial evidence, in light of the whole record before the agency, that the project may have a significant effect on the environment, or*
- 2) *The initial study identifies potentially significant effects, but:*
 - a) *Revisions in the project plans or proposals made by, or agreed to by the applicant before the proposed MND and initial study are released for public review would avoid*

1.0 INTRODUCTION

the effects or mitigate the effects to a point where clearly no significant effects would occur, and

- b) *There is no substantial evidence, in light of the whole record before the agency, that the proposed project as revised may have a significant effect on the environment.*

This IS/MND has been prepared in accordance with CEQA, Public Resources Code Section 21000 et seq., and the State CEQA Guidelines Title 14 California Code of Regulations (CCR) Section 15000 et seq.

The Draft IS was circulated for agency and public review during a public circulation period that began on November 4, 2022 and ended December 9, 2022. During that time, five comment letters/emails were received. Those letters, and the City's responses to them, are attached to this IS as **Appendix E**. The comments did not identify any new potentially significant environmental effects from implementation of the Project. Accordingly, additional environmental analysis is not required.

1.2 Lead Agency

The lead agency is the public agency with primary responsibility over a ~~proposed~~ project. Where two or more public agencies will be involved with a project, CEQA Guidelines Section 15051 provides criteria for identifying the lead agency. In accordance with CEQA Guidelines Section 15051(b)(1), "The lead agency will normally be the agency with general governmental powers." The City has initiated preliminary design of the ~~proposed~~ Project and it requires approval from the Elk Grove City Council. Therefore, based on the criteria described above, the lead agency for the ~~proposed~~ Project is the City.

1.3 Technical Studies

Technical studies prepared for the ~~proposed~~ Project and referenced in this IS/MND are listed below. The technical studies are available at the Elk Grove Planning Department at 8401 Laguna Palms Way, Elk Grove, CA 95758, Monday through Friday, 8:00 AM to 5:00 PM.

- Biological Resources Report, Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project, Dokken Engineering
- Cultural Resources Report, Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project, Dokken Engineering (Not for Public Disclosure due to Sensitive Information)
- Aquatic Resources Delineation Report, Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project, Dokken Engineering

2.0 PROJECT DESCRIPTION

2.1 Project Location

The ~~proposed~~ Project is located in the City of Elk Grove, Sacramento County, California (**Figure 1. Project Vicinity**). Specifically, the Project site extends from the existing Laguna Creek Trail, located south of the intersection of Beckington Drive and White Peacock Way, to a connection at East Stockton Boulevard approximately 750 feet south of the intersection of East Stockton Boulevard and Cantwell Drive (**Figure 2. Project Location**).

2.2 Project Purpose and Objectives

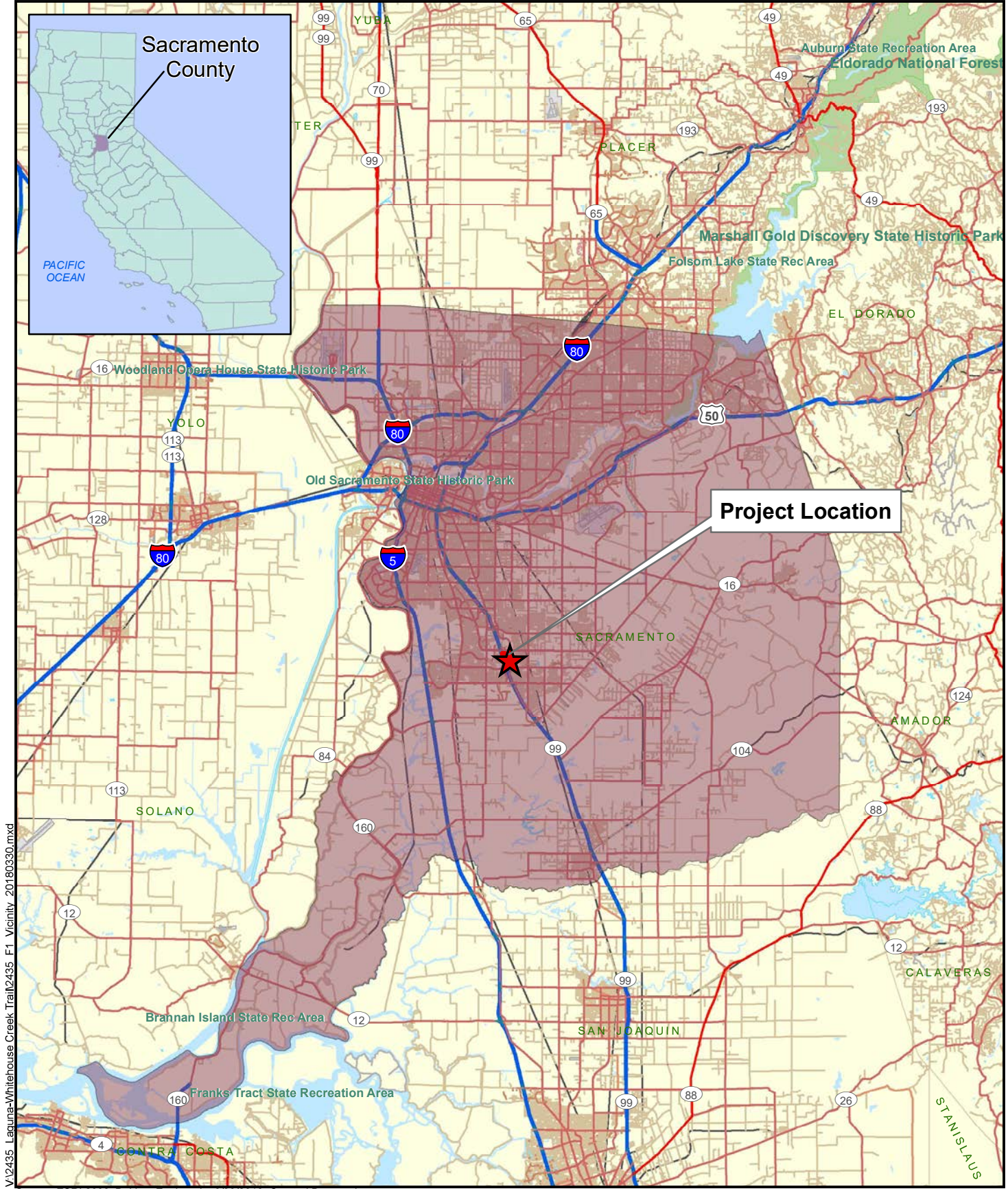
The purpose of the Project is to provide access along Laguna Creek and Whitehouse Creek to City maintenance crews. Regular maintenance and emergency debris removal within these creeks is currently prohibited by a lack of access. Additionally, the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan (2021) (BPTMP) identifies this segment of the Laguna Creek Trail as a future bicycle and trail project expenditure and shows the ~~proposed~~ Project on Figure 12 (Existing and Proposed Bicycle Network) of the BPTMP. The BPTMP identifies the need for an off-street multiuse trail system providing connections throughout the City and the Sacramento region. As part of the Project, this segment would complete a portion of the Laguna Creek Trail system in the City of Elk Grove from the west end of Camden Park to East Stockton Boulevard.

2.3 Project Description

The Project consists of constructing a multi-functional corridor between East Stockton Boulevard and Camden Park in the City of Elk Grove. The maintenance access road alignment begins at East Stockton Boulevard, approximately 750 feet south of the intersection of East Stockton Boulevard and Cantwell Drive. The alignment follows a west-east orientation before crossing Whitehouse Creek. After this crossing, the alignment turns south and parallels the eastern bank of Whitehouse Creek before turning southeast and crossing Laguna Creek at two locations before terminating at the existing Laguna Creek Trail system near Beckington Drive and White Peacock Way. During the final design and right-of-way phases of the Project, the alignment may traverse further south along Whitehouse Creek before turning southeast to cross Laguna Creek. This design option is included on **Figure 3. Project Features**.

~~The Project would be constructed in two phases. Phase I would include~~ construction of a 12-~~to~~ 16~~10~~-foot-wide paved surface (no pavement striping) with 2-3 feet of unpaved shoulders (**Figure 4. Typical Cross Sections**). Pre-fabricated steel or concrete bridges would provide necessary access across Laguna and Whitehouse Creeks. The Project would be constructed in phases, dependent on funding, with the last phase of the Project ~~Phase II of the Project would consist of converting the paved maintenance access road into a Class 1 multi-functional trail corridor connection between East Stockton Boulevard and Camden Park, with pavement striping and trail amenities, such as benches and trash containers. This last phase~~ ~~Phase II~~ of the Project would complete a gap within the trail system in accordance with the City's Bicycle, Pedestrian, and Trails Master Plan.

~~Additional Phase I or II~~ Project features would include construction of floodway excavation areas~~retention basins~~ to offset the floodplain encroachments from the maintenance road/multi-functional trail and fencing to prevent pedestrian incursion beyond the multi-functional corridor. Right-of-way acquisitions and temporary construction easements are needed where the multi-functional corridor passes through privately-owned parcels and will be obtained during final design~~Phase I~~ of the Project.



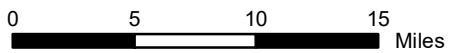
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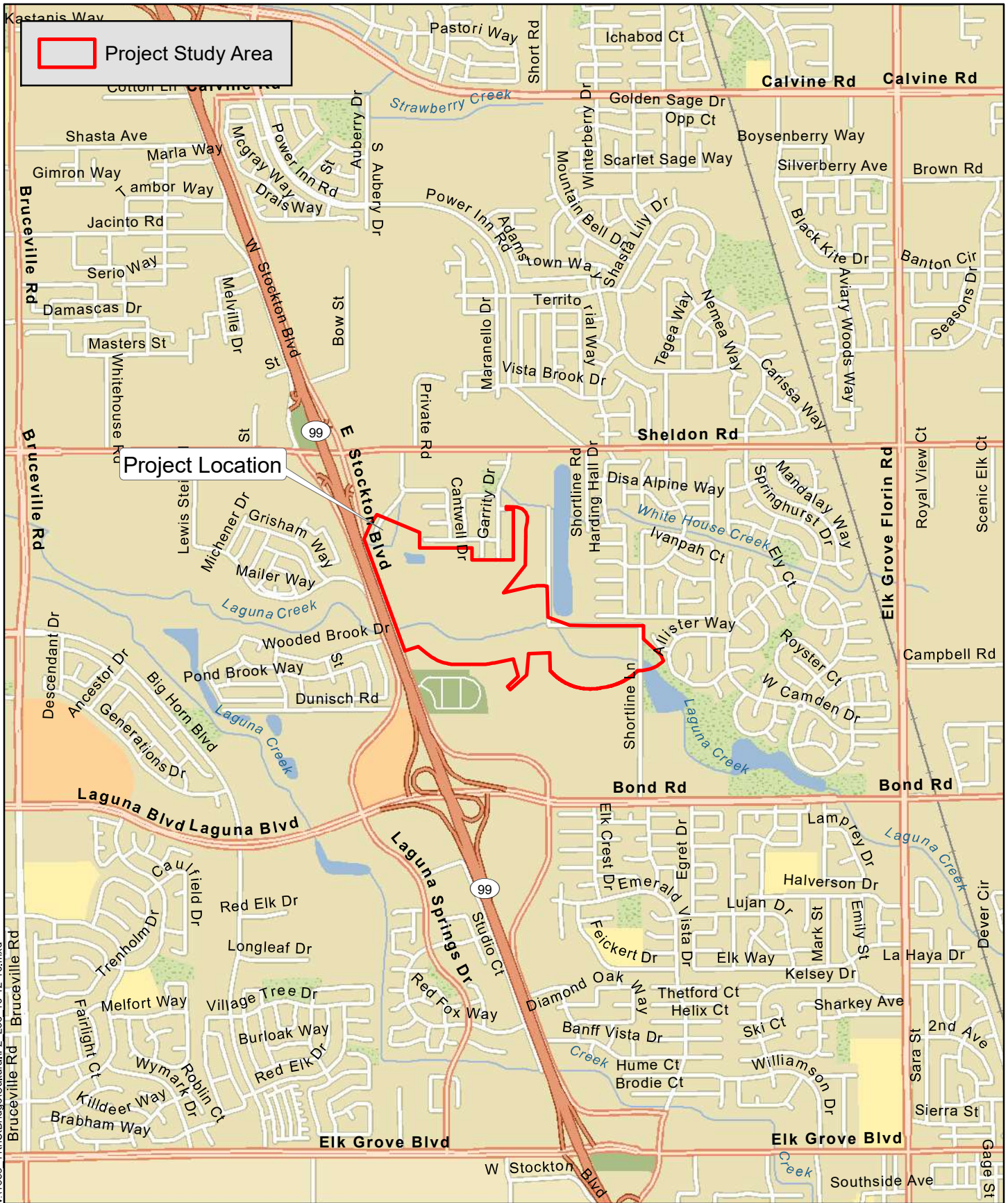
Source: ESRI 2008; Dokken Engineering 3/30/2018; Created By: amyd

Project Location

FIGURE 1
Project Vicinity

Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
City of Elk Grove, Sacramento County, California





v:\1836_11\1836Bridge\Cultural\F2_Loc_10-12-10.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 9/17/2021; Created By: rramirez



0 0.25 0.5 0.75 1
Miles

FIGURE 2
Project Location

Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
City of Elk Grove, Sacramento County, California

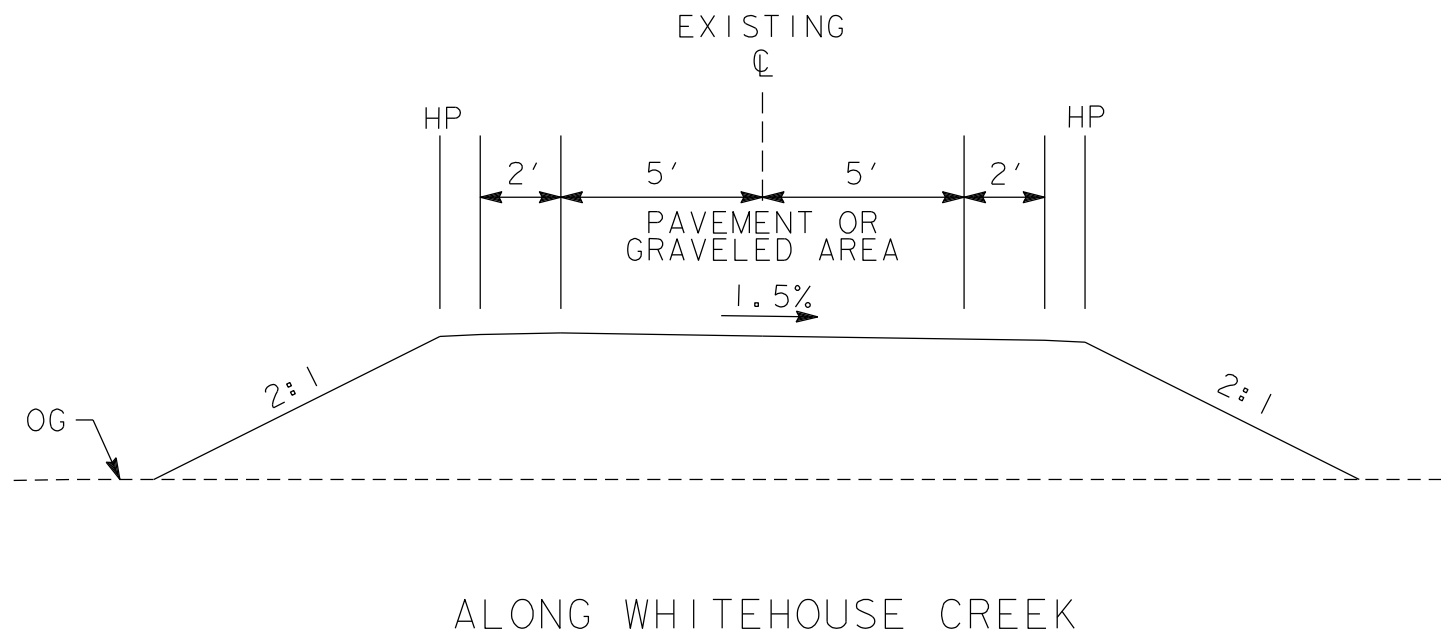
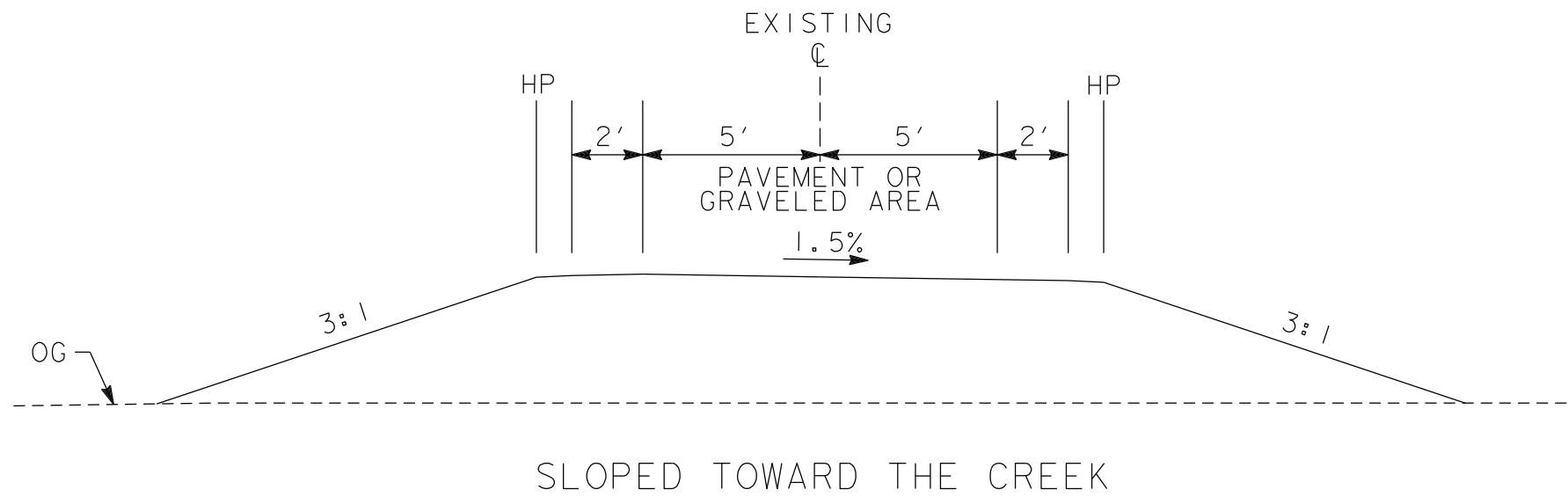


V:\2435 Laguna-Whitehouse Creek Trail\F3 Project Features 2022-09-20.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 7/10/2023; Created By: amyd



FIGURE 3
Project Features
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California



This Project is partially funded through the City’s Storm Drainage Master Plan and is subject to compliance with the California Environmental Quality Act (CEQA). The lead agency for CEQA compliance is the City. The Project is also subject to compliance with the National Environmental Policy Act (NEPA) due to anticipated federal permitting through the U.S. Army Corps of Engineers federal nexus during the Clean Water Act Section 404 permitting process for project impacts to waters of the U.S.

2.4 Required Project Approvals

In order for the Project to be implemented, a series of actions and approvals would be required from regulatory agencies. Anticipated Project approvals would include, but are not limited to the following:

Table 1. Require Project Approvals

Agency	Permit/Approval	Status
Elk Grove City Council	Adoption of MND and MMRP	Anticipated 2022
State Water Resources Control Board	Section 401 Certification	Anticipated 2023
California Department of Fish and Wildlife	1602 Streambed Alteration Agreement	Anticipated 2023
U.S. Fish and Wildlife Service	Section 7 Letter of Concurrence	Anticipated 2023
U.S. Army Corps of Engineers	Section 404 Nationwide Permit 14	Anticipated 2023
Regional Water Quality Control Board	National Pollutant Discharge Elimination System 402 General Permit for Storm Water Discharges Associated with Construction Activity	Will be Obtained Prior to Construction.

3.0 INITIAL STUDY CHECKLIST

A. BACKGROUND

1. Project Title:

Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project (WDR018)

2. Lead Agency Name and Address:

City of Elk Grove
8401 Laguna Palms Way
Elk Grove, CA 95758

3. Contact Person Phone Number:

Keith Jukes, P.E.
Project Manager
Senior Civil Engineer
8401 Laguna Palms Way
Elk Grove, CA 95758
(916) 478-2236

4. Project Location:

The Project site consists of the ~~proposed~~ Project area, which extends from the existing Laguna Creek Trail, located south of the intersection of Beckington Drive and White Peacock Way, to a connection at East Stockton Boulevard approximately 750 feet south of the intersection of East Stockton Boulevard and Cantwell Drive, in Elk Grove, Sacramento County.

5. Project Applicant's Name and Address:

City of Elk Grove
8401 Laguna Palms Way
Elk Grove, CA 95758

6. General Plan Designation:

Public Services (PS) and Resource Management and Conservation (RMC)

7. Zoning:

O (Open Space).

8. Description of Project:

The Project Applicant (City of Elk Grove) proposes to construct the Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project. The ~~proposed~~ Project will include the construction of a 1-mile long multi-functional corridor along the banks adjacent to segments of Laguna Creek and Whitehouse Creek.

~~The Project would be constructed in two phases. Phase I would include construction of a 12- to 16-foot-wide paved surface (no pavement striping) with~~

3.0 INITIAL STUDY CHECKLIST

2-3 feet of unpaved shoulders. Pre-fabricated steel or concrete bridges would provide necessary access across Laguna and Whitehouse Creeks. The Project would be constructed in phases, dependent on funding, with the last phase of the Project Phase II of the Project would consist of converting the paved maintenance access road into a Class 1 multi-functional trail corridor connection between East Stockton Boulevard and Camden Park, with pavement striping and trail amenities, such as benches and trash containers. This last phase II of the Project would complete a gap within the trail system in accordance with the City's Bicycle, Pedestrian, and Trails Master Plan.

~~Additional Phase I or II Project features would include construction of floodway excavation areas retention basins to offset the floodplain encroachments from the maintenance road/multi-functional trail and fencing to prevent pedestrian incursion beyond the multi-functional corridor. Right-of-way acquisitions and temporary construction easements are needed where the multi-functional corridor passes through privately-owned parcels and will be obtained during Phase I final design of the Project.~~

This Project is partially funded through the City's Storm Drainage Master Plan and is subject to compliance with the California Environmental Quality Act (CEQA). The lead agency for CEQA compliance is the City. The Project is also subject to compliance with the National Environmental Policy Act (NEPA) due to anticipated federal permitting through the U.S. Army Corps of Engineers federal nexus during the Clean Water Act Section 404 permitting process for project impacts to waters of the U.S.

9. Surrounding Land Uses and Setting:

The current land use and zoning designations within the Project site include Regional Commercial (RC), Resource Management and Conservation (RMC), Public Services (PS), Shopping Center (SC), Public Services (PS), and Open Space (O). The Project site is relatively flat with no major topographic features. There are no existing buildings or other improvements within the Project site. The site has been farmed in the past but has been fallow recently, so little native vegetation remains. The Project site contains Laguna Creek and Whitehouse Creek and associated wetland features.

The current land use and zoning designations adjacent to the Project site include Low Density Residential (RD-4 and RD-5), Agricultural Residential (AR-5), Rural Residential (RR), Shopping Center (SC), and Public Services (PS). The Public Services (PS) area is partially in use as the East Lawn Elk Grove Memorial Park and Mortuary. The area located between Whitehouse Creek and East Stockton Boulevard is zoned for Shopping Center (SC) with land use designation Regional Commercial (RC) and is in use by Creekside Christian Church. The area north of the Project site is zoned Agricultural Residential (AR-5), Rural Residential, and Low Density Residential (RD-4 and RD-5) (Low Density Residential) and is currently developed with single-family residential uses. The area south of the Project site is zoned Institutional and SC (Shopping Center) and is in use as a cemetery and developed with retail uses. The area east of the Project site is zoned as Open Space RD-5 and is currently developed as Camden Park park. State Route (SR) 99 and East Stockton Boulevard are located immediately west of the Project site.

3.0 INITIAL STUDY CHECKLIST

The Project site is relatively flat with no major topographic features. There are no existing buildings or other improvements on the site. The site has been farmed in the past but has been fallow recently, so little native vegetation remains. The Project site contains Laguna Creek and Whitehouse Creek and associated wetland features.

B. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below could result in potentially significant impacts if mitigation measures are not implemented. As discussed on the following pages, where potentially significant impacts are identified, feasible mitigation was identified to reduce the impacts to a less than significant level. Therefore, potentially significant impacts that are mitigated to “Less Than Significant” are shown here.

- Aesthetics
- Biological Resources
- Geology/Soils
- Hydrology/Water Quality
- Noise
- Recreation
- Utilities/Service Systems
- Agriculture and Forestry
- Cultural Resources
- Greenhouse Gas Emissions
- Land Use/Planning
- Population/Housing
- Transportation
- Wildfire
- Air Quality
- Energy
- Hazards and Hazardous Materials
- Mineral Resources
- Public Services
- Tribal Cultural Resources
- Mandatory Findings of Significance

C. DETERMINATION

On the basis of this initial evaluation:

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



Christina Castro, P.E.
CIP Division Manager
City of Elk Grove

11/2/2022
Date

D. EVALUATION OF ENVIRONMENTAL IMPACTS

Each of the responses in the following environmental checklist considers the whole action involved, including project-level, cumulative, on-site, off-site, indirect, construction, and operational impacts. A brief explanation is provided for all answers and supported by the information sources cited.

1. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone).
2. A “Less Than Significant Impact” applies when the ~~proposed~~ project would not result in a substantial and adverse change in the environment. This impact level does not require mitigation measures.
3. A “Less Than Significant Impact With Mitigation Incorporated” applies when the ~~proposed~~ project would not result in a substantial and adverse change in the environment after additional mitigation measures are applied.
4. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect is significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.

I. AESTHETICS

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

REGULATORY SETTING

CEQA establishes that it is the policy of the state to take all action necessary to provide the people of the state “with... enjoyment of aesthetic, natural, scenic and historic environmental qualities (CA Public Resources Code Section 21001[b]).”

DISCUSSION OF IMPACTS

- a) **No Impact.** No designated state scenic vistas or highways are within or near the Project site (Caltrans 2011); therefore, there would be no impact.
- b) **Less than Significant Impact.** There are no designated scenic vistas or highways located within or adjacent the Project area (Caltrans 2011). Further, there are no historic buildings within or adjacent the Project area.

The Project area predominantly consists of grassland, with few trees. The one exception is the dense stand of eucalyptus trees bordering Shortline Lake, located just north of the Project area. While some trees will be removed from within the grassland, the Project has been designed to avoid any impacts to the dense eucalyptus stand. Due to the minimal removal of trees (less than 5) and vegetation (6 acres out of the 132-acre open grassland), the Project will have a less than significant impact.

- c) **Less than Significant Impact.** The Project location and setting provides the context for determining the type of changes to the existing visual environment and potential degradation of the existing visual character or quality of the site. The Project site currently consists of annual grassland, with associated emergent vegetation within Laguna Creek, Whitehouse Creek, and adjacent wetland features. North, south, and west of the proposed Project site is highly developed with institutional uses, low-density residential, and commercial areas. The Project area is zoned as open space, public services, and a shopping center. East of the Project site lies Camden Park, which includes Camden Lake, landscaped areas, ornamental tree species, and segments of the Laguna Creek Bike Trail.

3.0 INITIAL STUDY CHECKLIST

The ~~proposed~~ Project would construct a maintenance access road and bridges to provide maintenance access to Laguna Creek and Whitehouse Creek. As part of the last construction phase of the Project, a ~~second phase~~ the maintenance access road would be converted into a Class 1 multi-use trail corridor, extending the existing Laguna Creek Trail from Camden Park to East Stockton Boulevard. The ~~proposed~~ Project would be consistent with the existing zoning and visual character of Laguna Creek Trail, Camden Spur Trail, surrounding residential and open space/park areas, and current development, as it is a continuation the Laguna Creek Trail. Therefore, impacts are considered less than significant.

- d) **Less than Significant Impact.** The ~~proposed~~ Project would construct a maintenance access road and bridges to provide maintenance access to Laguna Creek and Whitehouse Creek. As part of the last construction phase of the Project, a ~~second phase~~ the maintenance access road would be converted into a Class 1 multi-use trail corridor, extending the existing Laguna Creek Trail from Camden Park to East Stockton Boulevard. No new sources of light or glare are anticipated to be incorporated into the ~~proposed~~ Project for the maintenance access road or the extension of Laguna Creek Trail. Construction of the ~~proposed~~ Project may require the use of construction lighting after daylight hours, which may create a new source of light or glare in the Project area. The nearest residential home to the ~~proposed~~ Project is approximately 50-feet from ~~proposed~~ construction activities. However, any new source of construction lighting would be temporary and limited to the time of construction. Therefore, impacts are considered less than significant.

II. AGRICULTURE AND FOREST RESOURCES

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

REGULATORY SETTING

Farmland Mapping and Monitoring Program

The Farmland Mapping and Monitoring Program (FMMP) was established in 1982 in response to the critical need for assessing the location, quality, and quantity of agricultural lands and conversion of these lands over time. Important Farmland Maps are prepared by the FMMP pursuant to Section 65570 of the California Government Code. To create maps, FMMP combines current land use information with U.S. Department of Agriculture – Natural Resources Conservation Service (NRCS) soil survey data. According to the 2016 Important Farmland Series for Sacramento County, the majority of the Project site is identified as Grazing Land, whereas the eastern and western terminus of the Project site is listed as Urban and Built Up (CDC 2017).

California Land Conservation Act of 1965

The California Land Conservation Act of 1965 – commonly referred to as the Williamson Act – enables local governments to enter into contracts with private landowners for the purpose of restricting specific parcels of land to agricultural or related open space use (DOC 2019). The program is voluntary, locally administered and offers preferential property taxes on lands which have enforceable restrictions on their use via the contracts between individual landowners and local governments. According to the Sacramento County Williamson Act FY 2015/2016 Map, the land within the Project site is listed as either Non-Enrolled Land or Urban and Built-Up Land, both of which are considered Non-Williamson Act lands (DOC 2019).

DISCUSSION OF IMPACTS

- a) **No Impact.** The Project site is designated by the Farmland Mapping and Monitoring Program (FMMP) as Urban and Built-Up Land, and Grazing Land (DOC 2016). Implementation of the ~~proposed~~ Project would not result in the conversion of any Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to nonagricultural use. Therefore, no impact to farmland resources would occur due to the ~~proposed~~ Project.
- b) **No Impact.** According to the Elk Grove Assessor Parcel Viewer (City of Elk Grove 2019), the majority of the Project area is zoned for Public Services (PS) with some areas zoned as Shopping Center (SC), and Open Space (O). Additionally, according to the Sacramento County Williamson Act FY 2015/2016 Map, the land within the Project site is listed as either Non-Enrolled Land or Urban and Built-Up Land, both of which are considered Non-Williamson Act lands. The ~~proposed~~ Project would not conflict with the existing zoning for agricultural use or Williamson Act contract lands; therefore, no impact would occur.
- c) **No Impact.** There is no forestland, timberland or timberland zoned for Timberland Production within the Project vicinity or Project area. The Project would not conflict with existing zoning for, or cause rezoning of, forestland, timberland, or timberland zoned Timberland Production; therefore, no impact would occur.
- d) **No Impact.** There is no forestland or forest resources located within the Project vicinity or Project area. The Project would not result in the loss of forest land or conversion of forest land to non-forest use; therefore, no impact would occur.
- e) **Less than Significant .** The ~~proposed~~ Project would construct a maintenance access road and bridges to provide maintenance access to Laguna Creek and Whitehouse Creek. As part of the last construction phase of the Project a second phase, the maintenance access road would be converted into a Class 1 multi-use trail corridor, extending the existing Laguna Creek Trail from Camden Park to East Stockton Boulevard. The ~~proposed~~ Project activities would remove approximately 64 acres of vegetation out of a roughly 132 acre area classified as grazing land. This is a minimal impact that would not result in the conversion of farmland to non-agricultural use, or conversion of forestland to non-forest use; therefore, the impact would be less than significant.

III. AIR QUALITY

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

REGULATORY SETTING

Federal and State

Clean Air Act

The United States Environmental Protection Agency (USEPA) is responsible for addressing national and interstate air pollution issues and setting policies. The EPA sets national vehicle and stationary source emission standards, oversees approval of all State Implementation Plans, provides research and guidance for air pollution programs, and sets National Ambient Air Quality Standards (NAAQS), also known as Federal standards. There are Federal standards for the following criteria air pollutants, which were identified from provisions of the Clean Air Act of 1970:

- Ozone;
- Particulate matter (PM10 and PM2.5);
- Nitrogen dioxide;
- Carbon monoxide (CO); and
- Lead Sulfur dioxide.

Federal standards were set to protect public health, including that of sensitive individuals; thus, the standards continue to change as more medical research is available regarding the health effects of the criteria pollutants. Primary Federal standards are the levels of air quality necessary, with an adequate margin of safety, to protect the public health (California Air Resources Board [CARB] 2017).

State Implementation Plan

A State Implementation Plan is a document prepared by each state describing existing air quality conditions and measures that would be followed to attain and maintain Federal standards. The State Implementation Plan for the State of California is administered by the CARB, which has overall responsibility for Statewide air quality maintenance and air pollution prevention. California’s State Implementation Plan incorporates individual Federal attainment plans for regional air districts—air districts prepare their Federal attainment plans, which are sent to the CARB to be approved and incorporated into the California State Implementation Plan. Federal attainment plans include the technical foundation for understanding air quality (e.g., emission inventories and air quality monitoring), control measures and strategies, and enforcement mechanisms.

Federal and State Ambient Air Quality Standards

California and the federal government have established standards for several different pollutants. For some pollutants, separate standards have been set for different measurement periods. Most standards have been set to protect public health. For some pollutants, standards have been based on other values (such as protection of crops, protection of materials, or avoidance of nuisance conditions). The pollutants of greatest concern in the Project area are ozone, particulate matter-2.5 microns (PM_{2.5}) and particulate matter-10 microns (PM₁₀). Table 2 shows the state and federal attainment status within Sacramento County for a variety of pollutants.

The Federal Clean Air Act requires the EPA to designate areas as attainment, nonattainment, or unclassified for the NAAQS. These designations are similar to their state-level counterparts. Areas that were nonattainment but have recently achieved attainment are referred to as maintenance areas. Table 3 provides a summary of the NAAQS and California Ambient Air Quality Standards (CAAQS) attainment status in the vicinity of the Project.

Table 2. NAAQS and CAAQS Attainment Status for Shasta County

Criteria Pollutants	State Designation	Federal Designation
Ozone	Nonattainment	Nonattainment
PM10	Nonattainment	Attainment
PM2.5	Attainment	Nonattainment
Carbon Monoxide	Moderate Attainment	Unclassified/Attainment
Nitrogen Dioxide	Attainment	Unclassified/Attainment
Sulfur Dioxide	Attainment	Unclassified
Sulfates	Attainment	-
Lead	Attainment	Unclassified/Attainment
Hydrogen Sulfide	Unclassified	-
Visibility Reducing Particles	Unclassified	-

Source: California Air Resources Board, 2018
<https://www.arb.ca.gov/desig/adm/adm.htm>

Table 3. Ambient Air Quality Standards

Ambient Air Quality Standards							
Pollutant	Averaging Time	California Standards ¹		National Standards ²			
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷	
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m ³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry	
	8 Hour	0.070 ppm (137 µg/m ³)		0.070 ppm (137 µg/m ³)			
Respirable Particulate Matter (PM ₁₀) ⁹	24 Hour	50 µg/m ³	Gravimetric or Beta Attenuation	150 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis	
	Annual Arithmetic Mean	20 µg/m ³		—			
Fine Particulate Matter (PM _{2.5}) ⁹	24 Hour	—	—	35 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis	
	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	12.0 µg/m ³			15 µg/m ³
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m ³)	—	Non-Dispersive Infrared Photometry (NDIR)	
	8 Hour	9.0 ppm (10 mg/m ³)		9 ppm (10 mg/m ³)			
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)		—			
Nitrogen Dioxide (NO ₂) ¹⁰	1 Hour	0.18 ppm (339 µg/m ³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m ³)	—	Gas Phase Chemiluminescence	
	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)		0.053 ppm (100 µg/m ³)			Same as Primary Standard
Sulfur Dioxide (SO ₂) ¹¹	1 Hour	0.25 ppm (655 µg/m ³)	Ultraviolet Fluorescence	75 ppb (196 µg/m ³)	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)	
	3 Hour	—		—			0.5 ppm (1300 µg/m ³)
	24 Hour	0.04 ppm (105 µg/m ³)		0.14 ppm (for certain areas) ¹¹			—
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) ¹¹			—
Lead ^{12,13}	30 Day Average	1.5 µg/m ³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption	
	Calendar Quarter	—		1.5 µg/m ³ (for certain areas) ¹²			Same as Primary Standard
	Rolling 3-Month Average	—		0.15 µg/m ³			
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards			
Sulfates	24 Hour	25 µg/m ³	Ion Chromatography				
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence				
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m ³)	Gas Chromatography				

See footnotes on next page ...

For more information please call ARB-PIO at (916) 322-2990

California Air Resources Board (5/4/16)

3.0 INITIAL STUDY CHECKLIST

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above $150 \mu\text{g}/\text{m}^3$ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from $15 \mu\text{g}/\text{m}^3$ to $12.0 \mu\text{g}/\text{m}^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at $35 \mu\text{g}/\text{m}^3$, as was the annual secondary standard of $15 \mu\text{g}/\text{m}^3$. The existing 24-hour PM10 standards (primary and secondary) of $150 \mu\text{g}/\text{m}^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard ($1.5 \mu\text{g}/\text{m}^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

For more information please call ARB-PIO at (916) 322-2990

California Air Resources Board (5/4/16)

Source: CARB 2019

Local

Sacramento Metropolitan Air Quality Management District

The Sacramento Metropolitan Air Quality Management District (SMAQMD) is the primary agency responsible for planning to meet Federal and State ambient air quality standards in Sacramento County and the larger Sacramento Ozone Nonattainment Area.

The SMAQMD operates monitoring stations in Sacramento County, develops rules, regulations, and CEQA thresholds for stationary sources and equipment, prepares emissions inventory and air quality management planning documents, and conducts source testing and inspections. Table 4 depicts the SMAQMD Thresholds of Significance for Projects subject to CEQA (SMAQMD 2009a).

The SMAQMD's air quality management plans include control measures and strategies to be implemented to attain State and Federal ambient air quality standards in Sacramento County. The SMAQMD then implements these control measures as regulations to control or reduce criteria pollutant emissions from stationary sources or equipment. Applicable SMAQMD attainment plans include:

- An 8-Hour Ozone Attainment and Reasonable Further Progress Plan; and
- Revised 8-Hour Ozone Attainment and Reasonable Further Progress Plan.

The 2009, 8-Hour Ozone Attainment and Reasonable Further Program Plan describes measures to be implemented by the air districts in the Sacramento Federal Nonattainment Area to achieve the 1997 ozone NAAQS. This plan includes the information and analyses to fulfill the Federal Clean Air Act (CAA) requirements for demonstrating reasonable further progress and attainment of the 1997, 8-hour ozone NAAQS for the Sacramento region. In addition, this plan establishes an updated emissions inventory projected for a 2019 attainment date, provides photochemical modeling results, proposes the implementation of reasonably available control measures, and sets new motor vehicle emission budgets for transportation conformity purposes for the reasonable further progress milestone years and the 2019 attainment year. The emission reduction strategy is based on reductions in both reactive organic gases (ROG) and nitrogen oxide (NO_x) emissions.

Future control measures include State and Federal control strategies (e.g., smog check program improvements and cleaner heavy-duty trucks and off-road equipment), local mobile source incentive programs, Sacramento Area Council of Governments' transportation control measures, a measure to reduce biogenic volatile organic compounds (VOC) from Sacramento's urban forest, indirect source rules related to construction and operation of development Projects, and new and more stringent stationary source control rules (SMAQMD 2011).

