RESOLUTION NO. 2020-229

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ELK GROVE ADOPTING THE MITIGATED NEGATIVE DECLARATION AND ADOPTING THE MITIGATION MONITORING AND REPORTING PROGRAM FOR THE ARTERIAL ROADS REHABILITATION AND BICYCLE LANE IMPROVEMENTS PROJECT (WPR014); AND APPROVING THE PROJECT

WHEREAS, the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014) (Project) will result in the rehabilitation or resurfacing of portions of Waterman Road and Elk Grove Florin Road and the additional of bike lanes within the City of Elk Grove and City of Sacramento, California; and

WHEREAS, City staff presented the Project to the Trails Committee for feedback on October 15, 2018 prior to the open house on November 15, 2018 at which they presented the project to interested stakeholders and collected feedback from participants; and

WHEREAS, City staff is coordinating the relocation of existing overhead utilities with the respective utility companies; and

WHEREAS, all work will be performed within existing rights of way; and

WHEREAS, the City prepared an Initial Study/Mitigated Negative Declaration (IS/MND) 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 IS/MND 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 IS/MND prepared for the Project and disclosed; and

WHEREAS, a Mitigation and Monitoring Reporting Program (MMRP) 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 July 24, 2020. It was posted at the Sacramento County Clerk's office, distributed through State Clearinghouse and at the City offices, pursuant to Section 15072 of Chapter 3 of Title 14 of the California Code of Regulations (State CEQA Guidelines). A 32-day review and comment period was opened on July 24, 2020 and closed on August 24, 2020. The Mitigated Negative Declaration was made available to the public during this review period; and

WHEREAS, the City received two written comment letters within the 32-day public review period and responded to those comments in the project staff report; and

WHEREAS, the City has considered the comments received during the public review period, and they do not alter the conclusions in the IS/MND; and

WHEREAS, the City Council has considered the written and oral comments on the proposed project and the Mitigated Negative Declaration; and

WHEREAS, the City of Elk Grove, Development Services, Planning Department, located 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 and Monitoring Reporting Program, attached hereto as Exhibits A and B, respectively, and incorporated herein by reference for the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014) based on the following 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 (SCH# 2020070484) for the Arterial Roads Rehabilitation and Bicycle Lane Improvements 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, 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 and Monitoring Reporting Program (MMRP) 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 July 24, 2020. It was posted at the Sacramento County Clerk's office, distributed through State Clearinghouse and at the City offices, pursuant to Section 15072 of Chapter 3 of Title 14 of the California Code of Regulations (State CEQA Guidelines). A 32-day review and comment period was opened on July 24, 2020 and closed on August 24, 2020. The Mitigated Negative Declaration was made available to the public during this review period. The City received two written comment letters within the 32-day 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 MMRP, 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 23rd day of September 2020

STEVE LY, MAYOR of the
CITY OF ELK GROVE

ATTEST:

JASON LINDGREN, CITY CLERK

APPROVED AS TO FORM:

JONATHAN P. HOBBS,
CITY ATTORNEY

EXHIBIT A

Final

ARTERIAL ROADS REHABILITATION AND BICYCLE LANE IMPROVEMENTS PROJECT (WPR014)

Initial Study / Mitigated Negative Declaration

Prepared for
City of Elk Grove
Department of Public Works

September 2020

ESA

Final

ARTERIAL ROADS REHABILITATION AND BICYCLE LANE IMPROVEMENTS PROJECT (WPR014)

Initial Study / Mitigated Negative Declaration

Prepared for
City of Elk Grove
Department of Public Works

September 2020

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CHAPTER 1
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 July 24, 2020 and ended August 24, 2020. 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 Introduction and Regulatory Guidance

California Environmental Quality Act (CEQA) compliance is required for all projects for which a public agency has a discretionary action, unless the project is exempted by statute in an act of the Legislature. CEQA, as amended, requires that public agencies regulate activities which may affect the quality of the environment. This ensures that major consideration is given to preventing damage to the environment. Guidelines for implementation of CEQA are found in the *CEQA Guidelines* (Title 14, Chapter 3 of the California Code of Regulations [CFR]).

The Initial Study/Proposed Mitigated Negative Declaration (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 Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (WPR014) (referred to herein as the "Project") may have a significant effect on the environment pursuant to CEQA. If the lead agency finds substantial evidence that any aspect of the 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 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 project or any of its aspects may cause a significant impact on the environment with mitigation incorporated, an 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 (ND) shall be prepared for a project subject to CEQA when either:

1) The IS 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 the effects or mitigate the effects to the point where clearly no significant effects would occur, and

   b. There is not 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 proposed Project is not exempt from CEQA consideration. The City has determined that the Project involves the potential for significant environmental effects; these potential environmental effects are evaluated in this IS/MND in Chapter 3.0.

The IS concludes that the Project would potentially have significant environmental effects, but that these effects would be reduced to a less than significant level with recommended mitigation measures. Therefore, an MND is anticipated to be prepared.

The Draft IS was circulated for agency and public review during a public circulation period that began on July 24, 2020 and ended August 24, 2020. During that time, two comment letters/emails were received. Those letters, and the City's responses to them, are attached to this IS as **Appendix I**. The comments did not raise any new issues that had not been adequately evaluated in the Draft IS, nor did they identify any new potentially significant environmental effects from implementation of the Project. Accordingly, the findings of the Draft IS remain valid and unchanged, and additional environmental analysis is not required.

1.2 Lead Agency

The City's Public Works Department has initiated preliminary design of the Project and it requires approval from the Elk Grove City Council. Therefore, in accordance with CEQA Guidelines Section 15051(b)(1), the City is acting as state lead agency for this Project under CEQA. CEQA approval would be achieved with this IS/MND. This IS/MND has been prepared in compliance with CEQA to support the proposed MND and other required permits and approvals.

1.3 Purpose and Document Organization

The CEQA Checklist is used to evaluate the potential environmental effects of a project and includes a list of environmental considerations against which the project is evaluated. For each checklist item, a determination is made as to whether the project will involve: (1) No Impact, (2) a Less Than Significant Impact, (3) a Less Than Significant Impact with Mitigation Incorporated, or (4) a Potentially Significant Impact.

- **No Impact:** A No Impact determination applies where a project does not create an impact in the respective checklist category.

- **Less Than Significant:** A Less Than Significant Impact determination applies when the project would not create a significant impact and mitigation is not required to lessen the impact to less than significant.
- **Less Than Significant with Mitigation Incorporated:** A Less Than Significant with Mitigation Incorporated determination applies where the project would potentially result in a significant impact, but mitigation measures have been included to reduce the effect to a less than significant level.
- **Potentially Significant:** A Potentially Significant Impact determination is appropriate when there is substantial evidence that an effect of the project may be significant and mitigation of the impact is either not available or does not reduce the impact to a less than significant level. If there are one or more Potentially Significant Impact entries in the Initial Study, an EIR is required.

This IS/MND prescribes mitigation measures for the potentially significant environmental effects of the project. Some mitigation measures are regulatory requirements established by the City and other agencies and routinely implemented in conjunction with new development.

This IS/MND describes the proposed Project, its environmental setting, discusses the potential environmental effects of the Project, and identifies feasible mitigation measures that would reduce the potentially significant adverse environmental effects of the Project to a less than significant level. The IS/MND includes the following chapters:

Chapter 1 Introduction. This chapter provides an introduction and describes the purpose and organization of this IS/MND.

Chapter 2 Project Description. This chapter provides a Project background and a detailed description of the proposed Project, and describes the process used for notifying and involving the public during Project planning and for coordination with relevant agencies and organizations.

Chapter 3 Initial Study Checklist. This chapter considers the Project's potential for significant environmental effects in the subject areas identified in Appendix G of the CEQA Guidelines, the CEQA Checklist and provides mitigation measures, where necessary to reduce potentially significant impacts to a less than significant level.

Chapter 4 List of Mitigation Measures. This chapter provides a summary of mitigation measures for the proposed Project.

Chapter 5 List of Preparers. This chapter identifies staff and consultants responsible for preparation of this document.

Chapter 6 List of Acronyms. This chapter provides a list of abbreviations used throughout the document.

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CHAPTER 2
Project Description

2.1 Project Location

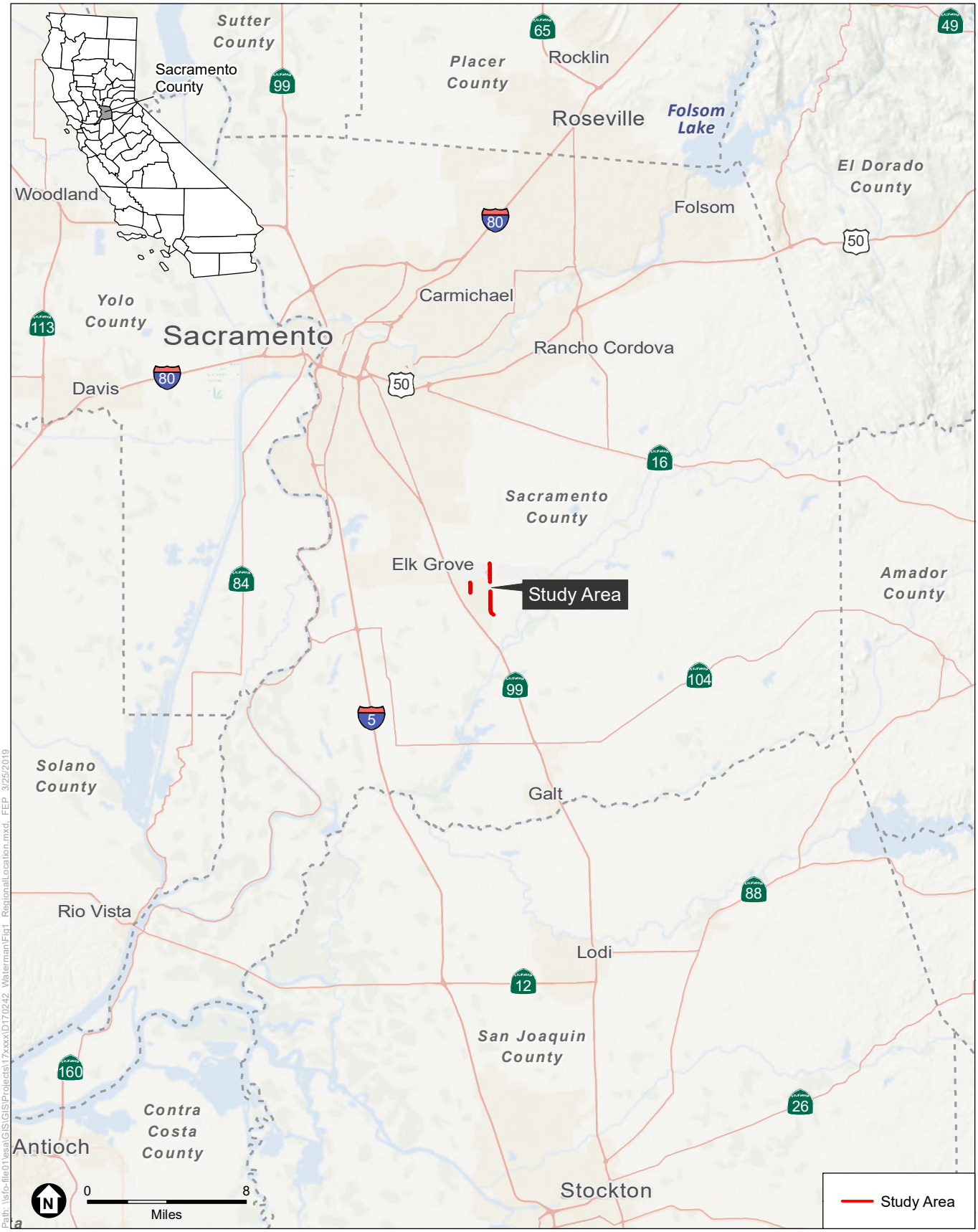
The proposed Project is located in the City of Elk Grove in Sacramento County, California (see **Figure 1**) along segments of Waterman Road and Elk Grove Florin Road in the City of Elk Grove in Sacramento County (see **Figure 2**), as follows:

1. Waterman Road – approximately 700 feet south of Bond Road to 850 feet north of Rancho Drive.
2. Waterman Road – approximately 850 feet north of Rancho Drive to Elk Grove Blvd.
3. Waterman Road – approximately 80 feet north of Dino Drive/Mainline Drive to Kent Street.
4. Waterman Road – Kent Street to approximately 400 feet south of Brinkman Court.
5. Waterman Road – approximately 400 feet south of Brinkman Court to Mosher Road.
6. Waterman Road – Mosher Road to approximately 1,000 feet south of Mosher Road.
7. Waterman Road – approximately 1,000 feet south of Mosher Road to Grant Line Road.
8. Elk Grove Florin Road – Elk Grove Blvd to Valley Oak Lane.

2.2 Project Description

2.2.1 Existing Setting

The Project is located in an area of agricultural-residential, agricultural, and various residential land uses in the central and eastern portion of the City. All of the Project segments are currently in use as roadways. There is a mix of land use activities alongside the various segments. Waterman Road (Segments 1 through 7) is currently a two-lane arterial/collector with various turn pockets and turn lanes that runs north/south and provides local access to industrial, residential, and agricultural land uses. Waterman Road is ultimately planned as a four-lane major arterial in the City of Elk Grove General Plan Mobility Element. Elk Grove Florin Road (Segment 8) is also a two-lane arterial/collector, with a two-way middle turn-lane, that runs north/south and provides local access to residential and commercial uses. Ultimately, Elk Grove Florin Road is planned to remain as a two-lane arterial/collector in the City of Elk Grove General Plan Mobility Element.