In 2011, the air districts comprising the SFNA reviewed the 2009 Ozone Attainment Plan and concluded that certain stationary source control measures and transportation control measures would not be adopted or implemented within the time frames outlined in the plan. The air districts submitted a revision to CARB and USEPA. For the SMAQMD, the revision resulted in removal of two stationary source control measures (stationary internal combustion engines at major stationary sources and asphaltic concrete) and two indirect source review rule measures commitments, substitution of one transportation control measure (TCM) and rescheduling several stationary source measures and TCMs.

Table 4. SMAQMD Thresholds of Significance

	Construction Phase	Operational Phase
Mass Emission Thresholds		
Nitrogen Oxide (NOx) (Ozone precursor)	85 pounds/day	65 pounds/day
Reactive Organic Gases (ROG) (VOC) (Ozone precursor)	None.	65 pounds/day
Particulate Matter (PM10)	Zero (0). If all feasible best available control technology (BACT) and BMPs are applied, then 80 pounds/day and 14.6 tons/year.	Zero (0). If all feasible BACT and BMPs are applied, then 80 pounds/day and 14.6 tons/year.
Particulate Matter (PM2.5)	Zero (0). If all feasible BACT and BMPs are applied, then 82 pounds/day and 15 tons/year.	Zero (0). If all feasible BACT and BMPs are applied, then 82 pounds/day and 15 tons/year.
Concentration Thresholds (Based on the California Ambient Air Quality Standard, identical threshold for both all phases of development.		
Carbon Monoxide (CO)	20 ppm 1-hour standard (23 mg/m ³); 9 ppm 8-hour (10 mg/m ³)	
Nitrogen Dioxide (NO2)	0.18 ppm 1-hour standard (339 (339 µg/m ³); 0.03 ppm Annual Arithmetic Mean (57 µg/m ³)	
Sulphur Dioxide (SO2)	0.25 ppm 1-hour standard (665 µg/m ³); 0.04 ppm 24-hour standard (105 µg/m ³)	
Lead	1.5 µg/m ³ 30-day average	
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer - visibility of ten miles or more due to particles when relative humidity is less than 70 percent	
Sulfates	25 µg/m ³ 24-hour standard	
Hydrogen Sulfide (H2S)	0.03 ppm (42 µg/m ³) 1-hour standard	
Vinyl Chloride	0.01 ppm (26 µg/m ³) 24-hour standard	

PM10 Implementation/Maintenance Plan and Redesignation Request for Sacramento County

On October 28, 2010, the SMAQMD Governing Board approved the PM10 maintenance plan and request for redesignation for the 1997 PM10 NAAQS (SMAQMD 2010a). In 2002, the USEPA officially determined that Sacramento County had attained the PM10 NAAQS by the December 31, 2000, attainment deadline. This plan fulfills the requirements for the USEPA to redesignate Sacramento County from nonattainment to attainment of the PM10 NAAQS.

On December 7, 2010, following review of the maintenance plan and re-designation request, CARB submitted it to the USEPA for approval. The USEPA proposed re-designation of the area on July 24, 2013 and opened a public comment period for this action. Final USEPA approval of the re-designation is pending.

2009 Triennial Report and Plan Revision

This plan is intended to comply with the requirements of the California Clean Air Act (CCAA) as related to bringing the region into compliance with the CAAQS for ozone. The SMAQMD has prepared several triennial progress reports that build upon the 1994 Sacramento Area Regional

Ozone Attainment Plan. The 2009 Triennial Report and Plan Revision (SMAQMD 2010b) is the most recent report. The triennial progress report includes a current emission inventory and projected future inventories of ROG and NO_x emissions in Sacramento County. The future inventories reflect population growth rates, travel, employment, industrial/commercial activities, and energy use, as well as controls imposed through local, State, and Federal emission reduction measures. The triennial report discusses rules that the SMAQMD has adopted during the previous three years, incentive programs that have been implemented, and other measures that would supplement those in the Ozone Attainment Plan to achieve the required five percent per year reduction required by the CCAA.

The SMAQMD also has several rules that relate to the ~~proposed~~ Project, which are summarized below.

Rule 201 – General Permit Requirements: Requires any Project that includes the use of certain equipment capable of releasing emissions to the atmosphere as part of Project operation to obtain a permit from the SMAQMD prior to operation of the equipment. The applicant, developer, or operator of a Project that includes an emergency generator, boiler, or heater should contact the SMAQMD to determine if a permit is required. Portable construction equipment with an internal combustion engine over 50 horsepower are required to have a SMAQMD permit or a CARB portable equipment registration.

Rule 401 – Ringelmann Chart: Prohibits individuals from discharging into the atmosphere from any single source of emissions whatsoever any air contaminant whose opacity exceeds certain specified limits.

Rule 402 – Nuisance: To protect the public health, Rule 402 prohibits any person from discharging such quantities of air contaminants that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public.

Rule 403 – Fugitive Dust: Requires a person to take every reasonable precaution not to cause or allow the emissions of fugitive dust from being airborne beyond the property line from which the emission originates, from construction, handling or storage activity, or any wrecking, excavation, grading, clearing of land or solid waste disposal operation.

Rule 453 – Cutback and Emulsified Asphalt Paving Materials: Asphalt paving operations that may be associated with implementation of a Project would be subject to Rule 453. This rule applies to the manufacture and use of cutback asphalt and emulsified asphalt for paving and maintenance operations.

Rule 902 – Asbestos: To protect the public health and the environment, Rule 902 sets specific procedures to follow regarding handling, transport, and disposal of asbestos containing materials.

The Guide to Air Quality Assessment in Sacramento County also provides methods to analyze air quality impacts from plans and Projects, including screening criteria, thresholds of significance, calculation methods, as well as mitigation measures that help assist lead agencies in complying with the CEQA. These guidelines require that basic construction emission control practices be implemented for emissions regardless of the significance determination.

Toxic Air Contaminants

A toxic air contaminant (TAC) is defined as an air pollutant that may cause or contribute to an increase in mortality or serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk

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may pose a threat to public health even at low concentrations. The California Almanac of Emissions and Air Quality (CARB 2013) presents the relevant concentration and cancer risk data for the ten TACs that pose the most substantial health risk in California based on available data. These TACs are as follows: acetaldehyde, benzene, 1,3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, perchloroethylene, and DPM.

Some studies indicate that DPM poses the greatest health risk among the TACs listed above. A 10-year research program (CARB 1998) demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk. In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

DPM differs from other TACs in that it is not a single substance but a complex mixture of hundreds of substances. Although DPM is emitted by diesel-fueled, internal combustion engines, the composition of the emissions varies, depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. Unlike the other TACs, however, no ambient monitoring data are available for DPM because no routine measurement method currently exists. The CARB has made preliminary concentration estimates based on a DPM exposure method. This method uses the CARB emissions inventory's PM10 database, ambient PM10 monitoring data, and the results from several studies to estimate concentrations of DPM.

Odors

Odors are generally regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., emotional reaction) to physiological (e.g., nausea).

With respect to odors, the human nose is the sole sensing device. The ability to detect odors is subjective and varies considerably among the population. Some individuals have the ability to smell very minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; an odor that is offensive to one person may be perfectly acceptable to another.

The Sacramento Valley Basinwide Air Pollution Control Council

The Sacramento Valley Basinwide Air Pollution Control Council (Control Council) is authorized pursuant to California Health and Safety Code Section (HSC) section 40900 (SMAQMD 2016) to carry out the following activities relevant to the Proposed Project pursuant to State Law and the CCR (reference HSC Section 41865 and Section 41866; CCR Section 80100 et seq.):

- Assist Districts in the Sacramento Valley Air Basin in coordinating all air pollution control activities to ensure that the entire Sacramento Valley Air Basin is, or will be, in compliance with the requirements of State and Federal law.

City of Elk Grove General Plan (As Amended)

The Goals listed below are excerpted from the City of Elk Grove General Plan (as amended) – Natural Resources chapter (City of Elk Grove 2021). These goals are designed to guide improving air quality, and promote clean, sustainable transportation options. Each of the main goals have detailed policies stating the City’s priorities and implementation strategies. For all policies related to air quality, the City’s General Plan Update 2021 can be found here: http://www.elkgrovecity.org/city_hall/departments_divisions/planning/a_brighter_future/documents

Goal NR-4: Improved Air Quality

Improving air quality is a key challenge for the Sacramento Valley region and is one of the City’s top policy priorities. Because vehicle emissions are the major source of air pollution in Elk Grove and the surrounding area, promoting clean, sustainable transportation options—including public transit, bicycling, and walking—as alternatives to motorized vehicles is an important strategy for reducing air pollution and improving air quality. Other strategies include measures to control dust and reduce construction emissions, and standards for locating sensitive land uses (such as hospitals, schools, day care facilities, and senior housing) away from sources of air pollution. Policies NR-4-1 through NR-4-13 are specific to air pollutant emissions requirements.

Goal NR-5: Reduced Greenhouse Gas Emissions That Align With Local, State, And Other Goals

In accordance with State law aimed at combatting climate change, the City will take steps to reduce local GHG emissions, as set forth in Elk Grove’s adopted Climate Action Plan (CAP). This includes working to achieve GHG reduction targets related to transportation and energy usage in buildings, as well as coordinating with regional and State agencies to reduce GHG emissions from other stationary sources. Policies NR-5-1 through NR-5-4 are specific to greenhouse gas emissions.

Goal NR-6: Reduced Energy Demand and Increased Renewable Sources

The City seeks to promote sustainable energy in Elk Grove through an integrated approach that addresses both the demand and supply sides of the energy equation. This includes steps to reduce energy consumption through energy conservation and efficiency and to encourage the use of energy derived from renewable sources, particularly solar energy. Elk Grove will need to continue increasing available renewable energy options to meet rising State standards and consumer demands. Investing in renewable energy technologies, incentivizing private clean energy projects, and ensuring ease of installation and use of renewable energy infrastructure will help the City meet or exceed these goals. Policies NR-6-1 through NR-6-5 are specific to energy conservation, whereas NR-6-6 and NR-6-7 are specific to renewable energy sources.

DISCUSSION

- a) **No Impact.** A project is considered to conflict with or obstruct implementation of regional air quality plans if it would be inconsistent with the emissions inventories contained in the regional air quality plans. Emission inventories are developed based on projected increases in population growth and vehicle miles traveled (VMT) within the region. ~~Phase I of the proposed~~ The Project would include construction of a maintenance access road from the existing Laguna Creek Trail. The Project would not result in an increase in population or VMT. During the final construction phase ~~Phase II~~ of the Project would consist of converting the maintenance access road into a Class 1 multi-use trail corridor connection between the Camden Park and East Stockton Boulevard, with striping and trail amenities incorporated as necessary. Implementation of the ~~proposed~~ Project would increase the connectivity of the City’s off-street trail network and encourage the use of

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alternative modes of transportation, potentially reducing the use of personal motor vehicles. Long-term operation of the ~~proposed~~ Project is anticipated to result in overall beneficial air quality impacts and would not be anticipated to conflict with existing or future air quality planning efforts. Therefore, no impact would occur.

- b) Less Than Significant Impact with Mitigation.** Sacramento County is currently designated as in “attainment” for all State and federal ambient air quality standards, except ozone, PM10, and PM2.5. The current “non-attainment” status for ozone, PM10, and PM2.5 signifies that these pollutant concentrations have exceeded the established standard.

In order to evaluate ozone and other criteria air pollutant emissions and support attainment goals for those pollutants, the SMAQMD developed the Guide to Air Quality Assessment in Sacramento County which has established significance thresholds for emissions of PM2.5 and PM10, and ozone precursors – reactive organic gases (ROG) and nitrous oxides (NOx). The significance thresholds, expressed in pounds per day (lbs./day), listed in Table 5 below represent the SMAQMD’s current established thresholds of significance for use in the evaluation of air quality impacts associated with proposed land development projects. Thus, if the ~~proposed~~ Project’s emissions exceed the pollutant thresholds presented in Table 5, the Project would have the potential to result in significant effects to air quality, and affect the attainment of federal and State Ambient Air Quality Standards.

The ~~proposed~~ Project does involve the construction of a new maintenance access road but would not affect local motorized vehicle traffic operations or patterns. The Project does not include the operation of any major stationary sources of emissions. Implementation of the ~~proposed~~ Project would increase the connectivity of the City’s off-street trail network and encourage the use of alternative modes of transportation, potentially reducing the use of personal motor vehicles. Long-term operation of the ~~proposed~~ Project is anticipated to result in overall beneficial air quality impacts.

Table 5. Maximum Daily Construction Emissions and Local Thresholds of Significance

Thresholds of Significance		
Emissions	Road Construction Emissions Model Estimates	SMAQMD Construction Phase Mass Emissions Thresholds (pounds per day)
NO _x	36.6 lbs/day	85 lbs/day
ROG (VOC)	2.9 lbs/day	NONE
PM ₁₀	11.5 lbs/day (maximum)	Zero (0) . If all feasible BACT/BMPs are applied, then 80 pounds/day and 14.6 tons/year
PM _{2.5}	3.3 lbs/day (maximum)	Zero (0) . If all feasible BACT/BMPs are applied, then 80 pounds/day and 14.6 tons/year
Source: SMAQMD 2019		

Short-term increases in emissions would occur during construction. The construction period would be limited and temporary. According to SMAQMD CEQA Guidelines (SMAQMD 2019), construction-generated NOx and PM emissions shall be evaluated for significance under CEQA on a daily mass emission basis because they are pollutants of regional concern.

Short-term construction-related emissions resulting from the Project construction were estimated using the Road Construction Emissions Model, a spreadsheet-based model specifically designed to estimate emissions with construction of roadway facilities and

other linear projects (**Appendix A**). Table 5 provides the results of the Road Construction Emissions Model estimates for the Project construction phase compared to SMAQMD thresholds of significance.

The Project would be well below emissions levels for NOx. The Project would generate minimal amounts of PM10 and PM2.5 based on the construction emissions model; therefore, SMAQMD Basic Construction Emission Control Practices as described in mitigation measure **AQ-1** shall be implemented where feasible. With the implementation of measure **AQ-1**, any potentially significant impacts would be reduced to a less than significant level; therefore, impacts to air quality standards are considered less than significant with mitigation incorporated.

AQ-1: Implement SMAQMD Basic Construction Emission Control Practices, where feasible:

- 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 2 feet of freeboard 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 shall be covered.
- Use wet power vacuum street sweepers to remove any visible trackout 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.
- All roadway, driveway, sidewalk, and parking lot paving 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.
- Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [required by 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 2249 and 2449.1].

- c) Less Than Significant Impact.** SMAQMD defines sensitive receptors as facilities that house or attract children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants or may experience adverse effects from unhealthy concentrations of air pollutants. Hospitals, clinics, schools, convalescent facilities, and residential areas are examples of sensitive receptors. The nearest sensitive receptors in the vicinity of the Project site are residences located approximately 40 feet north of the Project site, located on Baisley Court.

Construction activities are anticipated to involve the operation of diesel-powered equipment. In 1998, the CARB identified diesel exhaust as a TAC. Cancer health risks associated with exposures to diesel exhaust typically are associated with chronic exposure, in which a 70-year exposure period often is assumed. Although elevated cancer rates can result from exposure periods of less than 70 years, acute exposure (i.e., exposure periods of 2 to 3 years) to diesel exhaust typically are not anticipated to result in an increased health risk because acute exposure typically does not result in exposure concentrations that would represent a health risk. Health impacts associated with

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exposure to diesel exhaust from Project construction are anticipated to be less than significant because construction activities are expected to occur well below the 70-year exposure period used in health risk assessments. Additionally, emissions would be short-term and intermittent in nature, and therefore would not generate TAC emissions at high enough exposure concentrations to represent a health hazard. Therefore, construction of the ~~proposed~~ Project is not anticipated to result in an elevated cancer risk to exposed persons.

Additionally, a review of information available through United States Geological Survey (USGS) indicated that the nearest ultramafic rock formation potentially associated with naturally occurring asbestos (NOA) is approximately 23 miles northeast of the Project area, along the eastern banks of Folsom Lake (USGS 2015). Therefore, overall exposure of sensitive receptors to substantial pollutant concentrations from the ~~proposed~~ Project would be less than significant and no mitigation is required.

- d) Less Than Significant Impact.** While offensive odors rarely cause physical harm, they can be unpleasant, leading to annoyance and distress among the public and can generate citizen complaints to local governments and air districts. Project-related odor emissions would be limited to times when equipment would be utilized for construction and emission from equipment may be evident in the immediate surrounding area. Construction activities would be short-term and would not result in the creation of long-term objectionable odor because they would be quickly dispersed after equipment utilization. Therefore, due to the short-term nature of the construction activities, combined with limited exposure to sensitive receptors, impacts associated with development of the Project are considered less than significant and no mitigation is required.

IV. BIOLOGICAL RESOURCES

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

This section describes the natural resources present within and immediately surrounding the Project site and includes a discussion of the special-status species and sensitive habitats potentially occurring in the Project area. Also included is an analysis of the impacts that could occur to biological resources due to implementation of the ~~proposed~~ Project and appropriate mitigation measures to reduce or avoid significant impacts. The analysis of biological resources presented in this section is based on a review of the current Project description, the Biological Resources Report (**Appendix B**), and Aquatic Resources Delineation Report (**Appendix C**) prepared for the Project, available literature, and surveys conducted by Dokken Engineering biologists in April and June 2018.

REGULATORY SETTING

This section describes the Federal, State, and local plans, policies, and laws that are relevant to biological resources within the BSAs. Applicable Federal permits and approvals that will be required before construction of the Project are provided in Chapter 5.

Federal Regulations

Federal Endangered Species Act

The Federal Endangered Species Act (FESA) of 1973 (16 U.S.C. section 1531 et seq.) provides for the conservation of endangered and threatened species listed pursuant to Section 4 of the Act (16 U.S.C. section 1533) and the ecosystems upon which they depend. These species and

resources have been identified by the U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS).

Clean Water Act

The Clean Water Act (CWA) was enacted as an amendment to the Federal Water Pollutant Control Act of 1972, which outlined the basic structure for regulating discharges of pollutants to waters of the U.S. CWA serves as the primary Federal law protecting the quality of the nation's surface waters, including lakes, rivers, and coastal wetlands. CWA empowers the USEPA to set national water quality standards and effluent limitations, and includes programs addressing both point-source and non-point-source pollution. Point-source pollution originates or enters surface waters at a single, discrete location, such as an outfall structure or an excavation or construction site. Non-point-source pollution originates over a broader area and includes urban contaminants in storm water runoff and sediment loading from upstream areas. CWA operates on the principle that all discharges into the nation's waters are unlawful unless they are specifically authorized by a permit; permit review is CWA's primary regulatory tool. This Project will require a CWA Section 402 National Pollutant Discharge Elimination System (NPDES) Permit regulated by the EPA.

The United States Army Corps of Engineers (USACE) regulates discharges of dredged or fill material into waters of the U. S. These waters include wetlands and non-wetland bodies of water that meet specific criteria, including a direct or indirect connection to interstate commerce. USACE regulatory jurisdiction pursuant to Section 404 of the CWA is founded on a connection, or nexus, between the water body in question and interstate commerce. This connection may be direct (through a tributary system linking a stream channel with traditional navigable waters used in interstate or foreign commerce) or may be indirect (through a nexus identified in USACE regulations).

The Regional Water Quality Control Board (RWQCB) has jurisdiction under Section 401 of the CWA and regulates any activity which may result in a discharge to surface waters. Typically, the areas subject to jurisdiction of the RWQCB coincide with those of USACE (i.e., waters of the U.S. including any wetlands). The RWQCB also asserts authority over "waters of the State" under waste discharge requirements pursuant to the Porter-Cologne Water Quality Control Act.

Executive Order 13112: Prevention and Control of Invasive Species

Executive Order (EO) 13112 (signed February 3, 1999) directs all Federal agencies to prevent and control introductions of invasive species in a cost-effective and environmentally sound manner. As part of the proposed action, the USFWS and USACE would issue permits and therefore would be responsible for ensuring that the proposed action complies with Executive Order 13112 and does not contribute to the spread of invasive species.

Executive Order 13186: Migratory Bird Treaty Act

EO 13186 (signed January 10, 2001) directs each Federal agency taking actions that could adversely affect migratory bird populations to work with USFWS to develop a Memorandum of Understanding that will promote the conservation of migratory bird populations. Protocols developed under the Memorandum of Understanding will include the following agency responsibilities:

- Avoid and minimize, to the maximum extent practicable, adverse impacts on migratory bird resources when conducting agency actions;
- Restore and enhance habitat of migratory birds, as practicable; and
- Prevent or abate the pollution or detrimental alteration of the environment for the benefit of migratory birds, as practicable.

The EO is designed to assist Federal agencies in their efforts to comply with the Migratory Bird Treaty Act (MBTA) (50 Code of Federal Regulations [CFR] 10 and 21) and does not constitute any legal authorization to take migratory birds. Take is defined under the MBTA as “the action of or attempt to pursue, hunt, shoot, capture, collect, or kill” (50 CFR 10.12) and includes intentional take (i.e., take that is the purpose of the activity in question) and unintentional take (i.e., take that results from, but is not the purpose of, the activity in question).

State Regulations

California Environmental Quality Act

California State law created to inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities and to work to reduce these negative environmental impacts. The City of Elk Grove is the CEQA lead agency for this Project.

California Endangered Species Act

The California Endangered Species Act (CESA) (California Fish and Game (CFG) Code Section 2050 et seq.) requires the CDFW to establish a list of endangered and threatened species (Section 2070) and to prohibit the incidental taking of any such listed species except as allowed by the Act (Sections 2080-2089). In addition, CESA prohibits take of candidate species (under consideration for listing).

CESA also requires the CDFW to comply with CEQA (Pub. Resources Code Section 21000 et seq.) when evaluating incidental take permit applications (CFG Code Section 2081(b) and California Code Regulations, Title 14, section 783.0 et seq.), and the potential impacts the project or activity for which the application was submitted may have on the environment. CDFW's CEQA obligations include consultation with other public agencies which have jurisdiction over the project or activity [California Code Regulations, Title 14, Section 783.5(d)(3)]. CDFW cannot issue an incidental take permit if issuance would jeopardize the continued existence of the species [CFG Code Section 2081(c); California Code Regulations, Title 14, Section 783.4(b)].

Section 1602: Streambed Alteration Agreement

Under CFG Code 1602, public agencies are required to notify CDFW before undertaking any project that will divert, obstruct, or change the natural flow, bed, channel, or bank of any river, stream, or lake. Preliminary notification and project review generally occurs during the environmental process. When an existing fish or wildlife resource may be substantially adversely affected, CDFW is required to propose reasonable project changes to protect the resources. These modifications are formalized in a Streambed Alteration Agreement that becomes part of the plans, specifications, and bid documents for the project.

Section 3503 and 3503.5: Bird and Raptors

CFG Code Section 3503 prohibits the destruction of bird nests and Section 3503.5 prohibits the killing of raptor species and destruction of raptor nests. Trees and shrubs are present in and adjacent to the study area and could contain nesting sites.

Section 3513: Migratory Birds

CFG Code Section 3513 prohibits the take or possession of any migratory non-game bird as designated in the MBTA or any part of such migratory non-game bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA.

Porter Cologne Water Quality Control Act

California's Porter-Cologne Act, enacted in 1969, provides the legal basis for water quality regulation within California. This Act requires a "Report of Waste Discharge" for any discharge of waste (liquid, solid, or gaseous) to land or surface waters that may impair beneficial uses for surface and/or groundwater of the State. It predates the CWA and regulates discharges to waters of the State. Waters of the State include more than just waters of the U.S., like groundwater and surface waters not considered waters of the U.S. Additionally, it prohibits discharges of "waste" as defined and this definition is broader than the CWA definition of "pollutant". Discharges under the Porter-Cologne Act are permitted by Waste Discharge Requirements and may be required even when the discharge is already permitted or exempt under the CWA.

The State Water Resources Control Board (SWRCB) and RWQCBs are responsible for establishing the water quality standards (objectives and beneficial uses) required by the CWA, and regulating discharges to ensure compliance with the water quality standards. Details regarding water quality standards in a project area are contained in the applicable RWQCB Basin Plan. In California, Regional Boards designate beneficial uses for all water body segments in their jurisdictions, and then set criteria necessary to protect these uses. Consequently, the water quality standards developed for particular water segments are based on the designated use and vary depending on such use. In addition, the SWRCB identifies waters failing to meet standards for specific pollutants, which are then state-listed in accordance with CWA Section 303(d). If a state determines that waters are impaired for one or more constituents and the standards cannot be met through point source or non-source point controls (NPDES permits or Waste Discharge Requirements), the CWA requires the establishment of Total Maximum Daily Loads (TMDLs). TMDLs specify allowable pollutant loads from all sources (point, non-point, and natural) for a given watershed.

Regional Water Quality Control Boards

The SWRCB adjudicates water rights, sets water pollution control policy, and issues water board orders on matters of statewide application, and oversees water quality functions throughout the state by approving Basin Plans, TMDLs, and NPDES permits. RWQCBs are responsible for protecting beneficial uses of water resources within their regional jurisdiction using planning, permitting, and enforcement authorities to meet this responsibility.

Local Regulations

City of Elk Grove General Plan (As Amended)

The policies below are excerpted from the City of Elk Grove General Plan (as amended) (City of Elk Grove 2021). These policies are designed to guide conservation of native and non-native habitats, plants, and animals within the City's jurisdiction.

- Policy LU-3-22: Identify a mitigation program for critical habitat for special status species known to occur within the Study Areas. A proposed project determined to have a significant impact to habitat for special status species shall implement all feasible mitigation measures established in the program, including but not limited to land dedication (which may be located either inside or outside the corresponding Study Area) or fee payment, or both.
- Policy PT-1-11: In land uses adjacent to natural open space areas, provide on-site landscaping as a transition to natural habitats to the extent feasible.
- Policy NR-1-2: Preserve and enhance natural areas that serve, or may potentially serve, as habitat for special-status species. Where preservation is not possible, require that appropriate mitigation be included in the project.

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- Policy NR-1-3: Support the establishment of multipurpose open space areas to address a variety of needs, including but not limited to maintenance of agricultural uses, wildlife habitat, recreational open space, aesthetic benefits, and flood control. To the extent possible, lands protected in accordance with this policy should be in proximity to Elk Grove to facilitate use of these areas by Elk Grove residents, assist in mitigation of habitat loss within the City, and provide an open space resource close to the urbanized areas of Elk Grove.
- Policy NR-1-4: Avoid impacts to wetlands, vernal pools, marshland, and riparian (streamside) areas unless shown to be technically infeasible. Ensure that no net loss of wetland areas occurs, which may be accomplished by avoidance, revegetation, restoration on-site or through creation of riparian habitat corridors, or purchase of credits from a qualified mitigation bank.
- Policy NR-1-5: Recognize the value of naturally vegetated stream corridors, commensurate with flood control and public desire for open space, to assist in removal of pollutants, provide native and endangered species habitat and provide community amenities.
- Policy NR-1-6: Encourage the retention of natural stream corridors, and the creation of natural stream channels where improvements to drainage capacity are required.
- Policy NR-1-7: Consider the adoption of Habitat Conservation Plans to protect rare, threatened, or endangered species.
- Policy NR-1-9: Encourage development clustering where it would facilitate on-site protection of woodlands, grasslands, wetlands, stream corridors, scenic areas, or other appropriate features such as active agricultural uses and historic or cultural resources under the following conditions and requirements. Clustering shall not be allowed in the Rural Area.
- Policy NR-2-1: Preserve large native oak and other native tree species as well as large nonnative tree species that are an important part of the City's historic and aesthetic character. When reviewing native or non-native trees for preservation, consider the following criteria:
health of tree, safety hazards posed by the tree, suitability for preservation in place, biological value, aesthetic value, shade benefits, water quality benefits, runoff reduction benefits, and air quality benefits (pollutant reduction).
- Policy NR-2-5: Ensure that trees that function as an important part of the City's or a neighborhood's aesthetic character or as natural habitat on public and private land are retained or replaced to the extent possible during the development of new structures, roadways (public and private, including roadway widening), parks, drainage channels, and other uses and structures.

City of Elk Grove Swainson's Hawk Program

In 2003, the City established and adopted Chapter 16.130 (Swainson's Hawk Impact Mitigation Fees) of the Elk Grove Municipal Code, which establishes mitigation policies tailored for projects in Elk Grove that have been determined through the CEQA process to result in a "potential significant impact" on Swainson's hawk foraging habitat (City of Elk Grove, 2018). Chapter 16.130 requires mitigation for the loss of Swainson's hawk habitat at a 1:1 ratio. Mitigation can be achieved through the payment of a fee, which is used to fund the City's Swainson's hawk habitat restoration program, but this option may only be used, at this time, if the City has available credits. Other options for achieving mitigation through the code include the direct transfer to the City of a Swainson's hawk habitat conservation easement along with an easement monitoring endowment or the purchase of credits at a CDFW-approved conservation bank. The code requires that a site must be surveyed to determine whether it is suitable Swainson's hawk foraging habitat.

AFFECTED ENVIRONMENT

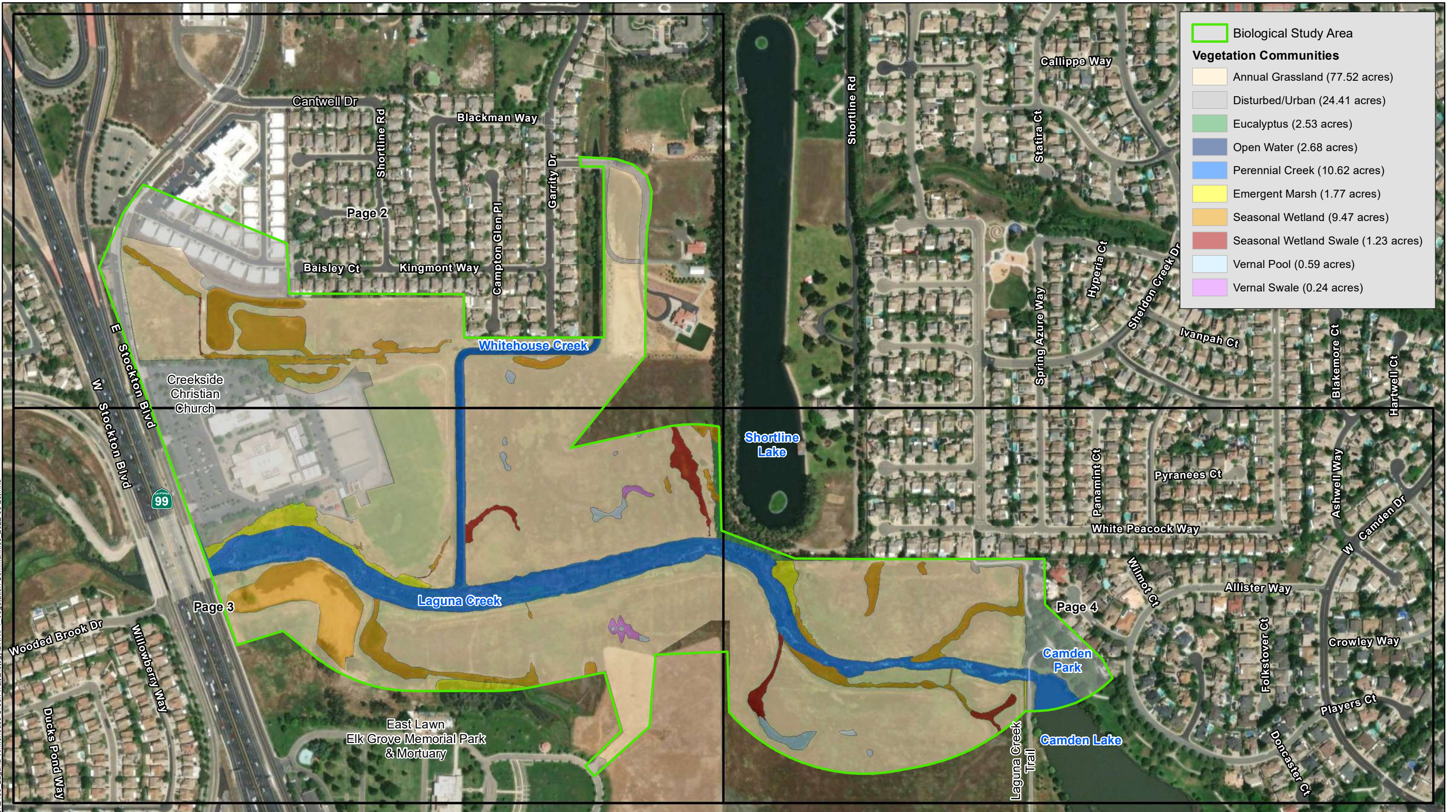
Prior to field surveys, a Biological Study Area (BSA) was defined as the ~~proposed~~ Project impact area and a 250-foot buffer from the existing City floodway easement, where feasible, to accommodate the design and facilitate construction. The Project impact area is defined as all areas that will be temporarily or permanently impacted by the Project, including ~~proposed~~ right of way, construction easements, cut and fill limits, potential staging areas, and access roads. The BSA encompasses approximately 132 acres and includes approximately 4,000 linear feet of Laguna Creek from East Stockton Boulevard to Camden Lake. The BSA is approximately 4,300 feet (0.8 miles) from east to west and approximately 1,700 feet (0.33 miles) from north to south.

Online databases from USFWS, CDFW California Natural Diversity Database (CNDDDB), California Native Plant Society (CNPS), and NMFS were queried for presence of potential threatened, endangered, rare or special status species within USGS 7.5-minute quadrangles. These searches identified 51 regional species of special concern with potential to occur in the vicinity of the Project area. After biological surveys were conducted, each species' specific habitat requirements were compared to actual site conditions and the potential for occurrence was then determined. Raw data returned from the database queries is provided in the Biological Resources Report in **Appendix B**.

General biological surveys and habitat assessments were conducted by Dokken Engineering biologists, Andrew Dellas and Scott Salembier on April 4, 2018. Jurisdictional delineations were conducted by Dokken Engineering biologists, Andrew Dellas and Courtney Owens on April 24, 25 and 26, 2018 to identify jurisdictional resources present within the BSA. Previous to the current 2018 survey efforts, ECORP Consulting Inc. had performed a wetland delineation for the East Lawn Cemetery Expansion (2006-2007). These delineation results have since expired; however, the mapping efforts from the ECORP delineation were used as reference for aquatic feature locations. Focused rare plant surveys were conducted by Dokken Engineering biologists, Andrew Dellas and Courtney Owens on April 24, 25 and 26, 2018, as well as Andrew Dellas and Scott Salembier on June 21, 2018, during the appropriate blooming season for species determined to have potential to occur within the BSA.

Dominant land cover and vegetative communities within the BSA consist of disturbed/urban, annual grassland, eucalyptus, freshwater pond, perennial creeks, vernal pools, vernal swales, seasonal wetlands, seasonal wetland swales, and emergent marsh (**Figure 5**). Waters and Vegetation Communities within the BSA).

Hydrological resources within the BSA include Laguna Creek, Whitehouse Creek, and associated wetland features: vernal pools, vernal swales, seasonal wetlands, seasonal wetland swales, and emergent marsh. Laguna Creek and Whitehouse Creek are part of the Morrison Creek watershed, and Laguna Creek subwatershed, within the Lower Sacramento River Hydrologic Unit (HUC 6) (Caltrans 2018). Whitehouse Creek flows from east to west and has been redirected around residential developments north of the BSA. Whitehouse Creek then joins with Laguna Creek within the BSA approximately 0.25 miles east of East Stockton Boulevard. Laguna Creek flows east to west travelling approximately 4000 linear feet through the BSA from Camden Lake to East Stockton Boulevard. All wetland and water features were assessed for Federal and State jurisdiction.



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Source: ESRI World Street Maps Online; Dokken Engineering 8/25/2022; Created By: rramirez



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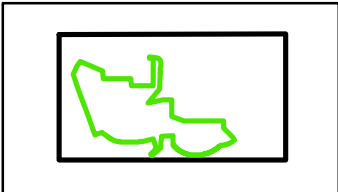


FIGURE 5
Vegetation Communities within the BSA
Page 1 of 4
Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
City of Elk Grove, California



V:\2435 - Laguna-Whitehouse Creek Trail\Biology\BRR\F4 - Vegetation Communities_2022-08-25.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 8/25/2022; Created By: rramirez

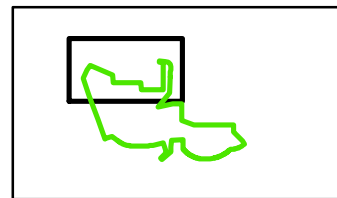
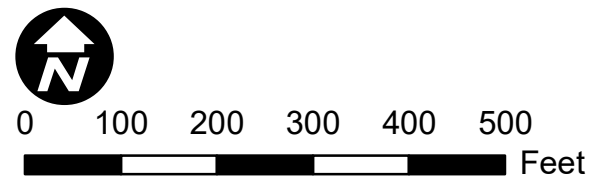


FIGURE 5
Vegetation Communities within the BSA
 Page 2 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California



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Source: ESRI World Street Maps Online; Dokken Engineering 8/25/2022; Created By: rramirez



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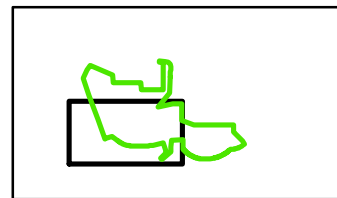


FIGURE 5
Vegetation Communities within the BSA
Page 3 of 4

Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
City of Elk Grove, California



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Source: ESRI World Street Maps Online; Dokken Engineering 8/25/2022; Created By: rramirez

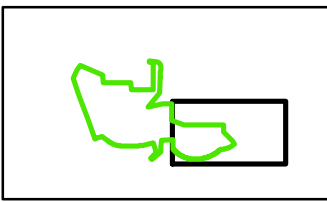
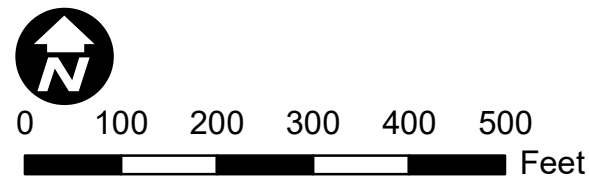


FIGURE 5
Vegetation Communities within the BSA
 Page 4 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California

- a) **Less Than Significant Impact with Mitigation.** The following is a discussion on special status plant and animal species that were determined to have the potential of occurring within the Project area, potential impacts, and avoidance, minimization, and mitigation measures that when incorporated will reduce impacts to a less than significant impact.

The USFWS, CDFW CNDDDB, CNPS, and NMFS database queries identified 51 species of special-status plant and wildlife species with potential to occur within the Project vicinity, 3 of which were identified as present within the Project area: Swainson's hawk (*Buteo swainsoni*), white-tailed kite (*Elanus leucurus*), and western pond turtle (*Emys marmorata*). Two species, burrowing owl (*Athene cunicularia*) and Sanford's arrowhead (*Sagittaria sanfordii*) were determined to have a high potential to occur with the BSA; while song sparrow "Modesto population" (*Melospiza melodia*), tricolored blackbird (*Agelaius tricolor*), yellow-headed blackbird (*Xanthocephalus xanthocephalus*), vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardii*), Boggs Lake hedge-hyssop (*Gratiola heterosepala*), dwarf downingia (*Downingia pusilla*), legenere (*Legenere limosa*), woolly rose-mallow (*Hibiscus lasiocarpus* var. *occidentalis*), giant garter snake (*Thamnophis gigas*), and western spadefoot (*Spea hammondi*) were determined to have a low to moderate potential of occurring within the BSA (see Biological Resources Report in **Appendix B** for database results and species potential table).

Special-Status Plants

Preliminary literature research was conducted to determine the special status plant species with the potential to occur in the vicinity of the Project. A review of CNDDDB, CNPS and online databases concluded that 23 special status plant species had the potential to occur within the BSA. Based on further research, aerial reconnaissance, and field surveys of habitat conditions within the BSA, it was determined that 5 special status plant species had a low to high potential to occur within the BSA: Boggs Lake hedge-hyssop (*Gratiola heterosepala*), dwarf downingia (*Downingia pusilla*), legenere (*Legenere limosa*), Sanford's arrowhead (*Sagittaria sanfordii*), and woolly rose-mallow (*Hibiscus lasiocarpus* var. *occidentalis*). Rare plant surveys were conducted April 24, 2018 through April 26, 2018 by Dokken biologists Andrew Dellas and Courtney Owens, and June 21, 2018 by Dokken Engineering biologists Andrew Dellas and Scott Salembier. Rare plant surveys included habitat assessments, and focused surveys for special status plant species. No special status plant species were identified during the survey efforts.

DISCUSSION OF SENSITIVE PLANT SPECIES

Boggs Lake hedge-hyssop

Boggs Lake hedge-hyssop (*Gratiola heterosepala*) is not a state or federal listed species but is a CNPS rare plant rank 1B.2. Boggs Lake hedge-hyssop is an annual herb inhabiting clay soils and shallow waters of marshes and swamps, lake margins, and vernal pools. The species flowers from April-August at elevations ranging from 33-7,792 feet.

Dwarf downingia

Dwarf downingia (*Downingia pusilla*) is not a state or federal listed species, but is a CNPS rare plant rank 2B.2. Dwarf downingia is an annual herb inhabiting vernal pools and mesic valley and foothill grassland communities. The species flowers from March-May at elevations ranging from 3-1,460 feet.

Legenere

Legenere (*Legenere limosa*) is not a state or federal listed species, but is a CNPS rare plant rank 1B.1. Legenere is an annual herb inhabiting wet areas, vernal pools, and ponds. The species flowers from May-June at elevations ranging from 0-2,887 feet.

Sanford's arrowhead

Sanford's arrowhead (*Sagittaria sanfordii*) is not a state or federal listed species, but is a CNPS rare plant rank 1B.2. Sanford's arrowhead is a perennial rhizomatous herb inhabiting freshwater marshes, swamps, ponds and ditches. The species flowers from May-October at elevations ranging from 0-2,132 feet.

Woolly rose-mallow

Woolly rose-mallow (*Hibiscus lasiocarpus var. occidentalis*) is not a state or federal listed species but is a CNPS rare plant rank 1B.2. Woolly rose-mallow is a perennial rhizomatous herb inhabiting freshwater wetlands, wet banks, and marsh communities, and is often found in-between riprap on levees. The species flowers from June-September at elevations ranging from 0-394 feet.

PROJECT IMPACTS TO SPECIAL STATUS PLANTS

Boggs Lake hedge-hyssop

The BSA does contain potentially suitable shallow water and vernal pool habitat. The nearest presumed extant occurrence is approximately 3 miles from the BSA. Due to the presence of potentially suitable habitat and the proximity to the extant occurrence the species has a low to moderate potential to occur within the BSA. No observations of the species were recorded during the focused rare plant surveys on April 24-April 26, 2018 and June 21, 2018. Pursuant to the recommendations in the Protocols for Surveying and Evaluating Impacts to Species Status Native Plant Populations and Natural Communities, a single season of negative surveys is not sufficient to determine absence of a species. A second round of rare plant surveys will be conducted during the bloom period prior to construction as described in measure **BIO-5**. With the inclusion of measure **BIO-5** below, no direct impacts to the species are anticipated.

Dwarf downingia

The BSA does contain potentially suitable vernal pool habitat. The nearest presumed extant occurrence is approximately 2 miles from the BSA. Due to the presence of potentially suitable habitat and the proximity to the extant occurrences the species has a low to moderate potential to occur within the BSA. No observations of the species were recorded during the focused rare plant surveys on April 24-April 26, 2018 and June 21, 2018. Pursuant to the recommendations in the Protocols for Surveying and Evaluating Impacts to Species Status Native Plant Populations and Natural Communities, a single season of negative surveys is not sufficient to determine absence of a species. A second round of rare plant surveys will be conducted during the bloom period prior to construction as described in measure **BIO-5**. With the inclusion of measure **BIO-5** below, no direct impacts to the species are anticipated.

Legenere

The BSA does contain potentially suitable wet areas and vernal pool habitat. The nearest presumed extant occurrence is approximately 1.5 miles from the BSA. Due to the presence of potentially suitable habitat and the proximity to the presumed extant occurrences the species has a low to moderate potential to occur within the BSA. No observations of the species were recorded during the focused rare plant surveys on April 24-April 26, 2018 and June 21, 2018. Pursuant to the recommendations in the Protocols for Surveying and Evaluating Impacts to Species Status Native Plant Populations and Natural Communities, a single season of negative surveys is not sufficient to determine absence of a species. A second round of rare plant surveys will be

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conducted during the bloom period prior to construction as described in measure **BIO-5**. With the inclusion of measure **BIO-5** below, no direct impacts to the species are anticipated.

Sanford's arrowhead

The BSA does contain potentially suitable freshwater marsh and creek channels. The nearest presumed extant occurrence of the species is approximately 1 mile from the BSA. Due to the presence of potentially suitable habitat and the proximity to CNDDDB presumed extant occurrences, the species is considered to have a high potential to occur within the BSA. No observations of the species were recorded during the focused rare plant surveys on April 24-April 26, 2018 and June 21, 2018. Pursuant to the recommendations in the Protocols for Surveying and Evaluating Impacts to Species Status Native Plant Populations and Natural Communities, a single season of negative surveys is not sufficient to determine absence of a species. A second round of rare plant surveys will be conducted during the bloom period prior to construction as described in measure **BIO-5**. With the inclusion of measure **BIO-5** below, no direct impacts to the species are anticipated.

Woolly rose-mallow

The BSA does contain potentially suitable freshwater wetlands and marsh communities. The nearest presumed extant occurrence is within approximately 5 miles of the BSA. Due to the presence of potentially suitable habitat and the distance to extant occurrences, the species is considered to have a low to moderate potential to occur within the BSA. No observations of the species were recorded during the focused rare plant surveys on April 24-April 26, 2018, and June 21, 2018. Pursuant to the recommendations in the Protocols for Surveying and Evaluating Impacts to Species Status Native Plant Populations and Natural Communities, a single season of negative surveys is not sufficient to determine absence of a species. A second round of rare plant surveys will be conducted during the bloom period prior to construction as described in measure **BIO-5**. With the inclusion of measure **BIO-5**, no direct impacts to the species are anticipated.

BIO-5: A focused rare plant survey shall be conducted during the blooming season of each special status plant species with potential to occur within the Project area prior to the start of construction (Boggs Lake hedge-hyssop, dwarf downingia, legenera, Sanford's arrowhead, and woolly rose-mallow). If rare plants are discovered during these surveys, additional ESA fencing or relocation shall be implemented to avoid and minimize impact to the species. Consultation with CDFW may be required to determine appropriate buffer distances and/or relocation of species populations.

In addition, the following protective measures will be included in the Project plans to ensure that invasive species are not introduced or spread:

BIO-25: Prior to arrival at the Project site and prior to leaving the Project site, construction equipment that may contain invasive plants and/or seeds shall be cleaned to reduce the spreading of noxious weeds.

BIO-26: All hydro seed and plant mixes shall consist of a biologist approved seed mix.

Special-Status Wildlife

Preliminary literature research was conducted to determine the special status wildlife species with the potential to occur in the vicinity of the Project. A review of CNDDDB, USFWS, and NOAA Fisheries online databases concluded that 28 special status wildlife species had the potential to occur within the Project vicinity. Analysis of specific habitat requirements and current and historical occurrences determined the BSA was potentially suitable for following species:

- Swainson's hawk (*Buteo swainsoni*),
- white-tailed kite (*Elanus leucurus*),
- burrowing owl (*Athene cunicularia*),
- song sparrow "Modesto population" (*Melospiza melodia*),
- tricolored blackbird (*Agelaius tricolor*),
- yellow-headed blackbird (*Xanthocephalus xanthocephalus*),
- vernal pool fairy shrimp (*Branchinecta lynchi*),
- vernal pool tadpole shrimp (*Lepidurus packardii*),
- giant garter snake (*Thamnophis gigas*),
- western pond turtle (*Emys marmorata*), and
- western spadefoot (*Spea hammondi*).

Field surveys conducted April 4, 2018 and April 24 – April 26, 2018 by Dokken Engineering biologist Andrew Dellas, Scott Salembier, and Courtney Owens, included habitat assessments, and focused surveys for special status wildlife species. Swainson's hawk, white-tailed kite, and western pond turtle were observed during the field surveys and are considered present within the BSA. No other special status species were observed during the field surveys but are still considered to have the potential of occurring within the BSA based on the presence of potentially suitable habitat and recently documented regional occurrences.

DISCUSSION OF SPECIAL STATUS WILDLIFE

Swainson's Hawk

Swainson's hawk is a state-listed threatened species. Swainson's hawk migrates annually from wintering areas in South America to breeding locations in northwestern Canada, the western U.S., and Mexico. In California, Swainson's hawks nest throughout the Sacramento Valley in large trees in riparian habitats and in isolated trees in or adjacent to agricultural fields. The breeding season extends from late March through late August, with peak activity from late May through July (England et al. 1997). In the Sacramento Valley, Swainson's hawks forage in large, open agricultural habitats, including alfalfa and hay fields (CDFW 1994). The breeding population in California has declined since 1900; this decline is attributed to the loss of riparian nesting habitats and the conversion of native grassland and woodland habitats to agriculture and urban development (CDFW 1994).

The BSA does have suitable foraging and nesting habitat for the species. The species was observed foraging within the BSA during the April 4, 2018 biological survey. Due to the presence of suitable foraging within the BSA and nesting habitat adjacent the BSA, and the observance of the species during the biological survey, the species is considered present within the BSA.

White-tailed Hawk

White-tailed kite is a fully protected species under CFG Code Section 3511. The species has a restricted distribution in the U.S., occurring only in California and western Oregon and along the Texas coast (American Ornithologists' Union 1983). The species is fairly common in California's Central Valley margins with scattered oaks and river bottomlands. White-tailed kites nest in riparian and oak woodlands and forage in nearby grasslands, pastures, agricultural fields, and wetlands. They use nearby treetops for perching and nesting sites. Voles and mice are common prey species.

There is suitable foraging habitat within the BSA and suitable nesting habitat adjacent the BSA for the species. The species was observed foraging within the BSA during the April 4, 2018 biological survey. Due to the presence of suitable foraging and nesting habitat, and the observance of the species during the biological survey, the species is considered present within the BSA.

Burrowing Owl

The burrowing owl is not a state or federally listed species, but is a CDFW Species of Special Concern. The burrowing owl inhabits arid, open areas with sparse vegetation cover such as deserts, abandoned agricultural areas, grasslands, and disturbed open habitats. The species requires friable soils for burrow construction and prefers areas on bare, well drained, level to sloping sites. Typically, the species occupies old small mammal burrows, but has been known to utilize pipes, culverts and nest boxes when preferred burrows are absent. Burrowing owls may use a site for breeding, wintering, foraging, and/or migration stopovers. Breeding season takes place from February 1 to August 31 and wintering takes place from September 1 to January 31 (CDFW 2012). The burrowing owl is a year-round species of California and occurs throughout the state up to 5,300 feet where appropriate habitat occurs (Zeiner 1988-1990, CNDDDB 2018).

The BSA does contain potential suitable habitat for the species, and mammal burrows were observed during the April 4, 2018, biological surveys; however, no burrowing owl were observed within the BSA. The nearest recent occurrence is approximately 0.5 mile from the BSA. The species is considered to have a high potential of occurring within the BSA due to the presence of suitable habitat and close proximity to recent occurrences.

Emergent Wetland Nesting Songbirds

Song sparrow ("Modesto" population)

The song sparrow is not a state or federally listed species, but is a CDFW Species of Special Concern. The ecological requirements of the species are largely undescribed, but the species is known to have an affinity for emergent freshwater marshes dominated by tules and cattails (Grinnell and Miller 1944). Marshall (1948) described the primary habitat requirements of several subspecies of Song Sparrow in California as being moderately dense vegetation to supply cover for nest sites, a source of standing or running water, semi-open canopies to allow light, and exposed ground or leaf litter for foraging. Habitat loss, fragmentation, and degradation are the primary threats to the species. Nesting season for the species usually begins in April, and most nesters in California are nonmigratory, with other migrants coming from the north (Shuford and Gardali 2008).

Song sparrow "Modesto" population was not observed during the biological surveys; however, the BSA does contain potential suitable habitat for the species, including fresh emergent wetland areas within and adjacent to Laguna Creek. These habitats are moderately dense and are dominated by tules and cattails, which the species is known to inhabit for nesting and foraging. The nearest recent occurrence is approximately 5 miles from the BSA within the Stone Lakes

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National Wildlife Refuge. Due to the presence of potentially suitable nesting and foraging habitat and the proximity to known extant occurrences, the species is considered to have a low to moderate potential to occur within the BSA.

Tricolored blackbird

The tricolored blackbird is not a federally listed species but is listed as a CDFW Candidate Endangered Species. Projects are expected to consider candidate species as if they are listed (as endangered in this case). This species typically nests in freshwater marsh or other areas with dense, emergent vegetation such as dense cattails or tules, thickets of blackberry and willow. However, when preferred nesting is not available the species has been known to nest in grain (triticale), fiddleneck, thistles etc. (University of California Davis 2015, Meese 2008). Most tricolored blackbirds forage within 3 miles of their colony sites and require some source of water in proximity to their colony location. Preferred foraging habitats include crops such as rice, alfalfa, irrigated pastures, and ripening or cut grain fields, as well as annual grasslands, cattle feedlots, and dairies. The species may also forage in remnant native habitats, including wet and dry vernal pools and other seasonal wetlands, riparian scrub habitats, and open marsh borders (Shuford and Gardali 2008).

Tricolored blackbird was not observed during the biological surveys; however, the BSA does contain potentially suitable nesting and foraging habitat. There are 6 presumed extant occurrences of the species within 5 miles of the BSA. Due to the presence of suitable nesting and foraging habitat and the number of local extant occurrences, the species is considered to have a low to moderate potential to occur within the BSA.

Yellow-headed blackbird

The yellow-headed blackbird is not a federal or state listed species but is a CDFW Species of Special Concern. Yellow-headed blackbird tend to nest and roost in dense emergent vegetation, feeding primarily on seeds and cultivated grains, while eating insects through the breeding season. Nesting occurs in dense wetlands of cattails and tules, and timed to coincide with maximum emergence of aquatic insects. Breeding season typically lasts from mid-April to late July. The species occurs throughout the Central Valley during breeding season and migrates south during the winter months.

Yellow-headed blackbird was not observed during the biological surveys; however, The BSA does contain potentially suitable nesting and foraging habitat; however, the BSA does contain potential suitable habitat for the species, including fresh emergent wetland areas within and adjacent to Laguna Creek. These habitats are moderately dense and are dominated by tules and cattails, which the species is known to inhabit for nesting and foraging. The nearest recent occurrence is approximately 6 miles from the BSA within the Stone Lakes National Wildlife Refuge. Due to the presence of potentially suitable nesting and foraging habitat and the proximity to known extant occurrences, the species is considered to have a low to moderate potential to occur within the BSA.

Vernal Pool Crustaceans

Vernal Pool Fairy Shrimp

Vernal pool fairy shrimp (*Branchinecta lynchi*) is a federal-listed threatened species. This species occupies a variety of different vernal pool habitats, from small, clear, sandstone rock pools to large, turbid, and alkaline grassland valley floor pools. In California, species inhabit portions of Tehama County, south through the Central Valley, and scattered locations in Riverside County and the Coast Ranges. The species is associated with smaller and shallower cool-water vernal pools approximately 6 inches deep which experience short periods of inundation. In the

3.0 INITIAL STUDY CHECKLIST

southernmost extremes of the range, the species occurs in large, deep cool-water pools. Inhabited pools have low to moderate levels of alkalinity and total dissolved solids. The shrimp are temperature sensitive, requiring pools below 50 degrees Fahrenheit (F) to hatch and dying within pools reaching 75 degrees F. Young emerge during cold-weather winter storms.

Vernal Pool Tadpole Shrimp

Vernal pool tadpole shrimp (*Lepidurus packardii*) is a federal-listed endangered species. This species inhabits a variety of vernal pools or other seasonally ponded habitats and emerges soon after these habitats become inundated, typically after the first several storm events of the fall/winter season. The shrimp feeds on microscopic organisms and detritus, reaches maturity, and lays eggs for the next wet season. Vernal pool tadpole shrimp are found in the Central Valley from Shasta County to northern Tulare County, and in the central Coast Range from Solano County to Alameda County (USFWS 2005).

The BSA does contain potentially suitable vernal pool habitat for vernal pool fairy shrimp and vernal pool tadpole shrimp. The nearest presumed extant occurrence of the species is approximately 4 miles from the BSA. A protocol level survey (ECORP 2007) was conducted and found no federally-listed crustaceans were found to occur in any of the pools within the BSA. However, two Biological Opinions issued from USFWS for projects which are directly adjacent the BSA (Laguna Creek Trail – Camden Spur North and South, 2015; and East Lawn Expansion Project, 2012), concurred that even though no federally-listed crustaceans were found, the projects may affect, but are not likely to adversely affect fairy shrimp or tadpole shrimp. Due to the presence of potentially suitable habitat and the distance to known extant occurrences, the species is considered to have a low to moderate potential to occur within the BSA, and a Biological Assessment will be prepared for informal consultation of potential impacts during the Section 404 permitting process through USACE federal nexus.

Western Pond Turtle

The western pond turtle (WPT) is not a State or Federally listed species, but is a CDFW Species of Special Concern. WPTs are native to the west coast and are found from Baja California, Mexico north through Klickitat County, Washington. The WPT is a fully aquatic turtle, inhabiting ponds, marshes, rivers, streams and irrigation ditches with aquatic vegetation. The species requires suitable basking sites such as logs, rocks and exposed banks and associated upland habitat consisting of sandy banks or grassy open fields for reproduction. The species is omnivorous, consuming aquatic wildlife and vegetation. The WPT is known to hibernate underwater beneath a muddy bottom in colder climates, and reproduce from March to August (Zeiner 1990). Nests are generally found in flat areas with low vegetation and dry, hard soil.

The BSA does contain suitable aquatic and upland habitat for the species. The species was observed during the April 24-26, 2018 jurisdictional delineation, at the confluence of Whitehouse Creek and Laguna Creek. Due to the presence of suitable habitat and the observation of the species during the jurisdictional delineation, the species is considered present within the BSA.

Western Spadefoot

The western spadefoot is not a state or federally listed species, but is a CDFW Species of Special Concern. In California, the species is distributed throughout the Central Valley; along the Coast Ranges in Monterey, San Luis Obispo, and Santa Barbara counties; and in Southern California south of the Transverse Mountains and west of the Peninsular Mountains. Western spadefoot inhabits woodlands and grasslands and is almost entirely terrestrial, only entering water to breed in vernal pools January through May after which the female deposits eggs on emergent vegetation before returning to land. Their diet consists of a variety of insects and earthworms. Western

3.0 INITIAL STUDY CHECKLIST

spadefoot estivate through the dry season underground and remain dormant until winter rains soften soils and refill vernal pools (CDFW 2018b).

The BSA does contain potentially suitable upland estivation, and aquatic vernal pool habitat for the species. The nearest presumed extant occurrence of the species is approximately 10 miles from the BSA. Due to the presence of potentially suitable habitat and the distance to local presumed extant occurrences, the species is considered to have a low to moderate potential to occur within the BSA.

Giant Garter Snake

GGs is a federally listed threatened species. GGS is one of the largest garter snakes and is endemic to the wetlands within the Sacramento and San Joaquin valleys. GGS inhabits marshes, sloughs, ponds, small lakes, low gradient streams, and other waterways and agricultural wetlands, such as irrigation and drainage canals and rice fields, and the adjacent uplands (USFWS 2017). GGS feed on small aquatic animals such as fish, tadpoles, and frogs. Essential habitat components for GGS consist of: Wetlands with adequate water during the snake's active season (early-spring through mid-fall) to provide food and cover; emergent herbaceous wetland vegetation, such as cattails and bulrushes, for escape cover and foraging habitat during the active season; upland habitat with grassy banks and openings in waterside vegetation for basking; and higher elevation uplands for escape cover (vegetation, burrows) and underground refugia (crevices and small mammal burrows) (Hanson 1980). The GGS breeding season extends through March and April, and females give birth to live young from late July through early September (Hansen and Hansen 1990). At birth, young disperse into dense cover and typically double in size by one year of age, while sexual maturity average three years in males and five years for females. According to studies of marked snakes in the Natomas Basin, snakes moved about 0.25-0.5 miles per day (Hansen and Brode 1993). GGS typically inhabit small mammal burrows for winter dormancy, escape and cover, and also as refuge from extreme heat during their active period. Burrows are typically close to wetland or water sources; however, GGS have been documented using burrows as far as 820 feet from the edge of marsh habitat.

The BSA does contain potentially suitable permanent aquatic habitat, emergent vegetation, and upland habitat for the species. The closest known occurrence of the species along Laguna Creek is approximately 1 mile west of the BSA (1987). However, this occurrence is characterized as possibly extirpated. The nearest presumed extant occurrence is approximately 4.3 miles west of the BSA, and is separated from the BSA by high density development. Additionally, a Biological Opinion issued from USFWS on a project located directly adjacent to the BSA (Laguna Creek Trail – Camden Spur North and South, 2015), concurred that due to heavy residential development the project is not likely to adversely affect the snake. Due to the presence of potentially suitable habitat and the distance to known extant occurrences, the species is considered to have a low to moderate potential to occur within the BSA, and a Biological Assessment will be prepared for informal consultation of potential impacts to aquatic and upland habitats during the Section 404 permitting process through USACE federal nexus.

PROJECT IMPACTS TO SPECIAL STATUS WILDLIFE

Swainson's Hawk

The Project will permanently remove approximately 6.2 acres of Swainson's hawk valley grassland foraging habitat. However, no trees with current or historic nesting Swainson's hawk sites were observed during the surveys and the only large diameter trees within the BSA would not be impacted by the Project. Further, the Project's proposed pre-construction nesting surveys would ensure no Swainson's hawk nesting trees would be removed during construction; therefore, no impacts to nesting Swainson's hawk are anticipated.

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Protocol level surveys will be conducted during the appropriate seasons prior to construction to determine presence/absence of the species. Swainson's hawk surveys will be consistent with the *Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley*, developed by the Swainson's Hawk Technical Advisory Committee (SHTAC 2000). For anticipated impacts to Swainson's hawk foraging habitat, the City will compensate for the loss of habitat pursuant Chapter 16.130 of the City Municipal Code.

With the incorporation of avoidance, minimization and mitigation measures **BIO-6** and **BIO-7**, direct impacts to Swainson's hawk are not anticipated and the Project will not result in take of Swainson's hawk. If nesting raptors or Swainson's hawks nesting within the Project area are observed during the protocol surveys, consultation with the appropriate wildlife agencies will occur, and the necessary buffers will be established. With the avoidance of take, the Project does not anticipate that a CDFW Section 2081 Incidental Take Permit (ITP) for Swainson's hawk will be necessary.

BIO-6: Should work occur within the Swainson's hawk nesting season (February 1st-August 31st), the Project biologist must conduct a pre-construction nesting survey consistent with survey methods recommended by the Swainson's Hawk Technical Advisory Committee within ¼ mile of the Project and two weeks prior to construction clearing and grubbing activities. Should a nesting Swainson's hawk pair be found within ¼ mile of the Project, the Project biologist will consult with the wildlife agencies for appropriate buffers. The contractor shall not work within the 1/2-mile nesting area until the appropriate buffer is established and is prohibited from conducting work that could disturb the birds (as determined by the Project biologist and in consultation with wildlife agencies) in the buffer area until the Project biologist determines the young have fledged.

BIO-7: Valley grasslands in the Project area are considered Swainson's hawk foraging habitat and are protected under Chapter 16.130 of the City Municipal Code, Swainson's Hawk Impact Mitigation Fees. The City shall mitigate for the permanent loss of Swainson's hawk foraging habitat at a 1:1 ratio. Mitigation can be accomplished through participation in the City of Elk Grove Swainson's Hawk Impact Mitigation Fees Ordinance, other method acceptable to the California Department of Fish and Wildlife, or other method acceptable to the Elk Grove City Council pursuant to section 16.130.110.

White-tailed Hawk

The Project will permanently remove approximately 6.2 acres of white-tailed kite valley grassland foraging habitat. However, no trees with current or historic nesting white-tailed kite nesting sites were observed during the surveys and the only potentially suitable nesting trees within the BSA would not be impacted by the Project. Further, the Project's ~~proposed~~ pre-construction nesting surveys (**BIO-8**) would ensure no white-tailed kite nesting trees would be removed during construction; therefore, no impacts to white-tailed kite are anticipated.

With the implementation of the nesting bird survey avoidance and minimization measure **BIO-8**, direct impacts to white-tailed kite are not anticipated. White-tailed kite and Swainson's hawk share foraging habitats and it is anticipated that mitigation for Swainson's hawk valley grassland foraging habitat, as stated in mitigation measure **BIO-7**, will mitigate for the loss of white-tailed kite habitat. Compensatory mitigation specific to this species is not required or proposed at this time.

3.0 INITIAL STUDY CHECKLIST

BIO-8: Vegetation removal or earthwork shall be minimized during the nesting season (February 1st – August 31st). If vegetation removal is required during the nesting season (February 1st – August 31st), a pre-construction nesting bird survey must be conducted within 7 days prior to vegetation removal. Within 2 weeks of the nesting bird survey, all vegetation cleared by the biologist will be removed by the contractor.

A minimum 100-foot no-disturbance buffer shall be established around any active nest of migratory birds and a minimum 300-foot no-disturbance buffer shall be established around any nesting raptor species. The contractor must immediately stop work in the buffer area until the appropriate buffer is established and is prohibited from conducting work that could disturb the birds (as determined by the Project biologist and in consultation with wildlife agencies) in the buffer area until a qualified biologist determines the young have fledged. A reduced buffer can be established if determined appropriate by the Project biologist and approved by CDFW.

Burrowing Owl

The Project will permanently remove approximately 6.2 acres of burrowing owl valley grassland foraging and nesting habitat. However, no current or historic burrowing owl nesting sites were observed during the surveys. The BSA does contain mammal burrows which are also potentially suitable for burrowing owls.

With the implementation of species-specific avoidance and minimization measure **BIO-8** and **BIO-9**, direct impacts to burrowing owls are not anticipated. Burrowing owl and Swainson's hawk share foraging habitats and it is anticipated that mitigation for Swainson's hawk valley grassland foraging habitat, as stated in mitigation measure **BIO-7**, will mitigate for the loss of burrowing owl foraging and nesting habitat. If burrowing owls are observed during the preconstruction surveys, consultation and potential compensatory mitigation will be determined through consultation with CDFW. Compensatory mitigation specific to this species is not required or proposed at this time.

BIO-9: The Project biologist must conduct preconstruction surveys consistent with the 2012 CDFW Staff Report on Burrowing Owl Mitigation. If no burrowing owls are detected, no further action for burrowing owl will be required. If burrowing owls are observed during the preconstruction surveys, consultation with CDFW shall be required to determine appropriate no-work buffer distances, avoidance strategies and/or mitigation for impacted nest sites.

Emergent Wetland Nesting Songbirds

The ~~proposed~~ Project would construct a multi-functional access path and new bridges along the Project alignment. The Project is not anticipated to impact emergent marsh habitat. Additionally, the Project is anticipated to permanently impact approximately 1.84 acres and temporarily impact 1.71 acres of seasonal wetland habitat. These areas are potentially suitable foraging and nesting habitat for the song sparrow "Modesto" population, tricolored blackbird and yellow-headed blackbird. With the implementation of Project minimization and avoidance measures, use of Standard BMPs, ~~proposed~~ compensatory mitigation for impacts to jurisdictional waters, the Project will not result in take of listed or non-listed special status emergent wetland nesting songbirds. With the avoidance of take, the Project does not anticipate that a CDFW Section 2081 ITP for listed or non-listed emergent wetland nesting songbirds will be necessary.

Avoidance and minimization measures **BIO-1** through **BIO-4** would avoid and minimize for impacts to wetland foraging/nesting habitat, and **BIO-8** would avoid any direct impact to individuals or nests of the species. With the implementation of site-specific avoidance and minimization measure **BIO-1** through **BIO-4**, and **BIO-8**, direct impacts to emergent wetland

3.0 INITIAL STUDY CHECKLIST

nesting songbirds is not anticipated. Emergent wetland nesting songbirds and GGS share many habitats and it is anticipated that mitigation for jurisdictional waters and GGS habitat will mitigate for the loss of emergent wetland nesting songbird's habitat. Compensatory mitigation specific to these species is not required or proposed at this time.

BIO-1: Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters shall be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not further encroach into waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed (same as **WQ-3**).

BIO-2: Contract specifications will include the following BMPs, where applicable, to reduce erosion during construction (same as **WQ-4**):

- Implementation of the Project shall require approval of a site-specific Storm Water Pollution Prevention Plan (SWPPP) or Water Pollution Control Program (WPCP) that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;
- Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented;
- Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities;
- Roughening and/or terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed.
- Soil exposure shall be minimized through the use of temporary BMPs, groundcover, and stabilization measures;
- The contractor shall conduct periodic maintenance of erosion- and sediment-control measures.

BIO-3: To conform to water quality requirements, the Project shall implement the following:

- Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants shall be a minimum of 100 feet from surface waters. Any necessary equipment washing shall occur where the water cannot flow into surface waters. The Project specifications shall require the contractor to operate under an approved spill prevention and clean-up plan;
- Construction equipment shall not be operated in flowing water;
- Construction work shall be conducted according to site-specific construction plans that minimize the potential for sediment input to waters of the U.S. and State;
- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters;
- Equipment used in and around surface waters shall be in good working order and free of dripping or leaking contaminants; and,
- Any surplus concrete rubble, asphalt, or other debris from construction shall be taken to an approved disposal site.

BIO-4: All temporarily disturbed areas shall be restored onsite to pre-Project conditions or better prior to Project completion. Where possible, vegetation shall be trimmed rather than fully removed with the guidance of the Project biologist.

Vernal Pool Crustaceans

The vernal pool fairy shrimp and vernal pool tadpole shrimp have been grouped together for the purpose of this impact analysis.

Unsuitable Habitats

Seasonal wetlands and seasonal wetland swales at the northwestern terminus of the BSA (SW-19, SW-15, SW-14, and SWS-5) are noted as detention basins, used as catchments of nuisance irrigation waters and stormwater retention areas for the housing and assisted living developments to the north, and Creekside Christian Church to the south. These areas are highly modified unnatural areas and deliver deleterious chemicals (pesticides, herbicides, and residues) in nuisance irrigation and stormwater runoff into these aquatic resources. Petroleum products, pesticides, herbicides, and other chemicals can be conveyed into the habitats by overland runoff during the rainy season, thereby adversely affecting water quality and altering the water chemistry (e.g., pH), which may make conditions unsuitable for vernal pool crustaceans (USFWS 2007a [Johnson 2005; C. Johnson 2007; Weston et al., 2005; Weston et al. 2006]). Additionally, years of contamination can also lead to highly toxic levels in sediments in addition to annual degradation of water quality (USFWS 2007b [Weston et al. 2004; Amweg et al. 2005]). Furthermore, as stormwater detention areas, these aquatic resources have unsuitable deep waters (approximately 1.5 to 3-feet deep) and inundation periods are longer, increasing temperatures unsuitable to hatching and persistence of the species (USFWS 2007). Therefore, these seasonal wetland features are considered unsuitable habitats for vernal pool crustaceans, and the species are presumed absent from these features.

In addition, SW-11, SW-12, SW-13, SWS-6, SW-8, SW-7, and SWS-4 have water regime fluctuations and flow patterns to and from Laguna Creek and Whitehouse Creek, and therefore, would not provide suitable inundation periods for either vernal pool crustacean species, as well as the potential for increased predation and increased temperatures from perennial creek waters. Therefore, these seasonal wetland features are also considered unsuitable habitats for vernal pool crustaceans, and the species are presumed absent from these features.

The ~~proposed~~ Project has been designed to avoid all permanent and temporary effects to suitable vernal pool crustacean habitat. However, changes to hydrology due to the increase in impervious surfaces may have indirect impacts to hydrology or biological quality in the suitable habitats. In order to minimize changes to hydrology within the Project area, the Project has been designed with water catchment ditches at the bottom of the berms of the multi-functional corridor. These catchment ditches would minimize and avoid changes of increased runoff reaching adjacent suitable habitats and reduce the potential for changes in hydrology or degradation of water quality.

Though hydrology and water quality of suitable habitats are not anticipated to change due to the ~~proposed~~ Project, grading and other soil disturbance in uplands adjacent to these habitats could result in increased sedimentation from dust movement and/or introduction of invasive plant species, thereby reducing the quality of the habitats. The Project is anticipated to have a total of approximately 0.72 acres of indirect effects to potentially suitable vernal pool invertebrate habitat due to grading and construction activities within 250-feet of suitable habitats

Avoidance and minimization measures **BIO-1** through **BIO-4** would avoid and minimize impacts to habitats. In addition to any measures pursuant the Project's permitting requirements, avoidance and minimization measures **BIO-10** and **BIO-11** shall be implemented as part of the Project to further avoid and minimize impacts to potentially suitable vernal pool habitat. Measure **BIO-12** provides options to mitigate impacts on vernal pool crustaceans, including performing protocol-level surveys for vernal pool crustaceans, or assuming presence of threatened and endangered species. If special-status vernal pool species are found or presence is assumed, compensation

3.0 INITIAL STUDY CHECKLIST

is proposed consistent with the USACE *Programmatic Formal Endangered Species Act Consultation on Issuance of 404 Permits for Projects With Relatively Small Effects on Listed Vernal Pool Crustaceans Within the Jurisdiction of the Sacramento Field Office*, dated February 28, 1996. USACE will consult with the USFWS under Section 7 of FESA shall be initiated through federal nexus during USACE Section 404 permitting processes and impacted suitable habitat shall be mitigated for using an acceptable USACE bank credits or in-lie fee.

BIO-10: Protective silt fencing shall be installed between the adjacent vernal pool habitat and the construction area limits to prevent accidental disturbance during construction and to protect water quality within the aquatic habitat during construction.

BIO-11: A Worker Environmental Awareness Program (WEAP) shall be implemented to educate construction workers about the presence of sensitive habitat and special status plant and wildlife species near the Project area and to instruct them on proper avoidance measures.

BIO-12: The ~~proposed~~ Project shall mitigate for potential impacts to vernal pool crustaceans by conducting USFWS protocol-level surveys, or assuming presence of the species in the Project area. Protocol-level surveys for the vernal pool fairy shrimp and vernal pool tadpole shrimp shall occur in suitable habitats occurring in the ~~proposed~~ Project area and within 250 feet of adjacent suitable habitat. If vernal pool fairy shrimp or vernal pool tadpole shrimp are not detected during the protocol-level surveys and if the USFWS concurs that neither species is present, no further mitigation is required. If either of the species is detected during protocol-level surveys or the presence of the species is assumed in lieu of conducting surveys, and ~~proposed~~ activities will result in direct or indirect impacts to potential habitat, the following measures shall be implemented:

1. Formal consultation with the USFWS shall be initiated under Section 7 of the Endangered Species Act. No direct or indirect impacts to suitable habitat for these species shall occur until Incidental Take authorization has been obtained from the USFWS.
2. For every acre of habitat directly or indirectly affected, at least two vernal pool preservation credits shall be dedicated in a USFWS-approved ecosystem preservation bank (2:1 ratio). With USFWS approval, appropriate payment into an in-lieu fee fund or on-site preservation may be used to satisfy this measure.
3. For every acre of habitat directly affected, at least one vernal pool creation credit will be dedicated in a USFWS-approved habitat mitigation bank (1:1 ratio). With USFWS approval, appropriate payment into an in-lieu fee fund, on-site creation, or off-site creation may be used to satisfy this measure.

Western Pond Turtle

The ~~proposed~~ Project would construct a multi-functional access path and new bridges along the Project alignment. The Project is anticipated to permanently impact approximately 0.05 acres of aquatic habitat and approximately 3.72 acres of upland habitat. Additionally, the Project is anticipated to have temporary impacts to approximately 1.72 acres of aquatic habitat, and approximately 1.43 acres of upland habitat. With the implementation of the species-specific avoidance and minimization measures **BIO-13** and **BIO-14** identified below, no direct impacts to WPT are anticipated.

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- BIO-13:** To avoid impacts to western pond turtles, the Project biologist will conduct a pre-construction survey of the Laguna Creek, Whitehouse Creek, and adjacent banks and upland habitats within the Project area. Surveys shall be conducted no more than 24 hours prior to onset of construction. If a turtle is located within the construction area, a qualified biologist will capture the turtle and relocate it to an appropriate habitat a safe distance from the construction site.
- BIO-14:** If water pumps are used to dewater the Project Area, pump intakes shall be screened and equipped with an energy dissipater to protect aquatic species. The energy dissipater should be large enough to reduce approach velocity to 0.33 feet per second or less and be enclosed with ½ inch metal screen. The surface area of the energy dissipater shall be determined by dividing the maximum diverted flow, by the allowable approach velocity (example: 1.0 ft³ per second/ 0.33 feet per second = 3.0 ft² surface area).

Western Spadefoot

The proposed Project would construct a multi-functional access path and new bridges along the Project alignment. The Project is not anticipated to permanently impact potentially suitable vernal pool habitat. However, the Project does anticipate approximately 1.84 acres of permanent impacts to potentially suitable wetland habitat, and 3.72 acres of upland habitat. Additionally, the Project is anticipated to have temporary impacts to approximately 1.71 acres of wetland habitat, and approximately 1.43 acres of upland habitat. Furthermore, the Project may contribute to permanent indirect impacts to approximately 0.72 acres of potentially suitable vernal pool and seasonal wetland habitat due to changes in hydrology and/or biophysical conditions of these potentially suitable habitats. With the implementation of the species-specific avoidance and minimization measures **BIO-15** and **BIO-16** identified below, no direct impacts to western spadefoot are anticipated.

- BIO-15:** If suitable habitat for western spadefoot toad is to be removed from October through April, a qualified biologist shall conduct a preconstruction survey for this species within 50 feet of suitable habitat that is proposed to be impacted. The survey shall be conducted a maximum of one week prior to removal of suitable breeding habitat.

If no spadefoot toads are detected during the survey, no further measures are required. If this species is observed on-site, the biologist shall move it to suitable habitat in a safe location outside of the construction zone.

If western spadefoot toads are detected during the preconstruction survey, a qualified biologist shall be on-site during initiation of construction activities within 50 feet of suitable habitats and shall provide WEAP training to all personnel working within 50 feet of suitable habitats.

In the event that a western spadefoot toad is observed within an active construction zone, the contractor shall temporarily halt construction activities until a biologist has moved the toad to a safe location, within similar habitat, outside of the construction zone.

- BIO-16:** To allow western spadefoot and other subterranean wildlife enough time to escape initial clearing and grubbing activities, equipment used during initial clearing and grubbing in annual grassland or wetland habitats shall be operated at speeds no greater than 3 miles per hour.

Giant Garter Snake

The proposed Project is anticipated to result in direct temporary and permanent impacts to GGS habitat. Anticipated temporary effects to GGS would be due to disturbance of approximately 1.43 acres of upland habitat, and 1.72 acres of aquatic habitat. Temporary effects to upland habitat would include vegetation clearing, regrading, staging, access, and other construction activities. These activities are likely to remove vegetative cover and potential basking sites necessary for thermoregulation within the grassland areas adjacent to Laguna Creek and Whitehouse Creek. However, these upland habitats would only be temporarily affected and would be revegetated with native species as part of Project restoration requirements. Temporary effects to aquatic habitat would include access of construction equipment with marsh areas adjacent Laguna Creek, and within Whitehouse Creek. During the summer, Laguna Creek and Whitehouse Creek have low flows, and will be dewatered as needed by methods determined appropriate by the contractor and permitting agencies. It is anticipated that the contractor would use cofferdams and flexible pipe culverts to direct water away from construction activities.

The proposed Project would result in permanent effects to GGS due to the loss of approximately, 3.72 acres of upland habitat, and 0.05 acres of aquatic habitat (**Table 6. Project Effects to GGS Habitat**; **Figure 6. Project Effects to GGS Habitat**). Direct permanent effects would occur due to the placement of fill and the construction of the access road and bridges. Permanent effects to upland habitat would include removal of the grassland dispersal and cover habitat for the new alignment access roadway and bridge abutments. Permanent effects to aquatic habitat would include the removal and filling of marsh and wetland habitat adjacent to Laguna Creek. Section 7 of the FESA consultation with USFWS for potential impacts to GGS will occur through federal nexus with the USACE during the CWA Section 404 permitting process. Compensatory mitigation measure **BIO-24** provides options for compensatory mitigation determined during the permitting process. Further, measures **BIO-17** through **BIO-23** will ensure no direct impact will occur to the species.