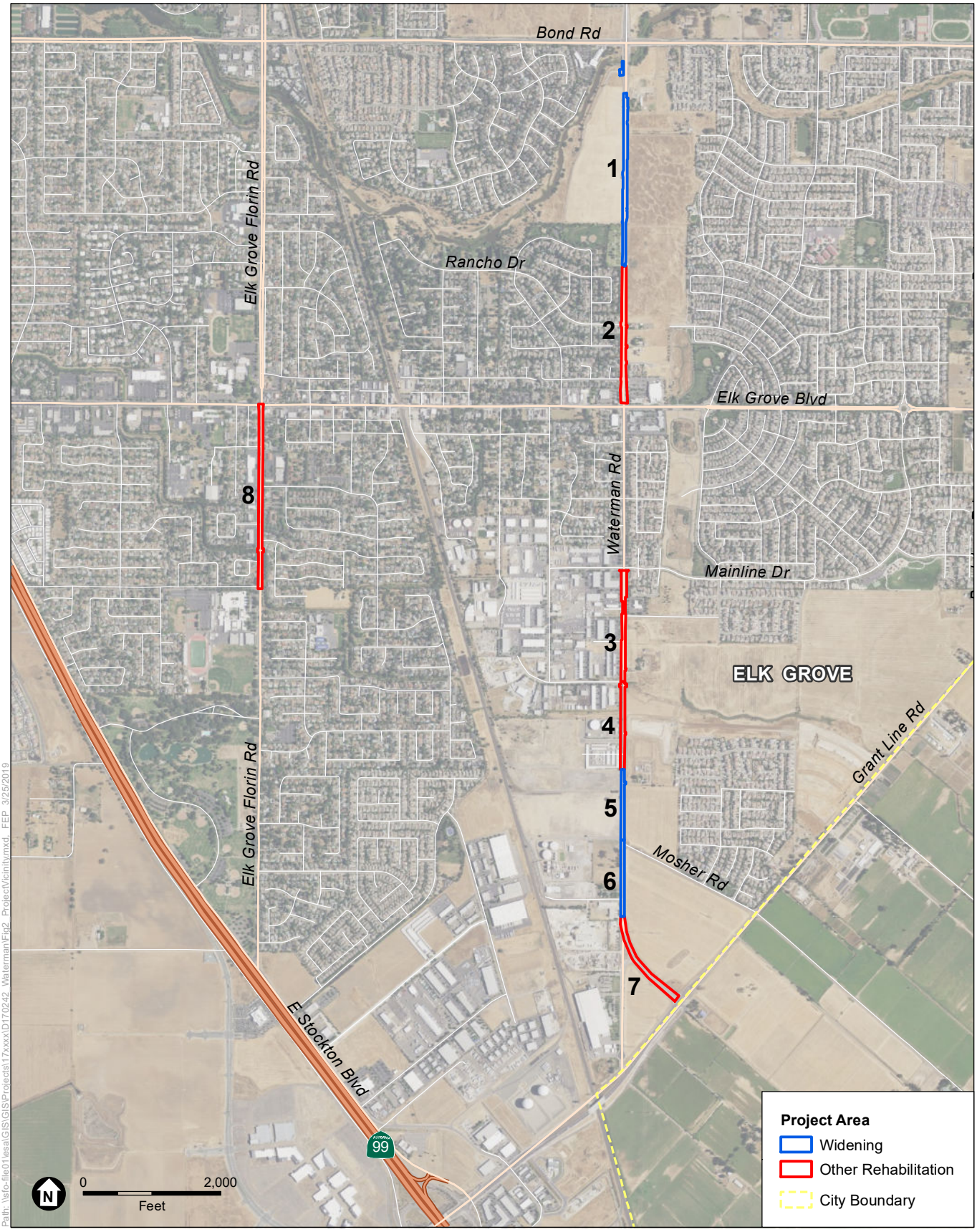


SOURCE: Esri, 2015; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 1
Regional Location

ESA



SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2

Project Vicinity

ESA

2.2.2 Proposed Project

The City proposes to rehabilitate and improve pavement and/or surface treatments (as deemed necessary) on the segments of Waterman Road and Elk Grove Florin Road described above, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in the eastern portion of the City. The purpose of the Project is to reconstruct and rehabilitate Waterman Road and Elk Grove Florin Road to provide bike lanes in each direction on each roadway.

Segments 1, 5, and 6 will rehabilitate existing pavement and widen shoulders to accommodate a Class 2 Bike Lane in both directions.

Segments 2, 3, 4, 7, and 8 will have pavement rehabilitation or surface treatment, and restriping to provide a Class 2 Bike Lane in both directions.

The Project will create a new mid-block pedestrian crossing along Elk Grove-Florin Road between Cadura Circle and Plaza Park Drive, and extend an existing sidewalk segment on the western side of Waterman Road to the Laguna Creek Trail entrance/parking area. In addition, some fences, overhead utility poles, drainage ditches, and driveway drainage ditch culverts will be relocated within the City rights-of-way to accommodate the road expansion in segments 1, 5, and 6.

The segments requiring pavement rehabilitation are of a condition that further deterioration would likely result in costlier replacement of pavement in the future. Further, the selected segments are shown in the City of Elk Grove's 2014 Bicycle, Pedestrian, and Trails Master Plan as having future Class 2 bike lanes. Implementation of the Project would extend the useful life of the pavement, improve ride quality for both motorists and cyclists, fill in gaps in the existing Class 2 bike lane network, and improve pedestrian access in East Elk Grove, especially along Waterman Road.

2.3 Project Construction

Analysis contained in this IS/MND has taken into consideration activities within the entire Project area and all mitigation measures included as part of the Project would be implemented throughout these areas. Construction staging will either be located within the City ROW, or if the contractor elects to conduct construction staging on an adjacent parcel outside of the City ROW, then the construction contractor would obtain the appropriate approvals prior to construction.

Construction of the Project may occur in phases, depending on funding or other factors impacting schedule. Construction would begin with the installation of construction and detour signs (if required), followed by full roadway closure, or partial lane closures, to conduct grinding and road preparation. Existing drainage ditches, fences, overhead utility poles, and driveway drainage ditch culverts will be relocated within the City rights-of-way to accommodate the expanded roadway, shoulders, and bicycle lanes. Staging of equipment would occur within existing City ROW. There are no permanent closures of permitted driveways anticipated to be required as part of the Project. There will be temporary closures of driveways for short durations (anticipated not to exceed 4 hours at a time).

Construction of the Project is anticipated to take approximately 100 to 120 working days, and is expected to begin in spring 2021. Full lane closures may occur for up to 30 days along segments 1, 5, and 6, with potential partial lane closures occurring in advance of or after the full lane closure period. Construction will be limited to between 7:00 AM and 7:00 PM on weekdays, and between 8:00 AM and 6:00 PM near residences or other sensitive receptors. Excavators, compactors, grinding machines, backhoes, bobcats, pavement scarifiers, rollers, and scrapers are potential large equipment to be used on the Project. Project construction could occur either at once (continuous) or in stages, depending on timing and scheduling constraints. Utility relocations would be coordinated with the corresponding utility companies and relocated prior to Project construction.

2.4 Required Project Approvals

As a requirement for implementation of the Project, the following environmental approvals would be required from the following agencies:

- City of Elk Grove City Council – CEQA review and adoption of the MND and Mitigation, Monitoring, and Reporting Program (MMRP)
- City of Elk Grove Public Works – Design Review and approval of final project plans
- Caltrans – National Environmental Policy Act (NEPA) review and issuance of a Categorical Exclusion (CE)
- Regional Water Quality Control Board – Issuance of a National Pollutant Discharge Elimination System (NPDES) construction activity permit, to be issued prior to construction

2.5 California Native America Tribal Consultation

For compliance with CEQA and Section 106 of the National Historic Preservation Act (NHPA), the City's consultant contacted the State of California Native American Heritage Commission (NAHC) to request a search of their Sacred Lands File (SLF). The NAHC stated that the SLF has no record of sacred sites in the vicinity of the proposed Project.

Pursuant to Public Resources Code Section 21080.3.1, three traditionally and culturally affiliated California Native American tribes (Ione Band of Miwok Indians, United Auburn Indian Community of the Auburn Rancheria, and Wilton Rancheria) have requested notification of projects in the jurisdiction of the City of Elk Grove. The City contacted each tribe by letter on April 13, 2018, providing a description of the proposed Project, a map of the Project area, and an invitation to respond within 30 days of the request for consultation.

The NAHC provided a list of eight California Native American tribes with cultural affiliation to the general Project vicinity: Buena Vista Rancheria of Me-Wuk Indians, Shingle Springs Band of Miwok Indians, Colfax-Todds Valley Consolidated Tribe, Tsi Akim Maidu, Ione Band of Miwok Indians, Nashville Enterprise Miwok-Maidu-Nishinam Tribe, United Auburn Indian Community of the Auburn Rancheria, and Wilton Rancheria. For the purposes of compliance with Section 106 of the NHPA, the City's consultant sent letters to each tribe on July 2, 2018. The letters

provided information on the Project, a map of the Project area, and a request for tribes to respond with any concerns regarding potential impacts to cultural resources. In October 2018, follow-up phone calls, or emails, were also made to each tribe. In October 2018, the City responded to requests from three tribes (Ione Band of Miwok Indians, United Auburn Indian Community of the Auburn Rancheria, and Wilton Rancheria) with updates on the Project, the results of the cultural resources study, and a request that the City facilitate a site visit to provide more Project information. During the outreach efforts, none of the contacted parties identified any specific concerns regarding cultural resources or the potential for the Project to impact cultural resources.

2.6 Other Project Assumptions

This IS/MND complies with all applicable state, federal, and local codes and regulations including but not limited to the City of Elk Grove Improvement Standards, the Sacramento County Water Agency Code, the Guidance Manual for On-Site Storm Water Quality Control Measures, the California Health and Safety Code, and the California Public Resources Code.

2.7 Technical Studies

The following technical studies were conducted in support of the Caltrans NEPA CE and this IS/MND. These studies are hereby incorporated by reference into this IS/MND and are attached as appendices, except as noted below:

- *Preliminary Environmental Study (PES)*: Arterial Roads Rehabilitation and Bicycle Lane Improvement Project City of Elk Grove, County of Sacramento RPSTPL 5479 (060). Environmental Science Associates, April 2018. Attached as **Appendix A**.
- *Scenic Resource Evaluation and Visual Impact Assessment*: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project [RPSTPL 5479 (060)]. Environmental Science Associates. March 2019. Attached as **Appendix B**.
- *Air Quality Conformity Analysis*: Arterial Roads Rehabilitation and Bicycle Lane Improvement Project City of Elk Grove, County of Sacramento RPSTPL 5479 (060). Environmental Science Associates. August 2019. Attached as **Appendix C**.
- *Natural Environment Study (NES)*: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. October 2019. Attached as **Appendix D**.
- *Aquatic Resources Delineation Report*: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. April 2019. Attached as **Appendix E**.
- *Archaeological Study Report (ASR)/Historic Property Survey Report (HPSR)*: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. June 2019. These documents contain confidential cultural resource site records, and are therefore not attached hereto as an appendix. These documents can be made available upon request to persons authorized to view such records.
- *Initial Site Assessment (ISA)*: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. May 2019. Attached as **Appendix F**.

- *Water Quality Technical Memorandum*: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. July 2019. Attached as **Appendix G**.
- *Construction Noise Memorandum*: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. March 2019. Attached as **Appendix H**.

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CHAPTER 3
Initial Study Checklist

Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this Project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

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

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial study:

☐ 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.

Signature	Date
Kevin M. Bewsey, PE	City of Elk Grove
Printed Name	

3.1 Aesthetics

Issues (and Supporting Information Sources):	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
I. AESTHETICS — Except as provided in Public Resources Code Section 21099, would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
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 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?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect daytime or nighttime views in the area?	☐	☐	☐	☒

This section relies upon the information and findings presented in the Visual Impact Assessment Technical Memorandum prepared for the Project: *Scenic Resource Evaluation and Visual Impact Assessment: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project [RPSTPL 5479 (060)]. Environmental Science Associates. March 2019*. This document is attached to this Initial Study as **Appendix B**.

Environmental Setting

Existing land uses surrounding the various Project segments include agricultural-residential, agricultural, low-density residential, estate residential, and commercial/office/multi-family residential. Waterman Road is a two-lane rural roadway that runs north to south. Elk Grove Florin Road is a two-lane roadway with a two-way middle turn lane, that runs north/south.

The Project area is situated on the broad, flat plain, and terrain is generally flat. Waterman Road is surrounded by grazing land, with a multi-family complex near Bond Road and utility transmission poles and lines as well as tall metal transmission towers on both sides of the roadway. There are no existing scenic resources or scenic vistas in the Project vicinity, and Waterman Road is not a designated scenic route. No state scenic highways are in or adjacent to the Project site.

Elk Grove Florin Road is located in a developed area with residential and commercial land uses along the roadway. Elk Grove Florin Road consists of two travel lanes and a two-way middle turn lane with sidewalks and trees along both sides of the roadway. There are no existing scenic resources or scenic vistas in the Project vicinity and Elk Grove Florin Road is not a designated scenic route. No state scenic highways are in or adjacent to the Project site.

Discussion of Impacts

a) Would the project have a substantial adverse effect on a scenic vista?

No Impact. A scenic vista is defined as a viewpoint that provides expansive views of a highly valued landscape for the benefit of the general public. In addition, some scenic vistas are officially designated by public agencies, or informally designated by tourists and tourist guides. A substantial adverse effect to such a scenic vista is one that degraded the view from such a designated view spot. None of the segments are considered a scenic corridor or have views which would be considered a scenic vista. Therefore, the Project would not have an adverse impact on a scenic vista.

b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. The Project would not adversely affect any "Designated Scenic Resource" as defined by CEQA statutes or guidelines, or by Caltrans policy. There are no designated scenic highways or eligible-for-designation scenic highways in the Project area.

c) Would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings, in a non-urbanized area? Would the project conflict with applicable zoning and other regulations governing scenic quality in an urbanized area?

Less than Significant Impact. The Project would not result in substantial adverse impacts to the visual environment. The proposed improvements would only slightly alter the current visual landscape as the affected corridors are existing facilities. The materials used would be similar to the existing materials, including the paint used for restriping, asphalt used for widening/resurfacing, and concrete for curbs and gutters. Vertical elements, such as fences and overhead utility poles that would be relocated within the City rights-of-way to accommodate the expanded roadway, shoulders, and bicycle lanes would not substantially change or degrade the existing visual environment, since they would only be relocating structures that are already present; thus, there would be no significant new vertical elements introduced as part of the Project. The slight changes to the views would not alter the visual character or quality of the segments.

d) Would the project create a new source of substantial light or glare which would adversely affect daytime or nighttime views in the area?

No Impact. There is existing street lighting along the Project corridor, as well as security lighting on adjacent private properties to detect and deter intrusions into properties. The Project would not include any additional lighting; nor would any of the materials include anything that would create a new source of glare. There would be no impact related to light or glare that would adversely affect views in the area.

Mitigation Measures

None required.

References

Environmental Science Associates, 2019. Scenic Resource Evaluation, and Visual Impact Assessment (VIA) Memorandum. March 28, 2019.

Environmental Science Associates, 2019. Questionnaire to Determine Visual Impact, using the Standard Environmental Reference, Environmental Handbook, Volume I: Chapter 27-Visual & Aesthetics Review. March 28, 2019.

3.2 Agricultural and Forestry Resources

Issues (and Supporting Information Sources):	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
II. AGRICULTURE AND FORESTRY RESOURCES — In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California 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. Would the project:				
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?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
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))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
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?	☐	☐	☐	☒

Environmental Setting

While several land uses within the Project vicinity are related to agriculture, these existing agricultural land uses are considered fallow (vacant or underutilized) and currently do not support crops or other agricultural operations. No parcels in the Project area are enrolled in a Williamson Act contract and the nearest parcel that is enrolled in an active Williamson Act contract is located at the northeast corner of the Bader Road/Bond Road intersection, which is approximately 1.5 miles east of the Project site (State Department of Conservation 2017). Parcels adjacent to the Project area are mapped as Other Land and Urban and Built-Up Land by the Farmland Mapping & Monitoring Program (FMMP) (State Department of Conservation 2017). Roughly 11 parcels located along Waterman Road to the east of the Project site are zoned for agricultural use. None of these parcels are considered to be Farmland of Local Importance by the FMMP.