Table 6. Project Effects to GGS Habitat

Giant Garter Snake Habitat Type	Temporary Effects (ac)	Permanent Effects (ac)
Upland Habitat	1.43	3.72
Aquatic Habitat	1.72	0.05
Total Habitat	3.15	3.77

In summary, with implementation of the specified measures, the Project will have a less than significant impact with mitigation.

BIO-17: Construction activity within giant garter snake habitat should be conducted between May 1st and October 1st. This is the active period for giant garter snakes and direct mortality is lessened, because snakes are expected to actively move and avoid danger. Between October 2 and April 30 contact the U.S. Fish and Wildlife Service Sacramento Office to determine if additional measures are necessary to minimize and avoid take.

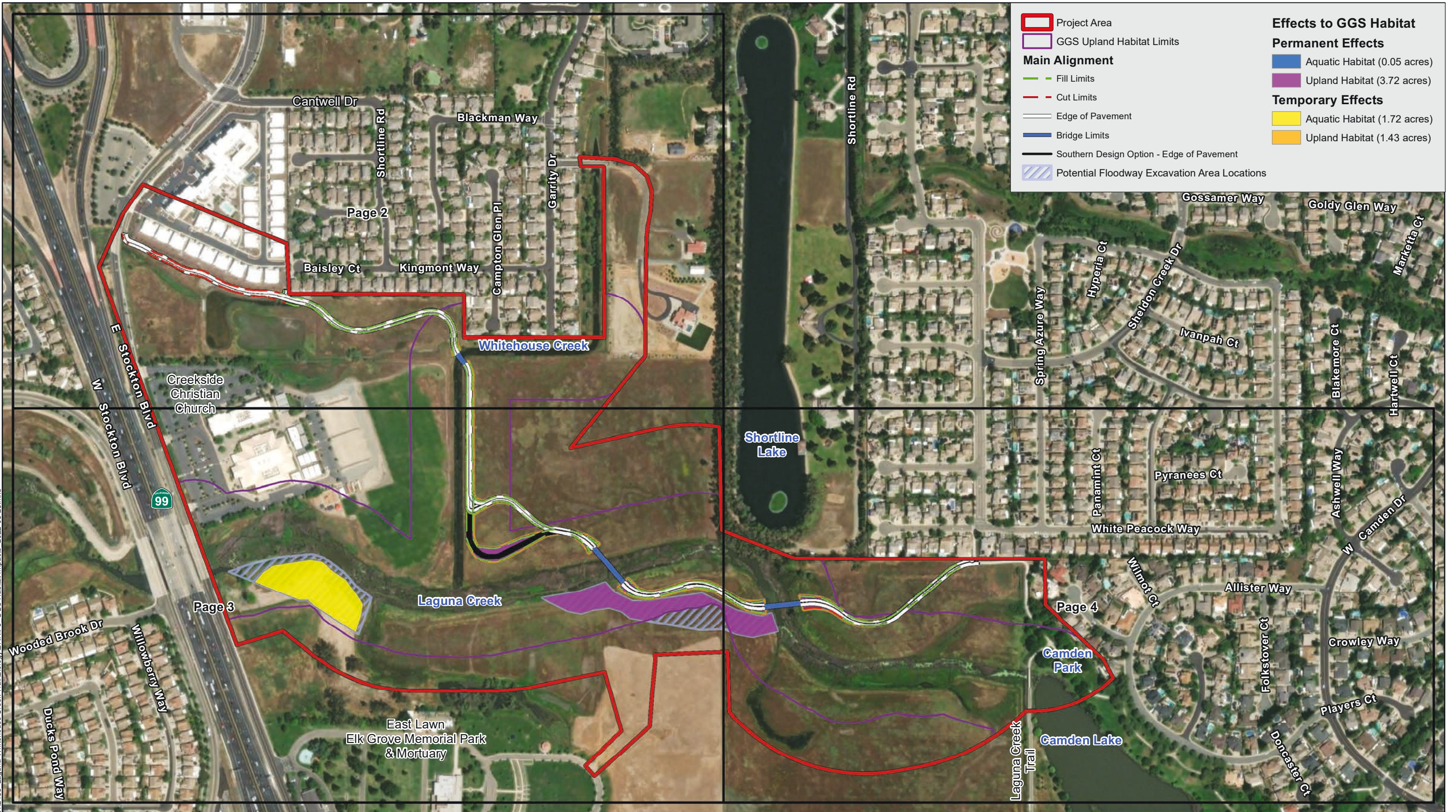
BIO-18: Confine clearing to the minimal area necessary to facilitate construction activities. Flag and designate avoided giant garter snake habitat within or adjacent to the Project area as Environmentally Sensitive Areas. The area should be avoided by all construction personnel.

3.0 INITIAL STUDY CHECKLIST

- BIO-19:** Tightly woven erosion control matting (mesh size less than 0.25 inch) or similar material shall be used for erosion control and other purposes at the Project site to ensure that snakes are not trapped or become entangled by the erosion control material. The edge of the material shall be buried in the ground to prevent snakes from crawling underneath the material. The use of plastic, monofilament, jute, or similar erosion control netting with mesh sizes larger than 0.25 inch that could entangle snakes will be prohibited.
- BIO-20:** Construction personnel must receive worker environmental awareness training. Awareness training shall be given by the Project biologist(s) who have experience in giant garter snake natural history. This training instructs workers to recognize giant garter snake and their habitat(s).
- BIO-21:** 24-hours prior to construction activities, the Project area should be surveyed for giant garter snakes. Survey of the Project area should be repeated if a lapse in construction activity of two weeks or greater has occurred. If a snake is encountered during construction, activities shall cease until appropriate corrective measures have been completed or it has been determined that the snake will not be harmed. Report any sightings and any incidental take to the U.S. Fish and Wildlife Service Sacramento Office immediately by telephone at (916) 414-6600.
- BIO-22:** Any dewatered habitat must remain dry for at least 15 consecutive days after April 15 and prior to excavating or filling of the dewatered habitat.
- BIO-23:** After completion of construction activities, remove any temporary fill and construction debris and, wherever feasible, restore disturbed areas to pre-Project conditions. Restoration work includes, as applicable, activities such as replanting species removed from banks or replanting emergent vegetation in the active channel.
- BIO-24:** The proposed Project shall mitigate for potential impacts to giant garter snake by one of the following compensatory mitigation strategies:
1. The City shall provide all necessary compensatory mitigation requirements pursuant Section 7 consultation with the USFWS through federal nexus with USACE during Clean Water Act Section 404 permitting process.
 2. The City will compensate for the loss of giant garter snake habitat with purchase of required mitigation credits at a USFWS and CDFW approved mitigation bank to offset permanent and temporary impacts. Temporary impacts shall be compensated at 1:1 ratio, and permanent impacts to upland and aquatic GGS habitat shall be compensated at 3:1. Acreages may be adjusted during final design, which would change the total acres of mitigation, but the ratios must stay the same.

In addition, to prevent harm to local wildlife, the Project will implement the following measures:

- BIO-27:** The contractor shall not use herbicides to control invasive, exotic plants or apply rodenticides during construction.
- BIO-28:** The contractor shall dispose of all food-related trash in closed containers, and must remove it from the Project area each day during construction. Construction personnel shall not feed or attract wildlife to the Project area.



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Source: ESRI World Street Maps Online; Dokken Engineering 7/10/2023; Created By: amyd



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FIGURE 6
GGS Habitat Impacts
Page 1 of 4
Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
City of Elk Grove, California



Source: ESRI World Street Maps Online; Dokken Engineering 7/10/2023; Created By: amyd

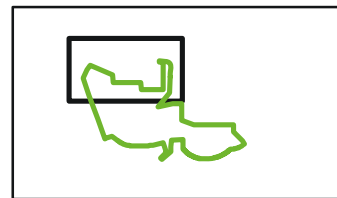
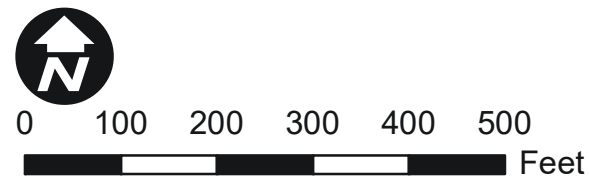
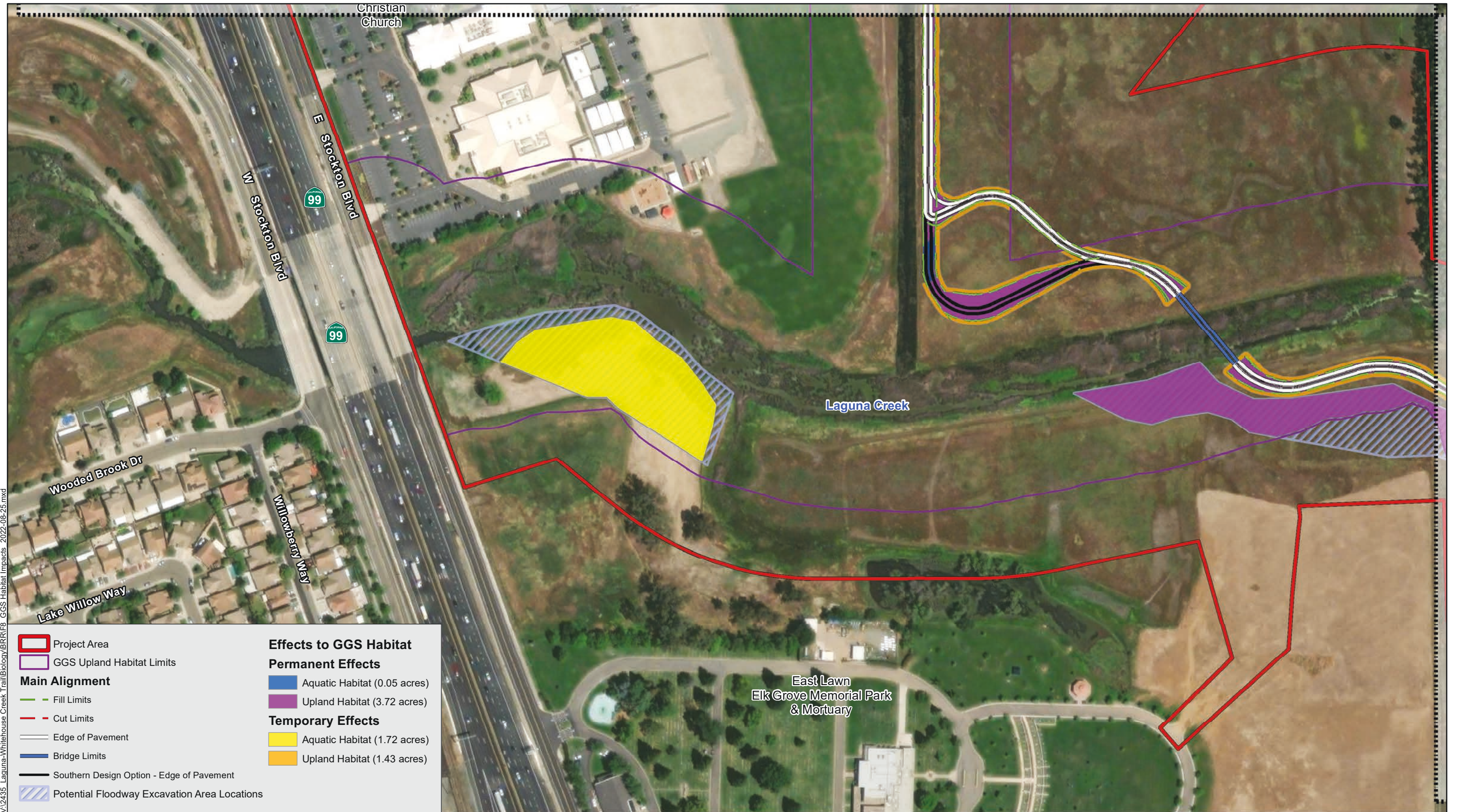


FIGURE 6
GGG Habitat Impacts
 Page 2 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California



V:\2435 - Laguna-Whitehouse Creek Trail\Biology\BRR\FB - GGS Habitat Impacts - 2022-08-25.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 7/10/2023; Created By: amyd

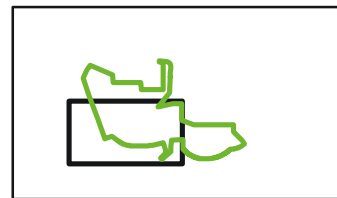
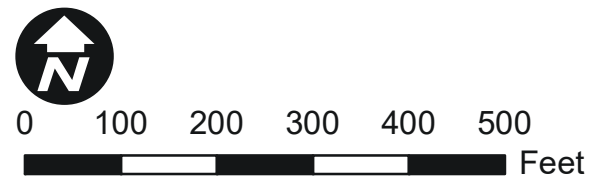
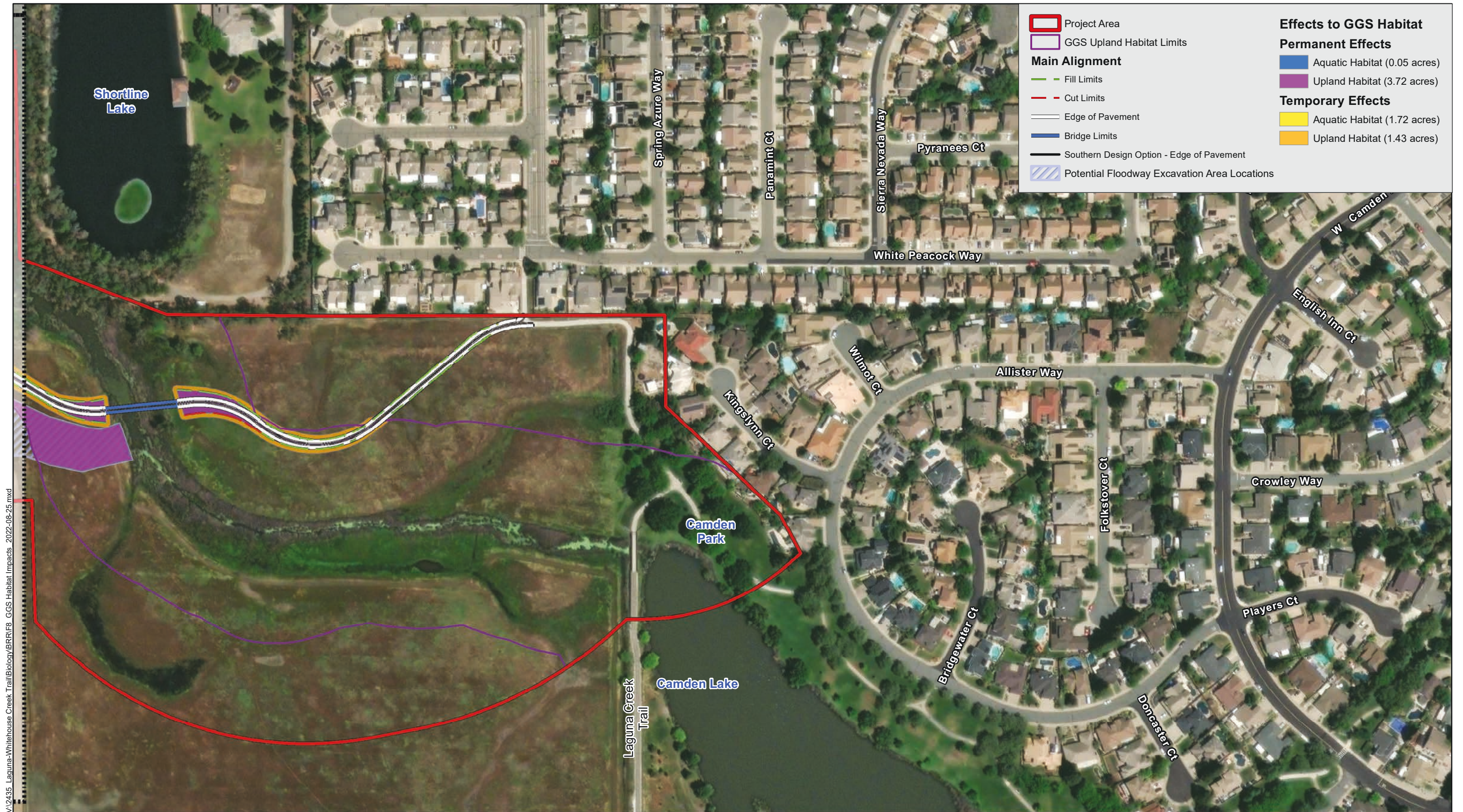


FIGURE 6
GGS Habitat Impacts
 Page 3 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California



V:\2435_Laguna-Whitehouse Creek Trail\Biology\BRR\FB_GGS Habitat Impacts_2022-08-25.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 7/10/2023; Created By: amyd

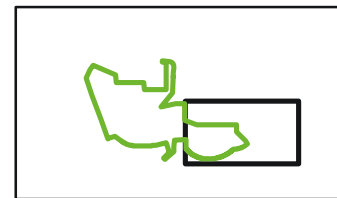
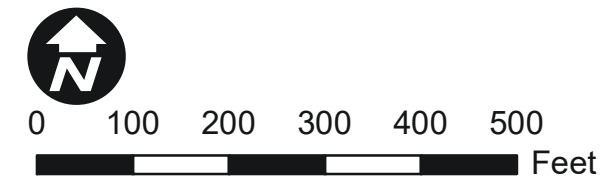


FIGURE 6
GGS Habitat Impacts
 Page 4 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California

- b) **Less Than Significant with Mitigation.** The proposed Project would include construction of a maintenance access road along Laguna Creek and Whitehouse Creek. The maintenance access road would consist of approximately 10 feet of pavement with unpaved shoulders ranging from 2 to 3 feet, and where determined feasible, single span pre-fab steel or concrete bridges to provide necessary access across Laguna and Whitehouse Creeks.

Field surveys and habitat assessments within the BSA determined no riparian habitat exists along the banks of Laguna and Whitehouse Creeks. However, Laguna and Whitehouse Creeks would be considered non-wetland sensitive natural habitats, as perennial creeks. A small permanent impact area would occur to Laguna Creek for fill material necessary for the Project alignment adjacent to East Stockton Boulevard at the southwestern terminus of the Project near the church parking lot. No permanent impacts are anticipated for Whitehouse Creek. Temporary impacts include areas in addition to permanent impacts that would be temporarily disturbed during construction to facilitate construction such as access routes, and potential dewatering activities. The Project is not anticipated to affect creek habitat. The Project will minimize impacts to sensitive natural creek habitats with the use of avoidance and minimization measures **BIO-1** through **BIO-4**; therefore, this impact is less than significant with mitigation incorporated.

BIO-1: Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters shall be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not further encroach into waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed (same as **WQ-3**).

BIO-2: Contract specifications will include the following BMPs, where applicable, to reduce erosion during construction (same as **WQ-4**):

- Implementation of the Project shall require approval of a site-specific Storm Water Pollution Prevention Plan (SWPPP) or Water Pollution Control Program (WPCP) that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;
- Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented;
- Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities;
- Roughening and/or terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed.
- Soil exposure must be minimized through the use of temporary BMPs, groundcover, and stabilization measures;

3.0 INITIAL STUDY CHECKLIST

- The contractor must conduct periodic maintenance of erosion- and sediment-control measures.

BIO-3: To conform to water quality requirements, the Project shall implement the following:

- Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants shall be a minimum of 100 feet from surface waters. Any necessary equipment washing shall occur where the water cannot flow into surface waters. The Project specifications shall require the contractor to operate under an approved spill prevention and clean-up plan;
- Construction equipment shall not be operated in flowing water;
- Construction work shall be conducted according to site-specific construction plans that minimize the potential for sediment input to waters of the U.S. and State;
- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters;
- Equipment used in and around surface waters shall be in good working order and free of dripping or leaking contaminants; and,
- Any surplus concrete rubble, asphalt, or other debris from construction shall be taken to an approved disposal site.

BIO-4: All temporarily disturbed areas shall be restored onsite to pre-Project conditions or better prior to Project completion. Where possible, vegetation shall be trimmed rather than fully removed with the guidance of the Project biologist.

c) Less Than Significant with Mitigation. Potential jurisdictional wetlands within the BSA were assessed and potential wetland features were evaluated for presence of the following wetland indicators: hydrophytic vegetation, hydric soils and wetland hydrology. Surveys of potential jurisdictional waters were confirmed using aerial imagery and field verification, and followed the guidelines provided in the *USACE Wetland Delineation Manual* (USACE 1987), *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008a), and *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2008b). Wetlands that exhibit all three wetland indicators are considered waters of the U.S. if they are hydraulically connected to another water of the U.S. Waters of the state can include wetlands that are not hydraulically connected to another water body if they provide habitat for wildlife or special status plant species. Previous to the current 2018 survey efforts, ECORP Consulting Inc. had performed a wetland delineation for the East Lawn Cemetery Expansion (2006-2007). These delineation results have since expired; however, the mapping efforts from the ECORP delineation were used as reference for aquatic feature locations.

Jurisdictional delineations were conducted by Dokken Engineering biologists, Andrew Dallas and Courtney Owens on April 24 – April 26, 2018 to identify jurisdictional resources present within the BSA. Observed OHWM and wetland features were mapped in the field with a Trimble GeoXT Geoplotter 6000 Series handheld GPS unit.

DISCUSSION OF JURISDICTIONAL WETLANDS

Jurisdictional wetland features within the BSA include those wetland features associated with Laguna Creek and Whitehouse Creek which are considered potential jurisdictional waters of the U.S. and state. Delineated wetland features within the BSA include vernal pools, vernal swales, seasonal wetlands, seasonal wetland swales, and emergent marsh (**Figure 7. Jurisdictional Waters within the BSA**).

Seasonal Wetland

Seasonal wetlands are defined as ephemeral wetlands that pond during the rainy season and dry during the summer dry season. This habitat type is dominated by hydrophytic vegetation types of grasses, herbs, and forbs. The seasonal wetland habitat type occurs in the adjacent lands of the Stone Lakes NWR in the northwest quadrant of the Study Area. Seasonal wetlands can provide habitat for vernal pool associates, and habitat for a wide variety of wildlife including song birds, waterfowl, reptiles, and other wildlife species. A total of 20 seasonal wetland features were delineated within the BSA consisting of approximately 9.47 acres.

Seasonal Wetland Swale

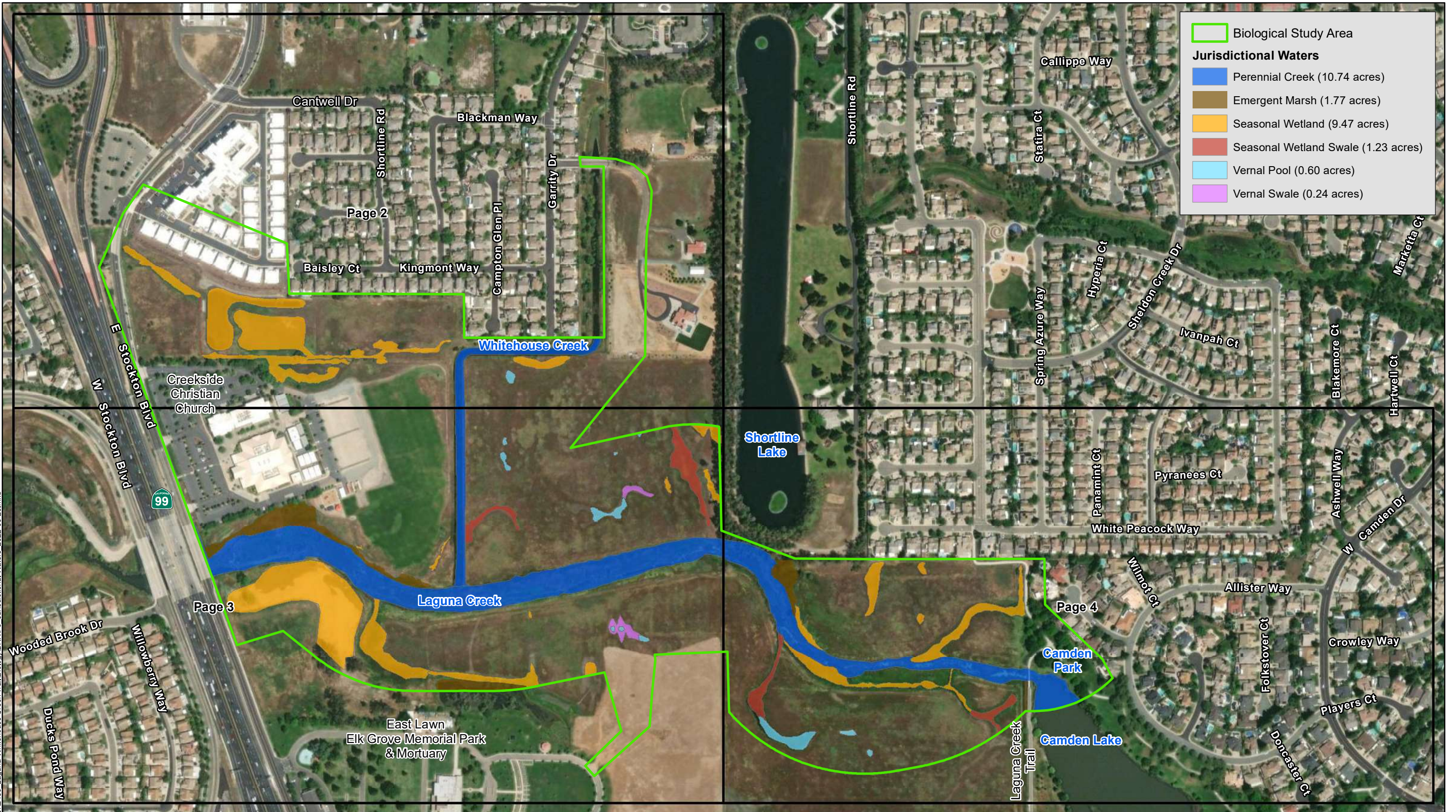
The seasonal swale land cover type is defined as low meandering channels that tend to be saturated long enough to support vegetative associations. Swale features often represent the headwaters of streams, connect seasonal wetlands, and/or drain small watersheds into defined creeks. Swales can be supported by minor groundwater seepage. Swales contain rabbitsfoot grass (*Polypogon monspeliensis*), fireweed (*Epilobium pygmaeum*), fiddle dock (*Rumex pulcher*), and pricklyseed buttercup (*Ranunculus muricatus*). Seasonal swales that occur within and between vernal pool complexes are classified as vernal swales. A total of 6 seasonal wetland swale features were delineated within the BSA consisting of approximately 1.23 acres.

Vernal Pools

Vernal pools are characterized by seasonal inundation and their potential to support vernal pool species. A wide variety of herbaceous species are associated with this community type, including Italian ryegrass, Mediterranean barley, coyote thistle (*Eryngium* sp.), smooth goldfields (*Lasthenia glaberrima*), Fremont's goldfields (*Lasthenia fremontii*), vernal pool buttercup (*Ranunculus bonariensis* var. *trisepalus*), and woolly marbles (*Psilocarphus* spp.). Additional species that may be present include Sacramento mint (*Pogogyne zizyphoroides*), hyssop loosestrife (*Lythrum hyssopifolium*), toad rush (*Juncus bufonius*), popcorn flower (*Plagiobothrys* spp.), alkali weed, mayweed, and curly dock. Vernal pool communities have the potential to support special-status vernal pool invertebrates, such as fairy shrimp (*Branchinecta* spp.) and tadpole shrimp (*Lepidurus* spp.). The BSA includes vernal pool communities. A total of 12 vernal pools were delineated within the BSA consisting of approximately 0.60 acres.

Vernal Swale

Vernal pools are sometimes connected to each other by small drainages known as vernal swales, forming complexes of vernal pools. Vernal swales differ from vernal pools in that they function distinctly as shallow, seasonal conveyance channels. They typically connect vernal pools or convey shallow seasonal flows down gradual inclines often collecting water in a vernal pool or seasonal wetland. Vernal swales and pools typically share plant species and successive "rim bloom" plant assemblages and soil types (California Open Lands 2018). A total of 2 vernal swale areas were delineated within the BSA consisting of approximately 0.24 acres.



V:\2435_Laguna-Whitehouse Creek Trail\Biology\BRR\F5_Jurisdictional Waters_2022-08-25.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 8/25/2022; Created By: rramirez



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Feet

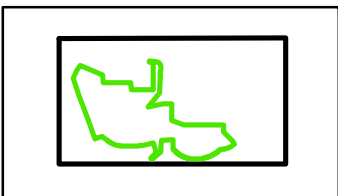
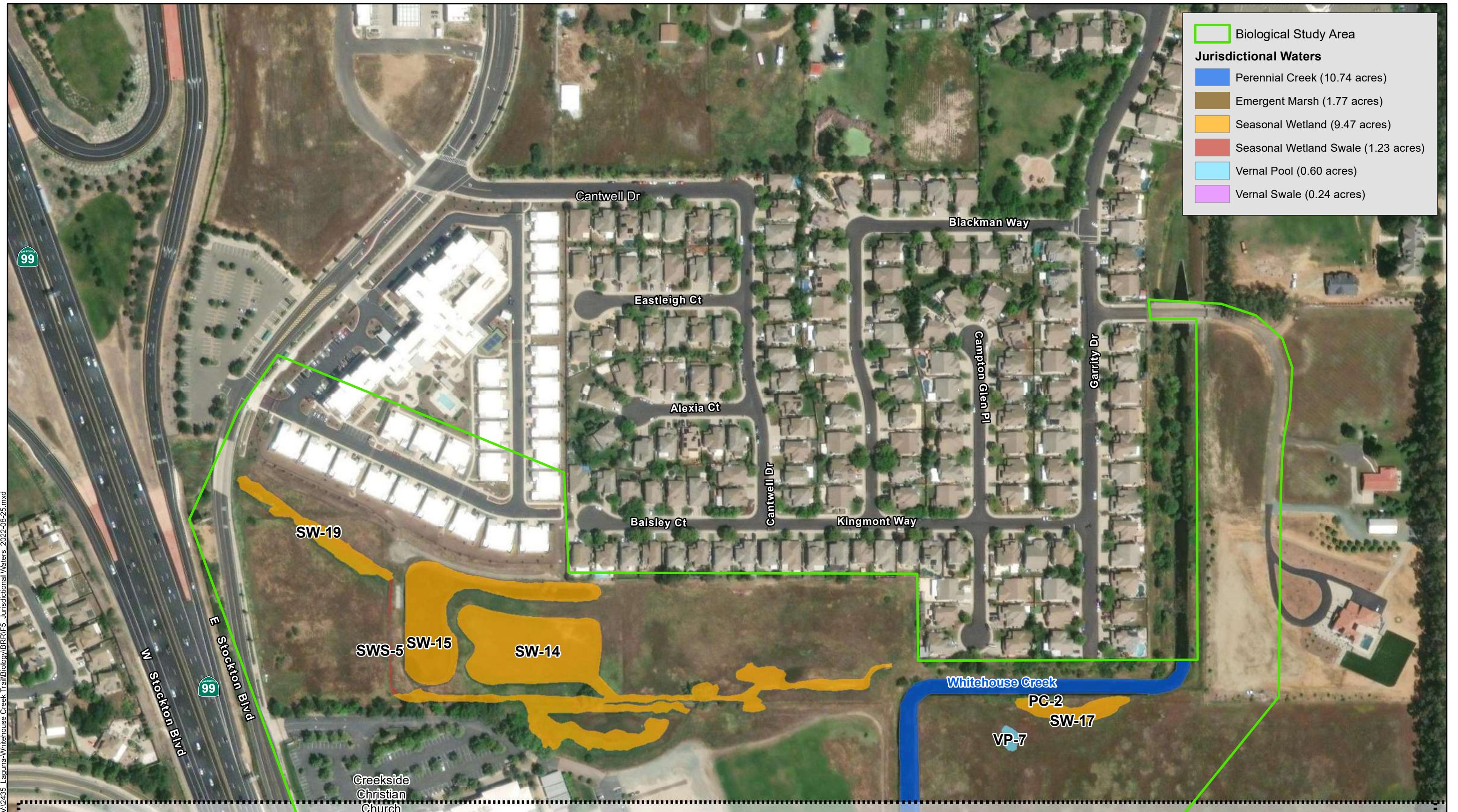


FIGURE 7
Jurisdictional Waters within the BSA
Page 1 of 4
Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
City of Elk Grove, California



V:\2435_Laguna-Whitehouse Creek Trail\Biology\BRR\F5 - Jurisdictional Waters 2022-08-25.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 8/25/2022; Created By: rramirez

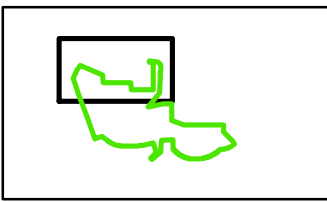
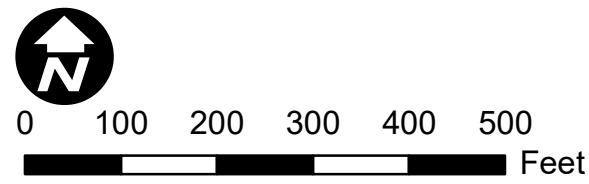










FIGURE 7
Jurisdictional Waters within the BSA
 Page 2 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California



V:\2435_Laguna-Whitehouse Creek Trail\Biology\BRR\F5 - Jurisdictional Waters 2022-08-25.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 8/25/2022; Created By: rramirez

	Biological Study Area
Jurisdictional Waters	
	Perennial Creek (10.74 acres)
	Emergent Marsh (1.77 acres)
	Seasonal Wetland (9.47 acres)
	Seasonal Wetland Swale (1.23 acres)
	Vernal Pool (0.60 acres)
	Vernal Swale (0.24 acres)



0 100 200 300 400 500 Feet

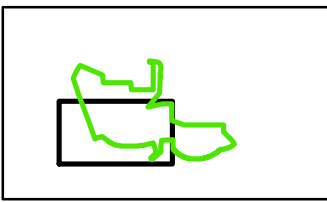
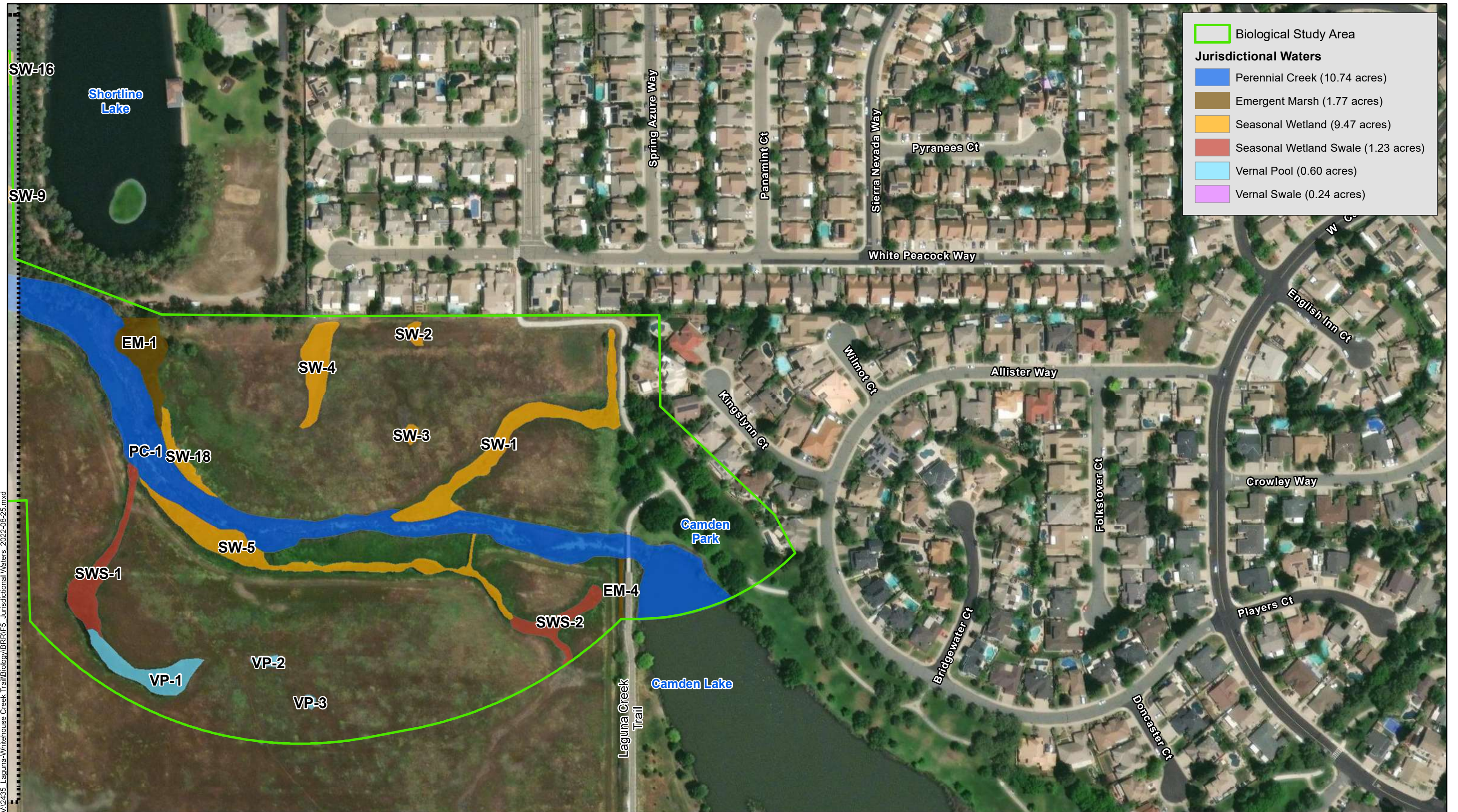


FIGURE 7
Jurisdictional Waters within the BSA
 Page 3 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California



	Biological Study Area
Jurisdictional Waters	
	Perennial Creek (10.74 acres)
	Emergent Marsh (1.77 acres)
	Seasonal Wetland (9.47 acres)
	Seasonal Wetland Swale (1.23 acres)
	Vernal Pool (0.60 acres)
	Vernal Swale (0.24 acres)

V:\2435_Laguna-Whitehouse Creek Trail\Biology\BRR\F5 - Jurisdictional Waters 2022-08-25.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 8/25/2022; Created By: rramirez

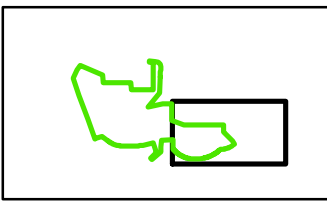
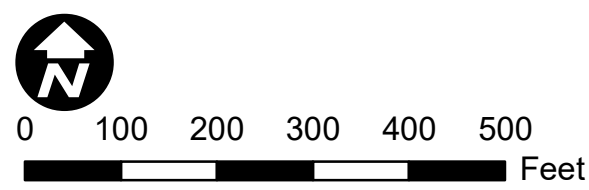


FIGURE 7
Jurisdictional Waters within the BSA
 Page 4 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California

Emergent Marsh

Freshwater emergent marsh wetlands are characterized by erect, rooted herbaceous hydrophytes such as common cattail. Emergent wetlands are flooded frequently enough so that the roots of the vegetation are in an anaerobic environment. On the upper margins of this habitat, saturated or periodically flooded soils support several moist soil plant species including Baltic rush (*Juncus balticus*), tall flatsedge (*Cyperus eragrostis*), smartweed (*Persicaria spp.*), and, on more alkali sites, saltgrass (*Distichlis spicata*). Lower, wetter portions of freshwater emergent wetlands in the Project area are composed of cattails, bulrush, and floating primrose. In the Project area, several freshwater emergent wetlands exist west of Franklin Boulevard. A total of 3 emergent marsh features were delineated within the BSA, consisting of approximately 1.77 acres.

PROJECT IMPACTS TO JURISDICTIONAL WETLANDS

Analysis of potential effects to federally protected wetlands as defined by Section 404 of the CWA, determined the ~~proposed~~ Project design would require permanent and temporary impacts to the wetlands within the BSA. The following section describes in detail the ~~proposed~~ Project’s potential effects to these wetland resources. **Table 7** and **Figure 8** display the potential effects.

Table 7. Project Effects to Jurisdictional Wetlands

Jurisdictional Waters	Waters of the U.S., State and CDFW Waters		
	Permanent Impacts (Acres)	Temporary Impacts (Acres)	Indirect Affects (Vernal Pool Only)
Seasonal Wetlands	1.84	1.71	0.31
Seasonal Wetland Swales	0.05	<0.01	--
Vernal Pools	0	0	0.17
Vernal Swales	0	0	0.24
Emergent Marsh	0	0	--
Total	1.89	1.72	0.72

Vernal Pools and Swales

Direct Impacts

Due to the delicate hydrology of vernal pools, direct impacts to a portion of a vernal pool permanently modify the hydrology of the entire vernal pool and all direct impacts are treated as permanent impacts. However, the ~~proposed~~ Project has been designed to avoid all permanent impacts to vernal pool habitat. Therefore, no permanent or temporary direct impacts to vernal pool habitats are anticipated (see **Table 7** and **Figure 8**).

Indirect Impacts

Modifications to the micro-watershed (including vernal swales) surrounding vernal pools indirectly affects their long-term hydrology. Indirect impacts may result from changes in on-site hydrology to vernal pools due to the creation of impervious surfaces on impermeable surfaces. These may alter the amount of water entering vernal pools and potentially degrade vernal pool crustacean habitat. After reviewing vernal pools present within the BSA, it was determined that construction of the ~~proposed~~ Project could cause hydrological or biological modifications that could cause indirect effects of vernal pools in the area of construction of the ~~proposed~~ Project. In order to minimize changes to hydrology within the Project area, the Project has been designed with water catchment ditches at the bottom of the berms of the multi-functional corridor. These catchment

ditches would minimize and avoid changes of increased runoff reaching adjacent suitable habitats and reduce the potential for changes in hydrology or degradation of water quality. The proposed Project is anticipated to cause approximately 0.41 acres of indirect impacts to vernal pools and vernal swales.

Seasonal Wetland

The construction of the proposed Project would result in permanent and temporary impacts to seasonal wetlands as shown in **Table 7** and **Figure 8**. Approximately 1.84 acres of permanent impacts would occur to seasonal wetland habitat. Approximately 1.71 acres of temporary impacts would occur in addition to permanent impacts that would be temporarily disturbed to facilitate construction of the Project alignment.

Seasonal wetland habitat may be suitable for vernal pool invertebrates and potential indirect impacts to seasonal wetland habitat may be considered impacts to vernal pool invertebrate species. A discussion of indirect effects to waters is discussed above. The proposed Project is anticipated to cause approximately 0.31 acres of indirect impacts related to seasonal wetlands potential habitat for vernal pool invertebrates.

Seasonal Wetland Swale

The construction of the proposed Project would result in approximately 0.05 acres of permanent impacts to seasonal wetland swale habitat. However, a minor amount of temporary impacts, approximately <0.01 acres would have temporary effects, as shown in **Table 7** and **Figure 8**.

Emergent Marsh

The construction of the proposed Project would not result in permanent and temporary impacts to emergent marsh as shown in **Table 7** and **Figure 8**.

The Project has been designed to minimize temporary and permanent impacts to jurisdictional wetlands to the maximum extent practicable. Prior to construction, regulatory permits will be obtained from USACE, CDFW, and RWQCB. Compensatory mitigation for permanent and temporary impacts to waters of the U.S. and State will be determined through waters permitting in coordination through Section 401 of the CWA, Section 404 of the CWA, and Section 1602 of the CESA.

Consultation efforts with RWQCB, USACE, and CDFW will occur through this process and final mitigation ratios for impacts to waters of the U.S. and State will be determined. In addition to all measures specified in these permits, the avoidance and minimization measures **BIO-1** through **BIO-4** will be incorporated into the design to minimize construction impacts to jurisdictional wetlands within the BSA. With the implementation of avoidance, minimization and mitigation measures for jurisdictional wetlands within the BSA, impacts would be less than significant with mitigation incorporated.

BIO-1: Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters shall be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not further encroach into waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed (same as **WQ-3**).

BIO-2: Contract specifications will include the following BMPs, where applicable, to reduce erosion during construction (same as **WQ-4**):

- Implementation of the Project shall require approval of a site-specific Storm Water Pollution Prevention Plan (SWPPP) or Water Pollution Control Program (WPCP)

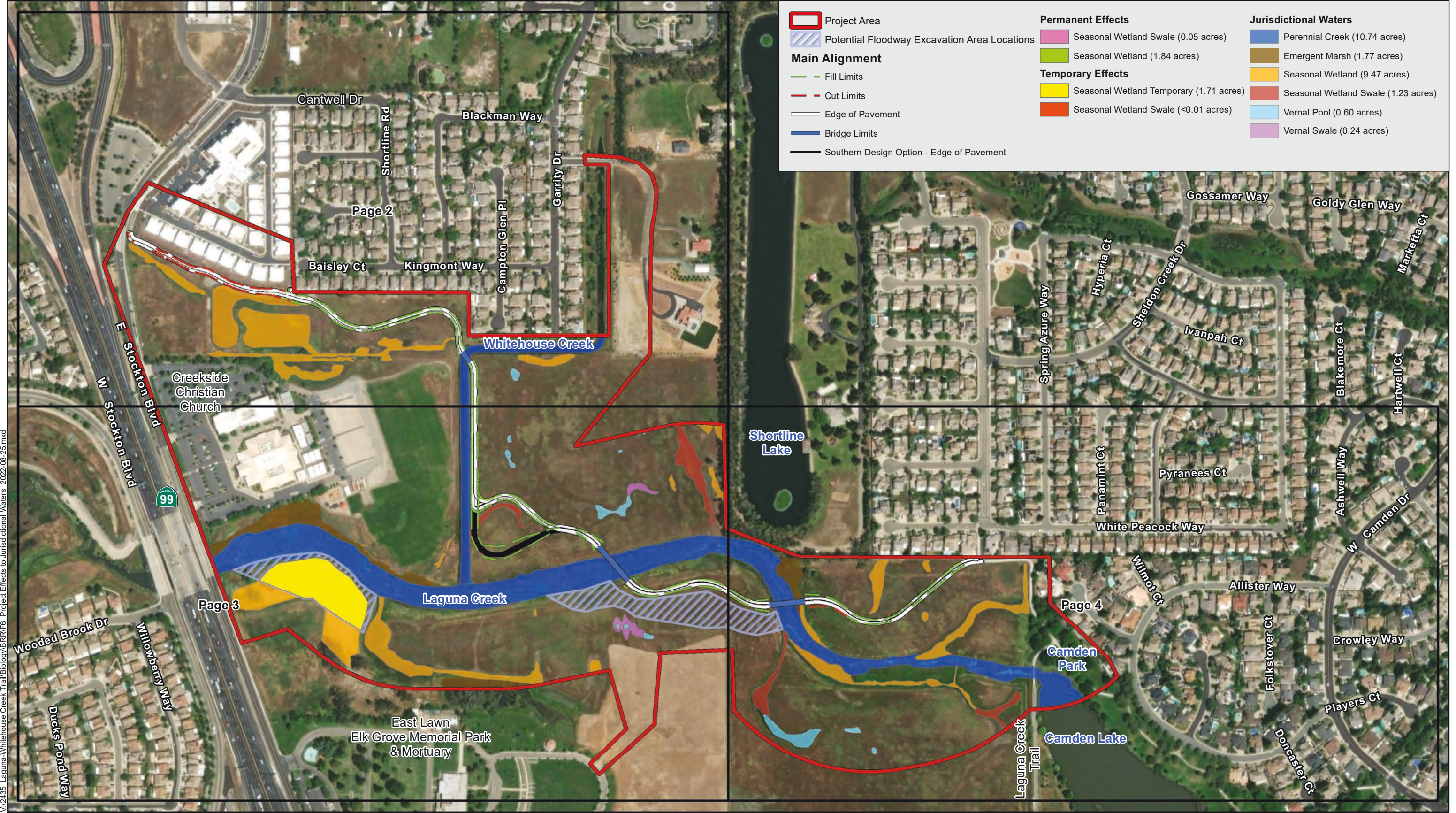
that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;

- Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented;
- Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities;
- Roughening and/or terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed.
- Soil exposure shall be minimized through the use of temporary BMPs, groundcover, and stabilization measures;
- The contractor shall conduct periodic maintenance of erosion- and sediment-control measures.

BIO-3: To conform to water quality requirements, the Project shall implement the following:

- Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants shall be a minimum of 100 feet from surface waters. Any necessary equipment washing shall occur where the water cannot flow into surface waters. The Project specifications will require the contractor to operate under an approved spill prevention and clean-up plan;
- Construction equipment shall not be operated in flowing water;
- Construction work shall be conducted according to site-specific construction plans that minimize the potential for sediment input to waters of the U.S. and State;
- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters;
- Equipment used in and around surface waters shall be in good working order and free of dripping or leaking contaminants; and,
- Any surplus concrete rubble, asphalt, or other debris from construction shall be taken to an approved disposal site.

BIO-4: All temporarily disturbed areas shall be restored onsite to pre-Project conditions or better prior to Project completion. Where possible, vegetation shall be trimmed rather than fully removed with the guidance of the Project biologist.



V:\2435 - Laguna-Whitehouse Creek Trail\Biology\BRR\F6 - Project Effects to Jurisdictional Waters - 2022-08-25.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 7/10/2023; Created By: amyd

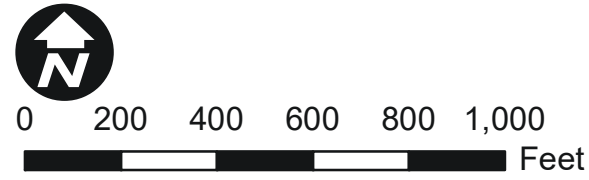
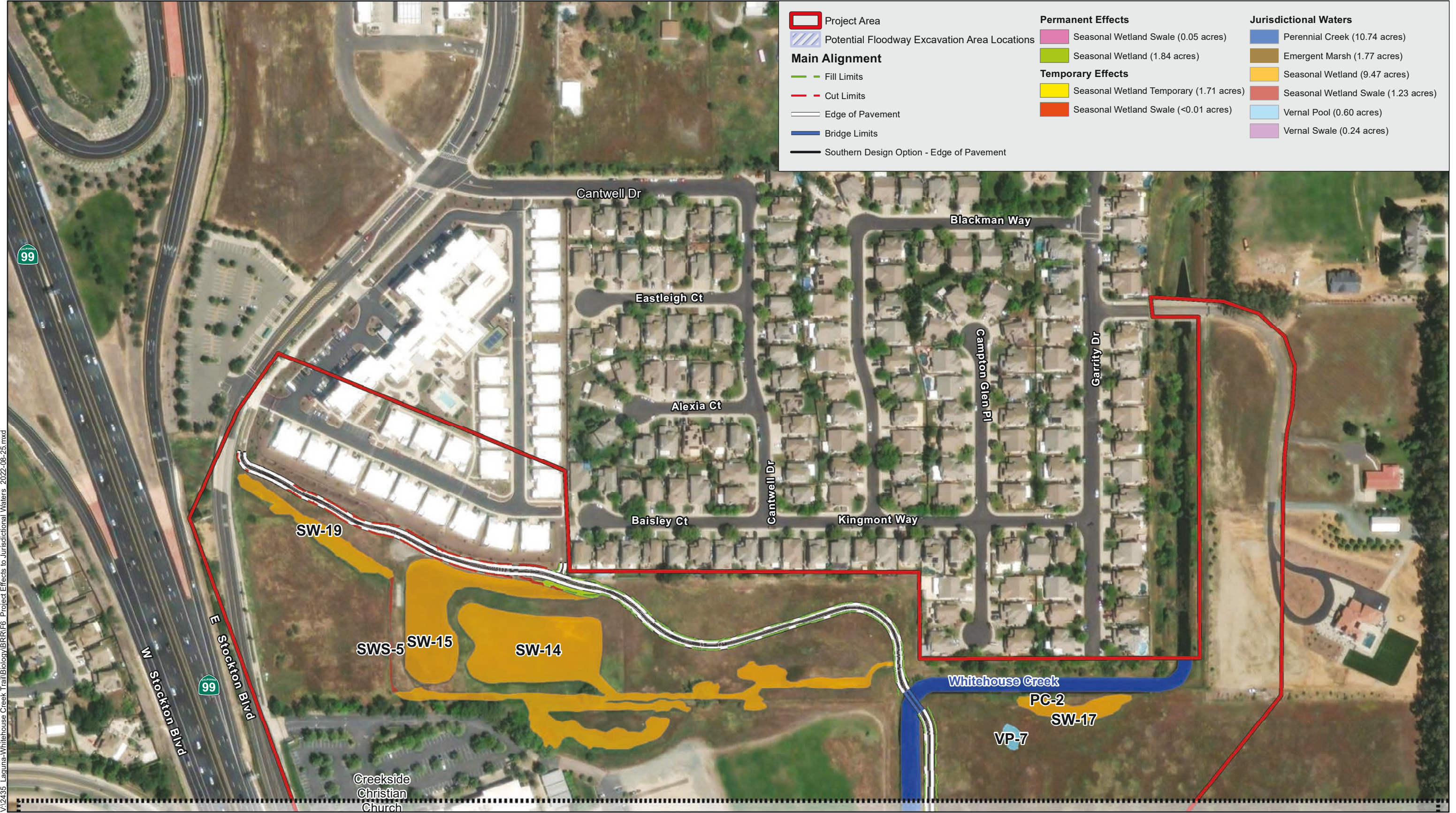


FIGURE 8
Project Effects to Jurisdictional Waters within the BSA
 Page 1 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California



V:\2435 Laguna-Whitehouse Creek Trail\Biology\BRR\F6 Project Effects to Jurisdictional Waters 2022-06-25.mxd
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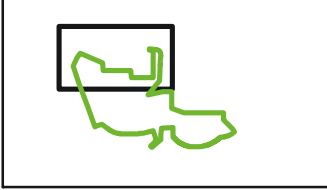
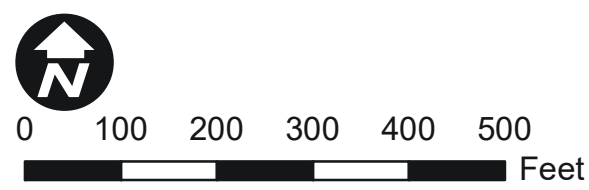
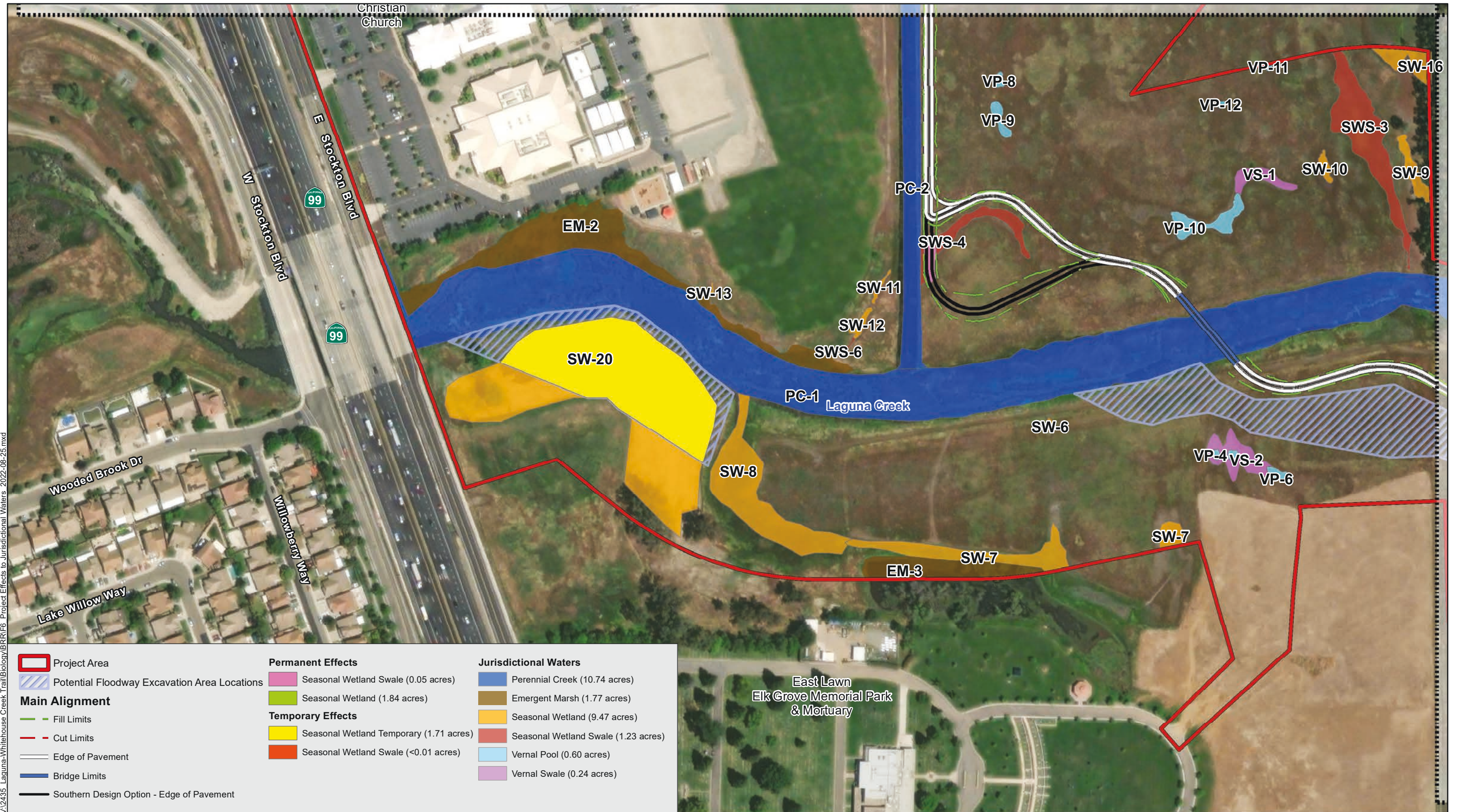


FIGURE 8
Project Effects to Jurisdictional Waters within the BSA
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 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California



V:\2435_Laguna-Whitehouse Creek Trail\Biology\BRR\F6 Project Effects to Jurisdictional Waters 2022-08-25.mxd

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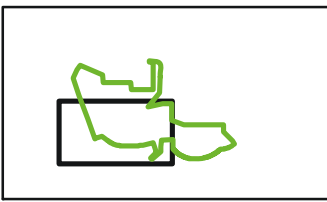
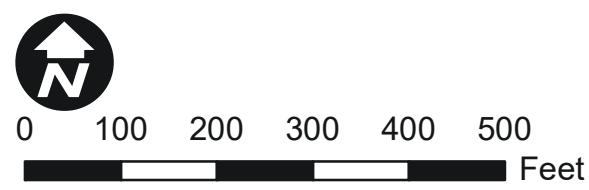
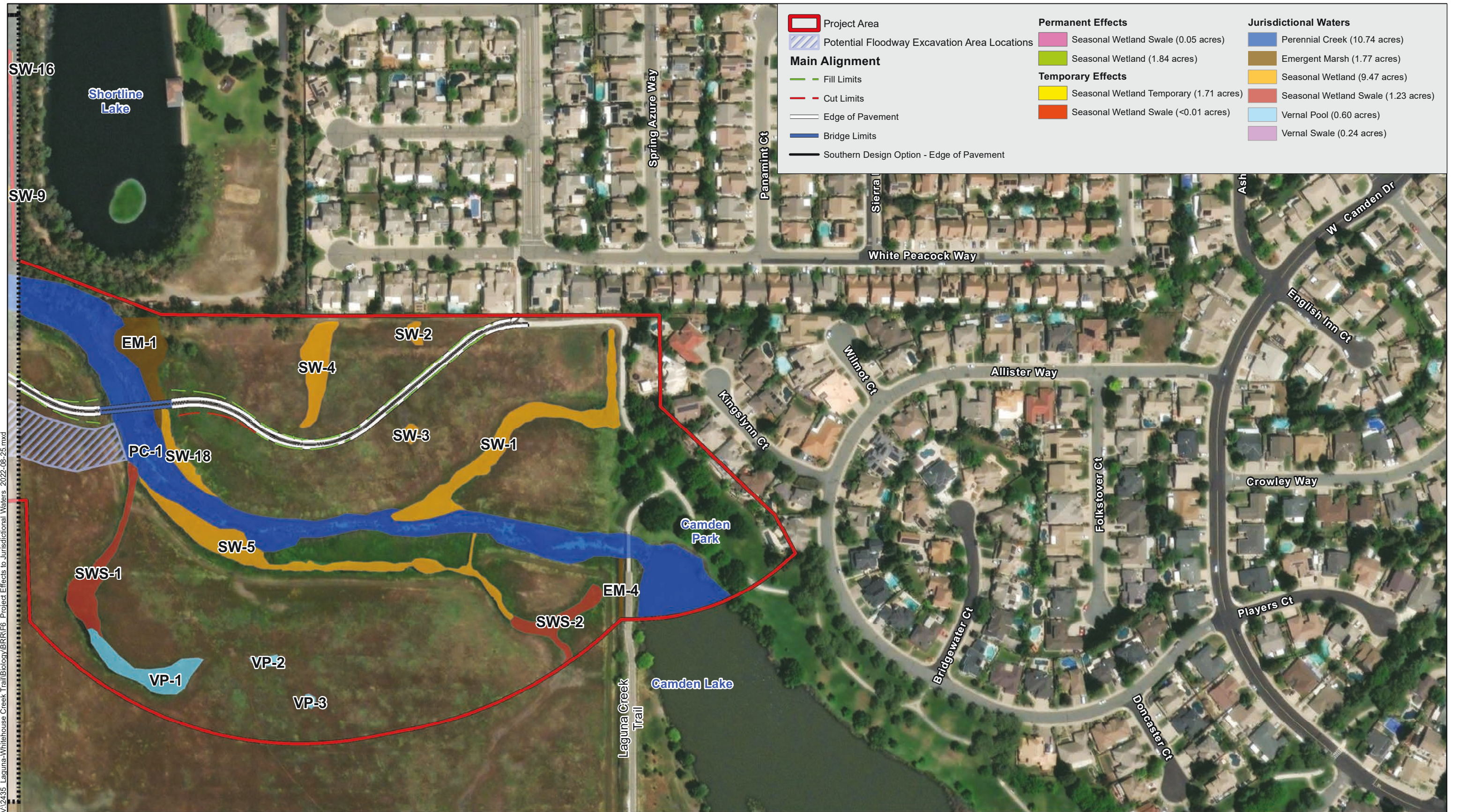


FIGURE 8
Project Effects to Jurisdictional Waters within the BSA
 Page 3 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California



V:\2435_Laguna-Whitehouse Creek Trail\Biology\BRR\F6 - Project Effects to Jurisdictional Waters 2022-06-25.mxd

Source: ESRI World Street Maps Online; Dokken Engineering 7/10/2023; Created By: amyd

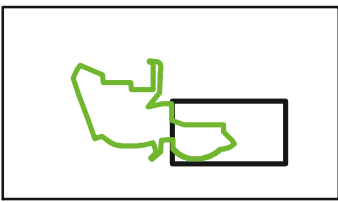
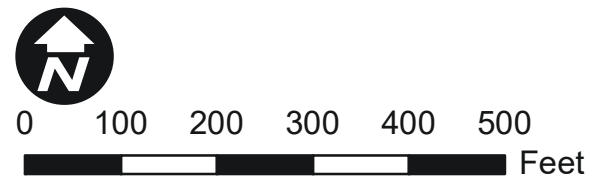


FIGURE 8
Project Effects to Jurisdictional Waters within the BSA
 Page 4 of 4
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California

- d) **Less than Significant.** Laguna Creek and Whitehouse Creek corridors serves as an east-west movement corridor for aquatic and terrestrial wildlife through an otherwise developed portion of the City of Elk Grove and Sacramento County. Under existing conditions, Laguna Creek has been altered to the east and west of the Project area, and Whitehouse Creek has been modified from its original alignment. However, these waterways still provide access and movement along these linear features.

Both Laguna Creek and Whitehouse Creek provide a wildlife corridor for aquatic and terrestrial wildlife moving east-west through the BSA. Under the build alternative, the maintenance access road would not restrict or inhibit any aquatic or terrestrial wildlife from using this wildlife corridor; however, the ~~proposed~~ Project would have temporary and permanent impacts to Laguna and Whitehouse Creeks. As described above, impacts to Laguna and Whitehouse Creeks would be avoided and minimized to the greatest extent practicable.

The Project is not anticipated to have any effects to the habitat connectivity for birds, fish, or small and medium terrestrial wildlife. No significant loss of habitat connectivity is anticipated; therefore, this impact is less than significant.

- e) **Less than Significant with Mitigation.** In 2003, the City established and adopted Chapter 16.130 (Swainson's Hawk Impact Mitigation Fees) of the Elk Grove Municipal Code, which establishes mitigation policies tailored for projects in Elk Grove that have been determined through the CEQA process to result in a "potential significant impact" on Swainson's hawk foraging habitat (City of Elk Grove, 2018). Chapter 16.130, often referred as the "Swainson's Hawk Code," serves as a conservation strategy that is achieved through the selection of appropriate replacement lands and through management of suitable habitat value on those lands in perpetuity.

The Project will permanently remove approximately 6.2 acres of Swainson's hawk valley grassland foraging habitat. Mitigation measure **BIO-7** shall be implemented to compensate for permanent impacts to Swainson's hawk foraging habitat pursuant the City's "Swainson's Hawk Code." With the implementation of mitigation measure **BIO-7**, Project impacts regarding local policies or codes protecting biological resources would be less than significant with mitigation.

BIO-7: Valley grasslands in the Project area are considered Swainson's hawk foraging habitat and are protected under Chapter 16.130 of the City Municipal Code, Swainson's Hawk Impact Mitigation Fees. The City shall mitigate for the permanent loss of Swainson's hawk foraging habitat at a 1:1 ratio. Mitigation can be accomplished through participation in the City of Elk Grove Swainson's Hawk Impact Mitigation Fees Ordinance, other method acceptable to the California Department of Fish and Wildlife, or other method acceptable to the Elk Grove City Council pursuant to section 16.130.110.

- f) **No Impact.** There are no adopted Habitat Conservation Plans, Natural Community Conservation Plans, or other approved local, regional, or state habitat conservation plans within the Project area; therefore, the Project will have no impact or conflict with any habitat conservation plan.

V. CULTURAL RESOURCES

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REGULATORY SETTING

CEQA provides statutory requirements for establishing the significance of historical resources in Public Resources Code (PRC) Section 21084.1. The CEQA Guidelines (Section 10564.5[c]) also require consideration of potential Project impacts to "unique" archaeological sites that do not qualify as historical resources. The statutory requirements for unique archaeological sites that do not qualify as historical resources are established in PRC Section 21083.2. These two PRC sections operate independently to ensure that significant potential effects on historical and archaeological resources are considered as part of a Project’s environmental analysis. Historical resources, as defined in Section 15064.5 as defined in the CEQA regulations, include 1) cultural resources listed in or eligible for listing in the California Register of Historical Resources (California Register); 2) cultural resources included in a local register of historical resources; 3) any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in one of several historic themes important to California history and development.

Under CEQA, a Project may have a significant effect on the environment if the Project could result in a substantial adverse change in the significance of a historical resource, meaning the physical demolition, destruction, relocation, or alteration of the resource would be materially impaired. This would include any action that would demolish or adversely alter the physical characteristics of an historical resource that convey its historic significance and qualify it for inclusion in the California Register or in a local register or survey that meets the requirements of PRC Section 5020.1(l) and 5024.1(g). PRC Section 5024 also requires state agencies to identify and protect state-owned resources that meet National Register of Historic Place (National Register) listing criteria. Sections 5024(f) and 5024.5 require state agencies to provide notice to and consult with the State Historic Preservation Officer (SHPO) before altering, transferring, relocation, or demolishing state-owned historical resources that are listed on or are eligible for inclusion in the National Register or are registered or eligible for registration as California Historical Landmarks.

CEQA and the CEQA Guidelines also recommend provisions be made for the accidental discovery of archaeological sites, historical resources, or Native American human remains during construction (PRC Section 21083.2(i) CCR Section 15064.5[d and f]).

AFFECTED ENVIRONMENT

APE

The Area of Potential Effects (APE) is located approximately 0.25 mile south of Sheldon Road and 0.46 mile north of Bond Road in the City of Elk Grove, Sacramento County, California. The western terminus of the Project is designated at the East Stockton Boulevard while the eastern terminus is designated at the is within Camden Park. More specifically, the Project is located within Sections 25 and 26 of Township 7 North, Range 5 East of the Mount Diablo Meridian as depicted on the Florin and Bruceville, California United States Geological Survey (USGS) 7.5-minute quadrangle maps (see **Figure 9**).

The Project includes all Project related ground disturbing activities necessary to create the multi-functional corridor, including construction access. The APE also includes additional areas for geotechnical study vehicle access. Ground-disturbing activities include cut and fill, grading, recontouring, vegetation removal, and construction access. The horizontal APE encompasses the open grassland and portions of Laguna and Whitehouse Creeks between East Stockton Boulevard and Camden Lake. As the trail will be elevated above existing ground surface elevations, the vertical APE is shallow, extending approximately one foot to account for grading and leveling; however, the vertical APE extends as much as 10 feet below existing grade for construction of the bridge abutments.

Records Search

In order to determine whether any previously recorded cultural resources were located within the APE, a records search (SAC-18-068) of the APE and a 1-mile buffer from its boundaries was obtained from the North Central Information Center (NCIC) at California State University, Sacramento, which is the repository for historic and archaeological records in Sacramento County. The NCIC identified five previous cultural resources investigations conducted that covered approximately 15 percent of the APE; none of which resulted in the discovery of cultural resources in the APE. The NCIC records search identified two previously recorded cultural resources within the APE, a historic-era complex and an irrigation complex.

The historic-era structure complex consists of two structures; however, based on a review of the California Department of Parks Recreation site form documenting this resource and field verification, the location of the resource was mis-recorded and is located outside the APE, along Sheldon Road. The irrigation complex consists of a concrete lined irrigation ditch. Similar to the historic-era complex, the location of the irrigation complex was also mis-recorded, as verified by a review of the California Department of Parks Recreation site form documenting this resource and field verification. Additionally, the irrigation complex was previously evaluated as not eligible for the National Register or California Register, and received SHPO concurrence on the evaluation. For these reasons, no previously recorded resources have been documented within the APE.



V:\2435 - Laguna-Whitehouse Creek Trail\F3 - Project Features - 2022-09-20.mxd
 Source: ESRI World Street Maps Online; Dokken Engineering 7/10/2023; Created By: amyd



0 200 400 600 800 1,000
 Feet

FIGURE 9
Archaeological Area of Potential Effects
 Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project - WDR018
 City of Elk Grove, California

Native American Consultation

As part of the identification efforts to determine whether the APE has Native American resources, the City contacted the Native American Heritage Commission (NAHC) in March 2018 and requested a search of the NAHC Sacred Lands File (SLF). The NAHC responded in April 2018 that no resources were identified during the SLF search.

The City then sent Project notification consultation letters in April 2018 to the following Native American Tribal Governments, which have previously requested to be contacted regarding City projects:

- Lone Band of Miwok Indians
- United Auburn Indian Community of the Auburn Rancheria
- Wilton Rancheria

In response to the Project notification consultation letters, a representative of the United Auburn Indian Community of the Auburn Rancheria requested a visit to the Project area. Following a site visit in June 2018, the United Auburn Indian Community of the Auburn Rancheria responded via email that they had no further concerns about the Project and wished to close consultation; however, the United Auburn Indian Community of the Auburn Rancheria requested to be contacted should any Native American cultural resources be found during Project-related activities.

No other response or requests have been received from the United Auburn Indian Community of the Auburn Rancheria, Lone Band of Miwok Indians, or the Wilton Rancheria.

Cultural Survey

On April 4, 2019, Dokken Engineering archaeologist Brian S. Marks, Ph.D. conducted a ground surface inventory of the APE. Fifteen-meter wide pedestrian transects were used to inspect the ground surface. Tall cut banks, rodent burrow holes, and other exposed sub-surface areas were visually inspected for the presence of archaeological resources, soil color changes, and/or staining that could indicate past human activity or buried deposits. In areas of dense vegetation, boot scrapes were used approximately every 20 meters to expose the soil surface and check for the presence of cultural materials. The vertical APE was also visually inspected, where possible, for the presence of buried cultural resources. The visible cut banks along both Whitehouse and Laguna Creeks and rodent burrows throughout the APE provided an excellent opportunity to visually inspect the vertical soil profiles and recently exposed subsurface soils.

No prehistoric-era or historic-era cultural resources were identified during the pedestrian inspection in the APE. The survey verified that the historic-era structure complex and the irrigation complex identified during the NCIC records search were located outside of the APE. The survey also noted extensive ground disturbances throughout the APE, which occurred as result of previous field discing, grading, channelization of Whitehouse Creek, construction of the detention basins north of the Creekside Christian Church, and development of a parking lot, landscaping, and irrigation system between Creekside Christian Church and Whitehouse Creek. Given the extensive disturbances, any surface indications of cultural resources would likely have been destroyed.

Buried Cultural Resource Potential

While no cultural resources were identified during the field survey of the APE or after Native American consultation, the City analyzed the potential for the APE to contain buried cultural resources. The APE is situated in the Central Great Valley geomorphic province with an underlying quaternary alluvium geologic composition (Jennings et al. 1977) dating to approximately 11,500 years before present (B.P.), when human beings were present. These

types of deposits have potential to contain buried surfaces, as seasonal flooding would have deposited new soil layers atop the previous ground surface. Laguna Creek would have attracted human activities, such as hunting, food processing, or habitation, during both the prehistoric and historic eras; however, as the area was frequently flooded, it was not always suitable for habitation.

While the combined factors of the proximity to water and underlying alluvial deposits indicate that there is potential for buried cultural resources, the extensive ground disturbances noted throughout the APE indicate that the potential is low, especially within the shallow vertical APE. These disturbances would have either destroyed any cultural resources within the vertical and horizontal APE or would have uncovered cultural resources, should any have been present. For these reasons, buried cultural resources are not anticipated to be present within the APE.

DISCUSSION

- a) **Less than Significant with Mitigation.** The records search, consultation with Native American organizations and governments, and the field survey did not identify any historical resources, as defined in §15064.5; however, with any project, there is always the possibility that unknown cultural resources may be encountered during construction. With the implementation of Mitigation Measure **CR-1** potential impacts from the Project would be less than significant with mitigation incorporated.

CR-1: If previously unidentified cultural materials are unearthed during construction, work shall be halted in that area until a qualified archaeologist can assess the significance of the find and develop a plan for documentation and removal of resources if necessary. Additional archaeological survey will be needed if Project limits are extended beyond the present survey limits.

- b) **Less than Significant with Mitigation.** The records search, consultation with Native American organizations and governments, and the field survey did not identify any cultural resources within or immediately adjacent the APE. The buried cultural resource analysis concluded that given the extensive ground disturbances which have occurred throughout the APE, the potential for the APE to have buried cultural resources is considered low; however, with any project, there is always the possibility that unknown cultural resources may be encountered during construction. With the implementation of Mitigation Measure **CR-1** potential impacts from the Project would be less than significant with mitigation incorporated.

CR-1: If previously unidentified cultural materials are unearthed during construction, work shall be halted in that area until a qualified archaeologist can assess the significance of the find and develop a plan for documentation and removal of resources if necessary. Additional archaeological survey will be needed if Project limits are extended beyond the present survey limits.

- c) **Less than Significant with Mitigation.** The records search, consultation with Native American organizations and governments, and the field survey did not identify any cultural resources within or immediately adjacent the APE. The buried cultural resource analysis concluded that given the extensive ground disturbances which have occurred throughout the APE, the potential for the APE to have buried cultural resources is considered low. Further, no indications of buried cultural resources were noted during the field survey or during review of historic maps; however, with any Project requiring ground disturbance, there is always the possibility that unmarked burials may be unearthed during

construction. This impact is considered potentially significant. Implementation of Mitigation Measure **CR-2** would reduce this impact to a less-than significant level.

CR-2: Section 5097.94 of the Public Resources Code and Section 7050.5 of the California Health and Safety Code protect Native American burials, skeletal remains and grave goods, regardless of age and provide method and means for the appropriate handling of such remains. If human remains are encountered, work shall halt in that vicinity and the county coroner should be notified immediately. At the same time, an archaeologist shall be contacted to evaluate the situation. If the human remains are of Native American origin, the coroner must notify the Native American Heritage Commission within twenty-four hours of such identification. CEQA details steps to be taken if human burials are of Native American origin.

VI. ENERGY

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

REGULATORY SETTING

The EIR for the City’s 2021 General Plan evaluated energy use within the City and surrounding region. The EIR noted that a substantial amount of the energy expended in California was related to transportation uses. The EIR found that on-road vehicles use about 90 percent of the petroleum consumed in California. Caltrans (2008) projected that 782 million gallons of gasoline and diesel were consumed in Sacramento County in 2015, which represents an increase of approximately 88 million gallons of fuel from 2010 levels. Numerous General Plan polices were developed with the specific intent of reducing per-capita energy use within the City.

DISCUSSION

a) **Less than Significant.** The Project would include construction of a multi-functional corridor along Laguna Creek and Whitehouse Creek. ~~The maintenance access road, which would be developed into a multi-use trail as part of Phase II,~~ multi-functional corridor would consist of approximately 10 feet of pavement with unpaved shoulders ranging from 2 to 3 feet. Three bridges are proposed to provided access across Whitehouse and Laguna Creeks. The multi-functional corridor is necessary to provide much needed maintenance access to both creeks and to remove an existing gap in the City’s trail system.

Currently, no lighting fixtures are proposed along the multi-functional corridor or as part of the ~~proposed~~ bridge structures. If lighting is considered in future phases of the Project, these fixtures will utilize Light Emitting Diode (LED) bulbs for energy efficiency. LED bulbs are energy efficient (consuming less than 20 watts per day) and have a long use-life. Construction of the Project would result in a short-term increase in consumption of oil-based energy products associated with construction equipment; however, consumption of those oil-based energy products necessary for the Project would be used efficiently and in accordance with applicable local, state, and federal laws. Appropriate construction equipment would be used to minimize wasteful or inefficient actions, and construction energy consumption would not cause a significant reduction in available supplies. Therefore, the impact would be less than significant.

b) **No Impact.** The Project would implement numerous General Plan transportation-related goals and policies relevant to increasing opportunities for multi-modal transportation, creating bicycle accessibility, and closing gaps in the current bicycle network. Therefore, the ~~proposed~~ Project would provide for more energy-efficient transportation options within the City, and the overall effect to energy efficiency would be beneficial. Therefore, the Project would not conflict with or obstruct a State or local plan for renewable energy, and no impact would occur.

VII. GEOLOGY AND SOILS

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REGULATORY SETTING

For geologic and topographic features, the key federal law is the Historic Sites Act of 1935, which establishes a national registry of natural landmarks and protects “outstanding examples of major geological features.” Topographic and geologic features are also protected under the CEQA.

This section also discusses geology, soils, and seismic concerns as they relate to public safety and Project design. Earthquakes are prime considerations in the design and retrofit of structures.

DISCUSSION

- a) **No Impact.** The Project would not expose people or structures to potential substantial adverse effects, including risk of loss, injury, or death involving rupture of a known fault, strong seismic ground shaking, seismic-related ground failure, or landslides. The Project is not located within an Alquist Priolo Earthquake Fault Zone. The nearest seismic sources are the Midland Fault approximately 23 miles southwest of the Project site, and the Lone Fault approximately 27 miles southeast of the Project site.