The existing trees in the Project area are not considered to be forestry resources per definitions of Public Resources Code (PRC) Section 12220(g), timberland as defined by PRC Section 4526, or timberland zoned Timberland Production per Government Code Section 51104(g).

Discussion of Impacts

a) Would the project 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?

No Impact. According to the 2017 FMMP from the State Department of Conservation, the Project site is in an area that is designated as Urban and Built-Up Land and Other Land. These designations are not farmland; therefore, the Project would have no impact on farmlands.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. As previously described, the parcels adjacent to the Project are not under a Williamson Act contract. The surrounding parcels are currently zoned Agricultural Residential (AR-10), Open Space (O), Shopping Center (SC), and Low-Density Residential (RD-3, RD-4, and RD-5) (City of Elk Grove 2019). The Project involves the rehabilitation of an existing roadway and addition of bicycle lanes within the existing City ROW zoned for this type of project. The construction of the Project would not result in the conversion of farmland to a nonagricultural use, nor would the Project require any revisions to existing zoning designations. Accordingly, the Project would have no impact on agricultural resources.

c) Would the project conflict with existing zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production?

No Impact. The Project site is not used for growing a crop of trees for commercial lumber or other forest products; therefore, the Project site is not considered timberland. PRC Section 12220(g) defines forested land as land that can support 10 percent native tree cover of any species. By this definition, the Project site is not considered forest land. As the Project will be constructed within existing City ROW zoned for this type of project, the Project would not require any revisions to existing zoning designations. As such, the Project would not conflict with existing zoning for forest land or timberland and no impact would occur.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. The Project would result in the removal of existing trees and shrubs in limited locations within the ROW; however, these tree are not considered to be part of forest land. As such, the Project would have no impact on the loss of forest land or the conversion of forest land to non-forest use.

e) Would the project 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?

No Impact. As discussed above, the Project would not involve changes in the existing environment that could result in the conversion of farmland to nonagricultural use or the

conversion of forest land to non-forest use. All Project work would occur within City ROW, and there would be no impacts to adjacent lands. Although several trees are present within the Project site, they are not considered a forestry resource. As such, the Project would have no impact on the conversion of agricultural and forest land.

Mitigation Measures

None required.

References

State Department of Conservation, 2017. Division of Land Resource Protection - Sacramento County Important Farmland 2016, map. Available https://www.conservation.ca.gov/dlrp/fmmp/Pages/Sacramento.aspx. Accessed May 2, 2019.

City of Elk Grove, 2019. Elk Grove 2035 General Plan. Adopted February 27, 2019. Available http://www.elkgrovecity.org/city_hall/departments_divisions/planning/a_brighter_future/documents. Accessed May 2, 2019.

3.3 Air Quality

Issues (and Supporting Information Sources):		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
III.	**AIR QUALITY —** Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a)	Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☐	☒
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?	☐	☐	☒	☐
c)	Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d)	Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

This section relies upon the information and findings presented in the Air Quality Conformity Analysis prepared for the Project: *Air Quality Conformity Analysis: Arterial Roads Rehabilitation and Bicycle Lane Improvement Project City of Elk Grove, County of Sacramento RPSTPL 5479 (060). Environmental Science Associates. August 2019*. This document is attached to this Initial Study as **Appendix C**.

Environmental Setting

The Project is located within Sacramento County in the Sacramento Valley Air Basin (SVAB) in an area under jurisdiction of the Sacramento Metropolitan Air Quality Management District (SMAQMD) at the local level, the California Air Resources Board (ARB) at the state level, and the U.S. Environmental Protection Agency (EPA) at the federal level.

Table 3.3-1 shows that the proposed Project is located in an area that is considered a federal nonattainment area for O_3 and $PM_{2.5}$, an attainment-maintenance area for PM_{10} standards. The area is considered a state nonattainment area for ozone and PM_{10}. Federal and state air quality laws require regions designated as nonattainment to prepare plans that either demonstrates how the region will attain the standard or that demonstrate reasonable improvement in air quality conditions. As noted, the SMAQMD is responsible for developing attainment plans for the SMAQMD, for inclusion into California's State Implementation Plan (SIP).

TABLE 3.3-1
SACRAMENTO AIR QUALITY MANAGEMENT DISTRICT (SMAQMD) ATTAINMENT STATUS

Pollutant	Designation/Classification	
	Federal Standards	**State Standards**
Ozone – one hour	No Federal Standard	Nonattainment
Ozone – eight hour	Nonattainment	Nonattainment
PM_{10}	Attainment-Maintenance	Nonattainment
$PM_{2.5}$	Nonattainment	Attainment
CO	Unclassified/Attainment	Attainment
Nitrogen Dioxide	Unclassified/Attainment	Attainment
Sulfur Dioxide	Unclassified/Attainment	Attainment
Lead	Unclassified/Attainment	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Sulfates	No Federal Standard	Attainment
Visibility Reducing Particles	No Federal Standard	Unclassified

SOURCE: California Air Resources Board. Area Designations Maps / State and National. https://ww3.arb.ca.gov/desig/adm/adm.htm. Accessed October 4, 2019.

Discussion of Impacts

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

No Impact. To determine compliance with the applicable air quality plan, the SMAQMD recommends comparing the project to the SACOG growth projections included in the *Metropolitan Transportation Plan/Sustainable Communities Strategy* (MTP/SCS) (SACOG 2016), a comparison of the project's projected vehicle-miles travelled (VMT), and population growth rate. There would be no employment, housing units, or population generated by the proposed Project. In addition, the proposed Project would only consist of the resurfacing and widening of Waterman Road to add bicycle lanes and would not result in an increase in daily VMT. In fact, the widening would allow for the possibility of reduction in VMTs because it would allow individuals to use their bicycles instead of vehicles. Therefore, the proposed Project would not conflict with or obstruct implementation of applicable air quality plans and there would be no impact.

b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

Less than Significant. Since the SMAQMD is designated as nonattainment for ozone and PM_{10}, a cumulative significant air quality impact currently exists. According to the SMAQMD's *Guide to Air Quality Assessment in Sacramento County*, if a project's emissions are not anticipated to exceed the SMAQMD criteria pollutant significance thresholds, the

Project would not be expected to result in a cumulatively considerable contribution to the significant cumulative impact (SMAQMD 2009).

Project construction emissions of PM_{10} would exceed SMAQMD's zero pounds per day significance threshold. Although the Project's construction emissions of PM_{10} would be greater than zero pounds per day, the unmitigated emissions of PM_{10} would not exceed the SMAQMD's mitigated threshold, since implementation of the SMAQMD's Basic Construction Emissions Control Practices would apply to the Project. These regulations apply to all construction projects, and compliance with these standard requirements would reduce the Project's construction emissions. To ensure compliance with this requirement, **Mitigation Measure AQ-1** has been prescribed below. In addition, the proposed Project would not conflict with the Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan or the Triennial Report and Plan Revision since the Project would not result in an increase in VMT. Therefore, the Project's contribution would not be cumulatively considerable, and the impact would be less than significant.

Mitigation Measure

MM AQ-1: The following Basic Construction Emissions Control Practices are considered feasible for controlling fugitive dust from a construction site.

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

- Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads.
- Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose materials 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 (mph).
- All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.

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

- 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.

- Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated.

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Less than Significant. Construction of the Project would result in short-term diesel particulate matter (DPM) exhaust emissions from on-site heavy-duty equipment. DPM is a designated toxic air contaminant (TAC). Exposure of sensitive receptors—such as the adjacent and nearby residences along several of the Project segments—is the primary factor used to determine health risk. Exposure is a function of the concentration of a substance or substances in the environment and the extent of exposure that person has with the substance. A longer exposure period would result in a higher exposure level. Thus, the risks estimated for a maximally exposed individual are higher if a fixed exposure occurs over a longer period of time. According to the Office of Environmental Health Hazard Assessment (OEHHA), health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 30-year exposure period; however, such assessments should be limited to the period/ duration of activities associated with the Project. Thus, the duration of the proposed construction activities (up to 120 days) would only constitute a small percentage of the total 30-year exposure period. The roadway improvements along any given segment would likely take at most 30 days to complete, resulting in a limited exposure window for a given receptor. Given the short duration of exposure and limited equipment involved, DPM from construction activities is not anticipated to result in the exposure of sensitive receptors to levels that exceed applicable standards. Therefore, this impact would be less than significant.

d) Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less than Significant. The SMAQMD has identified typical odor sources in its *CEQA Guide to Air Quality Assessment in Sacramento County* (SMAQMD, 2019). These include wastewater treatment plants, sanitary landfills, composting and green waste facilities, recycling facilities, petroleum refineries, chemical manufacturing plants, painting and coating operations, rendering plants, and food packaging plants. These types of uses can create persistent and widespread sources of odors that can affect substantial numbers of people on a permanent of near-permanent basis. The proposed Project would not include any of these or other types of uses that would create permanent or persistent objectionable odors. Diesel equipment used during construction could produce odorous exhaust that could be temporarily experienced by receptors (i.e., residences) adjacent to the various Project segments. However, these impacts would be limited to the immediate area around which the equipment would be operating, and would be temporary in nature (perhaps several hours) and would not affect a substantial number of people. Therefore, this impact would be less than significant.

References

ESA. 2019. Air Quality Conformity Analysis: Arterial Roads Rehabilitation and Bicycle Lane Improvement Project City of Elk Grove, County of Sacramento RPSTPL 5479 (060). August 19, 2019.

Sacramento Area Council of Governments. 2016. Metropolitan Transportation Plan/Sustainable Communities Strategy. https://www.sacog.org/2016-mtpscs. Accessed October 4, 2019.

Sacramento Metropolitan Air Quality Management District. 2019. CEQA Guide to Air Quality Assessment in Sacramento County. http://www.airquality.org/businesses/ceqa-land-use-planning/ceqa-guidance-tools. Accessed October 4, 2019.

3.4 Biological Resources

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
IV. BIOLOGICAL RESOURCES — Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☒	☐	☐
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 U.S. Fish and Wildlife Service?	☐	☒	☐	☐
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☒	☐	☐
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?	☐	☒	☐	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☒	☐	☐
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?	☐	☐	☐	☒

This section relies upon the information and findings presented in the biological resources and wetland delineation reports prepared for the Project: *Natural Environment Study (NES): Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. October 2019*; and *Aquatic Resources Delineation Report: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. April 2019*. These documents are attached to this Initial Study as **Appendices D and E**, respectively.

Environmental Setting

For purposes of describing the biological resources in the Project area, a **Project Impact Area (PIA)** boundary was established to represent the maximum extent of ground disturbance for the Project. The **Biological Study Area (BSA)** included the PIA and extended 250 feet from the PIA boundary. The 250-foot buffer of the BSA was established to identify potential indirect effects of the Project. **Figure 3.4-1** shows the locations of the PIA and the BSA.

Physical Conditions of the Biological Study Area

The BSA is located within the eastern portion of the City of Elk Grove, and comprises the eight roadway segments that constitute the Project. Land uses within and adjacent to the BSA consist of a mix of agriculture, open space/public parks, low- to high-density residential, commercial, and industrial. Within the BSA, many areas appear to have been historically graded or otherwise disturbed, and much of the BSA is developed land.

The BSA is situated on the broad, flat alluvial plain of the Sacramento River, and terrain is generally flat. Elevations of the BSA range from approximately 44 to 71 feet above mean sea level. Climate is typically hot and sub-humid. Data from the Western Regional Climate Center for the Sacramento Executive Airport weather station indicates that average annual precipitation is 17.24 inches. The average maximum annual temperature is 73.6 degrees (F) and average minimum annual temperature is 48.1 degrees (F) (Western Regional Climate Center 2018).

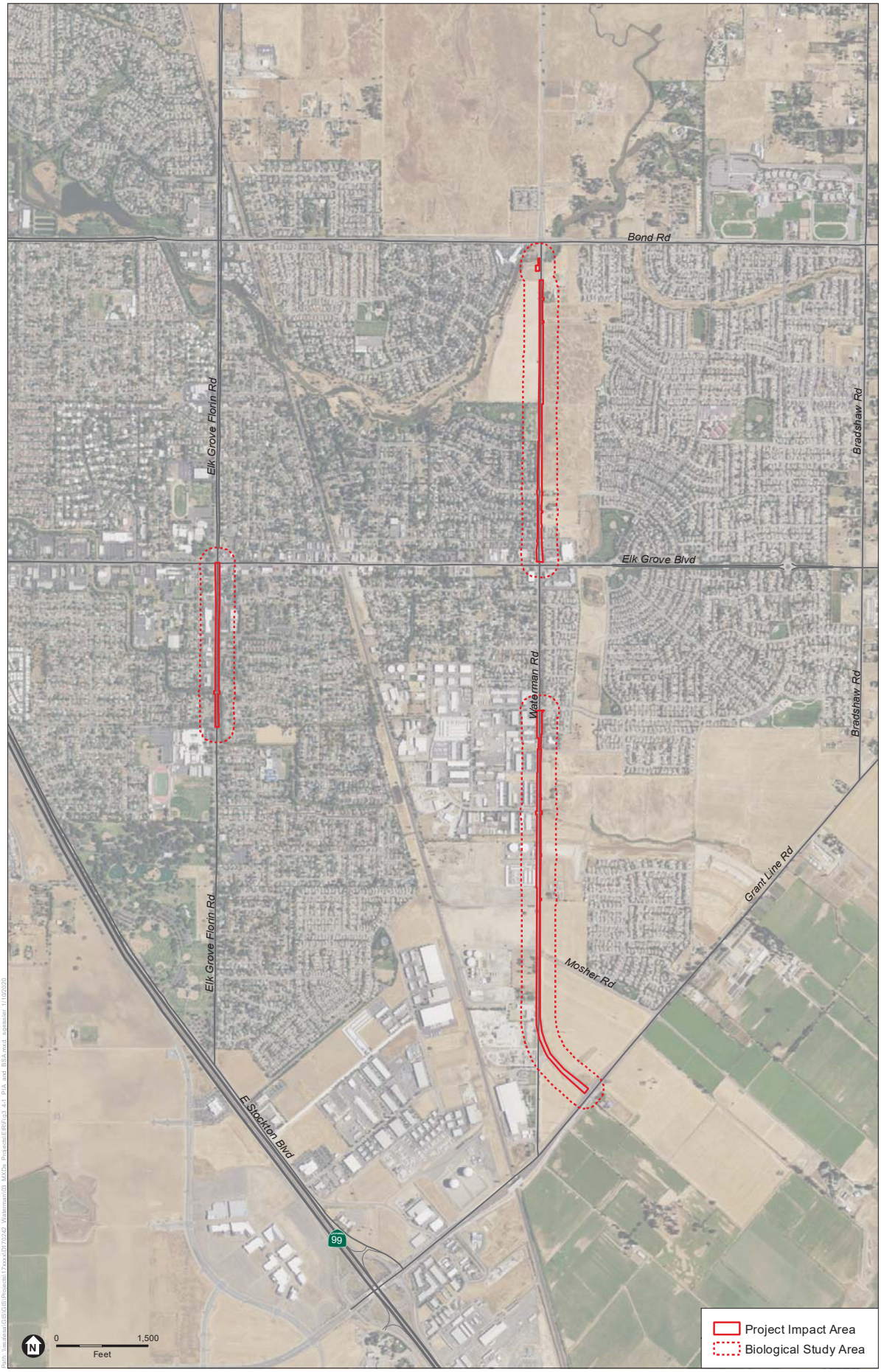
Surface waters in the BSA are part of the Morrison Creek Stream Group, and include Laguna Creek and tributaries. Deer Creek is southeast of the BSA, parallel to the Cosumnes River. However, all of the drainages in the BSA drain into the Morrison Creek Stream Group, then eventually into the Sacramento River. Most of the BSA is located in the Laguna Creek watershed, which is part of the Lower Sacramento Subbasin. The southern Waterman Road Project segments are in the Lower Deer Creek watershed. Laguna Creek, the main creek that flows through the City of Elk Grove, has been altered by development. Channels, levees, and culverts have been installed to alleviate the possibility of flooding, as well as to accommodated different development scenarios.

Vegetation in the Biological Study Area

Plant communities are assemblages of plant species that occur together in the same area, and are defined by species composition and relative abundance. Eleven plant communities occur within the BSA (see **Table 3.4-1**). Upland plant communities within the BSA include developed/ ornamental, annual grassland, riparian, and agricultural. Aquatic plant communities and habitats include perennial channel, intermittent channel, seasonal wetland, vernal swale, vernal pool, detention basin, and agricultural ditch. The majority of the BSA consists of annual grassland and developed/ornamental. A detailed description of each of the habitats and plant communities documented within the BSA is provided below. Maps of the various vegetation communities and aquatic features present within the BSA and PIA are provided in **Figures 3.4-2a through 3.4-2c**.

Developed/Ornamental

Within the BSA, 114.32 acres of developed/ornamental plant community is present, with 16.96 acres in the PIA. This plant community includes all paved roads, driveways, buildings, and unpaved shoulders as well as landscaped areas including public parks. Vegetation within this community is dominated by non-native ornamentals including Brazilian pepper tree (*Schinus terebinthifolius*), ornamental pines (*Pinus* sp.), lily of the Nile (*Agapanthus africanus*), Italian cypress (*Cupressus sempervirens*), oleander (*Nerium oleander*), sweet gum (*Liquidambar styraciflua*), and callery pear (*Pyrus calleryana*). Within private yards along the BSA roadways much of the vegetation consists of regularly mowed annual grasses.

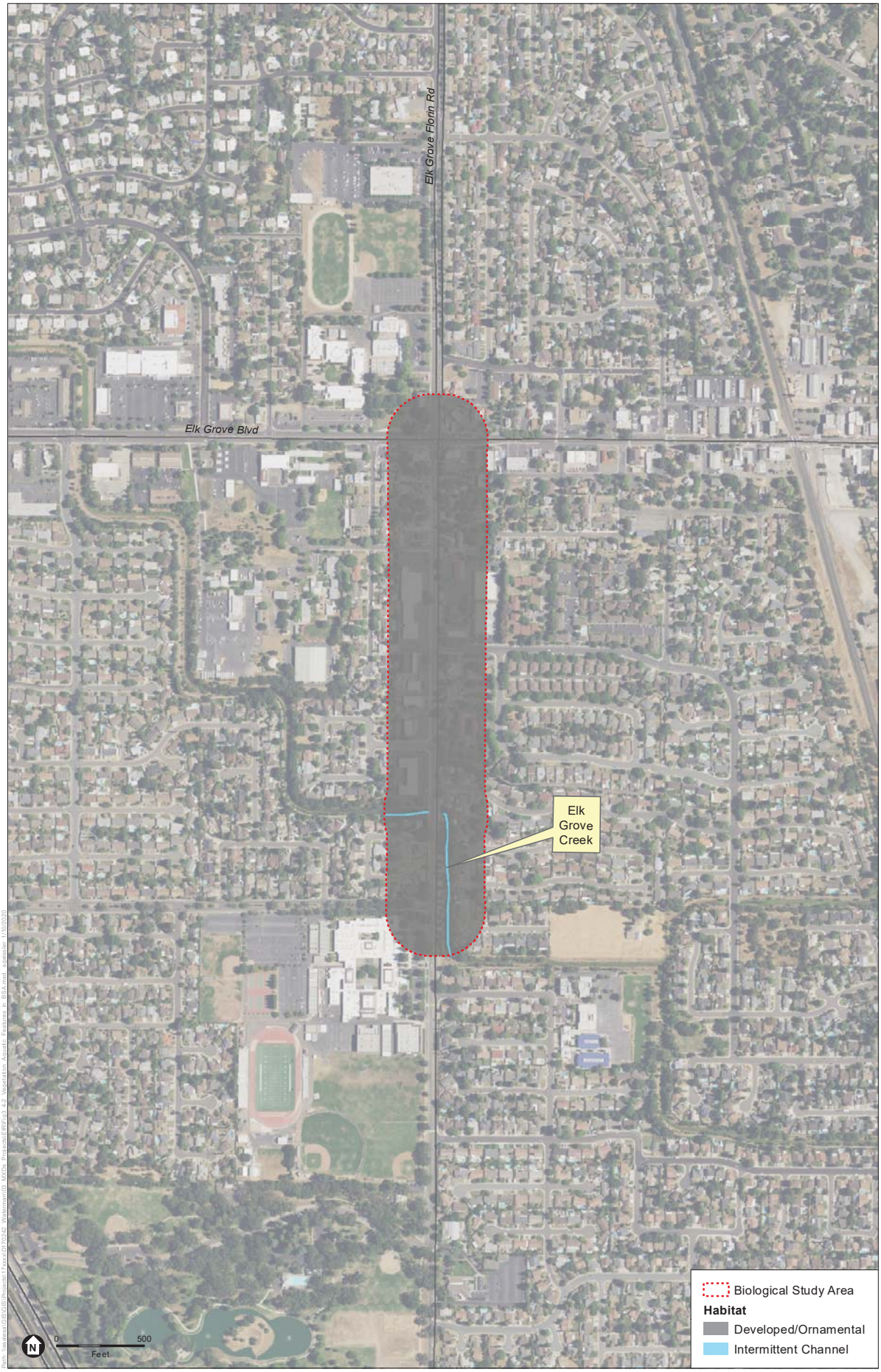


SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3.4-1
Project Impact Area and Biological Study Area

ESA

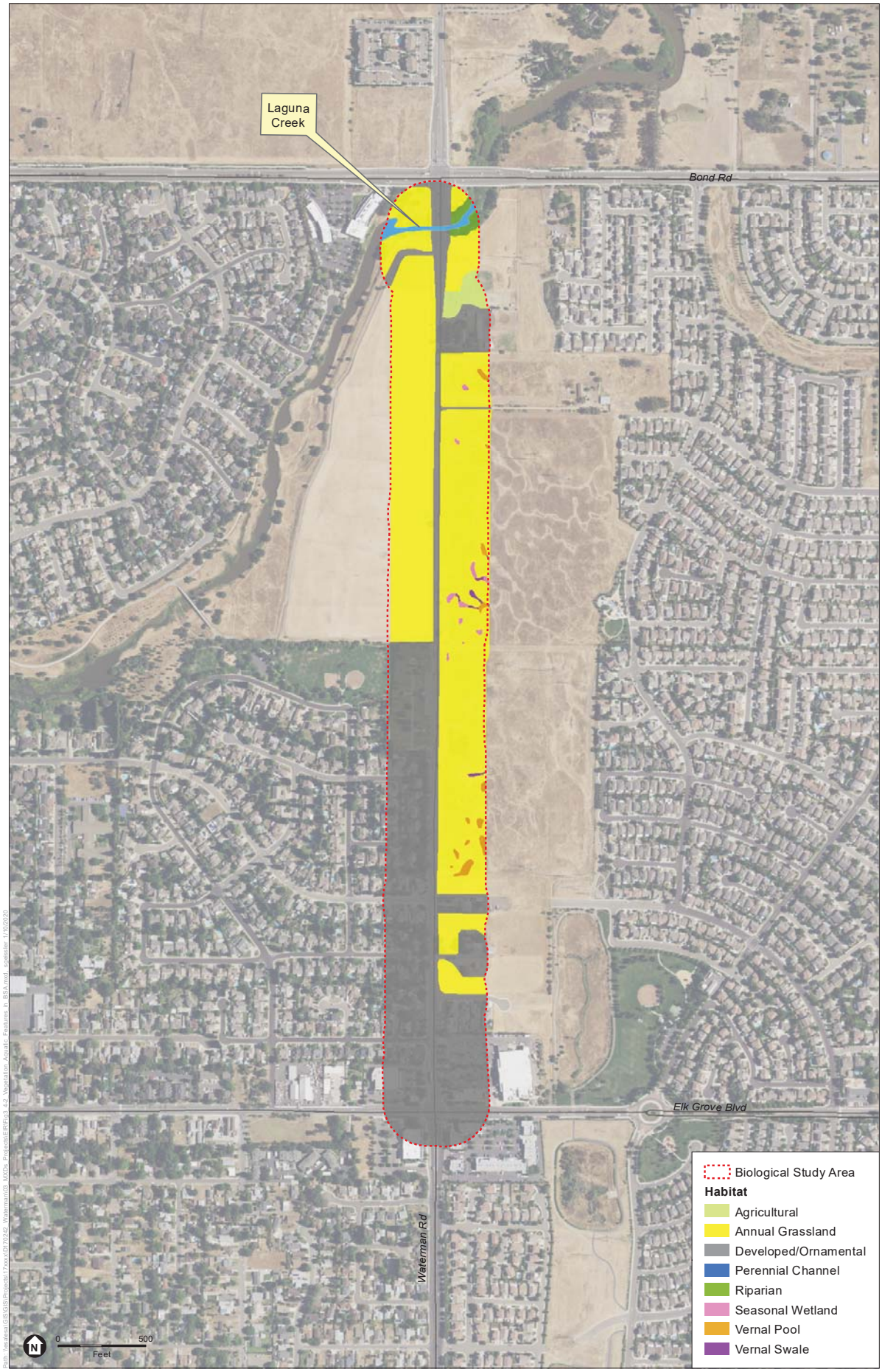


SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3.4-2a
Vegetation and Aquatic Features within the BSA

ESA

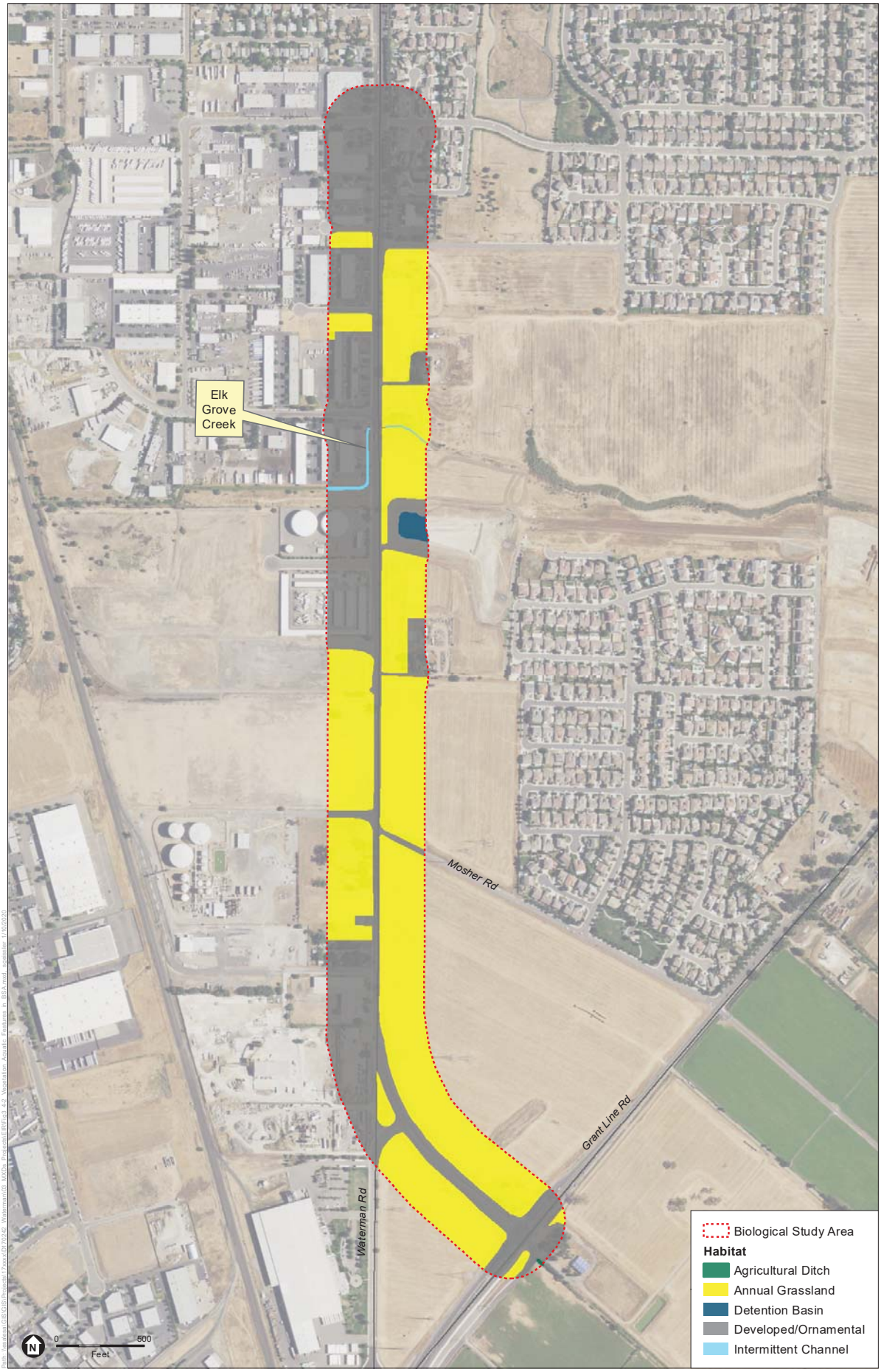


SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3.4-2b
Vegetation and Aquatic Features within the BSA

ESA



SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3.4-2c
Vegetation and Aquatic Features within the BSA

ESA

TABLE 3.4-1
PLANT COMMUNITIES AND HABITATS WITHIN THE BSA AND PIA

Plant Community	BSA[1] (acres)	PIA (acres)
Developed/Ornamental	114.32	16.96
Annual Grassland	82.59	2.34
Agricultural	1.01	0.01
Seasonal Wetland	0.22	0.00
Detention Basin	0.52	0.00
Perennial Channel	0.46	0.00
Intermittent Channel	0.34	0.00
Riparian	0.46	0.00
Vernal Pool	0.45	0.00
Vernal Swale	0.12	0.00
Agricultural Ditch	0.01	0.00

[1] Plant community and habitat acreages in the BSA include acreages from the PIA.

Developed/ornamental vegetation provides marginal habitat for wildlife species. Species expected to occur in these areas include Brewer's blackbird (*Euphagus cyanocephalus*), European starling (*Sturnus vulgaris*), house sparrow (*Passer domesticus*), rock dove (*Columba livia*), and white-crowned sparrow (*Zonotrichia leucophrys*).