Landslides usually occur in locations with steep slopes and unstable soils. According to the California Department of Conservation (CDC) California Geological Survey Seismic Hazards Zonation Program (CDC 2015) the Project area is not within a known area of landslide concern. The majority of the Project area is situated on flat or very gently sloping topography where the potential for slope failure is minimal to low. The Project would also have no impact related to seismic-related failure, including liquefaction, because the potential is believed to be slight at this predominantly flat, low-seismicity site. Design and construction in accordance with Caltrans' seismic design criteria will ensure that substantial impacts due to seismic forces and displacements are avoided or minimized to the extent feasible. The Project is not on a geologic unit or soil that is unstable or that would become unstable as a result of the Project. On- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse is not anticipated. The Project would result in no impact.

- b) **Less than Significant with Mitigation.** The NRCS Web Soil Survey was used to identify soils within the BSA (NRCS 2018). Specific soil units within the BSA include: Bruella sandy loam, 0 to 2 percent slopes; Dierssen sandy clay loam, drained, 0 to 2 percent slopes; Madera loam, 0 to 2 percent slopes, San Joaquin silt loam, leveled, 0 to 2 percent slopes, and; San Joaquin silt loam, 0 to 3 percent slopes. The proposed Project would consist of the construction of the multi-functional maintenance access road and bridges along Laguna and Whitehouse Creek, which is anticipated to require bank disturbance and vegetation removal

The construction of the bridges, and additional ground disturbance along the maintenance access road would cause potential impacts of soil erosion or loss of topsoil. Potential impacts to soils would be minimized through soil stabilization measures covered within the required General Construction MS4 Permit and implementation of the SWPPP as discussed in Section 2.4 and Section X. Erosion control practices outlined in a SWPPP, would reduce any potential impacts of the Project to a less than significant level, and no mitigation is required. In addition, measures **WQ-1** through **WQ-4** in Section X of this document would further reduce impacts to erosion of soil to less than significant with mitigation.

- c) **No Impact.** Refer to discussion a). The Project will not be located on soil that is known to be unstable or would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. No impact would occur due to the Project.
- d) **No Impact.** Refer to discussion a) and b). The Project will not be located on expansive soils creating substantial risks to life or property. No impact would occur due to the Project.
- e) **No Impact.** The Project will not utilize septic tanks or an alternative waste water disposal system on the site. Therefore, the Project would have no impact due to soils incapable of adequately supporting septic systems.
- f) **Less than Significant with Mitigation.** A literature review was performed to determine whether paleontological resources have been previously identified in the Project area and to identify the overall paleontological sensitivity of the Project area.

According to the Sacramento County General Plan (2011), a search of the University of California Museum of Paleontology (UCMP) collections database identified five localities

3.0 INITIAL STUDY CHECKLIST

in Sacramento County where paleontological resources have been identified. These fossil remains were encountered during excavation activities in Sacramento County within Pleistocene aged formations, and all were within the Riverbank formation.

A review of the Geologic Map of the Sacramento Quadrangle prepared by the California Geological Survey (2001) shows the Project area is within the Riverbank Formation. While a locality search did not identify any occurrences of paleontological resources within the Project area, literature research revealed that a fossilized mammoth was found in the City, within the Rancho Verde residential housing development, in 2006 approximately 4.5 miles southwest of the Project area. This fossil finding was at approximately 4 feet below ground surface. The vertical ground disturbance depth for the Project area is primarily 1 foot for the corridor but can extend 10 feet in depth for construction of the bridge abutments. Further, extensive ground disturbance has occurred throughout the Project area as result of previous field discing, grading, channelization of Whitehouse Creek, construction of the detention basins north of the Creekside Christian Church, and development of a parking lot, landscaping, and irrigation system between Creekside Christian Church and Whitehouse Creek.

When the proximity of the Project to the known paleontological occurrence, the presence of the Riverbank Formation within the Project area, the extent of ground disturbance, and the primarily shallow vertical ground disturbance depth required to construct the Project are viewed collectively, the potential for intact paleontological resources to be present within the Project area is considered low; however, with any project requiring ground disturbance within a potentially sensitive area, there is always the possibility that unknown paleontological resources may be unearthed during construction. With the implementation of mitigation measures **PAL-1** and **PAL-2**, Project impacts regarding direct or indirect impacts to paleontological resources would be less than significant with mitigation.

PAL-1: Prior to the start of construction, all construction personnel shall receive a paleontological sensitivity training, detailing the types of paleontological resources that may be encountered and procedures to follow if a find should occur.

PAL-2: If paleontological resources (i.e., fossils) are discovered during ground-disturbing activities, the implementing agency will immediately be notified, and will ensure that their contractors shall stop work in that area and within 100 feet of the find until a qualified paleontologist can assess the significance of the find and develop appropriate treatment measures. Treatment measures will be made in consultation with the implementing agency.

VIII. GREENHOUSE GAS EMISSIONS

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

REGULATORY SETTING

While climate change has been a concern since at least 1988, as evidenced by the establishment of the United Nations and World Meteorological Organization’s Intergovernmental Panel on Climate Change (IPCC), the efforts devoted to greenhouse gas (GHG) emissions reduction and climate change research and policy have increased dramatically in recent years. These efforts are primarily concerned with the emissions of GHG related to human activity that include CO₂, CH₄, NO_x, nitrous oxide, tetrafluoromethane, hexafluoroethane, sulfur hexafluoride, HFC-23 (fluoroform), HFC-134a (s, s, s, 2 –tetrafluoroethane), and HFC-152a (difluoroethane).

In 2002, with the passage of Assembly Bill 1493 (AB 1493), California launched an innovative and pro-active approach to dealing with GHG emissions and climate change at the state level. AB 1493 requires the CARB to develop and implement regulations to reduce automobile and light truck GHG emissions. These stricter emissions standards were designed to apply to automobiles and light trucks beginning with the 2009-model year; however, in order to enact the standards California needed a waiver from the EPA. The waiver was denied by the EPA in December 2007 and efforts to overturn the decision had been unsuccessful. See *California v. Environmental Protection Agency*, 9th Cir. Jul. 25, 2008, No. 08-70011. On January 26, 2009, it was announced that the EPA would reconsider their decision regarding the denial of California’s waiver. On May 18, 2009, President Obama announced the enactment of a 35.5 mpg fuel economy standard for automobiles and light duty trucks. On June 30, 2009, EPA granted California the waiver. The granting of the waiver has allowed California to implement even stronger standards. In 2013 CARB adopted new Phase 1 regulation for GHG emissions, establishing GHG emission limits on truck and engine manufacturers that harmonizes with the EPA rule. In 2016, the EPA and the National Highway Traffic Safety Administration (NHTSA), adopted federal Phase 2 standards that built on the Phase I standards to achieve additional GHG reductions. California aligned with these federal Phase 2 standards in 2018.

On June 1, 2005, Governor Arnold Schwarzenegger signed Executive Order S-3-05. The goal of this Executive Order is to reduce California’s GHG emissions to: 1) 2000 levels by 2010, 2) 1990 levels by the 2020 and 3) 80 percent below the 1990 levels by the year 2050. In 2006, this goal was further reinforced with the passage of Assembly Bill 32 (AB 32), the Global Warming Solutions Act of 2006. AB 32 sets the same overall GHG emissions reduction goals while further mandating that CARB create a plan, which includes market mechanisms, and implement rules to achieve “real, quantifiable, cost-effective reductions of greenhouse gases.” Executive Order S-20-06 further directs state agencies to begin implementing AB 32, including the recommendations made by the state’s Climate Action Team. With Executive Order S-01-07, Governor Schwarzenegger set forth the low carbon fuel standard for California. Under this executive order, the carbon intensity of California’s transportation fuels is to be reduced by at least 10 percent by 2020.

3.0 INITIAL STUDY CHECKLIST

Climate change and GHG reduction is also a concern at the federal level; however, at this time, no legislation or regulations have been enacted specifically addressing GHG emissions reductions and climate change. California, in conjunction with several environmental organizations and several other states, sued to force the EPA to regulate GHG as a pollutant under the Clean Air Act (*Massachusetts vs. [EPA] et al.*, 549 U.S. 497 (2007)). The court ruled that GHG does fit within the Clean Air Act's definition of a pollutant, and that the EPA does have the authority to regulate GHG. Despite the Supreme Court ruling, there are no promulgated federal regulations to date limiting GHG emissions. On December 7, 2009, the EPA Administrator signed two distinct findings regarding greenhouse gases under section 202(a) of the Clean Air Act:

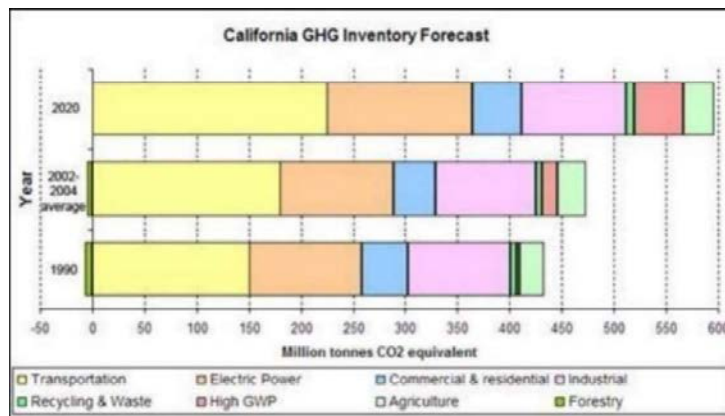
Endangerment Finding: The Administrator found that the current and projected concentrations of the six key well-mixed greenhouse gases--carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆) in the atmosphere threaten the public health and welfare of current and future generations.

Cause or Contribute Finding: The Administrator found that the combined emissions of these well-mixed greenhouse gases from new motor vehicles and new motor vehicle engines contribute to the greenhouse gas pollution which threatens public health and welfare.

These findings do not themselves impose any requirements on industry or other entities. However, this action is a prerequisite to finalizing the EPA's greenhouse gas emission standards for light-duty vehicles, which were jointly by EPA and the Department of Transportation's National Highway Safety Administration on September 15, 2009.

According to Recommendations by the Association of Environmental Professionals on How to Analyze GHG Emissions and Global Climate Change in CEQA Documents (March 5, 2007), an individual project does not generate enough GHG emissions to significantly influence global climate change. Rather, global climate change is a cumulative impact. This means that a project may participate in a potential impact through its incremental contribution combined with the contributions of all other sources of GHG. In assessing cumulative impacts, it must be determined if a project's incremental effect is "cumulatively considerable." See CEQA Guidelines sections 15064(i)(1) and 15130. To gather sufficient information on a global scale of all past, current, and future projects in order to make this determination is a difficult if not impossible task. As part of its supporting documentation for the Draft *Climate Change Scoping Plan*, CARB recently released an updated version of the GHG inventory for California (June 26, 2008). Within the report, **Figure 10** is a graphical representation of the total GHG emissions for California for 1990, 2002-2004 average, and 2020 projected if no action is taken.

Figure 10. California Greenhouse Gas Inventory



DISCUSSION

- a) **Less Than Significant.** GHG emissions for transportation projects can be divided into those produced during construction and those produced during operations. For the Project, construction GHG emissions would include emissions produced by onsite construction equipment. As discussed in Section 2.3, "Air Quality", construction emission would be reduced through implementation of mitigation measure AQ-1.

GHG emissions produced during operations are those that result from potentially increased traffic volumes or changes in automobile speeds. By design, the multi-functional corridor Phase II of the Project is intended to increase pedestrian and bicycle accessibility to existing communities, schools and other existing trails and further encourage non-motorized travel within the Project area. The Project would not increase the number of automobiles in the traffic system; conversely, by completion of a gap within the City's trail system, the Project may reduce overall automobile use. No impact to greenhouse gas emissions or climate change would result from operations.

Construction in Sacramento County contributes approximately 68,857 metric tons of GHG every year (Sacramento Countywide Regional Community Greenhouse Gas Inventory 2013). The on-site construction equipment for Project is anticipated to emit 373.97 metric tons of GHG during construction, approximately <0.001% of the annual GHG emissions during construction within Sacramento County. Therefore, the ~~proposed~~ Project contribution to global climate change through GHG emissions are considered less than significant.

- b) **No Impact.** Implementation of the ~~proposed~~ Project would not conflict with or obstruct implementation of any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. By design, ~~proposed~~ improvements include consistency with the goals identified by the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan (2021). The ~~proposed~~ Project would also be consistent with circulation policies outlined in the City of Elk Grove and Sacramento County General Plans. The ~~Proposed~~ Project aligns with Policy CI-1 of the City of Elk Grove General Plan which promotes all modes of travel including bicycle and pedestrian to coordinate with efforts to reduce air pollution (City of Elk Grove 2011). The ~~Proposed~~ Project also aligns with Policy AQ-1 of the Sacramento County General Plan Air Quality Element, which promotes the development of pedestrian/bicycle access and circulation to encourage residents to use alternative modes of transportation to conserve air quality and minimize direct and indirect emission of air contaminants (County of Sacramento 2017). Construction and operation of the ~~proposed~~ Project would be implemented consistent with applicable regulatory standards and requirements, including consistency with all applicable SMAQMD rules and thresholds. Therefore, no impact would result from development of the ~~Proposed~~ Project.

IX. HAZARDS AND HAZARDOUS MATERIALS

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REGULATORY SETTING

Hazardous materials and hazardous wastes are regulated by many state and federal laws. These include not only specific statutes governing hazardous waste, but also a variety of laws regulating air and water quality, human health and land use.

Hazardous waste in California is regulated primarily under the authority of the federal Resource Conservation and Recovery Act of 1976, and the California Health and Safety Code. Other California laws that affect hazardous waste are specific to handling, storage, transportation, disposal, treatment, reduction, cleanup and emergency planning.

Worker health and safety and public safety are key issues when dealing with hazardous materials that may affect human health and the environment. Proper disposal of hazardous material is vital if it is disturbed during Project construction.

DISCUSSION

- a) **Less than Significant with Mitigation.** The Project would involve the use of heavy equipment for grading, hauling, and materials handling. Use of this equipment may require the use of fuels and other common materials that have hazardous properties (e.g., fuels are flammable). These materials would be used and stored in accordance with all federal, state, and local applicable laws and regulations, and, if used properly, would not pose a hazard to people, animals, or plants. All refueling of construction vehicles and equipment

3.0 INITIAL STUDY CHECKLIST

would occur within the designated staging area for the Project, and away from any aquatic features. The use of hazardous materials would be temporary, and the Project would not include a permanent use or source of hazardous materials. Mitigation Measure **HAZ-1** would reduce any potential impacts to a less than significant level from temporary construction equipment and activities.

- b) Less than Significant with Mitigation.** The Project would involve the construction of a maintenance access road. With any Project conducting ground disturbance, there is a potential for unknown contaminants or accident conditions involving the release of hazardous materials into the environment, as well as upset or accident relating to machinery. The Sacramento County Environmental Management Division (SCEMD) is the Certified Unified Program Agency (CUPA) for the incorporated and unincorporated areas within Sacramento County. As the CUPA, the SCEMD regulates the use, storage, and disposal of hazardous materials and is available to respond to hazardous materials complaints or emergencies, if any, during construction. The handling, use, and storage of hazardous materials during construction would be required to be compliant with SCEMD standards, and with the implementation of **HAZ-1** impacts are considered less than significant with mitigation incorporated.

HAZ-1: The contractor shall prepare a Spill Prevention, Control, and Countermeasure Program (SPCCP) prior to the commencement of construction activities. The SPCCP shall include information on the nature of all hazardous materials that shall be used on-site. The SPCCP shall also include information regarding proper handling of hazardous materials, and clean-up procedures in the event of an accidental release. The phone number of the agency overseeing hazardous materials and toxic clean-up shall be provided in the SPCCP.

- c) Less than Significant with Mitigation.** ~~The construction phase~~Construction of the ~~proposed~~Project has the potential to result in emissions of toxic air contaminants/HAPs in the form of diesel particulate matter emissions from the operation of diesel-fueled internal combustion engines. Creekside Christian Church is adjacent to a segment of the ~~proposed~~Project. Within Creekside Christian Church, the Shining Stars Preschool/Kindergarten provide childcare services. Under Measures AQ-1 discussed in Section III above, the City would apply SMAQMD Basic Construction Emission Control Practices, to reduce any potential emissions to a less than significant level. Implementation of BMPs and specific instructions for handling of construction equipment such as limiting idle times to a maximum of five minutes along with frequent maintenance of the equipment which ultimately keeps the equipment running and operating like it should and therefore limit the amount of emissions. Additionally, the construction activities would be temporary and intermittent which would further reduce any potential impact.

Hazardous materials used during construction would be typical of common construction activities and would be handled by the contractor in accordance with applicable federal, state, and local regulation for hazardous substances. Additionally, the amount of these materials needed for on-site equipment maintenance would not be enough to cause a significant hazard to the public, or any nearby schools, if released since the quantity of these hazardous materials on-site at any one given time would only amount to a refueling truck and the construction equipment. Measure **HAZ-1** would be implemented to require the contractor to prepare an accidental-spill prevention and response plan which would include BMPs to control for the accidental release of hazardous materials into the environment ensuring spills are appropriately cleaned up and would not result in a release of hazardous materials into the environment.

Therefore, with the implementation of **AQ-1** and **HAZ-1** the Project would have a less than significant with mitigation incorporated related to emitting or handling of hazardous waste within one-quarter mile of an existing school.

AQ-1: Implement SMAQMD Basic Construction Emission Control Practices, where feasible:

- 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 2 feet of freeboard 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 shall be covered.
- Use wet power vacuum street sweepers to remove any visible trackout 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.
- All roadway, driveway, sidewalk, and parking lot paving 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.
- Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [required by 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 2249 and 2449.1].

HAZ-1: The contractor shall prepare a Spill Prevention, Control, and Countermeasure Program (SPCCP) prior to the commencement of construction activities. The SPCCP shall include information on the nature of all hazardous materials that shall be used on-site. The SPCCP shall also include information regarding proper handling of hazardous materials, and clean-up procedures in the event of an accidental release. The phone number of the agency overseeing hazardous materials and toxic clean-up shall be provided in the SPCCP.

d) No Impact. A review of the GeoTracker (SWRCB 2015) and EnviroStor (DTSC 2018) databases indicated that there are no hazardous waste cleanup sites, facilities, or other sites located within the Project area; however, there is one inactive cleanup site, "Obie's Dump" located approximately 1,500 feet north of the Project area and north of Sheldon Road. No Project activities are proposed at this location, and no impacts related to this cleanup site are anticipated to occur. Therefore, the Project would not create a significant hazard to the public or environment and no impact would result from Project implementation.

e) No Impact. The Project would not result in a safety hazard for people residing or working in the Project area as the Project is not within the vicinity of an airport land use plan or within two miles of a public airport or public use airport. Therefore, there would be no impact related to safety of the public in the Project area.

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- f) **No Impact.** The Project would be constructed within an open space area where it would not impair or alter any existing emergency response plan or emergency evacuation plan; therefore, no impact would occur.
- g) **No Impact Less than Significant with Mitigation.** The City of Elk Grove is within a Local Responsibility Area and according to the Sacramento County Local Hazard Mitigation Plan Update, the Project area is designated as a “Moderate” Fire Hazard Severity Zone. However, under Measure AQ-1 discussed in Chapter 3 Section III, all exposed surface areas will be watered two times daily during construction. Additionally, since the Project is being put forth by the City, it is required to follow standard General Plan policies and applicable Fire Code regulations, which would reduce wildland fire hazard risk. With implementation of AQ-1 and General Plan Policies and applicable Fire Code regulations, wildland fire hazard impacts would be less than significant with mitigation. The Project would not expose people or structures to a significant risk of loss, injury, or death involving wildland fires, and no wildlands are adjacent to or within the Project area; therefore, no impact would occur.

X. HYDROLOGY AND WATER QUALITY

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such the project may impede sustainable groundwater management of the basin?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
(i) result in substantial erosion or siltation on- or off-site;	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(iv) impede or redirect flood flows?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REGULATORY SETTING

Section 401 of the Clean Water Act (CWA) requires water quality certification from the State Water Resources Control Board (SWRCB) or from a Regional Water Quality Control Board (RWQCB) when the project requires a CWA Section 404 permit. Section 404 of the CWA requires a permit from the U.S. Army Corps of Engineers (Corps) to discharge dredged or fill material into waters of the United States.

Along with CWA Section 401, CWA Section 402 establishes the National Pollutant Discharge Elimination System (NPDES) permit for the discharge of any pollutant into waters of the United States. The federal Environmental Protection Agency has delegated administration of the NPDES program to the SWRCB and nine RWQCBs. The SWRCB and RWQCB also regulate other waste discharges to land within California through the issuance of waste discharge requirements under authority of the Porter-Cologne Water Quality Act.

The City of Elk Grove along with the Cities of Citrus Heights, Folsom, Galt, Rancho Cordova, and Sacramento, and the County of Sacramento operate under a Municipal Separate Storm Sewer Systems (MS4) permit to discharge urban runoff from in their municipal jurisdictions (Order No. R5-2016-0040 with the Elk Grove-specific General Order No. as R5-2016-0040-005 and NPDES Permit No. CAS0085324) (CVRWQCB, 2016). The permit covers requirements for management of hydromodification and also requires that the City prepare a Storm Water Management Plan (also known as Stormwater Quality Improvement Plans) and impose water quality and watershed

protection measures for all development projects. The intent of the waste discharge requirements in the NPDES Permit is to attain water quality standards and protection of beneficial uses consistent with the Basin Plan. The NPDES permit prohibits discharges from causing violations of applicable water quality standards or resulting in conditions that create a nuisance or water quality impairment in receiving waters. The NPDES also requires every new construction project to secure a permit that implements the following measures:

- Eliminate or reduce non-stormwater discharges to stormwater systems and other waters of the nation.
- Develop and implement a SWPPP.
- Perform inspections of stormwater control structures and pollution prevention measures.

Stormwater quality control measures within Elk Grove are guided by the Sacramento Region Stormwater Quality Design Manual (July 2018). The manual outlines planning tools and requirements to reduce urban runoff pollution to the maximum extent practicable from new development and redevelopment projects, including the use of porous surfaces on roadways.

AFFECTED ENVIRONMENT

Hydrology

Hydrological resources within the BSA include Shortline Lake, Laguna Creek, Whitehouse Creek, and associated wetland features: vernal pools, vernal swales, seasonal wetlands, seasonal wetland swales, and emergent marsh. The City is part of the Sacramento River watershed—a 27,000-square-mile watershed, which includes portions of the Sacramento River and Cosumnes River. Laguna Creek and Whitehouse Creek are part of the Morrison Creek watershed, and Laguna Creek subwatershed, within the Lower Sacramento River Hydrologic Unit (HUC 6). Whitehouse Creek flows from east to west and has been redirected around residential developments north of the Project area. Whitehouse Creek then joins with Laguna Creek within the Project area approximately 0.25 miles east of East Stockton Boulevard. Laguna Creek flows east to west travelling approximately 4000 linear feet through the BSA from Camden Lake to East Stockton Boulevard.

Groundwater

Seasonal groundwater level data was reviewed through the Groundwater Information Center Interactive Map Web Application (<https://gis.water.ca.gov/app/gicima/>) provided by the California Department of Water Resources. In the Project area, ground water depth ranges from 55 to 70 feet. General groundwater depth may be influenced by local pumping, rainfall, and irrigation patterns. The ~~proposed~~ Project is within the Sacramento Valley Groundwater Basin, and more specifically, the South American Subbasin. The South American Subbasin is defined by the American River to the north, the Cosumnes River and Mokelumne River to the south, the Sierra Nevada to the east, and the Sacramento River to the west.

Flooding

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) the majority of the Project lies within the 100-year Flood Zone (see **Appendix D** for FEMA FIRM Maps).

DISCUSSION

a) Less than Significant with Mitigation.

Construction Water Quality Impacts

The Project will disturb greater than one acre of soil, therefore a Construction Storm Water General Permit is required, issued by the State Water Resources Control Board to address storm water runoff. The permit will address clearing, grading, grubbing, and disturbances to the ground, such as stockpiling, or excavation. This permit will also require the City to prepare and implement a SWPPP with the intent of keeping all products of erosion from moving off site into receiving waters. The SWPPP includes BMPs to prevent construction pollutants from entering storm water runoff. Mitigation Measure **WQ-1** through **WQ-4** are required to ensure the Project grading will conform to State Water Resources Control Board standards and in doing so will ensure the Project impacts will be less than significant with mitigation.

Operational Water Quality Impacts

The Project ~~consists of~~includes construction of a multi-functional corridor which will increase maintenance access road which would be developed into a multi-use trail as part of Phase II, with minor improvements to provide trail amenities. ~~Impervious surfaces would be increased~~ within the Project footprint; however, the addition of impervious surfaces would not occur within the entire Project footprint and would be limited to the maintenance access road.

WQ-1: The construction contractor shall adhere to the SWRCB Order No. 2013-0001-DWQ as National Pollutant Discharge Elimination System (NPDES) Permit pursuant to Section 402 of the CWA. The City is designated within the NPDES Phase II General Permit. This General Permit applies to the discharge of stormwater from small municipal separate storm sewer systems (MS4s). Under this permit, stormwater discharges must not cause or contribute to an exceedance of water quality standards contained in the California Toxics Rule or the Water Quality Control Plan for the Sacramento and San Joaquin Basin (Basin Plan).

WQ-2: To conform to water quality requirements, the SWPPP must include the following:

- Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants must be a minimum of 100 feet from surface waters. Any necessary equipment washing must occur where the water cannot flow into surface waters. The Project specifications will require the contractor to operate under an approved spill prevention and clean-up plan;
- Construction equipment will not be operated in flowing water;
- Construction work must be conducted according to site-specific construction plans that minimize the potential for sediment input to surface waters;
- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters;

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- Equipment used in and around surface waters must be in good working order and free of dripping or leaking contaminants; and
- Any concrete rubble, asphalt, or other debris from construction must be taken to an approved disposal site.

WQ-3: Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters must be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not encroach into jurisdictional waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed (*same as BIO-1*).

WQ-4: Contract specifications shall include the following best management practices (BMPs), where applicable, to reduce erosion during construction (*same as BIO-2*):

- Implementation of the Project shall require approval of a site-specific SWPPP that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;
- Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented;
- Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities;
- Roughening and terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed.

b) Less than Significant. The Project would not directly or indirectly result in the construction of uses that would utilize groundwater supplies. However, the Project is currently designed with an impervious surface for the multi-functional access path (totaling approximately 1 acre of impervious surface), which will alter the rate of infiltration at the Project site. However, the Project may consider using pervious pavement during final design. ~~Proposed~~ Impervious surface impacts to groundwater resources would be minimal, as the ~~proposed~~ Project does not contain elements that would add to or draw from groundwater supplies. Additionally, the ~~proposed~~ Project would not be constructed immediately above a preexisting well, nor would areas known to contain wells be disturbed by construction of the ~~proposed~~ Project. Therefore, impacts to groundwater supplies would be less than significant.

c) (i). Less than Significant with Mitigation. The ~~proposed~~ Project consists of construction of a multi-functional access path. Minor loss of vegetation and general disturbance to the soil for construction of the ~~proposed~~ Project would occur within the Project footprint. Removal of vegetation and soil can accelerate erosion processes within the Project area and increase the potential for sediment to enter into Laguna Creek and/or Whitehouse Creek. The Project would also be subject to Chapter 16.44 of the Elk Grove Municipal Code, which establishes administrative procedures, minimum standards for review, and implementation and enforcement procedures for controlling erosion, sedimentation,

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disruption of existing drainage and related environmental damage caused by land clearing activities, grading, filling, and land excavation. Compliance with Chapter 16.44 of the Municipal Code would reduce impacts associated with erosion and siltation. Implementation of **WQ-1** through **WQ-4** will ensure the Project will conform with current regulations and therefore ensure the Project impacts will be less than significant with mitigation.

(ii) and (iii) Less than Significant with Mitigation. The ~~proposed~~ Project is currently designed to add a net impervious surface of approximately 1 acre to the area due to the addition of pavement for multi-functional access path. The Project is located in the proximity of Laguna Creek and Whitehouse Creek, but would not alter the course of either creek or any other stream or river. Any additional stormwater runoff due to a localized increase in impervious surfaces will flow onto adjacent natural or landscaped areas for absorption by vegetation and/or percolation into the ground and will not result in flooding on- or off-site. The existing drainage patterns of the area would not be altered. Further, hydraulic analysis prepared for the Project concluded that the Project would not result in a rise of the existing water surface elevation. Compliance with Chapter 16.44 of the Municipal Code would reduce impacts associated with erosion and siltation. Implementation of **WQ-1** through **WQ-4** will ensure the Project will conform with current regulations and in doing so will ensure the Project impacts will be less than significant with mitigation.

(iv) Less than Significant with Mitigation. The Project would add a net impervious surface of approximately 1 acre to the area due to the addition of pavement for the construction of the multi-functional access path, which will result in an increase in the quantity of runoff generated in a storm event. However, the Project may consider using pervious pavement during final design. The quantity of additional runoff generated from the ~~proposed~~ Project would not be substantial and is not expected to contribute to runoff water that would exceed the capacity of existing or planned stormwater drainage systems in the Project vicinity. Additionally, hydraulic analysis prepared for the Project concluded that the Project would not result in a rise of the existing have a negligible effect on the water surface elevation in the Laguna Creek and Whitehouse Creek floodplain. Compliance with Chapter 16.44 of the Municipal Code would reduce impacts associated with erosion and siltation. Implementation of **WQ-1** through **WQ-4** will ensure the Project shall conform with current regulations and in doing so shall ensure the Project impacts will be less than significant with mitigation.

WQ-1: The construction contractor shall adhere to the SWRCB Order No. 2013-0001-DWQ as National Pollutant Discharge Elimination System (NPDES) Permit pursuant to Section 402 of the CWA. The City is designated within the NPDES Phase II General Permit. This General Permit applies to the discharge of stormwater from small municipal separate storm sewer systems (MS4s). Under this permit, stormwater discharges must not cause or contribute to an exceedance of water quality standards contained in the California Toxics Rule or the Water Quality Control Plan for the Sacramento and San Joaquin Basin (Basin Plan).

WQ-2: To conform to water quality requirements, the SWPPP must include the following:

- Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants must be a minimum of 100 feet from surface waters. Any necessary equipment washing must

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occur where the water cannot flow into surface waters. The Project specifications will require the contractor to operate under an approved spill prevention and clean-up plan;

- Construction equipment will not be operated in flowing water;
- Construction work must be conducted according to site-specific construction plans that minimize the potential for sediment input to surface waters;
- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters;
- Equipment used in and around surface waters must be in good working order and free of dripping or leaking contaminants; and
- Any concrete rubble, asphalt, or other debris from construction must be taken to an approved disposal site.

WQ-3: Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters must be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not encroach into jurisdictional waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed (*same as BIO-1*).

WQ-4: Contract specifications shall include the following best management practices (BMPs), where applicable, to reduce erosion during construction (*same as BIO-2*):

- Implementation of the Project shall require approval of a site-specific SWPPP that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;
- Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented;
- Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities;
- Roughening and terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed.

d) Less than Significant with Mitigation. The majority of the Project location lies within the FEMA 100-year Flood Zone (**Appendix E**). The Project will construct a multi-functional access path adjacent Laguna and Whitehouse Creeks, and include single span concrete bridges where necessary to provide access across Laguna and Whitehouse Creeks. The Project may have short-term impacts associated with potential sediment and/or pollutant runoff during grading and construction. As noted above, the Project is subject to NPDES regulations since these improvements will exceed one acre. The Project is located in the proximity of Laguna Creek and Whitehouse Creek, but is not anticipated to substantially degrade water quality within the creeks, and is not anticipated to substantially degrade

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water quality of groundwater beneath the site. Compliance with Chapter 16.44 of the Municipal Code would reduce impacts associated with erosion and siltation. Implementation of **WQ-1** through **WQ-4** will ensure the Project will conform with current regulations and in doing so will ensure the Project impacts will be less than significant with mitigation.

WQ-1: The construction contractor shall adhere to the SWRCB Order No. 2013-0001-DWQ as National Pollutant Discharge Elimination System (NPDES) Permit pursuant to Section 402 of the CWA. The City is designated within the NPDES Phase II General Permit. This General Permit applies to the discharge of stormwater from small municipal separate storm sewer systems (MS4s). Under this permit, stormwater discharges must not cause or contribute to an exceedance of water quality standards contained in the California Toxics Rule or the Water Quality Control Plan for the Sacramento and San Joaquin Basin (Basin Plan).

WQ-2: To conform to water quality requirements, the SWPPP must include the following:

- Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants must be a minimum of 100 feet from surface waters. Any necessary equipment washing must occur where the water cannot flow into surface waters. The Project specifications will require the contractor to operate under an approved spill prevention and clean-up plan;
- Construction equipment will not be operated in flowing water;
- Construction work must be conducted according to site-specific construction plans that minimize the potential for sediment input to surface waters;
- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters;
- Equipment used in and around surface waters must be in good working order and free of dripping or leaking contaminants; and
- Any concrete rubble, asphalt, or other debris from construction must be taken to an approved disposal site.

WQ-3: Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters must be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not encroach into jurisdictional waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed (*same as BIO-1*).

WQ-4: Contract specifications shall include the following best management practices (BMPs), where applicable, to reduce erosion during construction (*same as BIO-2*):

- Implementation of the Project shall require approval of a site-specific SWPPP that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;

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- Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented;
- Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities;
- Roughening and terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed.

e) Less than Significant Impact with Mitigation. The Project must adhere to the MS4 and NPDES permit which includes water quality and watershed protection measures necessary for proper storm water management. The Project would not obstruct implementation of the mS4 or any groundwater management plan. Further, implementation of **WQ-1** through **WQ-4** will ensure the Project will conform with current regulations and therefore ensure the Project impacts will be less than significant with mitigation.

WQ-1: The construction contractor shall adhere to the SWRCB Order No. 2013-0001-DWQ as National Pollutant Discharge Elimination System (NPDES) Permit pursuant to Section 402 of the CWA. The City is designated within the NPDES Phase II General Permit. This General Permit applies to the discharge of stormwater from small municipal separate storm sewer systems (MS4s). Under this permit, stormwater discharges must not cause or contribute to an exceedance of water quality standards contained in the California Toxics Rule or the Water Quality Control Plan for the Sacramento and San Joaquin Basin (Basin Plan).

WQ-2: To conform to water quality requirements, the SWPPP must include the following:

- Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants must be a minimum of 100 feet from surface waters. Any necessary equipment washing must occur where the water cannot flow into surface waters. The Project specifications will require the contractor to operate under an approved spill prevention and clean-up plan;
- Construction equipment will not be operated in flowing water;
- Construction work must be conducted according to site-specific construction plans that minimize the potential for sediment input to surface waters;
- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters;
- Equipment used in and around surface waters must be in good working order and free of dripping or leaking contaminants; and
- Any concrete rubble, asphalt, or other debris from construction must be taken to an approved disposal site.

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- WQ-3:** Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters must be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not encroach into jurisdictional waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed (*same as BIO-1*).
- WQ-4:** Contract specifications shall include the following best management practices (BMPs), where applicable, to reduce erosion during construction (*same as BIO-2*):
- Implementation of the Project shall require approval of a site-specific SWPPP that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;
 - Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented;
 - Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities;
 - Roughening and terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed.

XI. LAND USE AND PLANNING

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

AFFECTED ENVIRONMENT

The Project is located in an open space area, surrounded by developed residential, public services, and commercial land uses. The City’s General Plan lists the areas surrounding the Project site as Low Density Residential (LDR), Regional Commercial (RC), Public Services (PS), Resource Management & Conservation (RMC), and Rural Residential (RR), with State Route (SR) 99 located just west of the Project area. The majority of the Project would occur in area listed in the General Plan Land Use Element as Public Services (PS), although a small segment of the multi-functional access path would cross through area designated as RMC.

Public Services (PS)

Public Services uses include lands owned by the City of Elk Grove, the Elk Grove Unified School District or other public-school districts, the Cosumnes Community Services District (with the exception of public parks), and other public agencies. This designation also includes other institutional uses such as higher education, private schools, cemeteries, or post offices. This designation does not include hospitals or churches, which are accommodated in the Employment Center and Residential designations, respectively (Elk Grove 2019).

Resource Management and Conservation (RMC)

Resource Management and Conservation uses consist of both public and private lands, including but not limited to lands used for habitat mitigation, wetland protection, and floodways. Lands designated as Resource Management and Conservation are oriented toward passive open space uses, rather than active uses, which are include in the Parks and Open Space designation (Elk Grove 2019).

The Project area does not contain any land that was set aside or established as conservation or mitigation lands. The portion of the Project which crosses RMC consists of a drainage/floodway and is zoned for open space.

DISCUSSION

- a) **No Impact.** The Project would not divide an established community. The ~~proposed~~ Project consists of construction of a multi-functional access path from the existing Laguna Creek Trail, located south of the intersection of Beckington Drive and White Peacock Way, to a connection at East Stockton Boulevard approximately 750 feet south of the intersection of East Stockton Boulevard and Cantwell Drive. No barriers to movement through the local communities would be installed. The ~~proposed~~ Project would improve the off-street multiuse trail connectivity in the area. Therefore, no impact would occur.

- b) **No Impact.** The ~~proposed~~ Project consists of construction of a multi-functional access path from the existing Laguna Creek Trail multi-use corridor. The ~~proposed~~ Project is consistent with the City's General Plan (as amended) and the City's Bicycle, Pedestrian, and Trails Master Plan. While the Project would cross through land designated as RMC, this designation was applied due to the two detention basins and not as habitat mitigation. The multi-functional access path would not alter the functionality of the detention basins. Further, the Project would not convert any areas established as a result of avoiding or mitigating an environmental effect. Therefore, the ~~proposed~~ Project would not conflict or cause a significant impact due to a conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project. No impact would occur.

XII. MINERAL RESOURCES

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

AFFECTED ENVIRONMENT

The Surface Mining and Reclamation Act of 1975 requires the State Geologist to inventory and classify selected mineral resources in California. The ~~proposed~~-Project is located in an area of the City of Elk Grove, which is covered by the MRZ-3 classification for mineral resources. The MRZ-3 classification covers areas “containing aggregate deposits, the significance of which cannot be evaluated from available data” (California Department of Conservation 1999). No mineral extraction activities occur in the vicinity of the Project site. None of the roadways in the vicinity of the ~~proposed~~-Project serve as routes for traffic involved in mineral extraction activities.

DISCUSSION

- a) **No Impact.** The ~~proposed~~-Project would not result in the use or extraction of any mineral or energy resources and would not restrict access to known mineral resource areas. Furthermore, the ~~proposed~~-Project would not result in the loss of availability of a known mineral resource. Therefore, no impact would occur.
- b) **No Impact.** Refer to discussion a), above. The ~~proposed~~-Project would have no impact on mineral resources. No impact would occur.

XIII. NOISE

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

AFFECTED ENVIRONMENT

Noise-sensitive land uses generally include those uses where exposure to noise would result in adverse effects, as well as uses where quiet is an essential element of their intended purpose. The City’s General Plan does not define noise-sensitive land uses, but typical noise-sensitive land uses include receptors such as residences, parks, schools, and/or hospitals. Noise-sensitive land uses near the Project site include Camden Park, residences along White Peacock Way, Baisley Court, and Kingmont Way, Creekside Christian Church, WellQuest of Elk Grove, and East Lawn Elk Grove Memorial Park. Motor vehicles traveling on these roadways, surrounding neighborhood roads, and SR-99 are the primary contributor to the existing noise environment at the Project site.

REGULATORY SETTING

Since operation of the ~~proposed~~ Project does not include any motor vehicle transportation uses, this section focuses on the regulatory setting as it relates to construction-related noise.

City of Elk Grove General Plan

The City’s General Plan Update (2021) contains goals and policies designed to protect the community from the harmful and annoying effects of exposure to excessive noise. General Plan goals applicable to the ~~proposed~~ Project include, **Goal N-1: Sensitive Uses are Protected From Noise Intrusion**, **Goal N-2: Community Noise Exposure is Minimized**. These goals are supported by policies described in the City’s General Plan.

The City’s General Plan also includes maximum allowable noise standards for projects affected by transportation noise sources. Noise compatibility of ~~proposed~~ Project is determined in comparison to these standards. As depicted in **Table 8**, the City’s maximum acceptable exterior noise standard for residential land uses affected by transportation noise sources is 60 dBA Leq.