Annual Grassland

A total of 82.59 acres of annual grassland was mapped within the BSA, with 2.34 acres in the PIA. This plant community, along with developed/ornamental, comprises the majority of the BSA, and is interspersed with large sections of developed/ornamental plant community and in some areas numerous wetland habitats. Dominant plant species include non-native grasses such as soft chess (*Bromus hordeaceus*), medusa head grass (*Elymus caput-medusae*), wild oat (*Avena fatua*), Italian ryegrass (*Festuca perennis*), foxtail barley (*Hordeum murinum*), and rat-tail six-weeks fescue (*Festuca myuros);* non-native herbaceous species including long-beak stork's-bill (*Erodium botrys*), rose clover (*Trifolium hirtum*), smooth cat's ear (*Hypochaeris glabra*), spring vetch (*Vicia sativa*), and yellow star-thistle (*Centaurea solstitialis*); and native herbaceous species such as brodiaea (*Brodiaea* sp.) and spikeweed (*Centromadia fitchii*).

Annual grassland habitat supports breeding, cover, and foraging habitat for a variety of wildlife species. Species expected to occur in this habitat include American crow (*Corvus brachyrhynchos*), mourning dove (*Zenaida macroura*), red-tailed hawk (*Buteo jamaicensis*), black-tailed jackrabbit (*Lepus californicus*), California ground squirrel (*Spermophilus beecheyi*), coyote (*Canis latrans*), and mule deer (*Odocoileus hemionus californicus*).

Agricultural

Within the BSA, 1.01 acres were mapped as agricultural, with 0.01 acre in the PIA. Agricultural lands occur interspersed with rural residential areas in the BSA. This plant community consists of pastures (comprised of annual grassland species), fallow fields, and areas used for row crops,

primarily strawberries (*Fragaria × ananassa)*, with dirt/gravel strips around the field edges for vehicle access. In addition to the agricultural crops identified within this habitat, plant species include non-native annual grasses, prickly lettuce (*Lactuca serriola*), yellow star-thistle, and field bindweed (*Convolvulus arvensis*).

Agricultural land generally provides low-quality breeding habitat for wildlife species due to the high level and frequency of disturbance; however, it may provide cover and foraging habitat for many species. Species expected to occur in the habitat include America crow, America robin (*Turdus migratorius*), western scrub jay (*Aphelocoma californica*), yellow-billed magpie (*Pica nuttalli*), black-tailed jackrabbit, and deer mouse (*Peromyscus maniculatus*).

Seasonal Wetland

Seasonal wetlands total 0.22 acre in the BSA, and are interspersed through the annual grassland habitat east of Waterman Road in the northern Waterman Road Project segments (Segments 1 and 2). This plant community is not present within the PIA. Vegetation in the seasonal wetlands is dominated by Italian ryegrass, lesser hawkbit (*Leontodon saxatilis*), Mediterranean barley (*Hordeum marinum* ssp. *gussoneanum*), toad rush (*Juncus bufonius*), and hyssop loosestrife (*Lythrum hyssopifolia*). There was no surface water in the seasonal wetlands along Waterman Road at the time of the field survey.

Wildlife species use seasonal wetlands for temporary water sources and cover. Species expected to occur in this habitat type are similar to those expected to occur in the annual grassland habitat discussed above.

Detention Basin

Approximately 0.52 acre of detention basin was identified in the BSA, but this habitat type is not present in the PIA. The detention basin is unvegetated and appears to be used to store storm water following storm events. The detention basin is not considered a water of the U.S.

Perennial Channel

A total of 0.46 acre of perennial channel habitat occurs within the BSA in the form of Laguna Creek at the northern end of the northernmost Waterman Road Project segment (Segment 1). There is no perennial channel habitat within the PIA. A perennial channel is a stream, or stream portion, that flows continuously during the calendar year. Larger riverine features such as perennial drainages may support riparian habitat along the banks and freshwater emergent wetland vegetation often occurs within the banks of the channel. The gradient in both channels is low and water velocity is generally slow and the substrate consists mainly of sand and mud. Laguna Creek is the dominant riverine habitat feature within the BSA. Laguna Creek supports freshwater emergent wetland species within its banks such as common cattail (*Typha latifolia*) and sedge (*Carex* sp.).

Several aquatic species use riverine habitats including fish species, bullfrog (*Rana catesbeiana*), and Pacific chorus frog (*Pseudacris regilla*), as well as avian and mammal species. Wildlife species expected to occur in this habitat include belted kingfisher (*Ceryle alcgon*), great blue

heron (*Ardea herodias*), great egret (*Ardea alba*), mallard (*Anas platyrhynchos*), mule deer, and raccoon (*Procyon lotor*).

Intermittent Channel

Intermittent channels total 0.34 acre within the BSA in the form of Elk Grove Creek and a number of agricultural ditches. There is no intermittent channel habitat within the PIA. Elk Grove Creek crosses the southern Waterman Road and Elk Grove Florin Road Project segments (Segments 4 and 8, respectively). An intermittent channel has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow. In the BSA, Elk Grove Creek has been channelized and is concrete lined, likely for flood control purposes. Some ruderal weedy species were observed growing within the banks of Elk Grove Creek. The agricultural ditches are for the most part unvegetated, with ruderal weedy species observed on the banks of the ditches but not within the channels.

Species expected to occur in this habitat type are similar to those expected to occur in the perennial channel habitat discussed above.

Riparian

Within the BSA, 0.46 acre were identified as riparian vegetation, with none present within the PIA. This habitat was identified along both banks of Laguna Creek east of Waterman Road at the northern end of the northernmost Waterman Road Project segment (Segment1). The riparian bands are bounded by annual grassland to the north and south and are bisected by Laguna Creek. Overstory species observed within this habitat include valley oak (*Quercus lobata*) and willow (*Salix* sp.). The understory is predominantly Himalayan blackberry (*Rubus armeniacus*). The riparian habitat in the BSA is associated with Laguna Creek, but is not considered a water of the U.S. due to a lack of wetland indicators (lacks wetland hydrology and soils).

Riparian habitat provides substantial breeding, cover, and foraging habitat for a variety of resident and migratory wildlife species. Additionally, this habitat provides a sheltered corridor for wildlife movement. Species expected to occur in this habitat include belted kingfisher, black phoebe (*Sayornis nigricans*), bushtit (*Psaltriparus minimus*), great blue heron, great egret, and mule deer.

Vernal Pool

Vernal pools comprise 0.45 acre of the BSA, but are not present within the PIA. Within the BSA, vernal pools are interspersed with annual grassland east of the northern Waterman Road Project segments (Segments 1 and 2). Vegetation is dominated by common spike rush (*Eleocharis macrostachya*), annual hairgrass (*Deschampsia danthonioides*), Italian ryegrass, Carter's buttercup (*Ranunculus bonariensis*), coyote thistle (*Eryngium castrense*), woolly marbles (*Psilocarphus brevissimus*), and vernal pool popcorn-flower (*Plagiobothrys stipitatus*).

Vernal pools support invertebrate communities that thrive in inundated conditions. Invertebrate species that potentially occur in vernal pools within the BSA include common and special-status species such as clam shrimp (*Cyzicus californicus*), seed shrimp (*Cypria* sp.), vernal pool fairy

shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), and several aquatic insects.

Vernal Swale

Vernal swales are present in association with the vernal pool and seasonal wetland habitats along the eastern side of the northern Waterman Road Project segments (Segments 1 and 2), totaling 0.12 acre. No vernal swales are present in the PIA. These features often connect vernal pools and seasonal wetlands, forming large complexes that are hydrologically contiguous. Since swales convey rather than pond water like seasonal wetlands, they are dominated by hydrophytic (water loving) plants typical of wetlands with relatively short hydroperiods including Italian ryegrass and Mediterranean barley. The swales in the BSA do not support a prevalence of vernal pool indicator plant species, although they are often found in close associated with vernal pools.

Wildlife species use vernal swales for temporary water sources and cover. Species expected to occur in this habitat type are similar to those expected to occur in the annual grassland habitat discussed above.

Agricultural Ditch

Agricultural ditches are present in association with agricultural fields at the southern end of Waterman Road (Segment 7), totaling 0.01 acre. No agricultural ditches are present in the PIA. These shallow, graded ditches generally run along the edges of fields.

Special-Status Species and Regional Habitats of Concern

Tables 3.4-2 and 3.4-3 (provided at the end of this discussion) list the special-status plants and wildlife species that are known to occur or have the potential to occur in the vicinity of the BSA. These species were identified based on the California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDB) records search (CDFW 2019), California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants (CNPS 2019), species lists provided by the U.S. Fish and Wildlife Service (USFWS 2019) and National Marine Fisheries Service (NMFS 2019), and data regarding species distribution and habitat requirements.

For the purpose of this analysis, special-status species are generally defined as follows:

- Plant and wildlife species listed or proposed for listing as threatened or endangered under the federal Endangered Species Act (FESA).
- Plant and wildlife species that are candidates for possible future listing as threatened or endangered under the FESA.
- Plant and wildlife species that meet the definition of rare or endangered species under CEQA, or are considered sensitive or unique by the scientific community, or occur at the limits of its natural range (CEQA Guidelines, Section 15380).
- Plants considered by the CNPS to be "rare, threatened, or endangered" in California (California Rare Plant Rank 1A, 1B and 2 [CNPS 2019]).
- Plants listed or proposed for listing by the State of California as threatened or endangered under the California Endangered Species Act (CESA) (14 CCR 670.5).

- Plants listed under the California Native Plant Protection Act (CFGC 1900 et seq.).
- Plants considered sensitive by other federal agencies (i.e., U.S. Forest Service, Bureau of Land Management) or state and local agencies or jurisdictions.
- Wildlife species that are listed or proposed for listing under CESA (CFGC 1992 Sections 2050 et seq.; 14 CCR Sections 670.1 et seq.).
- Wildlife species that are designated as Species of Special Concern (SSC) by CDFW.
- Wildlife species that are designated as Fully Protected by CDFW (CFGC, Section 3511, 4700, 5050, and 5515).

Special-Status Plants

Based on queries taken during the Project's pre-field investigation of the various data sources outlined previously in this section, 20 special-status plant species were identified as having potential to occur in the vicinity of the Project (**Table 3.4-2**). Following direct observations taken during field surveys, 13 of these species were determined to not have potential to occur in the BSA or have the potential to be affected by Project construction because: 1) the BSA lacks suitable habitat, or 2) the BSA is outside the species' known range. The remaining seven special-status plant species have suitable habitat within the BSA, but not within the PIA. Rationale for presence or absence and likelihood of occurrence within the BSA for special-status plants is provided in Table 3.4-2.

Special-Status Wildlife

Based on the review of existing information including a search of the CNDDB, USFWS, and NMFS species lists, and species distribution and habitat requirements data, 26 special-status wildlife species were identified during the pre-field review as occurring or having the potential to occur within the BSA. The listing status, preferred habitat, and potential for occurrence in the BSA for each of these species are provided in **Table 3.4-3**.

Of the 26 special-status wildlife species listed in Table 3.4-3, 17 species were determined to not have potential to occur within the BSA, because: 1) the BSA lacks suitable habitat, or 2) the BSA is outside the species' known range). There is habitat within the BSA for the remaining nine species. Vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), western spadefoot (*Spea hammondii*), western pond turtle (*Emys marmorata*), giant garter snake (*Thamnophis gigas*), tricolored blackbird (*Aeglaius tricolor*), burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), and white-tailed kite (*Elanus leucurus*) were determined to be potentially present within the BSA and have potential to be affected by the Project. Potential impacts to these species are addressed in the *Discussion of Impacts* portion of this section. Rationale for presence or absence and likelihood of occurrence in the BSA for special-status wildlife is provided in Table 3.4-3.

TABLE 3.4-2
SPECIAL-STATUS PLANT SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY AREA

Common and Scientific Name	Legal Status[1] Federal/ State/CNPS	Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Survey Results/Rationale[2]
Watershield *Brasenia schreberi*	--/--/2B.3	Butte, El Dorado, Fresno, Kern, Lake, Lassen, Mendocino, Nevada, Plumas, Sacramento, Shasta, Siskiyou, San Joaquin, Sutter, Tehama, Tulare, and Tuolumne counties.	Marshes and swamps (freshwater). 100 – 7,200 feet.	June - September	Habitat Absent	Absent	No suitable habitat within the BSA. There is a single CNDDB occurrence approximately 7.6 miles southwest of the BSA.
Bristly sedge *Carex comosa*	--/--/2B.1	Contra Costa, Lake, Mendocino, Sacramento, San Bernardino, Santa Cruz, San Francisco, Shasta, San Joaquin, and Sonoma counties.	Coastal prairie, marshes and swamps (lake margins), and valley and foothill grasslands. 0 – 2050 feet.	May - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are six CNDDB occurrences within 10 miles of the BSA, the nearest approximately 6.7 miles west of the BSA.
Bolander's water-hemlock *Cicuta maculata* var. *bolanderi*	--/--/2B.1	Contra Costa, Marin, Sacramento, Santa Barbara, and Solano counties.	Marshes (coastal, freshwater or brackish). 0 – 650 feet.	July - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.
Peruvian dodder *Cuscuta obtusiflora* var. *glandulosa*	--/--/2B.2	Butte, Los Angeles, Merced, San Bernardino, Sonoma and Sutter counties.	Marshes and swamps (freshwater). 50 – 900 feet.	July - October	Habitat Absent	Absent	No suitable habitat within the BSA. There is a single CNDDB occurrence approximately 3.6 miles west of the BSA.
Dwarf downingia *Downingia pusilla*	--/--/2B.2	Southern Sacramento Valley, northern San Joaquin Valley, and southern North Coast Ranges.	Vernal pools in valley and foothill grasslands. 3 – 1,460 feet.	March - May	Habitat Present	Potentially Present	Suitable habitat (vernal pools) within the BSA, but not within the PIA. There are two CNDDB occurrences within 0.2 miles of the BSA and two additional occurrences within 10 miles.
Bogg's Lake hedge hyssop *Gratiola heterosepala*	--/SE/1B.2	Fresno, Lake, Lassen, Madera, Merced, Modoc, Placer, Sacramento, Shasta, Siskiyou, San Joaquin, Solano, Sonoma, and Tehama counties.	Clay soil in marshes and swamps (lake margins) and vernal pools. 0 – 7,800 feet.	April - August	Habitat Present	Potentially Present	Suitable habitat (vernal pools) within the BSA, but not within the PIA. There is one known CNDDB occurrence approximately 0.7 miles north of BSA, and five other occurrences within 10 miles.
Woolly rose-mallow *Hibiscus lasiocarpos* var. *occidentalis*	--/--/1B.2	Butte, Contra Costa, Colusa, Glenn, Sacramento, San Joaquin, Solano, Sutter, and Yolo counties.	Often in riprap on sides of levees in marshes and swamps (freshwater). 0 – 390 feet.	June - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are 10 CNDDB occurrences within 10 miles of the BSA, the nearest approximately 6.4 miles west of the BSA.