City of Elk Grove Noise Ordinance (Municipal Code Chapter 6.32)

Elk Grove Municipal Code Title 6, Chapter 6.32, Noise Control, regulates noise generated by non-transportation sources. Section 6.32.100 (Exemptions) of the Code restricts construction activities to occur between the hours of 7:00 a.m. and 7:00 p.m., within close proximity to residential uses. Noise associated with construction not located in close proximity to residential uses may occur between the hours of 6:00 a.m. and 8:00 p.m.

Table 8. Maximum Allowable Noise Exposure, Transportation Noise Sources

Land Use	Outdoor Activity Areas ^{a,b}	Interior Spaces	
		L _{DN} /dB	L _{DN} /dB
Residential	60 ^{d,g}	45	
Residential subject to noise from railroad tracks, aircraft overflights, or similar noise sources which produce clearly identifiable, discrete noise events (the passing of a single train, as opposed to relatively steady noise sources as roadways)	60 ^{d,g}	40 ^f	
Transient Lodging	60 ^{d,g}	45	
Hospitals, Nursing Homes	60 ^{d,g}	45	
Theatres, Auditoriums, Music Halls			35
Churches, Meeting Halls	60 ^{d,g}		40
Office Buildings			45
Schools, Libraries, Museums			45

- a. Where the location of outdoor activity areas is unknown, the exterior noise level standards shall be applied to the property line of the receiving land use. Where it is not practical to mitigate exterior noise levels at patios or balconies of apartment complexes, a common area such as a pool or recreation area may be designated as the outdoor activity area.
- b. Transportation projects subject to Caltrans review or approval shall comply with the Federal Highway Administration noise standards for evaluation and abatement of noise impacts.
- c. As determined for a typical worst-case hour during periods of use.
- d. Where it is not possible to reduce noise in outdoor activity areas to 60dB,Ldn or less using a practical application of the best available noise reduction measures, an exterior noise level of up to 65 dB,Ldn may be allowed provided that available exterior noise level reduction measures have been implemented and interior noise levels are in compliance with this table.
- e. In the case of hotel/motel facilities or other transient lodging, outdoor activity areas such as pool areas may not be included in the project design. In these cases, only the interior noise level criterion will apply.
- f. The intent of this noise standard is to provide increased protection against sleep disturbance for residences located near railroad tracks.
- g. In cases where the existing ambient noise level exceeds 60 dbA, the maximum allowable project-related permanent increase in ambient noise levels shall be 3 dBA /Ldn.

However, when an unforeseen or unavoidable condition occurs during a construction project and the nature of the project necessitates that work in progress be continued until a specific phase is completed, the contractor or owner shall be allowed to continue work after 7:00 p.m. and to operate machinery and equipment necessary until completion of the specific work in progress can be brought to conclusion under conditions which will not jeopardize inspection acceptance or create undue financial hardships for the contractor or owner.

DISCUSSION

The Project components include a maintenance and recreational facility that would not produce substantial noise during operation and would not contribute substantially to the ambient noise environment. Implementation of the proposed Project would not result in the construction or operation of any transportation uses or stationary noise sources; therefore, this section focuses on construction-related noise impacts.

a) Less than Significant with Mitigation. Construction noise typically occurs intermittently and varies depending upon the nature or phase (e.g., demolition/land clearing, grading and excavation) of construction. Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. Typical noise levels for individual pieces of construction equipment are summarized in **Table 9**.

Table 9. Typical Construction Equipment Noise Levels

Type of Equipment	Typical Noise Level (dBA) 50 feet from Source
Dozer	85
Excavator	88
Concrete Mixer	85
Compactor	82
Loader	85
Backhoe	80
Grader	85
Crane	83
Generator	81
Truck	88

During construction, noise from equipment would cause short-term localized increases in ambient noise levels. The actual noise levels at any particular location would depend on a variety of factors, including the type of construction equipment or activity involved, distance to the source of the noise, obstacles to noise that exist between the receptor and the source, time of day, and similar factors. Construction of the proposed Project would result in a temporary, periodic increase in ambient noise levels that would exceed the City noise standards. However, this increase would be temporary, intermittent, and limited to daytime hours. Further, mitigation is available that would require limits to the hours of construction, appropriate locations for staging areas, noise-reduction intake and exhaust mufflers and engine shrouds for construction equipment, and minimization of construction equipment idling, which would reduce impacts to less than significant. Implementation of mitigation measures **NOI-1** through **NOI-4** will reduce impacts to less than significant by limiting the hours of noise-generating construction operations to daytime hours, locating construction equipment and staging areas away from sensitive land uses, requiring construction equipment to be equipped with noise-reduction intake and exhaust mufflers and engine shrouds, and prohibiting the idling of motorized construction equipment when not in use.

NOI-1: Noise-generating construction operations shall be limited to between the hours of 7 a.m. and 7 p.m. within close proximity to residential uses. Noise associated with construction not located in close proximity to residential uses may occur between the hours of 6:00 a.m. and 8:00 p.m. in accordance with the Elk Grove General Plan Noise Ordinance.

NOI-2: Construction equipment and equipment staging areas shall be located at the farthest distance possible from adjacent sensitive land uses.

NOI-3: Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturer recommendations. Equipment engine shrouds shall be closed during equipment operation.

NOI-4: When not in use, motorized construction equipment shall not be left idling.

b) Less than Significant with Mitigation. The proposed Project would construct a multi-functional access path in an open space area with bridges to provide access across Laguna and Whitehouse Creeks. No groundborne vibration or noise levels would be generated during use of the multi-functional access path. Groundborne vibration and noise levels would be generated during construction of the Project. Construction would be temporary and would occur between the hours of 6 a.m. and 8 p.m. on weekdays in accordance with Chapter 6.32, Noise Control, of the Elk Grove Municipal Code, or between the hours of 7 a.m. and 7 p.m. on weekdays where

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adjacent to residential uses in accordance with Elk Grove General Plan Policy N-1-7 and as specified in **NOI-1**. Pile driving or other activities commonly associated with vibration may occur. Impacts would be less than significant with incorporation of mitigation measures **NOI-1** through **NOI-4** by limiting the hours of noise-generating construction operations to daytime hours, locating construction equipment and staging areas away from sensitive land uses, requiring construction equipment to be equipped with noise-reduction intake and exhaust mufflers and engineer shrouds, and prohibiting the idling of motorized construction equipment when not in use. Therefore, Project impacts would be less than significant with mitigation.

NOI-1: Noise-generating construction operations shall be limited to between the hours of 7 a.m. and 7 p.m. within close proximity to residential uses. Noise associated with construction not located in close proximity to residential uses may occur between the hours of 6:00 a.m. and 8:00 p.m. in accordance with the Elk Grove General Plan Noise Ordinance.

NOI-2: Construction equipment and equipment staging areas shall be located at the farthest distance possible from adjacent sensitive land uses.

NOI-3: Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturer recommendations. Equipment engine shrouds shall be closed during equipment operation.

NOI-4: When not in use, motorized construction equipment shall not be left idling.

c) No Impact. The ~~proposed~~ Project is not located in the vicinity of a private airstrip, airport land use plan, or within two miles of a public airport or public use airport. Therefore, no impact would occur.

XIV. POPULATION AND HOUSING

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

AFFECTED ENVIRONMENT

In the ten years prior to the incorporation of the City in July 2000, the population increased by 70.5 percent, in part due to annexations. The City began to rapidly develop as a result of an increase in jobs to the Sacramento County region and the availability of land outside the downtown Sacramento area. According to the California Department of Finance, the population of the City was approximately 170,011 in 2017, which is a 1.2 percent increase from the previous year (DOF 2018). Several housing developments are planned in the City. North of the Project site, an area of land is planned for multi-family residential use. The proposed Project does not involve the addition of new housing or the displacement of existing housing.

DISCUSSION

a) No Impact. The proposed Project consists of construction of a multi-functional access path and bridges to provide access across Laguna and Whitehouse Creeks. The proposed Project does not include the construction of new homes or businesses, nor does it include extension or construction of new roadways which could potentially induce growth. Therefore, the Project would have no potential to induce substantial population growth in the area, either directly or indirectly. No impact would occur.

b) No Impact. The Project will not displace any number of existing housing or necessitate the construction of replacement housing. No impact would occur.

XV. PUBLIC SERVICES

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

AFFECTED ENVIRONMENT

The City receives general public safety and law enforcement services from the City of Elk Grove Police Department. The Elk Grove Community Services District Fire Department provides fire protection and emergency services to the City. The Elk Grove Unified School District provides educational services to the area in the Project vicinity. Additionally, the City provides maintenance of public facilities, including those intended for bicycle and pedestrian use.

DISCUSSION

a-b) Fire Protection, Police Protection:

Less than Significant Impact. The proposed Project consists of constructing a new multi-functional access path with bridges to provide access across Laguna and Whitehouse Creeks. Police and fire protection (including ambulance services) are currently provided by the Elk Grove Police Department and the Consumnes Community Service District Fire Department (CCSDFD).

The Elk Grove Police Department has 146 sworn officers and 108 civilian employees who provide law enforcement and policing services to the City (Elk Grove Police Department 2021). In addition, the City’s General Plan, Safety Element (City of Elk Grove 2021a) contains policies relating to police protection. Under Policy SAF-1-1 the City shall “regularly monitor and review the level of police staffing provided in Elk Grove, and ensure that sufficient staffing and resources are available to serve local needs” (City of Elk Grove 2021). This policy ensures adequate police protection in the City as it expands and develops. The BPTMP also identifies thoughtful design where “[t]he design of trails shall provide a degree of privacy to surrounding residences, but still allow for informal monitoring of the trail” (GHD, Inc. 2021). Police patrols of the new multi-functional access path and bridges will occur when construction is complete; however, the trail is approximately 1 mile long in length and can be included in existing patrols occurring throughout other portions of the Laguna Creek Trail and adjacent residences.

There are currently eight stations operated by CCSDFD. CCSDFD fire station 76 is within one-half mile of the Project, located at 8545 Sheldon Road, while two additional stations, Stations 71 and 74, are located within two miles of the Project.

The General Plan also has safety policies to ensure efficient movement of police and firefighting equipment and safe evacuation of residents, and the City cooperates with the CCSDFD to reduce fire hazards, assist in fire suppression, and promote fire safety. The BPTMP requires that all bicycle and pedestrian trails be at minimum 10 feet of paved trail, which is consistent with Cosumnes Community Service District fire standards, so that the trails can double as an emergency vehicle access (GHD, Inc. 2021). The current ~~proposed~~ access path and bridges are 10 feet in width and can support the weight of emergency vehicles.

Development of the ~~proposed~~ Project would not result in increased population and residential structures; however, fire and police services could be required for users of the new multi-functional access path. As the ~~proposed~~ Project is located within portions of the City already serviced by police and fire services, as the path has been designed to accommodate emergency vehicles, and as the new path has a short distance of one mile in length, it is anticipated that the City would be able to provide police and fire protection services for the ~~proposed~~ Project will continuing to maintain acceptable service ratios, response times, and performance objectives. For these reasons, a less than significant impact to police and fire protection is anticipated.

c-d) Schools, Parks:

No Impact. The ~~proposed~~ Project does not include new development for habitation, nor does it include development of new businesses. Therefore, the ~~proposed~~ Project would not induce population growth and furthermore, does not include any components that would result in any schools or parks. Establishment of additional facilities to maintain acceptable service ratios for the public would not be necessary. Therefore, no impact would occur.

e) Other Public Facilities

Less than Significant Impact. The City's Department of Public Works, Operation and Maintenance Division is responsible for multi-use trails on public property (City of Elk Grove 2022c). The BPTMP identifies long-term trail maintenance responsibilities. All of the trails within the City of Elk Grove are maintained in partnership by the Cosumnes Community Services District (CCSD) and the City of Elk Grove. The City of Elk Grove maintains trail pavement while the CCSD is responsible for all other trail features through a Master Agreement. Maintenance includes weed abatement, pruning vegetation for sight distance, sign installation and removal, damage from weather conditions, and general trail clean up (GHD, Inc. 2021). While development of the ~~Proposed~~ Project would introduce new responsibilities for the City and CCSD, the ~~proposed~~ Project was previously planned for and is included in the BPTMP. Impacts on other public facilities are therefore considered less than significant.

XVI. RECREATION

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

AFFECTED ENVIRONMENT

The City’s General Plan (2021) contains goals and policies established to conserve existing national, State, and regional recreation areas, as well as encouragement for the development of additional recreational opportunities to meet the City’s needs. In addition, the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan includes goals that encourage an exceptional public parks network throughout the City and public use of all available pedestrian and bicycle trails. The ~~proposed~~ Project involves the extension of a recreational trail (Laguna Creek Trail) from Camden Park to East Stockton Boulevard via the existing trail connection near the intersection of Beckington Drive and White Peacock Way. Camden Park is 21.4 acres and contains a section of Laguna Creek Trail which is used for activities such as horseback riding, bicycling, jogging, and walking.

DISCUSSION

- a) **Less than Significant Impact.** The ~~proposed~~ Project consists of construction of a multi-functional access path with bridges to provide access across Laguna and Whitehouse Creeks. The path will allow the City to maintain both creeks and will also fill in an existing gap within the Laguna Creek Trail system. The multi-functional path will provide a continuous connection between Camden Park to East Stockton Boulevard, potentially increasing the accessibility of the surrounding community parks to nearby residents. However, residents already have access to parks in the area under existing conditions; thus substantial physical deterioration of local parks and other recreational facilities is not expected to result from the ~~proposed~~ Project. Although the ~~proposed~~ Project involves the extension of a multiuse trail for recreational purposes, it does not include a residential or commercial component that would increase human presence in the area which could result in increased use of existing parks or recreational facilities. Therefore, impacts are considered less than significant.

- b) **Less than Significant Impact.** The ~~proposed~~ Project is consistent with the existing land use of the Project site and surrounding areas. Furthermore, the ~~proposed~~ Project is consistent with the City’s General Plan and the City’s Bicycle, Pedestrian, and Trails Master Plan, which identify the need for an off-street multiuse trail system providing connections throughout the City. The ~~proposed~~ improvements will not impact the usability of the trail during construction, as there is currently no bicycle or pedestrian trail at this location, due to the termination of the trail near the intersection of Beckington Drive and White Peacock Way. The ~~proposed~~ Project does not anticipate any permanent or adverse physical impacts; therefore, impacts are considered less than significant.

XVII. TRANSPORTATION

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

REGULATORY SETTING

On September 27, 2013, Governor Brown signed Senate Bill 743 (SB 743) and started a process intended to fundamentally change transportation impact analysis as part of CEQA compliance. These changes include the elimination of auto delay, level of service, and other similar measures of vehicle capacity or traffic congestion as a basis for determining significant impacts. The Governor’s Office of Planning and Research (OPR) has issued final guidance entitled, Proposed Updates to the CEQA Guidelines (November 2017), covering the specific changes to the CEQA guidelines. The final guidance recommends elimination of auto delay and level of service for CEQA purposes and the use of Vehicle Miles Traveled, or VMT, as the preferred CEQA transportation metric. The City of Elk Grove General Plan Update (2021) incorporates the change in transportation impact analysis, resulting from SB 743, and includes VMT policy that establishes significance thresholds for CEQA analysis of future projects.

2019 CEQA Update: Section 15064.3(b)(2) - Determining the Significance of Transportation Impacts

Pursuant to CEQA section 15064.3(b)(2), transportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact. For roadway capacity projects, agencies have discretion to determine the appropriate measure of transportation impact consistent with CEQA and other applicable requirements. To the extent that such impacts have already been adequately addressed at a programmatic level, a lead agency may tier from that analysis as provided in Section 15152.

City of Elk Grove Traffic Analysis Guidelines for Transportation Projects

The Traffic Analysis Guidelines (TAG) within the City’s General Plan Update establishes protocol for transportation analysis studies and reports based on the current state-of-the-practice in transportation planning and engineering and includes guidance for General Plan consistency analysis (using roadway and intersection performance) and CEQA analysis (using VMT). As stated on page 9 of the TAG, transportation projects that are not likely to lead to substantial or measurable increase in VMT and are exempt from analysis include, but are not limited to, the following:

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- Public transit (e.g., establishing new routes or services or modifying existing routes or services).
- Addition of active transportation improvements (e.g., new trail segments), like on-street bike lanes and shoulder improvements to improve conditions for cyclists.
- Addition of roadway capacity on local and collector roadways only provided for the purpose of improving conditions for pedestrians, cyclists, and public transit (as applicable).
- Resurfacing, rehabilitation, maintenance, preventative maintenance, replacement, and repair projects that do not add additional roadway capacity.
- Installation, removal, or modification of turn lanes.
- Installation, removal, or modification of traffic control devices, including traffic signals, wayfinding, and traffic signal priority systems.
- Traffic signal optimization and or coordination to improve vehicle, bicycle, or pedestrian flow.
- Installation of roundabouts.
- Installation or modification of traffic calming devices. • Lane reductions (i.e., road diets”).
- Addition of auxiliary lanes that do not add additional roadway capacity.
- Removal of off-street parking and addition, adoption, or modification of parking devices and management strategies.
- Safety improvements, including roadway shoulder enhancements and auxiliary lanes, and grade separations for rail, transit, pedestrian, and bicycle facilities.
- Sidewalk infill, removing barriers to accessibility, and American with Disabilities Act (ADA) Improvements.
- Installation or modification of access control restrictions.
- Complete Streets Projects that do not add additional roadway capacity.
- Other improvements to the circulation system that do not add additional roadway capacity.

Per the City’s TAG, a VMT analysis is not required as the Project consists of activities considered exempt from VMT analysis.

AFFECTED ENVIRONMENT

The Project consists of construction of a ~~maintenance access road which would be developed into a multi-use~~ corridor trail as part of part of the final construction phase of the ProjectPhase II, with minor improvements to provide trail amenities. The multi-functional path would close a gap in the Laguna Creek Trail system. As the Laguna Creek Trail system is located off-road, it provides a safe pedestrian and cyclist travel corridor. By completing a sizeable gap in the system, the Project would provide the community with greater access through the City.

DISCUSSION

a) No Impact. The Project would not conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system. The ~~proposed~~ Project does not involve construction of a new public roadway or significant physical alteration of an existing roadway. The ~~proposed~~ Project includes the construction of a maintenance access road and includes the extension of an existing multiuse trail and minor improvements and striping of the maintenance road, which would contribute to the continuity of the off-street multiuse trail system within the City and improve bicycle access along East Stockton Boulevard, Kingmont Way, and White Peacock Way.

3.0 INITIAL STUDY CHECKLIST

The Project is included in, and is consistent with, the City's General Plan and Bicycle, Pedestrian, and Trails Master Plan. Therefore, no impact would occur.

b) No Impact. The ~~proposed~~ Project does not involve construction of a new public roadway or significant physical alteration of an existing roadway and would have no impact on an established vehicle miles traveled threshold. The Project consists solely of activities which are considered exempt from VMT analysis, per the City's TAG. Therefore, the Project would not conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b), and no impact would occur.

c) No Impact. The ~~proposed~~ Project would be designed in accordance with the standards and guidelines set forth in the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan. Specifically, trail design and maintenance shall provide for trail safety and security. The trail would not create an increased hazard due to geometric design or incompatible uses, would allow for trail user defensible space, and would provide adequate site distance for trail users. No impact would occur.

d) Less than Significant. Minor on-street construction activities for the ~~proposed~~ Project may occur, and off-street construction activities for the maintenance access road are not expected to interfere with emergency access on local roadways. The maintenance access road is designed for consistency with the standards and guidelines provided in the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan (i.e., minimum tread width is 10 feet of paved trail). Upon completion of construction, the access road and bridges would be wide enough for emergency vehicles and access to emergency vehicles would be available in the event of an emergency. Therefore, the ~~proposed~~ Project would not result in inadequate emergency access and would have a less than significant impact.

XVIII. TRIBAL CULTURAL RESOURCES

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

REGULATORY SETTING

Effective July 1, 2015, CEQA was revised to include early consultation with California Native American tribes and consideration of tribal cultural resources (TCRs). These changes were enacted through Assembly Bill 52 (AB 52). By including TCRs early in the CEQA process, AB 52 intends to ensure that local and Tribal governments, public agencies, and Project proponents would have information available, early in the Project planning process, to identify and address potential adverse impacts to TCRs. CEQA now establishes that a “project with an effect that may cause a substantial adverse change in the significance of a TCR is a project that may have a significant effect on the environment” (PRC § 21084.2).

To help determine whether a project may have such an adverse effect, the PRC requires a lead agency to consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a proposed project. The consultation must take place prior to the determination of whether a negative declaration, mitigated negative declaration, or environmental impact report is required for a project (PRC § 21080.3.1). Consultation must consist of the lead agency providing formal notification, in writing, to the tribes that have requested notification or proposed projects within their traditionally and culturally affiliated area. AB 52 stipulates that the Native American Heritage Commission (NAHC) shall assist the lead agency in identifying the California Native American tribes that are traditionally and culturally affiliated within the project area. If the tribe wishes to engage in consultation on the project, the tribe must respond to the lead agency within 30 days of receipt of the formal notification. Once the lead agency receives the tribe’s request to consult, the lead agency must then begin the consultation process within 30 days. If a lead agency determines that a project may cause a substantial adverse change to TCRs, the lead agency must consider measures to mitigate that impact. Consultation concludes when either: 1) the parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a TCR, or 2) a party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached (PRC § 21080.3.2). Under existing law, environmental documents must not include information about the locations of an archaeological site or sacred lands or any other information that is exempt from public disclosure pursuant to the Public Records act. TCRs are also exempt from disclosure. The term “tribal cultural resource” refers to either of the following:

3.0 INITIAL STUDY CHECKLIST

Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:

- Included or determined to be eligible for inclusion in the California Register of Historical Resources
- Included in a local register of historical resources as defined in subdivision (k) of California Public Resources Code (PRC) Section 5020.1
- A resource determined by a California lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of the PRC Section 5024.1.

AFFECTED ENVIRONMENT

APE

The Area of Potential Effects (APE) is located approximately 0.25 mile south of Sheldon Road and 0.46 mile north of Bond Road in the City of Elk Grove, Sacramento County, California. The western terminus of the Project is designated at the East Stockton Boulevard while the eastern terminus is designated at the is within Camden Park. More specifically, the Project is located within Sections 25 and 26 of Township 7 North, Range 5 East of the Mount Diablo Meridian as depicted on the Florin and Bruceville, California United States Geological Survey (USGS) 7.5-minute quadrangle maps (see **Figure 9** in Section V).

The Project includes all Project related ground disturbing activities necessary to create the multi-functional corridor, including construction access. The APE also includes additional areas for geotechnical study vehicle access. Ground-disturbing activities include cut and fill, grading, recontouring, vegetation removal, and construction access. The horizontal APE encompasses the open grassland and portions of Laguna and Whitehouse Creeks between East Stockton Boulevard and Camden Lake. As the trail will be elevated above existing ground surface elevations, the vertical APE is shallow, extending approximately one foot to account for grading and leveling; however, the vertical APE extends as much as 10 feet below existing grade for construction of the bridge abutments.

Records Search

In order to determine whether any previously recorded cultural resources were located within the APE, a records search (SAC-18-068) of the APE and a 1-mile buffer from its boundaries was obtained from the North Central Information Center (NCIC) at California State University, Sacramento, which is the repository for historic and archaeological records in Sacramento County. The NCIC identified five previous cultural resources investigations conducted that covered approximately 15 percent of the APE; none of which resulted in the discovery of cultural resources in the APE. The NCIC records search identified two previously recorded cultural resources within the APE, a historic-era complex and an irrigation complex. No prehistoric resources have been previously recorded within or immediately adjacent the APE. Please see Section V for discussion on the historic-era resources.

Native American Consultation

As part of the identification efforts to determine whether the APE has TCRs, the City contacted the Native American Heritage Commission (NAHC) in in March 2018 and requested a search of the NAHC Sacred Lands File (SLF). The NAHC responded in April 2018 that no resources were identified during the SLF search.

3.0 INITIAL STUDY CHECKLIST

The City then contacted California Native American Tribal Governments to determine if the Project would have any impacts on TCRs. Project notification consultation letters were sent in April 2018 to the following Native American Tribal Governments, which have previously requested to be contacted regarding City projects:

- Ione Band of Miwok Indians
- United Auburn Indian Community of the Auburn Rancheria
- Wilton Rancheria

In response to the Project notification consultation letters, a representative of the United Auburn Indian Community of the Auburn Rancheria requested a visit to the Project area. Following a site visit in June 2018, the United Auburn Indian Community of the Auburn Rancheria responded via email that they had no further concerns about the Project and wished to close consultation; however, the United Auburn Indian Community of the Auburn Rancheria requested to be contacted should any Native American cultural resources be found during Project-related activities.

No other response or requests have been received from the United Auburn Indian Community of the Auburn Rancheria, Ione Band of Miwok Indians, or the Wilton Rancheria.

Cultural Survey

On April 4, 2019, Dokken Engineering archaeologist Brian S. Marks, Ph.D. conducted a ground surface inventory of the APE. Fifteen-meter wide pedestrian transects were used to inspect the ground surface. All cut banks, rodent burrow holes, and other exposed sub-surface areas were visually inspected for the presence of archaeological resources, soil color changes, and/or staining that could indicate past human activity or buried deposits. In areas of dense vegetation, boot scrapes were used approximately every 20 meters to expose the soil surface and check for the presence of cultural materials. The vertical APE was also visually inspected, where possible, for the presence of buried cultural resources. The visible cut banks along both Whitehouse and Laguna Creeks and rodent burrows throughout the APE provided an excellent opportunity to visually inspect the vertical soil profiles and recently exposed subsurface soils.

No prehistoric-era cultural resources were identified during the pedestrian inspection in the APE. The survey noted extensive ground disturbances throughout the APE, which occurred as result of previous field discing, grading, channelization of Whitehouse Creek, construction of the detention basins north of the Creekside Christian Church, and development of a parking lot, landscaping, and irrigation system between Creekside Christian Church and Whitehouse Creek. Given the extensive disturbances, any surface indications of TCRs would likely have been destroyed.

Buried Cultural Resource Potential

While no TCRs were identified during the field survey of the APE, the City analyzed the potential for the APE to contain buried TCRs. The APE is situated in the Central Great Valley geomorphic province with an underlying quaternary alluvium geologic composition (Jennings et al. 1977) dating to approximately 11,500 years before present (B.P.), when human beings were present. These types of deposits have potential to contain buried surfaces, as seasonal flooding would have deposited new soil layers atop the previous ground surface. Laguna Creek would have attracted human activities, such as hunting, food processing, or habitation, during both the prehistoric and historic eras; however, as the area was frequently flooded, it was not always suitable for habitation.

3.0 INITIAL STUDY CHECKLIST

While the combined factors of the proximity to water and underlying alluvial deposits indicate that there is potential for buried TCRs, the extensive ground disturbances noted throughout the APE indicate that the potential is low, especially within the shallow vertical APE. These disturbances would have either destroyed any cultural resources within the vertical and horizontal APE or would have uncovered TCRs, should any have been present. For these reasons, buried TCRs are not anticipated to be present within the APE.

DISCUSSION

a) Less than Significant with Mitigation. No TCR was identified during identification and consultation efforts conducted for the Project. As such, the Project is not anticipated to cause a substantial adverse change in the significance of a TCR listed or eligible for listing in the California Register of Historical Resources, or in a local register of historic resources as defined in Public Resources Code section 5020.1(k). No impacts are anticipated for the Project related to TCRs; however, with any Project requiring ground disturbance, there is always the possibility that unmarked TCRs may be unearthed during construction. This impact would be considered potentially significant. Implementation of Mitigation Measure **CR-1** and **CR-2** (listed in Section V) would reduce this impact to a less-than significant level.

CR-1: If previously unidentified cultural materials are unearthed during construction, work shall be halted in that area until a qualified archaeologist can assess the significance of the find and develop a plan for documentation and removal of resources if necessary. Additional archaeological survey will be needed if Project limits are extended beyond the present survey limits.

CR-2: Section 5097.94 of the Public Resources Code and Section 7050.5 of the California Health and Safety Code protect Native American burials, skeletal remains and grave goods, regardless of age and provide method and means for the appropriate handling of such remains. If human remains are encountered, work shall halt in that vicinity and the county coroner should be notified immediately. At the same time, an archaeologist shall be contacted to evaluate the situation. If the human remains are of Native American origin, the coroner must notify the Native American Heritage Commission within twenty-four hours of such identification. CEQA details steps to be taken if human burials are of Native American origin.

b) Less than Significant with Mitigation. The Project is not anticipated to cause a substantial adverse change to a TCR pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. Given the extensive ground disturbances which have occurred throughout the APE, the potential for a buried TCR to be present is considered low. While no impacts to TCRs are anticipated for the Project, with any Project requiring ground disturbance, there is always the possibility that unmarked cultural resources may be unearthed during construction. This impact would be considered potentially significant. Implementation of Mitigation Measure **CR-1** and **CR-2** (listed in Section V) would reduce this impact to a less-than significant level.

CR-1: If previously unidentified cultural materials are unearthed during construction, work shall be halted in that area until a qualified archaeologist can assess the significance of the find and develop a plan for documentation and removal of resources if necessary. Additional archaeological survey will be needed if Project limits are extended beyond the present survey limits.

- CR-2:** Section 5097.94 of the Public Resources Code and Section 7050.5 of the California Health and Safety Code protect Native American burials, skeletal remains and grave goods, regardless of age and provide method and means for the appropriate handling of such remains. If human remains are encountered, work shall halt in that vicinity and the county coroner should be notified immediately. At the same time, an archaeologist shall be contacted to evaluate the situation. If the human remains are of Native American origin, the coroner must notify the Native American Heritage Commission within twenty-four hours of such identification. CEQA details steps to be taken if human burials are of Native American origin.

XIX. UTILITIES AND SERVICE SYSTEMS

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ENVIRONMENTAL SETTING

Water

Water services within City limits are provided by the Sacramento County Water Agency and the Elk Grove Water District. Private service areas also exist within the City. The Project area receives water services from the Elk Grove Water District.

Wastewater Service

Urbanized portions of Sacramento County, such as the City of Elk Grove, receive wastewater service from the Sacramento Regional County Sanitation District (SRCSD), which is a publicly owned wastewater agency. Over one million people in the major Sacramento Metropolitan Area receive wastewater services from the SRCSD. Three agencies—the City of Folsom, the City of Sacramento, and Sacramento County Sanitation District 1—contribute to the wastewater services provided by SRCSD. The Project site falls within the Sacramento County Sanitation District 1 service area; however, the Project will not require wastewater service.

Solid Waste Service

Solid waste services in the City of Elk Grove are provided by the Sacramento County Public Works Agency, Waste Management and Recycling. The Central Valley Waste Services provide solid waste services to single-family residential customers. Solid waste within the City limits is typically delivered to Sacramento County's Kiefer Landfill, the primary municipal solid waste disposal facility in Sacramento County, located at the intersection of Grant Line Road and Kiefer Boulevard. Waste is accepted from the general public, businesses and private waste haulers. At present, the Kiefer Landfill, which comprises approximately 1,084 acres, is the only landfill within the jurisdiction of Sacramento County that is permitted to accept solid waste for disposal. The maximum tons per day allowed at the Kiefer Road Landfill is 10,815 tons per day, with an

average intake of 6,362 tons per day. The landfill has a total capacity of 117 million cubic yards (58 million tons). The Kiefer Landfill is classified as a major landfill, which is defined as a facility that receives more than 50,000 tons of solid waste per year. The Kiefer Landfill has been operating below permitted capacity and is projected to have capacity for about the next 20 to 30 years (City of Elk Grove 2003b).

Electricity, Telephone, and Natural Gas Services

Electrical services within the City limits of Elk Grove are provided by the Sacramento Municipal Utilities District. Telephone services in Elk Grove are provided by Frontier Communications (formerly Citizens Communications) and AT&T. Natural gas services to customers within the City limits of Elk Grove are provided by Pacific Gas and Electric Company.

DISCUSSION

- a) **Less than Significant.** The ~~proposed~~ Project consists of construction of a multi-functional access path with bridges to provide access across Laguna and Whitehouse Creeks. The Project would not increase population in the Project vicinity, and there would be no additional wastewater flows as a result of Project development; or result in expanded wastewater treatment or stormwater drainage treatment.

The Project would add a net impervious surface of approximately 1 acre to the area due to the addition of pavement for the construction of the maintenance access road, but would direct runoff appropriately, and final design may incorporate drainage features including culverts through the trail prism and bio-swailes for transport of additional waters. The impervious surface generated by the Project is the minimum area practicable, incorporating the natural drainage courses in the Project area, and preserving the maximum numbers of existing native trees and shrubs possible. The ~~proposed~~ Project is not anticipated to generate excessive runoff, and the ~~proposed~~ Project would not include construction of new stormwater drainage facilities, or expansion of existing facilities. Therefore, impacts would be less than significant.

- b) **No Impact.** The Project would not result in the need for new or expanded water supplies. There may be a temporary need for water during construction to control dust; however, it is not anticipated to result in the need for water supply beyond what is currently available, and no increase in demand for long-term water supply would be generated by the Project. No impact would occur.
- c) **No Impact.** The Project would not include the construction of any wastewater-generating uses. The Project would not increase population in the Project vicinity, and there would be no additional wastewater flows as a result of the ~~proposed~~ Project; therefore, the Project would not result in the need for new or expanded wastewater facilities. No impact would occur.
- d) **Less Than Significant.** The Project would not generate solid waste during operation. Solid waste would be generated during construction; however, the amount will not exceed landfill capacities. Solid waste generated by the ~~proposed~~ Project would be transported to Kiefer Landfill which has been operating below permitted capacity and is projected to have capacity for about the next 20 to 30 years (City of Elk Grove 2003b). Therefore, impacts would be considered less than significant.

3.0 INITIAL STUDY CHECKLIST

- e) **No Impact.** The Project would comply with all applicable federal, state, and local statutes and regulations related to solid waste including the California Integrated Waste Management Act of 1989 (AB 939) and the California Solid Waste Re-Use and Recycling Access Act of 1991 (§42900-42911 of the Public Resources Code). No impact would occur.

XX. WILDFIRE

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project: Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ENVIRONMENTAL SETTING

Based on maps produced by the California Department of Forestry and Fire Protection (CalFire), the Project area is not within or near a State Responsibility Area (SRA). An SRA is the area of the state where the State of California is financially responsible for the prevention and suppression of wildfires. SRAs do not include lands within city boundaries or in federal ownership. Additionally, the Project area is not within or near an area designated for moderate, high, or very high fire severity. There are no areas designated as such within any portion of the City (CalFire, 2007). Similarly, fire severity maps produced by CalFire within the Sacramento County Local Hazard Mitigation Plan Update for Local Responsibility Areas (LRA), of which the City of Elk Grove is a part, have not designated any “very high fire severity lands” within any portion of the City or adjoining areas (Sacramento County CalFire, 202108). However, the Project area is designated as a “Moderate” Fire Hazard Severity Zone. Last, based on map data developed by the US Forest Service, the Project area is not located within or adjacent to any wildfire potential zones.

DISCUSSION

- a) **No Impact.** The Project has been designed in accordance with City road and improvement standards, thereby ensuring that adequate emergency access could be provided to the proposed uses. No impact would occur.
- b) **No Impact.** The Project is located in a topographically flat, urban area of the City, adjacent to residential and commercial/mixed-use land uses and is not within or adjacent to a SRA. ~~The proposed Project corridor is not designated as a wildland.~~ Emergency access would be maintained throughout construction and, in the event of a fire, the Cosumnes Fire Department provides emergency fire services to the Project Area. No impact would occur.
- c) **Less than Significant.** ~~The proposed~~ Project consists of construction of a maintenance access road (paved with no striping), and bridges where necessary, from the existing Laguna Creek Trail multi-use corridor, located south of the intersection of Beckington Drive and White Peacock Way, to a connection at East Stockton Boulevard approximately 750 feet south of the intersection of East Stockton Boulevard and Cantwell Drive. The new maintenance access

3.0 INITIAL STUDY CHECKLIST

road would require maintenance throughout the life of the access road. However, maintenance activities would not exacerbate fire risk and the ~~proposed~~ Project corridor is not located in or adjacent to an area with minimal wildfire risk ~~SRA~~. Impacts would be less than significant.

- d) No impact.** The Project is located in a topographically flat, urban area of the City, adjacent to residential and commercial/mixed-use land uses and is not within or adjacent to a SRA. ~~The proposed Project corridor is not designated as a wildland and vegetation~~ Vegetation removal would be minimal and temporary. The Project would have no impact.

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

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

DISCUSSION

a) Less Than Significant with Mitigation Incorporated. Implementation of the Project would have the potential to degrade the quality of the existing environment. Potential impacts have been identified related to Air Quality (Section III), Biological Resources (Section IV), Cultural Resources (Section V), Geology and Soils (Section VII), Hazards and Hazardous Waste (Section IX), Hydrology and Water Quality (Section X), Noise (Section XIII), and Tribal Cultural Resources (Section XVIII).

Mitigation measures **BIO-1** through **BIO-28** would reduce impacts to biological resources to a less than significant level. The potential for discovery or disturbance of historical, archaeological, human remains, TCRs, or paleontological resources is not anticipated. However, implementation of mitigation measure **CR-1** and **CR-2** and **PAL-1** and **PAL-2** would reduce impacts to a less than significant level by ensuring that appropriate protocol is followed (see Chapter 4 Summary of Mitigation Measures).

Project impacts to Air Quality, Hazards and Hazardous Waste, Hydrology and Water Quality, and Noise would primarily consist of temporary impacts related to construction of the Project. These impacts would be reduced to a less than significant level through implementation and incorporation of **AQ-1**, **HAZ-1**, **WQ-1** through **WQ-4**, and **NOI-1** through **NOI-4**, respectively (see Chapter 4 Summary of Mitigation Measures).

See Chapter 4 "Summary of Mitigation Measures" for a summary of all mitigation measures, timing of implementation, and responsible party. Implementation of mitigation measures would reduce the level of all Project-related impacts to less than significant levels. Therefore, impacts are considered less than significant with mitigation incorporated.

b) Less than Significant Impact. CEQA Guidelines Section 15064(h) states that a lead agency shall consider whether the cumulative impact of a project is significant and whether the effects of the project are cumulatively considerable. The assessment of the significance of the cumulative effects of a project must therefore be conducted in connection with the effects of past projects, or other current projects, and probable future projects.

The ~~proposed~~ Project consists of construction of a multi-functional access path with bridges to provide access across Laguna and Whitehouse Creeks. The Project would likely be constructed in phases, with construction of the Phase I consisting of the construction of a maintenance access path occurring first while and Phase II consisting of the addition of trail amenities would occur as part of the last construction phase.

The ~~proposed~~ Project is consistent with the City of Elk Grove General Plan and the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan. The Project is listed in the City's Bicycle, Pedestrian, and Trails Master Plan, which expresses the City's desire to have a comprehensive off-street multi-use trail system that provides connectivity throughout the City and the wider Sacramento region. The ~~proposed~~ Project would complete a portion of the off-street Laguna Creek Trail system in the City of Elk Grove and improve bicycle and pedestrian access in the City. The Project would make no significant contribution to cumulatively adverse impacts associated with existing or proposed development projects in the City as the Project would not directly generate vehicle trips. Construction of the ~~proposed~~ Project along with other construction in the City and Sacramento County would contribute to cumulative environmental impacts. However, the ~~proposed~~ Project's contribution would be minimal considering the highly developed land uses in the area. Therefore, impacts of the ~~proposed~~ Project related to cumulatively considerable impacts in the City of Elk Grove and Sacramento County are considered less than significant.

c) Less than Significant with Mitigation Incorporated. The Project would not cause significant or unavoidable adverse effects to human beings, either directly or indirectly with mitigation incorporated. See Chapter 4 "Summary of Mitigation Measures" for a summary of all mitigation measures, timing of implementation, and responsible party. All potentially significant impacts have been reduced to a less than significant level by mitigation measures related to individual resource-specific impacts:

- Air Quality (AQ-1),
- Biological Resources (BIO-1 through BIO-28),
- Cultural Resources (CR-1 and CR-2),
- Geology and Soils (PAL-1 and PAL-2),
- Hazards and Hazardous Materials (HAZ-1)
- Hydrology and Water Quality (WQ-1 through WQ-4),
- Noise (NOI-1 through NOI-4), and
- Tribal Cultural Resources (CR-1 and CR-2).