TABLE 3.4-2 (CONTINUED)
SPECIAL-STATUS PLANT SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY

Common and Scientific Name	Legal Status[1] Federal/ State/CNPS	Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Survey Results/Rationale[2]
Northern California black walnut *Juglans hindsii*	--/--/1B.1	Contra Costa, Napa, Sacramento, Solano, and Yolo counties.	Riparian forest and riparian woodland. 0 – 1,450 feet.	April - May	Habitat Present	Potentially Present	Suitable habitat (riparian woodland) within the BSA, but not within the PIA. There is a single CNDDB occurrence approximately 7.5 miles west of the BSA.
Ahart's dwarf rush *Juncus leiospermus* var. *ahartii*	--/--/1B.2	Sacramento Valley in Butte, Calaveras, Placer, Sacramento, Tehama, and Yuba counties.	Valley and foothill grassland (mesic). 100 – 750 feet.	March - May	Habitat Present	Potentially Present	Suitable habitat (vernal pools) within the BSA, but not within the PIA. There are two CNDDB occurrences within 10 miles of the BSA, the nearest approximately 9.0 miles northeast of the BSA.
Delta tule pea *Lathyrus jepsonii* var. *jepsonii*	--/--/1B.2	Contra Costa, Napa, Sacramento, San Joaquin, Solano, Sonoma, and Yolo counties.	Freshwater and brackish marshes and swamps. 0 – 15 feet.	May - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.
Legenere *Legenere limosa*	--/--/1B.1	Southern Sacramento Valley, south North Coast Ranges in Alameda, Lake, Monterey, Napa, Placer, Sacramento, Santa Clara, Shasta, San Joaquin, San Mateo, Solano, Sonoma, Stanislaus, Tehama, and Yuba counties.	Vernal pools. 3 – 2,900 feet.	April - June	Habitat Present	Potentially Present	Suitable habitat (vernal pools) within the BSA, but not within the PIA. There are two CNDDB occurrences within 0.5 miles of the BSA and 20 additional occurrences within 10 miles.
Heckard's pepper-grass *Lepidium latipes* var. *heckardii*	--/--/1B.2	Glenn, Merced, Sacramento, Solano, and Yolo counties.	Alkaline flats in valley and foothill grasslands. 7 – 650 feet.	March - May	Habitat Present	Potentially Present	Suitable habitat (seasonal wetlands) within the BSA, but not within the PIA. There are two CNDDB occurrences within 10 miles of the BSA, the nearest approximately 7.0 miles west of the BSA.
Mason's lilaeopsis *Lilaeopsis masonii*	--/SR/1B.1	Alameda, Contra Costa, Marin, Napa, Sacramento, San Joaquin, Solano, and Yolo counties.	Marshes and swamps (freshwater or brackish) and riparian scrub. 0 – 30 feet.	April - November	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.

TABLE 3.4-2 (CONTINUED)
SPECIAL-STATUS PLANT SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY

Common and Scientific Name	Legal Status[1] Federal/ State/CNPS	Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Survey Results/Rationale[2]
Delta mudwort *Limosella australis*	--/--/2B.1	Contra Costa, Sacramento, San Joaquin, and Solano counties.	Usually mud banks in marshes and swamps (freshwater or brackish) and riparian scrub. 0 – 10 feet.	May - August	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.
Slender Orcutt grass *Orcuttia tenuis*	FT/SE/1B.1	Northern Sacramento Valley, Pit River Valley; isolated populations in Lake and Sacramento counties.	Often gravelly soil in vernal pools. Species requires prolonged inundation period. Species known from larger pools (>0.2 acre). 115 – 5,800 feet.	May - October	Habitat Absent	Absent	Although the BSA supports vernal pool habitat, the vernal pools in the BSA are not large enough nor do they remain inundated long enough to support this species. There are two CNDDB occurrences within 10 miles of the BSA, the nearest approximately 4.6 miles northeast of the BSA. ***No effect.***
Sacramento Orcutt grass *Orcuttia viscida*	FE/SE/1B.1	Sacramento County.	Vernal pools. Species requires prolonged inundation period. Species known from larger pools (>0.1 acre). 100 to 330 feet.	April - September	Habitat Absent	Absent	Although the BSA supports vernal pool habitat, the vernal pools in the BSA are not large enough nor do they remain inundated long enough to support this species. There are two CNDDB occurrences within 10 miles of the BSA, the nearest approximately 5.8 miles northeast of the BSA. ***No effect.***
Sandford's arrowhead *Sagittaria sanfordii*	--/--/1B.2	Scattered locality throughout the Central Valley and adjacent foothills.	Marshes and swamps (assorted shallow freshwater). 0 – 2,100 feet.	May - November	Habitat Absent	Absent	No suitable habitat within the BSA. There are three CNDDB occurrences within 0.7 miles of the BSA and 28 additional occurrences within 10 miles.
Marsh skullcap *Scutellaria galericulata*	--/--/2B.2	El Dorado, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta and San Joaquin counties.	Lower montane coniferous forest, meadows and seeps (mesic), as well as marshes and swamps. 0 – 6,900 feet.	June - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.
Side-flowering skullcap *Scutellaria lateriflora*	--/--/2B.2	Inyo, Sacramento and San Joaquin counties.	Meadows and seeps (mesic) as well as marshes and swamps. 0 – 1,650 feet.	July - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.

TABLE 3.4-2 (CONTINUED)
SPECIAL-STATUS PLANT SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY

Common and Scientific Name	Legal Status[1] Federal/ State/CNPS	Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Survey Results/Rationale[2]
Saline clover *Trifolium hydrophilum*	--/--/1B.2	Alameda, Contra Costa, Lake, Monterey, Napa, Sacramento, San Benito, Santa Clara, Santa Cruz, San Luis Obispo, San Mateo, Solano, Sonoma and Yolo counties.	Marshes and swamps, valley and foothill grassland (mesic, alkaline), and vernal pools. 0 – 985 feet.	April - June	Habitat Present	Potentially Present	Suitable habitat (seasonal wetlands and vernal pools) within the BSA, but not within the PIA. There are five CNDDB occurrences within 10 miles of the BSA, the nearest approximately 6.1 miles west of the BSA.

NOTES:

1 Status explanations:

-- = no listing.

Federal
FE = listed as endangered under the federal Endangered Species Act (FESA).
FT = listed as threatened under the federal Endangered Species Act.

State
SE = listed as endangered under the California Endangered Species Act (CESA).
SR = listed as rare under the California Endangered Species Act.
ST = listed as threatened under the California Endangered Species Act.

California Native Plant Society (CNPS)
1B = Rank 1B species: rare, threatened, or endangered in California and elsewhere.
2B = Rank 2B species: rare, threatened, or endangered in California but more common elsewhere.
0.1 = Seriously threatened in California (over 80% of occurrences threatened/high degree and immediacy of threat)
0.2 = Moderately threatened in California (20%-80% occurrences threatened/moderate degree and immediacy of threat)
0.3 = Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat or no current threats known)

2 Rationale includes an effects determination for those species that are listed under the federal Endangered Species Act (FESA) for purposes of federal compliance per the requirements of Caltrans. An effects determination is not included for those species that are not federally listed (i.e., those species that are listed only under CESA and/or CNPS), since those requirements do not apply to species that are not also listed under the FESA.

TABLE 3.4-3
SPECIAL-STATUS WILDLIFE SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY AREA

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Invertebrates								
Vernal pool fairy shrimp *Branchinecta lynchi*	FT	--	Central Valley, Central and South Coast Ranges from Tehama County to Santa Barbara County; isolated populations also in Riverside County and southern Oregon	Vernal pools and seasonal wetlands; also found in sandstone rock outcrop pools.	November-April for active shrimp, April-November for cysts	Habitat Present	Assumed Present	Suitable habitat (seasonal wetlands and vernal pools) within the BSA, but not within the PIA. Suitable habitat will not be impacted by the Project. USFWS protocol presence/absence surveys have not been conducted for this species. There are two CNDDB occurrences within the BSA, and 64 additional occurrences within 10 miles. ***No effect.***
Valley elderberry longhorn beetle *Desmocerus californicus dimorphus*	FT	--	Central Valley and surrounding foothills below 1,500 feet elevations	Dependent on elderberry (*Sambucus* sp.) shrubs as a host plant; potential habitat is shrubs with stems 1 inch in diameter within Central Valley.	Year-round for host plant and exit holes	Habitat Absent	Absent	No suitable habitat within the BSA. No elderberry shrubs were observed within the BSA. There are seven CNDDB occurrences within 10 miles of the BSA, the nearest approximately 1.7 miles east of the BSA along the Cosumnes River. ***No effect.***
Vernal pool tadpole shrimp *Lepidurus packardi*	FE	--	Central Valley from Shasta County south to Merced County	Vernal pools, vernal lakes, and other seasonal wetlands.	November-April for active shrimp, April-November for cysts	Habitat Present	Assumed Present	Suitable habitat (seasonal wetlands and vernal pools) within the BSA, but not within the PIA. Suitable habitat will not be impacted by the Project. USFWS protocol presence/absence surveys have not been conducted for this species. There is one CNDDB occurrence within the BSA, and 73 additional occurrences within 10 miles. ***No effect.***

TABLE 3.4-3 (CONTINUED)
SPECIAL-STATUS WILDLIFE SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY AREA

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Amphibians								
California tiger salamander *Ambystoma californiense*	FT	ST	Central Valley, including Sierra Nevada foothills up to 1,500 feet. The Cosumnes River marks the northern boundary of the species' range, with the exception of an isolated in the Dunnigan Hills in northern Yolo County.	Annual grasslands and valley-foothill woodlands; breeds in seasonal wetlands such as vernal pools and swales. Burrows in underground refugia such as small mammal burrows.	January-May (aquatic)	Habitat Present	Absent	Suitable habitat (seasonal wetlands, vernal pools, annual grassland) is present within the BSA. The BSA is outside known species range; the Project area is north of the Cosumnes River. There are two CNDDB occurrences within 10 miles of the BSA, the nearest approximately 9.3 miles south of the BSA. ***No effect.***
California red-legged frog *Rana draytonii*	FT	ST	Along the coast and coastal mountain ranges of California from Marin County to San Diego County and in the Sierra Nevada from Tehama County to Fresno County.	Permanent and semi-permanent aquatic habitats, such as creeks and ponds with emergent and submergent vegetation; may aestivate in upland burrow during dry periods.	Year-round	Habitat Absent	Absent	No suitable habitat within the BSA. The BSA is not within the known range for the species. There are no CNDDB occurrences within 10 miles of the BSA. ***No effect.***
Western spadefoot *Spea hammondii*	--	SSC	Sierra Nevada foothills, Central Valley, Coast Ranges, coastal counties in southern California.	Shallow streams with riffles and seasonal wetlands, such as vernal pools in annual grasslands and oak woodlands.	January-July (aquatic)	Habitat Present	Potentially Present	Suitable aquatic habitat (seasonal wetlands, vernal pools) is present within the BSA, but not within the PIA. Suitable upland habitat (annual grassland) is present within the BSA and PIA. There are five CNDDB occurrences within 10 miles of the BSA, the nearest approximately 8.5 miles northeast of the BSA.
Reptiles								
Western pond turtle *Emys marmorata*	--	SSC	Populations extend throughout the coast and Central Valley of California.	Ponds, marshes, rivers, streams and irrigation ditches with aquatic vegetation below 6,000 feet in elevation.	Year-round	Habitat Present	Potentially Present	Suitable aquatic habitat is present in Laguna Creek in the BSA. No suitable habitat within the PIA. There are eight CNDDB occurrences within 10 miles of the BSA, the nearest approximately 0.9 miles west of the BSA.

TABLE 3.4-3 (CONTINUED)
SPECIAL-STATUS WILDLIFE SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY AREA

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Reptiles (cont.)								
Giant garter snake *Thamnophis gigas*	FT	ST	Central Valley from Fresno County north to the Gridley/Sutter Buttes area; has been extirpated from areas south of Fresno.	Sloughs, canals, and other small waterways where there is a prey base of small fish and amphibians; requires grassy banks and emergent vegetation for basking and areas of high ground protected from flooding during winter. Utilizes upland habitats within 200 feet from aquatic habitats.	April-October	Habitat Present	Potentially Present	Suitable aquatic habitat is present in Laguna Creek in the BSA but not within the PIA. There is no suitable upland habitat in the BSA for this species within 200 feet of suitable aquatic habitat. Suitable habitat will not be impacted by the Project. There are 15 CNDDB occurrences within 10 miles of the BSA, including one within the BSA. ***No effect.***
Birds								
Tricolored blackbird *Agelaius tricolor*	--	SCT, SSC	Largely endemic to California; permanent residents in the Central Valley from Butte County to Kern County; at scattered coastal locations from Marin County south to San Diego County; breeds at scattered locations in Lake, Sonoma, and Solano counties; rare nester in Siskiyou, Modoc, and Lassen counties. Sacramento-San Joaquin Valleys and low foothills of coast ranges and Sierra Nevada.	Nests in dense colonies in emergent marsh vegetation, such as tules and cattails, or upland sites with blackberries, nettles, thistles, and grain fields; nesting habitat must be large enough to support 50 pairs; probably requires water at or near the nesting colony; requires large foraging areas, including marshes, pastures, agricultural wetlands, dairies, and feedlots, where insect prey is abundant.	March-August	Habitat Present (foraging)	Potentially Present (foraging)	Potential foraging habitat within the BSA near Laguna Creek, but no nesting habitat. There are 73 CNDDB occurrences within 10 miles of the BSA, the nearest approximately 0.5 miles north of the BSA
Golden eagle *Aquila chrysaetos*	BGPA	FP	Foothills and mountains throughout California; uncommon nonbreeding visitor to lowlands such as the Central Valley.	Cliffs and escarpments or tall trees for nesting; annual grasslands, chaparral, and oak woodlands with plentiful medium and large-sized mammals for prey.	Year-round	Habitat Absent	Absent	No nesting habitat within the BSA. There is a single CNDDB occurrence approximately 7.1 miles north of the BSA.