Therefore, impacts are considered less than significant with mitigation incorporated (see Chapter 4 Summary of Mitigation Measures).

4.0 SUMMARY OF MITIGATION MEASURES

4.1 Summary of Mitigation Measures

Air Quality (Section III)

- AQ-1** Implement SMAQMD Basic Construction Emission Control Practices:
- 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 2 feet of freeboard 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 trackout 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.
 - All roadway, driveway, sidewalk, and parking lot paving 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.
 - Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [required by 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.

Timing/Implementation: *During Project development*

Enforcement/Monitoring: *City of Elk Grove Public Works*

Biological Resources (Section IV)

- BIO-1** Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters shall be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not further encroach into waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed (same as **WQ-3**).

Timing/Implementation: *During Project excavation and construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

4.0 SUMMARY OF MITIGATION MEASURES

BIO-2

Contract specifications will include the following BMPs, where applicable, to reduce erosion during construction (same as **WQ-4**):

- Implementation of the Project shall require approval of a site-specific Storm Water Pollution Prevention Plan (SWPPP) that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;
- Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented;
- Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities;
- Roughening and terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed.
- Soil exposure shall be minimized through the use of temporary BMPs, groundcover, and stabilization measures;
- The contractor shall conduct periodic maintenance of erosion- and sediment-control measures.

Timing/Implementation: *During Project excavation and construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-3

To conform to water quality requirements, the SWPPP must include the following:

- Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants shall be a minimum of 100 feet from surface waters. Any necessary equipment washing shall occur where the water cannot flow into surface waters. The Project specifications shall require the contractor to operate under an approved spill prevention and clean-up plan;
- Construction equipment shall not be operated in flowing water;
- Construction work shall be conducted according to site-specific construction plans that minimize the potential for sediment input to surface waters;

4.0 SUMMARY OF MITIGATION MEASURES

- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters;
- Equipment used in and around surface waters shall be in good working order and free of dripping or leaking contaminants; and,
- Any surplus concrete rubble, asphalt, or other debris from construction shall be taken to an approved disposal site.

Timing/Implementation: During Project excavation and construction

Enforcement/Monitoring: City of Elk Grove Public Works

BIO-4

All temporarily disturbed areas shall be restored onsite to pre-Project conditions or better prior to Project completion. Where possible, vegetation shall be trimmed rather than fully removed with the guidance of the Project biologist.

Timing/Implementation: During Project excavation and construction

Enforcement/Monitoring: City of Elk Grove Public Works

BIO-5

A focused rare plant survey shall be conducted during the blooming season of each special status plant species with potential to occur within the Project area prior to the start of construction (Boggs Lake hedge-hyssop, dwarf downingia, legenere, Sanford's arrowhead, and wooly rose-mallow). If rare plants are discovered during these surveys, additional ESA fencing or relocation shall be implemented to avoid and minimize impact to the species. The City will consult with CDFW may be required to determine appropriate buffer distances and/or relocation of species populations.

Timing/Implementation: During Project excavation and construction

Enforcement/Monitoring: City of Elk Grove Public Works

BIO-6

Should work occur within the Swainson's hawk nesting season (February 1st-August 31st), the Project biologist must conduct a pre-construction nesting survey consistent with survey methods recommended by the Swainson's Hawk Technical Advisory Committee within ¼ mile of the Project and two weeks prior to construction clearing and grubbing activities. Should a nesting Swainson's hawk pair be found within ¼ mile of the Project, the Project biologist will consult with the wildlife agencies for appropriate buffers. The contractor shall not work within the 1/2 mile nesting area until the appropriate buffer is established and is prohibited from conducting work that could disturb the birds (as determined by the Project biologist and in consultation with wildlife agencies) in the buffer area until the Project biologist determines the young have fledged.

4.0 SUMMARY OF MITIGATION MEASURES

Timing/Implementation: *During Project excavation and construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-7

Valley grasslands in the Project area are considered Swainson's hawk foraging habitat and are protected under Chapter 16.130 of the City Municipal Code, Swainson's Hawk Impact Mitigation Fees. The City shall mitigate for the permanent loss of Swainson's hawk foraging habitat at a 1:1 ratio. Mitigation can be accomplished through participation in the City of Elk Grove Swainson's Hawk Impact Mitigation Fees Ordinance, other method acceptable to the California Department of Fish and Wildlife, or other method acceptable to the Elk Grove City Council pursuant to Section 16.130.110.

Timing/Implementation: *During Project excavation and construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-8

Vegetation removal or earthwork shall be minimized during the nesting season (February 1st – August 31st). If vegetation removal is required during the nesting season (February 1st – August 31st), a pre-construction nesting bird survey must be conducted within 7 days prior to vegetation removal. Within 2 weeks of the nesting bird survey, all vegetation cleared by the biologist shall be removed by the contractor.

A minimum 100-foot no-disturbance buffer shall be established around any active nest of migratory birds and a minimum 300-foot no-disturbance buffer shall be established around any nesting raptor species. The contractor must immediately stop work in the buffer area until the appropriate buffer is established and is prohibited from conducting work that could disturb the birds (as determined by the Project biologist and in consultation with wildlife agencies) in the buffer area until a qualified biologist determines the young have fledged. A reduced buffer can be established if determined appropriate by the Project biologist and approved by CDFW.

Timing/Implementation: *During Project excavation and construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-9

The Project biologist must conduct preconstruction surveys consistent with the 2012 CDFW Staff Report on Burrowing Owl Mitigation. If no burrowing owls are detected, no further action for burrowing owl shall be required. If burrowing owls are observed during the preconstruction surveys, consultation with CDFW shall be required to determine appropriate no-work buffer distances, avoidance strategies and/or mitigation for impacted nest sites.

Timing/Implementation: *During Project excavation and construction*

4.0 SUMMARY OF MITIGATION MEASURES

Enforcement/Monitoring: City of Elk Grove Public Works

BIO-10

Protective silt fencing shall be installed between the adjacent vernal pool habitat and the construction are limits to prevent accidental disturbance during construction and to protect water quality within the aquatic habitat during construction.

Timing/Implementation: During Project excavation and construction

Enforcement/Monitoring: City of Elk Grove Public Works

BIO-11

A Worker Environmental Awareness Program (WEAP) shall be implemented to educate construction workers about the presence of sensitive habitat near the Project area and to instruct them on proper avoidance measures.

Timing/Implementation: During Project excavation and construction

Enforcement/Monitoring: City of Elk Grove Public Works

BIO-12

The ~~proposed~~ Project shall mitigate for potential impacts to vernal pool crustaceans by conducting USFWS protocol-level surveys, or assuming presence of the species in the Project area. Protocol-level surveys for the vernal pool fairy shrimp and vernal pool tadpole shrimp shall occur in suitable habitats occurring in the ~~proposed~~ Project area and within 250 feet of adjacent suitable habitat. If vernal pool fairy shrimp or vernal pool tadpole shrimp are not detected during the protocol-level surveys and if the USFWS concurs that neither species is present, no further mitigation is required. If either of the species is detected during protocol-level surveys or the presence of the species is assumed in lieu of conducting surveys, and ~~proposed~~ activities will result in direct or indirect impacts to potential habitat, the following measures shall be implemented:

1. Formal consultation with the USFWS shall be initiated under Section 7 of the Endangered Species Act. No direct or indirect impacts to suitable habitat for these species shall occur until Incidental Take authorization has been obtained from the USFWS.
2. For every acre of habitat directly or indirectly affected, at least two vernal pool preservation credits shall be dedicated in a USFWS-approved ecosystem preservation bank (2:1 ratio). With USFWS approval, appropriate payment into an in-lieu fee fund or on-site preservation may be used to satisfy this measure.
3. For every acre of habitat directly affected, at least one vernal pool creation credit shall be dedicated in a USFWS-approved habitat mitigation bank (1:1 ratio). With USFWS approval, appropriate payment into an in-lieu fee fund, on-site creation, or off-site creation may be used to satisfy this measure.

Timing/Implementation: Prior to Project construction

4.0 SUMMARY OF MITIGATION MEASURES

Enforcement/Monitoring: City of Elk Grove Public Works

BIO-13 To avoid impacts to western pond turtles, the Project biologist will conduct a pre-construction survey of the Laguna Creek, Whitehouse Creek, and adjacent banks and upland habitats within the Project area. Surveys shall be conducted no more than 24 hours prior to onset of construction. If a turtle is located within the construction area, a qualified biologist will capture the turtle and relocate it to an appropriate habitat a safe distance from the construction site.

Timing/Implementation: Prior to Project construction

Enforcement/Monitoring: City of Elk Grove Public Works

BIO-14 If water pumps are used to dewater the Project Area, pump intakes shall be screened and equipped with an energy dissipater to protect aquatic species. The energy dissipater should be large enough to reduce approach velocity to 0.33 feet per second or less and be enclosed with ½ inch metal screen. The surface area of the energy dissipater shall be determined by dividing the maximum diverted flow, by the allowable approach velocity (example: 1.0 ft³ per second/ 0.33 feet per second = 3.0 ft² surface area).

Timing/Implementation: During Project construction

Enforcement/Monitoring: City of Elk Grove Public Works

BIO-15 If suitable habitat for western spadefoot toad is to be removed from October through April, a qualified biologist shall conduct a preconstruction survey for this species within 50 feet of suitable habitat that is proposed to be impacted. The survey shall be conducted a maximum of one week prior to removal of suitable breeding habitat.

If no spadefoot toads are detected during the survey, no further measures are required. If this species is observed on-site, the biologist shall move it to suitable habitat in a safe location outside of the construction zone.

If western spadefoot toads are detected during the preconstruction survey, a qualified biologist shall be on-site during initiation of construction activities within 50 feet of suitable habitats and shall provide WEAP training to all personnel working within 50 feet of suitable habitats.

In the event that a western spadefoot toad is observed within an active construction zone, the contractor shall temporarily halt construction activities until a biologist has moved the toad to a safe location, within similar habitat, outside of the construction zone.

Timing/Implementation: Prior to and during Project construction

Enforcement/Monitoring: City of Elk Grove Public Works

BIO-16 To allow western spadefoot and other subterranean wildlife enough time to escape initial clearing and grubbing activities, equipment used during initial

4.0 SUMMARY OF MITIGATION MEASURES

clearing and grubbing in annual grassland or wetland habitats shall be operated at speeds no greater than 3 miles per hour.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-17 Construction activity within giant garter snake habitat should be conducted between May 1st and October 1st. This is the active period for giant garter snakes and direct mortality is lessened, because snakes are expected to actively move and avoid danger. Between October 2 and April 30 contact the U.S. Fish and Wildlife Service Sacramento Office to determine if additional measures are necessary to minimize and avoid take.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-18 Confine clearing to the minimal area necessary to facilitate construction activities. Flag and designate avoided giant garter snake habitat within or adjacent to the Project area as Environmentally Sensitive Areas. The area should be avoided by all construction personnel.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-19: Tightly woven erosion control matting (mesh size less than 0.25 inch) or similar material shall be used for erosion control and other purposes at the Project site to ensure that snakes are not trapped or become entangled by the erosion control material. The edge of the material shall be buried in the ground to prevent snakes from crawling underneath the material. The use of plastic, monofilament, jute, or similar erosion control netting with mesh sizes larger than 0.25 inch that could entangle snakes will be prohibited.

BIO-20 Construction personnel must receive worker environmental awareness training. Awareness training shall be given by the Project biologist(s) who have experience in giant garter snake natural history. This training instructs workers to recognize giant garter snake and their habitat(s).

Timing/Implementation: *Prior to construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-21 24-hours prior to construction activities, the Project area should be surveyed for giant garter snakes. Survey of the Project area should be repeated if a lapse in construction activity of two weeks or greater has occurred. If a snake is encountered during construction, activities shall cease until appropriate corrective measures have been completed or it has been determined that the snake will not be harmed. Report any sightings and any incidental take to the U.S. Fish and Wildlife Service Sacramento Office immediately by telephone at (916) 414-6600.

4.0 SUMMARY OF MITIGATION MEASURES

Timing/Implementation: *Prior to construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-22 Any dewatered habitat must remain dry for at least 15 consecutive days after April 15 and prior to excavating or filling of the dewatered habitat.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-23 After completion of construction activities, remove any temporary fill and construction debris and, wherever feasible, restore disturbed areas to pre-Project conditions. Restoration work includes, as applicable activities such as replanting species removed from banks or replanting emergent vegetation in the active channel.

Timing/Implementation: *After Project construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-24 The proposed Project shall mitigate for potential impacts to giant garter snake by one of the following compensatory mitigation strategies:

1. The City shall provide all necessary compensatory mitigation requirements pursuant Section 7 consultation with the USFWS through federal nexus with USACE during Clean Water Act Section 404 permitting process.
2. The City will compensate for the loss of giant garter snake habitat with purchase of required mitigation credits at a USFWS and CDFW approved mitigation bank to offset permanent and temporary impacts. Temporary impacts shall be compensated at 1:1 ratio, and permanent impacts to upland and aquatic GGS habitat shall be compensated at 3:1. Acreages may be adjusted during final design, which would change the total acres of mitigation, but the ratios must stay the same.

Timing/Implementation: *Prior to construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-25: Prior to arrival at the Project site and prior to leaving the Project site, construction equipment that may contain invasive plants and/or seeds shall be cleaned to reduce the spreading of noxious weeds.

Timing/Implementation: *During construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-26: All hydro seed and plant mixes shall consist of a biologist approved seed mix.

4.0 SUMMARY OF MITIGATION MEASURES

Timing/Implementation: *During construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-27: The contractor shall not use herbicides to control invasive, exotic plants or apply rodenticides during construction.

Timing/Implementation: *During construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

BIO-28: The contractor shall dispose of all food-related trash in closed containers and must remove it from the Project area each day during construction. Construction personnel shall not feed or attract wildlife to the Project area.

Timing/Implementation: *During construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

Cultural Resources (Section V) and Tribal Cultural Resources (Section XVIII)

CR-1 If previously unidentified cultural materials are unearthed during construction, work shall be halted in that area until a qualified archaeologist can assess the significance of the find and develop a plan for documentation and removal of resources if necessary. Additional archaeological survey will be needed if Project limits are extended beyond the present survey limits.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

CR-2 Section 5097.94 of the Public Resources Code and Section 7050.5 of the California Health and Safety Code protect Native American burials, skeletal remains and grave goods, regardless of age and provide method and means for the appropriate handling of such remains. If human remains are encountered, work shall halt in that vicinity and the county coroner should be notified immediately. At the same time, an archaeologist shall be contacted to evaluate the situation. If the human remains are of Native American origin, the coroner must notify the Native American Heritage Commission within twenty-four hours of such identification. CEQA details steps to be taken if human burials are of Native American origin.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

Geology and Soils (Section VII)

PAL-1 Prior to the start of construction, all construction personnel shall receive a paleontological sensitivity training, detailing the types of paleontological resources that may be encountered and procedures to follow if a find should occur.

Timing/Implementation: *Prior to construction*

4.0 SUMMARY OF MITIGATION MEASURES

Enforcement/Monitoring: City of Elk Grove Public Works

PAL-2 If paleontological resources (i.e., fossils) are discovered during ground-disturbing activities, the implementing agency will immediately be notified, and will ensure that their contractors shall stop work in that area and within 100 feet of the find until a qualified paleontologist can assess the significance of the find and develop appropriate treatment measures. Treatment measures will be made in consultation with the implementing agency and would be included in the PMTP.

Timing/Implementation: During Project construction

Enforcement/Monitoring: City of Elk Grove Public Works

Hazards and Hazardous Waste (Section IX)

HAZ-1 The contractor shall prepare a Spill Prevention, Control, and Countermeasure Program (SPCCP) prior to the commencement of construction activities. The SPCCP shall include information on the nature of all hazardous materials that shall be used on-site. The SPCCP shall also include information regarding proper handling of hazardous materials, and clean-up procedures in the event of an accidental release. The phone number of the agency overseeing hazardous materials and toxic clean-up shall be provided in the SPCCP.

Timing/Implementation: Prior to construction

Enforcement/Monitoring: City of Elk Grove Public Works

Hydrology and Water Quality (Section X)

WQ-1 The construction contractor shall adhere to the SWRCB Order No. 2013-0001-DWQ as National Pollutant Discharge Elimination System (NPDES) Permit pursuant to Section 402 of the CWA. The City is designated within the NPDES Phase II General Permit. This General Permit applies to the discharge of stormwater from small municipal separate storm sewer systems (MS4s). Under this permit, stormwater discharges must not cause or contribute to an exceedance of water quality standards contained in the California Toxics Rule or the Water Quality Control Plan for the Sacramento and San Joaquin Basin (Basin Plan).

Timing/Implementation: During Project construction

Enforcement/Monitoring: City of Elk Grove Public Works

WQ-2 To conform to water quality requirements, the SWPPP must include the following:

- Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants must be a minimum of 100 feet from surface waters. Any necessary equipment washing must occur where the water cannot flow into surface waters.

4.0 SUMMARY OF MITIGATION MEASURES

The Project specifications will require the contractor to operate under an approved spill prevention and clean-up plan;

- Construction equipment will not be operated in flowing water;
- Construction work must be conducted according to site-specific construction plans that minimize the potential for sediment input to surface waters;
- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters;
- Equipment used in and around surface waters must be in good working order and free of dripping or leaking contaminants; and
- Any concrete rubble, asphalt, or other debris from construction must be taken to an approved disposal site.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

WQ-3

Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters must be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not encroach into jurisdictional waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed. (same as **BIO-1**)

Timing/Implementation: *Prior to construction*

Enforcement/Monitoring: *City of Elk Grove Public Works*

WQ-4

Contract specifications shall include the following best management practices (BMPs), where applicable, to reduce erosion during construction (same as **BIO-2**):

- Implementation of the Project shall require approval of a site-specific SWPPP that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques;
- Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented;
- Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities;

4.0 SUMMARY OF MITIGATION MEASURES

- Roughening and terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed.

Timing/Implementation: During Project construction

Enforcement/Monitoring: City of Elk Grove Public Works

Noise (Section XIII)

NOI-1 Noise-generating construction operations shall be limited to between the hours of 7 a.m. and 7 p.m. within close proximity to residential uses. Noise associated with construction not located in close proximity to residential uses may occur between the hours of 6:00 a.m. and 8:00 p.m. in accordance with the Elk Grove General Plan Noise Ordinance.

Timing/Implementation: During Project construction

Enforcement/Monitoring: City of Elk Grove Public Works

NOI-2 Construction equipment and equipment staging areas shall be located at the farthest distance possible from adjacent sensitive land uses.

Timing/Implementation: During Project construction

Enforcement/Monitoring: City of Elk Grove Public Works

NOI-3 Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturer recommendations. Equipment engine shrouds shall be closed during equipment operation.

Timing/Implementation: During Project construction

Enforcement/Monitoring: City of Elk Grove Public Works

NOI-4 When not in use, motorized construction equipment shall not be left idling.

Timing/Implementation: During Project construction

Enforcement/Monitoring: City of Elk Grove Public Works

5.0 COMMENTS AND CONSULTATION

5.1 Comments and Consultation

This chapter summarizes the City's efforts to identify, address and resolve Project-related issues through early and continuing consultation.

Scoping Process

Previous environmental studies, including the Laguna Creek Trail North Camden Spur Project (2015), East Lawn Cemetery Expansion Project (2016), and the Landing Assisted Living Facility Project (2017) provided a basis for scoping potential environmental constraints within the Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project area.

Consultation with Public Agencies

Consultation with the following agencies was initiated for the Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project:

U.S. Fish and Wildlife Service (USFWS)
California Department of Fish and Wildlife (CDFW)
Native American Heritage Commission (NAHC)
U.S. Army Corps of Engineers (USACE)
Regional Water Quality Control Board (RWQCB)

Public Participation

All comments received during circulation and public comment period for the Draft IS/MND ~~will~~ were ~~be~~ incorporated into the Final IS/MND as **Appendix E**. Any additions or corrections to the IS/MND subsequent to public comments have been addressed within the document.

6.0 LIST OF PREPARERS

6.1 List of Preparers

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EXHIBIT B

Laguna Creek and Whitehouse Creek Multi-Functional Corridor Project (WDR018) Mitigation, Monitoring and Reporting Program

Environmental Document:	Final Initial Study / Mitigated Negative Declaration (July 2023)				
State Clearing House (SCH) No.	2022110059				
Minimization/Mitigation Measure	Timing/ Phase	Reporting/ Responsible Party	Verification of Compliance		
			Name/ Initials	Date	Remarks (Optional)
Air Quality (ISMND Section III)					
<p>AQ-1: Implement SMAQMD Basic Construction Emission Control Practices:</p> <ul style="list-style-type: none"> • • 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 2 feet of freeboard 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 trackout 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. • All roadway, driveway, sidewalk, and parking lot paving 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. • Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [required by 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. 	<p>During Construction</p>	<p>City of Elk Grove and Contractor</p>			

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Minimization/Mitigation Measure	Timing/ Phase	Reporting/ Responsible Party	Verification of Compliance		
			Name/ Initials	Date	Remarks (Optional)
Biological Resources (ISMND Section IV)					
BIO-1: Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters shall be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not further encroach into waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed (same as WQ-3).	Prior to and During Construction	City of Elk Grove			
BIO-2: Contract specifications will include the following BMPs, where applicable, to reduce erosion during construction (same as WQ-4): Implementation of the Project shall require approval of a site-specific Storm Water Pollution Prevention Plan (SWPPP) that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques; Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented; Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities; Roughening and terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed. Soil exposure shall be minimized through the use of temporary BMPs, groundcover, and stabilization measures;	During Construction	City of Elk Grove			

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			Name/ Initials	Date	Remarks (Optional)
The contractor shall conduct periodic maintenance of erosion- and sediment-control measures. •					
<p>BIO-3: To conform to water quality requirements, the SWPPP must include the following:</p> <ul style="list-style-type: none"> • Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants shall be a minimum of 100 feet from surface waters. Any necessary equipment washing shall occur where the water cannot flow into surface waters. The Project specifications shall require the contractor to operate under an approved spill prevention and clean-up plan; • Construction equipment shall not be operated in flowing water; • Construction work shall be conducted according to site-specific construction plans that minimize the potential for sediment input to surface waters; • Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters; • Equipment used in and around surface waters shall be in good working order and free of dripping or leaking contaminants; and, • Any surplus concrete rubble, asphalt, or other debris from construction shall be taken to an approved disposal site. 	During Construction	City of Elk Grove			

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			Name/ Initials	Date	Remarks (Optional)
BIO-4: All temporarily disturbed areas shall be restored onsite to pre-Project conditions or better prior to Project completion. Where possible, vegetation shall be trimmed rather than fully removed with the guidance of the Project biologist.	Post Construction	City of Elk Grove			
BIO-5: A focused rare plant survey shall be conducted during the blooming season of each special status plant species with potential to occur within the Project area prior to the start of construction (Boggs Lake hedge-hyssop, dwarf downingia, legenera, Sanford's arrowhead, and woolly rose-mallow). If rare plants are discovered during these surveys, additional ESA fencing or relocation shall be implemented to avoid and minimize impact to the species. The City will consult with CDFW may be required to determine appropriate buffer distances and/or relocation of species populations.	Prior to Construction	City of Elk Grove			
BIO-6: Should work occur within the Swainson's hawk nesting season (February 1st-August 31st), the Project biologist must conduct a pre-construction nesting survey consistent with survey methods recommended by the Swainson's Hawk Technical Advisory Committee within ¼ mile of the Project and two weeks prior to construction clearing and grubbing activities. Should a nesting Swainson's hawk pair be found within ¼ mile of the Project, the Project biologist will consult with the wildlife agencies for appropriate buffers. The contractor shall not work within the 1/2 mile nesting area until the appropriate buffer is established and is prohibited from conducting work that could disturb the birds (as determined by the Project biologist and in consultation with wildlife agencies) in the buffer area until the Project biologist determines the young have fledged.	Prior to Construction	City of Elk Grove			

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BIO-7: Valley grasslands in the Project area are considered Swainson's hawk foraging habitat and are protected under Chapter 16.130 of the City Municipal Code, Swainson's Hawk Impact Mitigation Fees. The City shall mitigate for the permanent loss of Swainson's hawk foraging habitat at a 1:1 ratio. Mitigation can be accomplished through participation in the City of Elk Grove Swainson's Hawk Impact Mitigation Fees Ordinance, other method acceptable to the California Department of Fish and Wildlife, or other method acceptable to the Elk Grove City Council pursuant to Section 16.130.110.	Prior to Construction	City of Elk Grove			
BIO-8: Vegetation removal or earthwork shall be minimized during the nesting season (February 1st – August 31st). If vegetation removal is required during the nesting season (February 1st – August 31st), a pre-construction nesting bird survey must be conducted within 7 days prior to vegetation removal. Within 2 weeks of the nesting bird survey, all vegetation cleared by the biologist shall be removed by the contractor. A minimum 100-foot no-disturbance buffer shall be established around any active nest of migratory birds and a minimum 300-foot no-disturbance buffer shall be established around any nesting raptor species. The contractor must immediately stop work in the buffer area until the appropriate buffer is established and is prohibited from conducting work that could disturb the birds (as determined by the Project biologist and in consultation with wildlife agencies) in the buffer area until a qualified biologist determines the young have fledged. A reduced buffer can be established if determined appropriate by the Project biologist and approved by CDFW.	Prior to Construction	City of Elk Grove and Contractor			
BIO-9: The Project biologist must conduct preconstruction surveys consistent with the 2012 CDFW Staff Report on Burrowing Owl Mitigation. If no burrowing owls are detected, no further action for burrowing owl shall be required. If burrowing owls are observed during the preconstruction	Prior to Construction	City of Elk Grove			

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surveys, consultation with CDFW shall be required to determine appropriate no-work buffer distances, avoidance strategies and/or mitigation for impacted nest sites.					
BIO-10: Protective silt fencing shall be installed between the adjacent vernal pool habitat and the construction are limits to prevent accidental disturbance during construction and to protect water quality within the aquatic habitat during construction.	Prior to Construction	City of Elk Grove			
BIO-11: A Worker Environmental Awareness Program (WEAP) shall be implemented to educate construction workers about the presence of sensitive habitat near the Project area and to instruct them on proper avoidance measures.	Prior to and During Construction	City of Elk Grove			

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			Name/ Initials	Date	Remarks (Optional)
<p>BIO-12: Project shall mitigate for potential impacts to vernal pool crustaceans by conducting USFWS protocol-level surveys, or assuming presence of the species in the Project area. Protocol-level surveys for the vernal pool fairy shrimp and vernal pool tadpole shrimp shall occur in suitable habitats occurring in the proposed Project area and within 250 feet of adjacent suitable habitat. If vernal pool fairy shrimp or vernal pool tadpole shrimp are not detected during the protocol-level surveys and if the USFWS concurs that neither species is present, no further mitigation is required. If either of the species is detected during protocol-level surveys or the presence of the species is assumed in lieu of conducting surveys, and proposed activities will result in direct or indirect impacts to potential habitat, the following measures shall be implemented:</p> <p>Formal consultation with the USFWS shall be initiated under Section 7 of the Endangered Species Act. No direct or indirect impacts to suitable habitat for these species shall occur until Incidental Take authorization has been obtained from the USFWS.</p> <p>2. For every acre of habitat directly or indirectly affected, at least two vernal pool preservation credits shall be dedicated in a USFWS-approved ecosystem preservation bank (2:1 ratio). With USFWS approval, appropriate payment into an in-lieu fee fund or on-site preservation may be used to satisfy this measure.</p> <p>3. For every acre of habitat directly affected, at least one vernal pool creation credit shall be dedicated in a USFWS-approved habitat mitigation bank (1:1 ratio). With USFWS approval, appropriate payment into an in-lieu fee fund, on-site creation, or off-site creation may be used to satisfy this measure.</p>	Prior to Construction	City of Elk Grove			
<p>BIO-13: To avoid impacts to western pond turtles, the Project biologist will conduct a pre-construction survey of the Laguna Creek, Whitehouse Creek, and adjacent banks and upland</p>	Prior to Construction	City of Elk Grove			

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habitats within the Project area. Surveys shall be conducted no more than 24 hours prior to onset of construction. If a turtle is located within the construction area, a qualified biologist will capture the turtle and relocate it to an appropriate habitat a safe distance from the construction site.					
BIO-14: If water pumps are used to dewater the Project Area, pump intakes shall be screened and equipped with an energy dissipater to protect aquatic species. The energy dissipater should be large enough to reduce approach velocity to 0.33 feet per second or less and be enclosed with ½ inch metal screen. The surface area of the energy dissipater shall be determined by dividing the maximum diverted flow, by the allowable approach velocity (example: 1.0 ft ³ per second/ 0.33 feet per second = 3.0 ft ² surface area).	Prior to, During, and Post Construction	City of Elk Grove and Contractor			
<p>BIO-15: If suitable habitat for western spadefoot toad is to be removed from October through April, a qualified biologist shall conduct a preconstruction survey for this species within 50 feet of suitable habitat that is proposed to be impacted. The survey shall be conducted a maximum of one week prior to removal of suitable breeding habitat.</p> <p>If no spadefoot toads are detected during the survey, no further measures are required. If this species is observed on-site, the biologist shall move it to suitable habitat in a safe location outside of the construction zone.</p> <p>If western spadefoot toads are detected during the preconstruction survey, a qualified biologist shall be on-site during initiation of construction activities within 50 feet of suitable habitats and shall provide WEAP training to all personnel working within 50 feet of suitable habitats.</p> <p>In the event that a western spadefoot toad is observed within an active construction zone, the contractor shall temporarily halt construction activities until a biologist has moved the toad to a safe location, within similar habitat, outside of the construction zone.</p>	Prior to and During Construction	City of Elk Grove			

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			Name/ Initials	Date	Remarks (Optional)
BIO-16: To allow western spadefoot and other subterranean wildlife enough time to escape initial clearing and grubbing activities, equipment used during initial clearing and grubbing in annual grassland or wetland habitats shall be operated at speeds no greater than 3 miles per hour.	Prior to and During Construction	City of Elk Grove and Contractor			
BIO-17: Construction activity within giant garter snake habitat should be conducted between May 1st and October 1st. This is the active period for giant garter snakes and direct mortality is lessened, because snakes are expected to actively move and avoid danger. Between October 2 and April 30 contact the U.S. Fish and Wildlife Service Sacramento Office to determine if additional measures are necessary to minimize and avoid take.	Prior to and During Construction	City of Elk Grove and Contractor			
BIO-18: Confine clearing to the minimal area necessary to facilitate construction activities. Flag and designate avoided giant garter snake habitat within or adjacent to the Project area as Environmentally Sensitive Areas. The area should be avoided by all construction personnel.	During Construction	City of Elk Grove and Contractor			
BIO-19: Tightly woven erosion control matting (mesh size less than 0.25 inch) or similar material shall be used for erosion control and other purposes at the Project site to ensure that snakes are not trapped or become entangled by the erosion control material. The edge of the material shall be buried in the ground to prevent snakes from crawling underneath the material. The use of plastic, monofilament, jute, or similar erosion control netting with mesh sizes larger than 0.25 inch that could entangle snakes will be prohibited.	During Construction	Contractor			
BIO-20: Construction personnel must receive worker environmental awareness training. Awareness training shall be given by the Project biologist(s) who have experience in giant garter snake natural history. This training instructs workers to recognize giant garter snake and their habitat(s).	During Construction	City of Elk Grove and Contractor			

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BIO-21: 24-hours prior to construction activities, the Project area should be surveyed for giant garter snakes. Survey of the Project area should be repeated if a lapse in construction activity of two weeks or greater has occurred. If a snake is encountered during construction, activities shall cease until appropriate corrective measures have been completed or it has been determined that the snake will not be harmed. Report any sightings and any incidental take to the U.S. Fish and Wildlife Service Sacramento Office immediately by telephone at (916) 414-6600.	Prior to and During Construction	City of Elk Grove			
BIO-22: Any dewatered habitat must remain dry for at least 15 consecutive days after April 15 and prior to excavating or filling of the dewatered habitat.	Prior to and During Construction	Contractor			
BIO-23: After completion of construction activities, remove any temporary fill and construction debris and, wherever feasible, restore disturbed areas to pre-Project conditions. Restoration work includes, as applicable activities such as replanting species removed from banks or replanting emergent vegetation in the active channel.	During/Post Construction	Contractor			

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<p>BIO-24: Project shall mitigate for potential impacts to giant garter snake by one of the following compensatory mitigation strategies:</p> <p>1. The City shall provide all necessary compensatory mitigation requirements pursuant Section 7 consultation with the USFWS through federal nexus with USACE during Clean Water Act Section 404 permitting process.</p> <p>2. The City will compensate for the loss of giant garter snake habitat with purchase of required mitigation credits at a USFWS and CDFW approved mitigation bank to offset permanent and temporary impacts. Temporary impacts shall be compensated at 1:1 ratio, and permanent impacts to upland and aquatic GGS habitat shall be compensated at 3:1. Acreages may be adjusted during final design, which would change the total acres of mitigation, but the ratios must stay the same.</p>	Prior to Construction	City of Elk Grove			
BIO-25: Prior to arrival at the Project site and prior to leaving the Project site, construction equipment that may contain invasive plants and/or seeds shall be cleaned to reduce the spreading of noxious weeds.	During Construction	Contractor			
BIO-26: All hydro seed and plant mixes shall consist of a biologist approved seed mix.	During Construction	Contractor			Consult Project Biologist.
BIO-27: The contractor shall not use herbicides to control invasive, exotic plants or apply rodenticides during construction.	During Construction	Contractor			
BIO-28: The contractor shall dispose of all food-related trash in closed containers and must remove it from the Project area each day during construction. Construction personnel shall not feed or attract wildlife to the Project area.	During Construction	Contractor			
Cultural Resources (ISMND Section XVIII)					
CUL-1: If previously unidentified cultural materials are unearthed during construction, work shall be halted in that area until a qualified archaeologist can assess the	During Construction	City of Elk Grove and Contractor			

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significance of the find and develop a plan for documentation and removal of resources if necessary. Additional archaeological survey will be needed if Project limits are extended beyond the present survey limits.					
CUL-2: Section 5097.94 of the Public Resources Code and Section 7050.5 of the California Health and Safety Code protect Native American burials, skeletal remains and grave goods, regardless of age and provide method and means for the appropriate handling of such remains. If human remains are encountered, work shall halt in that vicinity and the county coroner should be notified immediately. At the same time, an archaeologist shall be contacted to evaluate the situation. If the human remains are of Native American origin, the coroner must notify the Native American Heritage Commission within twenty-four hours of such identification. CEQA details steps to be taken if human burials are of Native American origin.	During Construction	City of Elk Grove and Contractor			
Geology and Soils (ISMND Section VII)					
PAL-1: Prior to the start of construction, all construction personnel shall receive a paleontological sensitivity training, detailing the types of paleontological resources that may be encountered and procedures to follow if a find should occur.	During Construction	City of Elk Grove and Contractor			
PAL-2: If paleontological resources (i.e., fossils) are discovered during ground-disturbing activities, the implementing agency will immediately be notified, and will ensure that their contractors shall stop work in that area and within 100 feet of the find until a qualified paleontologist can assess the significance of the find and develop appropriate treatment measures. Treatment measures will be made in consultation with the implementing agency and would be included in the PMTP.	During Construction	City of Elk Grove and Contractor			

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Hazards and Hazardous Materials (ISMND Section IX)					
HAZ-1: The contractor shall prepare a Spill Prevention, Control, and Countermeasure Program (SPCCP) prior to the commencement of construction activities. The SPCCP shall include information on the nature of all hazardous materials that shall be used on-site. The SPCCP shall also include information regarding proper handling of hazardous materials, and clean-up procedures in the event of an accidental release. The phone number of the agency overseeing hazardous materials and toxic clean-up shall be provided in the SPCCP.	Prior to Construction	City of Elk Grove			
Hydrology and Water Quality (ISMND Section X)					
WQ-1: The construction contractor shall adhere to the SWRCB Order No. 2013-0001-DWQ as National Pollutant Discharge Elimination System (NPDES) Permit pursuant to Section 402 of the CWA. The City is designated within the NPDES Phase II General Permit. This General Permit applies to the discharge of stormwater from small municipal separate storm sewer systems (MS4s). Under this permit, stormwater discharges must not cause or contribute to an exceedance of water quality standards contained in the California Toxics Rule or the Water Quality Control Plan for the Sacramento and San Joaquin Basin (Basin Plan).	During Construction	Contractor			
WQ-2: To conform to water quality requirements, the SWPPP must include the following: <ul style="list-style-type: none"> • Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants must be a minimum of 100 feet from surface waters. Any necessary equipment washing must occur where the water cannot flow into surface waters. The Project specifications will require the contractor to operate under an approved spill prevention and clean-up plan; • Construction equipment will not be operated in flowing water; 	During Construction	Contractor			

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<ul style="list-style-type: none"> Construction work must be conducted according to site-specific construction plans that minimize the potential for sediment input to surface waters; Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering surface waters; Equipment used in and around surface waters must be in good working order and free of dripping or leaking contaminants; and Any concrete rubble, asphalt, or other debris from construction must be taken to an approved disposal site. 					
<p>WQ-3: Prior to the start of construction activities, the Project limits in proximity to jurisdictional waters must be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not encroach into jurisdictional waters. The Project biologist will periodically inspect the ESA to ensure sensitive locations remain undisturbed. (same as BIO-1)</p>	Prior to and During Construction	City of Elk Grove and Contractor			
<p>WQ-4: Contract specifications shall include the following best management practices (BMPs), where applicable, to reduce erosion during construction (same as BIO-2):</p> <ul style="list-style-type: none"> Implementation of the Project shall require approval of a site-specific SWPPP that would implement effective measures to protect water quality, which may include a hazardous spill prevention plan and additional erosion prevention techniques; Existing vegetation shall be protected in place where feasible to provide an effective form of erosion and sediment control. In locations where this is not feasible, the remaining BMPs listed below shall be implemented; 	During Construction	Contractor			

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<ul style="list-style-type: none"> Stabilizing materials shall be applied to the soil surface to prevent the movement of dust from exposed soil surfaces on construction sites as a result of wind, traffic, and grading activities; Roughening and terracing shall be implemented to create unevenness on bare soil through the construction of furrows running across a slope, creation of stair steps, or by utilization of construction equipment to track the soil surface. Surface roughening or terracing reduces erosion potential by decreasing runoff velocities, trapping sediment, and increasing infiltration of water into the soil, and aiding in the establishment of vegetative cover from seed. 					
Noise (ISMND Section XIII)					
NOI-1: Noise-generating construction operations shall be limited to between the hours of 7 a.m. and 7 p.m. within close proximity to residential uses. Noise associated with construction not located in close proximity to residential uses may occur between the hours of 6:00 a.m. and 8:00 p.m. in accordance with the Elk Grove General Plan Noise Ordinance.	During Construction	Contractor			
NOI-2: Construction equipment and equipment staging areas shall be located at the farthest distance possible from adjacent sensitive land uses.	During Construction	Contractor			
NOI-3: Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturer recommendations. Equipment engine shrouds shall be closed during equipment operation.	During Construction	Contractor			
NOI-4: When not in use, motorized construction equipment shall not be left idling.	During Construction	Contractor			

CERTIFICATION
ELK GROVE CITY COUNCIL RESOLUTION NO. 2023-174

STATE OF CALIFORNIA)
COUNTY OF SACRAMENTO) ss
CITY OF ELK GROVE)

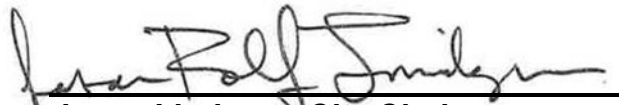
I, Jason Lindgren, City Clerk of the City of Elk Grove, California, do hereby certify that the foregoing resolution was duly introduced, approved, and adopted by the City Council of the City of Elk Grove at a regular meeting of said Council held on July 26, 2023 by the following vote:

AYES: COUNCILMEMBERS: Singh-Allen, Spease, Brewer, Robles, Suen

NOES: COUNCILMEMBERS: None

ABSTAIN: COUNCILMEMBERS: None

ABSENT: COUNCILMEMBERS: None



Jason Lindgren, City Clerk
City of Elk Grove, California