TABLE 3.4-3 (CONTINUED)
SPECIAL-STATUS WILDLIFE SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY AREA

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Birds (cont.)								
Burrowing owl *Athene cunicularia*	--	SSC	Lowlands throughout California, including the Central Valley, northeastern plateau, southeastern deserts, and coastal areas; rare along south coast. Central and southern coastal habitats, and Central Valley.	Open annual grasslands or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Dependent upon burrowing mammals (especially California ground squirrel [*Otospermophilus beecheyi*]) for burrows.	Year-round	Habitat Present	Potentially Present	The annual grassland habitat within the PIA and surrounding BSA provides suitable nesting and foraging habitat for this species. There are 30 CNDDB occurrences within 10 miles of the BSA, the nearest approximately 1.6 miles northwest of the BSA.
Swainson's hawk *Buteo swainsoni*	--	ST	Lower Sacramento and San Joaquin Valleys, the Klamath Basin, and Butte Valley; the state's highest nesting densities occur near Davis and Woodland, Yolo County.	Nests in oaks or cottonwoods in or near riparian habitats; forages in grasslands, irrigated pastures, and grain fields.	March-September	Habitat Present	Potentially Present	Potential nesting and foraging habitat present within the BSA. There is one CNDDB occurrence within the BSA, and 174 additional occurrences within 10 miles.
Western yellow-billed cuckoo *Coccyzus americanus occidentalis*	FT	SE	More common locations include Sacramento River from Red Bluff to Colusa and the South Fork Kern River from Isabella Reservoir to Canebrake Ecological Reserve.	This species is a riparian obligate, nesting in low to moderate elevation riparian woodlands with native broadleaf trees and shrubs that are 20 hectares (50 acres) or more in extent.	May - September	Habitat Absent	Absent	No habitat within the BSA. There is a single CNDDB occurrence approximately 8.7 miles west of the BSA along the Sacramento River. ***No effect.***
White-tailed kite *Elanus leucurus*	--	FP	Lowland areas west of Sierra Nevada from head of Sacramento Valley south, including coastal valleys and foothills to western San Diego County at the Mexico border. Central Valley and low foothills of Sierra Nevada.	Agricultural lands and open stages of most herbaceous habitats. Nests in dense oak, willow, or other tree stands.	Year-round	Habitat Present	Potentially Present	Potential nesting and foraging habitat present within the BSA. There are six CNDDB occurrences within 10 miles of the BSA, the nearest approximately 3.0 miles south of the BSA.
California black rail *Laterallus jamaicensis coturniculus*	--	ST,FP	Known to occur in Alameda, Butte, Contra Costa, Imperial, Marin, Napa, Nevada, Placer, Riverside, Sacramento, San Bernardino, San Joaquin, San Luis Obispo, San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma, Sutter, and Yuba counties.	Saltwater, brackish, and freshwater marshes.	Year-round	Habitat Absent	Absent	No nesting or foraging habitat within the BSA. There is a single CNDDB occurrence approximately 6.9 miles west of the BSA.

TABLE 3.4-3 (CONTINUED)
SPECIAL-STATUS WILDLIFE SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY AREA

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Birds (cont.)								
Song sparrow ("Modesto" population) *Melospiza melodia*	--	SSC		Emergent freshwater marshes dominated by tule (*Scirpus* spp., *Schoenoplectus* spp.) and cattail (*Typha* spp.) as well as riparian willow (*Salix* spp.) thickets. Also nest in riparian forests of valley oak (*Quercus lobata*) with a sufficient understory of blackberry (*Rubus* spp.), along vegetated irrigation canals and levees, and in recently planted valley oak restoration sites		Habitat Absent	Absent	No nesting or foraging habitat within the BSA. There are 14 CNDDB occurrences within 10 miles of the BSA, the nearest approximately 7.2 miles west of the BSA.
Purple martin *Progne subis*	--	SSC	Nests in Sacramento County; uncommon or absent elsewhere in the Central Valley; breeds in coastal areas from Del Norte County south to Santa Barbara County; rare in southern California.	Abandoned woodpecker holes in valley oak and cottonwood (*Populus* spp.) forests for nesting; also nests in vertical drainage holes under elevated freeways and highway bridges; open areas required for feeding.	Year-round	Habitat Absent	Absent	No nesting habitat is present in the BSA. There is a single CNDDB occurrence approximately 9.5 miles northwest of the BSA.
Bank swallow *Riparia riparia*	--	ST	The state's largest remaining breeding populations are along the Sacramento River from Tehama County to Sacramento County and along the Feather and lower American Rivers, in the Owens Valley; nesting areas also include the plains east of the Cascade Range south through Lassen County, northern Siskiyou County, and small populations near the coast from San Francisco County to Monterey County.	Nests in bluffs or banks, usually adjacent to water, where the soil consists of sand or sandy loam to allow digging.	Year-round	Habitat Absent	Absent	Not within the species breeding range, and no nesting habitat present within the BSA. There are no CNDDB occurrences within 10 miles of the CNDDB.

TABLE 3.4-3 (CONTINUED)
SPECIAL-STATUS WILDLIFE SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY AREA

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Birds (cont.)								
Yellow-headed blackbird *Xanthocephalus*	--	SSC	Throughout the Central Valley, and along the eastern side of the Sierra Nevada Mountains. Yearlong distribution follows a limited area along the Sacramento River, though summer range is larger, and incorporates much of the Central Valley.	Freshwater wetlands with dense, emergent vegetation like cattails. Often forage in fields, and winter in large open agricultural areas.	Year-round	Habitat Absent	Absent	No nesting habitat is present in the BSA. There is a single CNDDB occurrence approximately 8.4 miles west of the BSA.
Mammals								
American badger *Taxidea taxus*	--	SSC	Central Valley and surrounding foothills.	American badgers utilize a variety of open habitats with friable soils and plentiful fossorial mammals. They are generally not tolerant of large scale habitat modification such as intensive agriculture or other human activities.	Year-round	Habitat Absent	Absent	There is no suitable habitat for this species in the PIA or BSA. The urban nature of the BSA precludes this species. There are three CNDDB occurrences within 10 miles of the BSA, the nearest approximately 8.4 miles west of the BSA.
Fish								
Delta Smelt *Hypomesus transpacificus*	FT	SE	Sacramento-San Joaquin Delta and the lower reaches of the two rivers.	Estuarine or brackish waters to 14 parts per thousand (ppt); spawn in shallow brackish water upstream of the mixing zone (zone of saltwater-freshwater interface) where salinity is around 2 ppt.	Year-round	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA. ***No effect.***
Central Valley Steelhead *Oncorhynchus mykiss*	FT	--	Sacramento and San Joaquin Rivers and tributaries, Sacramento-San Joaquin Delta, San Francisco Bay.	Cool water with moderate size gravel for spawning and cover for rearing.	Year-round	Habitat Absent	Absent	No suitable spawning or rearing habitat within the BSA. There are two CNDDB occurrences within 10 miles of the BSA associated with the Sacramento and Cosumnes Rivers. ***No effect.***

TABLE 3.4-3 (CONTINUED)
SPECIAL-STATUS WILDLIFE SPECIES WITH THE POTENTIAL TO OCCUR IN THE BIOLOGICAL STUDY AREA

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Fish (cont.)								
Central Valley Spring-run Chinook Salmon *Oncorhynchus tshawytscha*	FT	ST	Sacramento and San Joaquin Rivers and tributaries, Sacramento-San Joaquin Delta, San Francisco Bay.	Cool water with moderate size gravel for spawning and cover for rearing.	Year-round	Habitat Absent	Absent	No suitable spawning or rearing habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA. ***No effect.***
Sacramento River Winter-run Chinook Salmon *Oncorhynchus tshawytscha*	FE	SE	Sacramento and San Joaquin Rivers and tributaries, Sacramento-San Joaquin Delta, San Francisco Bay.	Cool water with moderate size gravel for spawning and cover for rearing.	Year-round	Habitat Absent	Absent	No suitable spawning or rearing habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA. ***No effect.***
Central Valley Fall/ Late Fall-run Chinook Salmon *Oncorhynchus tshawytscha*	--	SSC	Sacramento and San Joaquin Rivers and tributaries, Sacramento-San Joaquin Delta, San Francisco Bay.	Cool water with moderate size gravel for spawning and cover for rearing.	Year-round	Habitat Absent	Absent	No suitable spawning or rearing habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA. ***No effect.***
Longfin Smelt *Spirinchus thaleichthys*	FCT	ST, SSC	Scattered populations of longfin smelt occur along the Pacific coast from Alaska to the San Francisco Estuary. Sacramento-San Joaquin Delta and the lower reaches of the two rivers.	Longfin smelt larvae and small juveniles are rarely found in water warmer than 71.6ºF (22ºC). Competent-swimming young juveniles disperse toward more-saline and deeper-water habitats. Mature longfin smelt require cool-to-cold [less than 60.8ºF (16ºC)] freshwater habitats for spawning.	Year-round	Habitat Absent	Absent	No suitable habitat within the BSA. There is a single CNDDB occurrence within 10 miles of the BSA associated with the Sacramento River. ***No effect.***

Status explanations:

-- = no listing.

Federal
FC = federal candidate for listing under the federal Endangered Species Act.
FE = listed as endangered under the federal Endangered Species Act.
FT = listed as threatened under the federal Endangered Species Act.
BGPA = bald and golden eagle protection act

State
SCT = state candidate for listing as threatened under the California Endangered Species Act.
SE = listed as endangered under the California Endangered Species Act.
SSC = state species of special concern
ST = listed as threatened under the California Endangered Species Act.

[2] Rationale includes an effects determination for those species that are listed under the federal Endangered Species Act (FESA) for purposes of federal compliance per the requirements of Caltrans. An effects determination is not included for those species that are not federally listed (i.e., those species that are listed only under CESA), since those requirements do not apply to species that are not also listed under the FESA.

Waters of the U.S. and Riparian Habitat

During the field study, observations regarding vegetation, soils, and hydrology were recorded. Based on the results of the May 2018 and January 2019 aquatic resources delineation (see Appendix E), the BSA includes four aquatic habitats (vernal pools, vernal swales, seasonal wetlands, and perennial and intermittent channels) that are potentially regulated as waters of the U.S. (see **Table 3.4-4**, below). Figures 3.4-1b through 3.4-1d show the locations of water features within the BSA and PIA. While these features are present within the larger BSA, the PIA does not support any aquatic habitats considered waters of the U.S.

TABLE 3.4-4
HABITATS AND NATURAL COMMUNITIES OF SPECIAL CONCERN WITHIN THE PROJECT AREA

Community Type	BSA (acre)	PIA (acre)
Riparian	0.460	0.000
Waters of the U.S.		
Seasonal Wetland	0.223	0.000
Vernal Pool	0.454	0.000
Vernal Swale	0.119	0.000
Perennial Channel	0.458	0.000
Intermittent Channel	0.343	0.000

In addition to waters of the U.S., the BSA supports riparian habitat along both banks of Laguna Creek east of Waterman Road in the northernmost portion of the Waterman Road Project segments (Segment 1). The riparian habitat in the BSA is associated with Laguna Creek, but is not considered a water of the U.S. due to a lack of wetland indicators. The PIA does not support any riparian habitat.

The vernal pools, vernal swales, seasonal wetlands, and perennial and intermittent channel habitats within the BSA are considered potentially jurisdictional waters of the U.S., and would be regulated under the Clean Water Act. Similarly, the riparian habitat in the BSA is considered under the jurisdiction of CDFW and would be regulated under California Fish and Game Codes Sections 1600-1612. However, none of these habitats are present within the PIA.

Tree Resources

During surveys conducted on May 3 and 8, 2018, and January 16, 2019, ESA biologists identified numerous trees within the City right-of-way within the BSA and PIA that could qualify for protection by the City's tree protection ordinance. A tree inventory was not conducted. Valley oak (*Quercus lobata*) and interior live oak (*Quercus wislizeni*) were observed within the BSA. These two species are trees of local importance, and are protected by the City in Municipal Code Section 19.12.040.

Discussion of Impacts

a) Would the project 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?

Special-status Plants

Less than Significant Impact. After completion of the field surveys and review of existing information on special status plant species in the Project vicinity, it was determined that seven special-status plant species have the potential to occur within the BSA, including dwarf downingia (*Downingia pusilla*), Bogg's Lake hedge hyssop (*Gratiola heterosepala*), Northern California black walnut (*Juglans hindsii*), Ahart's dwarf rush (*Juncus leiospermus* var. *ahartii*), legenere (*Legenere limosa*), Heckard's pepper-grass (*Lepidium latipes* var. *heckardii*), and saline clover (*Trifolium hydrophilum*). While potentially suitable habitats for these species were documented within the BSA, no such habitat was recorded within the PIA. Therefore, no impacts would occur to special-status plant species through implementation of the Project, and the impact to special-status plants would be less than significant.

Special-status Wildlife

Less than Significant Impact with Mitigation Incorporated. After completion of the field surveys and review of existing information on special-status wildlife in the Project vicinity, it was determined that nine special-status wildlife species have the potential to occur within the BSA. Western pond turtle (*Emys marmorata*) has potential habitat within the BSA, but not within the PIA, so there would be no impact to this species. Tricolored blackbird (*Aegelaius tricolor*) has potential foraging habitat within the BSA, but not within the PIA. There is no nesting habitat within either the BSA or the PIA. Since neither foraging or nesting habitat is present within the PIA, no impact to the species would occur. Seven species, including vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), western spadefoot (*Spea hammondii*), giant garter snake (*Thamnophis gigas*), burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), and white-tailed kite (*Elanus leucurus*) have the potential to occur within the BSA and be impacted by the Project. Each of these species is discussed below, with applicable impact findings for each.

Vernal Pool Ferry Shrimp and Vernal Pool Tadpole Shrimp

Based on preliminary Project design, the Project would not result in *direct* impacts to vernal pool fairy large branchiopod habitat. Vernal pool large branchiopod impacts are considered "direct impacts" if the Project would result in the direct placement of fill into any portion of suitable habitat. Since there are no vernal pools within the PIA, there would be no fill of any vernal pool large branchiopod habitat as a direct result of Project construction. As such, there would be no direct effects to vernal pools or vernal pool fairy large branchiopods.

In general, *indirect* effects can include fragmentation of habitat, altered hydrology, introduction of invasive weeds through soil disturbance, and increased disturbance from noise and artificial light. Indirect effects would occur if these types of disturbances would occur to the vernal pool features located in the BSA where vernal pool fairy large branchiopods could

reside. Indirect effects for vernal pool large branchiopods potentially occurring in the BSA were assessed for the Project on an individual aquatic feature basis using a micro-watershed analysis approach for all potential vernal pool large branchiopod habitats within 250 feet of the Project area, per USFWS guidelines (USFWS, 1996). For each aquatic feature, topography data (two-foot contours) were examined between the edge of the PIA and the edge of the feature.

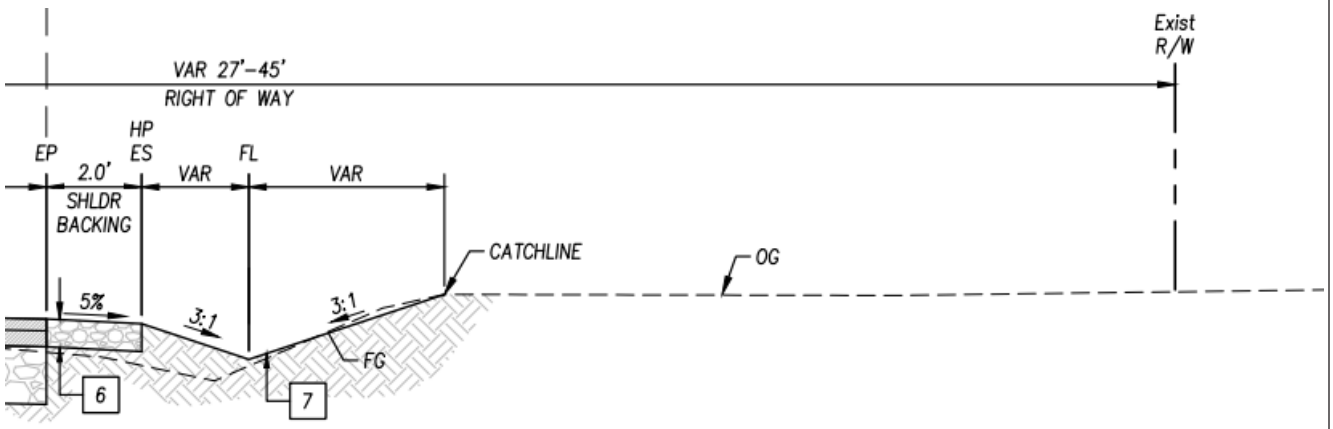
For this Project, indirect impacts to vernal pools within the BSA would generally be fully avoided through Project design, whereby any potentially suitable vernal pool features in the BSA would be effectively isolated from any disturbance within the PIA that could adversely affect them. **Figure 3.4-3** shows typical roadway cross sections for the Project. As can be seen, existing roadside ditches and detention basins would provide an effective hydrologic barrier between the roadway and adjoining areas on either side of the roadway. Any new ditches that would be constructed as part of the Project would mimic the existing hydrology present within the Project area by continuing to isolate isolated vernal pool features within the BSA from the roadways by conveying stormwater flows from the roadways into the existing drainage system adjacent to roadways. In this way, these features outside of the PIA would be unaffected by grading and increases in the amount of impervious surfaces (roadway widening) associated with the Project, since the proposed excavated roadside ditches would function like the existing roadside ditches by continuing to isolate water features in the BSA from stormwater flows from the road.

Using the micro-watershed analysis approach described previously, it was determined that in addition to being hydrologically-isolated from Project construction due to the existing/ proposed roadside ditches (again, see Figure 3.4-3), aquatic features with the following characteristics would not have the potential to be indirectly affected by the Project:

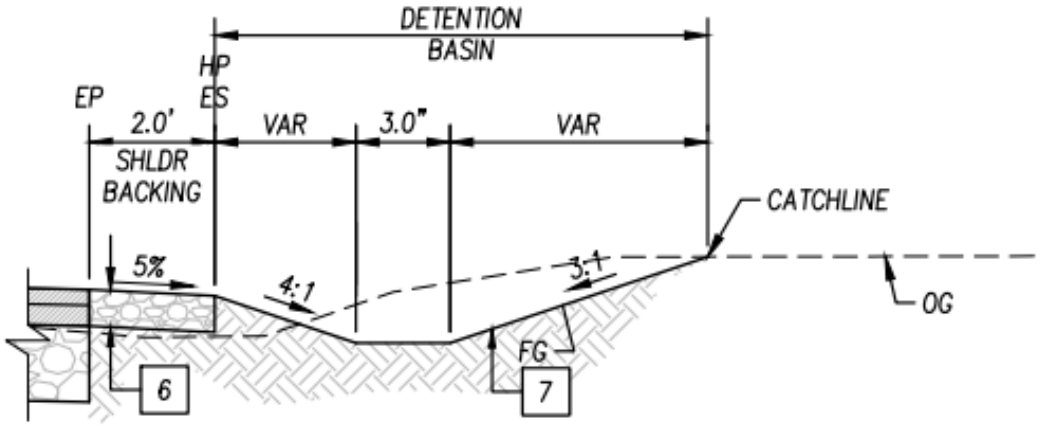
- Features located at a higher elevation than the PIA;
- Features located more than 250 feet from the PIA;
- Features located at the same elevation as the PIA but separated by slope breaks (i.e., changes in elevation greater than 1 foot, including small rises or depressions that would result in isolating a feature from surface water flows); and
- Features located downhill from the PIA but separated by swales or drainages that would intercept surface water flows from the Project area before they could reach the feature.
- Features located east of Segment 2 where roadway surface treatment only is proposed and existing ditches would remain in place.

Conversely, it was determined that if the roadside ditches were not present, features with the following characteristics could potentially be affected by the Project:

- Features at the same elevation as the PIA with no slope breaks (rises or depressions [excluding vernal pools and seasonal wetlands] greater than 1 foot); or



STA "W1"134+95 to "W1"145+60
STA "W1"124+10 to "W1"125+90
SEGMENT 1



STA "W1"127+80 to "W1"134+95
SEGMENT 1

NOTES: Dashed line/ OG – Original Ground
Solid Line / FG – Finished Grade

D170242.00 - Waterman_Arterial Roads Rehabilitation\05 Graphics-GIS-Modeling

SOURCE: Bennett Engineering Services, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3.4-3
Typical Project Roadway Cross Sections

- Features located at a lower elevation from the PIA with no swales or drainages (including existing and proposed roadside ditches) that would act as a barrier to surface flows by intercepting surface water flows from the PIA.

None of the above situations occur with respect to the vernal pool features within the BSA. As such, it was determined that the Project would not result in indirect impacts to suitable vernal pool large branchiopod habitat, and there would therefore be no indirect impacts to the species.

To provide additional assurance against indirect impacts to these species during Project construction, **Mitigation Measure BIO-1** is required. Other avoidance and minimization measures required for protection of wetlands and riparian areas (**Mitigation Measures BIO-6 through BIO-11**) would also have beneficial effects to avoiding impacts to the species. Based on these considerations, and implementation of the required measures, the Project would have no effect on vernal pool fairy shrimp and vernal pool tadpole shrimp. Therefore, Project impacts to this species would be less than significant.

Western Spadefoot

Suitable breeding habitat for western spadefoot occurs in vernal pools and seasonal wetlands in and adjacent to the BSA and the annual grassland habitat provides upland habitat. Several records for this species occur approximately 8 to 10 miles northeast of the BSA in the vicinity of Mather Regional Park where this species was observed in 1997 and 2007. An additional occurrence was recorded 10 miles east of the BSA where this species was observed in a stock pond on a private ranch in 2004. These populations of western spadefoot are presumed extant. Western spadefoots were not observed during the May 2018 and January 2019 surveys. However, habitat for western spadefoot (vernal pools, seasonal wetlands, and annual grasslands) is present within the BSA, and annual grassland would be permanently affected by grading related to the road widening, extension of road shoulders, and excavation of roadside ditches. The proposed Project would result in permanent impacts to potential hibernacula (i.e., upland) habitat for western spadefoot. Approximately 2.34 acres of annual grassland habitat would be permanently impacted through implementation of the Project. No breeding habitat (seasonal wetland, vernal pools) would be directly impacted by the Project.

The proposed Project has the potential to directly impact western spadefoot by causing physical harm to individuals if they are present in the PIA during construction. Western spadefoot individuals could be harmed during construction fill and grading, which could crush burrowing individuals. Reductions in habitat quality could result from hydrological alterations related to grading or through construction of impervious surfaces, which could prevent adults from utilizing the affected habitats for breeding. Reduction in water quality could also occur from the creation of exposed areas of bare soil, although this would be avoided through the implementation of avoidance and minimization measures (see **Mitigation Measures BIO-6 through BIO-11**). In addition to these measures, **Mitigation Measure BIO-2** is also required, which would provide for pre-construction surveys of impacted areas prior to the commencement of ground-disturbing activities. Implementation of these measures would minimize the potential disturbance to western spadefoot and associated habitat. With the application of the avoidance and minimization efforts, the permanent loss of 2.34 acres of

upland habitat impacts during Project construction would not adversely affect spadefoot potentially aestivating and/or dispersing through the BSA, and the impact would be less than significant, with mitigation incorporated.

Giant Garter Snake

The BSA is located within the current range of giant garter snake as identified in the Recovery Plan for Giant Garter Snake (USFWS 2017). The BSA is also located within the Cosumnes-Mokelumne Basin Recovery Unit for giant garter snake as identified in the Recovery Plan. There are 15 CNDDB records for giant garter snake within 10 miles of the BSA, including one that overlaps the BSA. This occurrence was recorded in 2002 and is described as being along the east side of Waterman Road at the confluence of a wetland swale and roadside ditch. However, this area was examined during the biological surveys conducted in May 2018 and the described habitat was not observed in the area. The occurrence polygon is more than 1,250 feet from the nearest aquatic feature (Elk Grove Creek, an intermittent channel that is not suitable habitat for giant garter snake). It is assumed this occurrence was a migrating individual and does not represent a persistent population. There are two recorded occurrences from Laguna Creek, approximately 2.9 and 3.9 miles west and downstream of the BSA. Both of these occurrences were originally recorded in 1976. An additional occurrence was recorded from Laguna Creek in 2005 in the Bufferlands area approximately 6.5 miles west and downstream of the BSA.

Potential aquatic habitat for this species within the BSA includes Laguna Creek, Elk Grove Creek, and agricultural ditches. The agricultural ditches are not considered suitable aquatic habitat because the presence of water is highly variable, depending on agricultural demands, and they completely lack emergent vegetation. Elk Grove Creek is not considered suitable aquatic habitat because it lacks water in the summer months, is concrete lined, and does not have emergent vegetation. Based on these conditions, Laguna Creek is the only aquatic feature in the BSA that may support giant garter snake.

Laguna Creek may be used as foraging, breeding, and aquatic dispersal habitat for the species. Land uses surrounding the segment of Laguna Creek that flows through the BSA are primarily comprised of open space (consisting of annual grassland and riparian woodland) and developed areas (roads). Access to additional suitable foraging habitat such as adjacent wetlands or marshes is very limited in this reach of Laguna Creek; the majority of suitable habitat for the species is located several miles downstream of the BSA. The portion of grasslands along Laguna Creek within the BSA are densely vegetated with herbaceous grasses and lack small mammal burrows. Therefore, giant garter snake is not likely to forage within the BSA.

No giant garter snakes were observed in the BSA during surveys. No impacts would occur to suitable aquatic habitat (Laguna Creek) for giant garter snake from implementation of the Project. The portion of the proposed Project footprint within 200 feet of Laguna Creek includes a road shoulder and densely vegetated grasslands that lacks small mammal burrows, and does not provide suitable upland habitat for this species. Therefore, no impacts to giant

garter snake or their habitat would occur, and the Project's impact would be less than significant to this species.

Burrowing Owl

There are 30 reported occurrences of burrowing owl in the CNDDB within 10 miles of the BSA. The closest occurrence is approximately 1.6 miles northwest of the BSA where this species has been reported near the Laguna Boulevard and Highway 99 onramp in grassland habitat as recently as 2007.

Suitable annual grassland habitat is present within the PIA and surrounding BSA, however no burrowing owls or active nests were observed in the BSA during the biological surveys. Some soils within the BSA are sandy and friable and numerous burrows and burrow complexes were noted during the May 2018 and January 2019 surveys. While no soil mounds were visible during the field survey, surrounding fence posts would provide suitable perches above potential nests within the annual grassland habitat. The annual grassland habitat also provides suitable foraging habitat for this species.

Accordingly, the proposed Project could potentially impact individual burrowing owls if they occupied the BSA prior to construction. Indirect impacts to nesting birds during construction could extend up to 500 feet from the limits of construction. Potential impacts could include abandonment of nest sites and the mortality of young. To protect against this, **Mitigation Measure BIO-3** is required. The proposed Project could also result in a permanent loss of foraging opportunities for burrowing owl in and adjacent to the PIA during construction. The loss of nesting and/or foraging habitat in and adjacent to the PIA is not expected to significantly impact burrowing owl because these habitats are abundant in the vicinity.

With the implementation of the proposed avoidance and minimization efforts, the Project is not expected to impact burrowing owl nesting. Burrowing owl foraging habitat is abundant in the vicinity of the BSA, and adverse impacts are not anticipated for this species. The impact to this species would therefore be less than significant with mitigation incorporated.

Swainson's Hawk

No Swainson's hawks were observed within the BSA during the May 2018 and January 2019 field surveys. Potential Swainson's hawk nesting habitat is present within the riparian trees along Laguna Creek at the northern end of the BSA and additional nesting habitat is found along Laguna Creek within 0.25 mile of the BSA. This species could also utilize roadside trees throughout the BSA. The nearest Swainson's hawk nesting record is within the BSA along in the Waterman Road South site, where a nest was recorded in 2003 on the west side of Waterman Road at the Mosher Road intersection (CDFW 2019). The BSA supports grassland habitat and agricultural fields that provide suitable foraging areas for Swainson's hawk.

A total of 2.34 acres of annual grassland, which could be utilized by Swainson's hawk as foraging habitat, would be permanently impacted by the Project. However, this amount of habitat is relatively small in comparison to the amount of annual grasslands within the BSA

and the general region. For this reason, it is not expected to have a substantial effect on any Swainson's hawk that could potentially utilize annual grasslands in the BSA for foraging.

Noise associated with construction activities involving heavy equipment operation that occurs during the breeding season (generally between February 1 and August 31) could disturb nesting Swainson's hawk if an active nest is located near these activities. Within urban areas, CDFW considers 0.25 mile to be a sufficient buffer to avoid disturbance of nesting Swainson's hawks (CDFW 1994). Any disturbance that causes Swainson's hawk nest abandonment and subsequent loss of eggs or developing young at active nests located near the Project area would violate the CESA; CFGC Sections 2800, 3503, and 3503.5; and the MBTA.

The proposed Project could potentially impact individual Swainson's hawks if they began nesting within 0.25 miles of the BSA prior to construction. Potential impacts could include abandonment of nest sites and the mortality of young. In addition to known Swainson's hawk nest areas, potential nesting habitats and nesting sites are present within 0.25 mile of the BSA and could be used by Swainson's hawks. Because the BSA occurs within an urban area subject to ongoing noise disturbances and human presence, any Swainson's hawks nesting in this area would likely be habituated to these existing disturbances. Based on the existing level of disturbance/noise in the Project vicinity, and limited ground disturbance associated with the Project, the Project is not likely to result in adverse effects (nest abandonment and/or death of developing Swainson's hawk eggs or young) to nesting Swainson's hawk if appropriate avoidance measures are implemented. As such, **Mitigation Measure BIO-4** is required. Implementation of this measure would ensure that the Project does not result in take of Swainson's hawk. However, approximately 2.34 acres of potential Swainson's hawk foraging habitat would be permanently impacted during road widening. Compensatory mitigation, as required in **Mitigation Measure BIO-5**, would offset these impacts.

Based on each of these considerations, the Project's impact to this species would be less than significant, with mitigation incorporated.

Other Nesting Migratory Birds and Raptors

Other migratory birds and raptors could nest within and surrounding the BSA on the ground, within trees, or on the undersides of bridges. The breeding season for most birds and raptors within the Project region is generally from February 1 to August 31. The occupied nests and eggs of these birds are protected by federal and state laws, including MBTA and CFGC Sections 3503 and 3503.5.

The PIA and BSA have the potential to support nesting raptors and migratory birds on suitable nest trees or nesting sites. Migratory birds and raptors that could potentially nest within or adjacent to the BSA include white-tailed kite, American kestrel (*Falco sparverius*), California towhee (*Melozone crissalis*), red-tailed hawk (*Buteo jamaicensis*), northern harrier (*Circus cyaneus*), turkey vulture (*Cathartes aura*), American robin (*Turdus migratorius*), killdeer (*Charadrius vociferus*), mourning dove (*Zenaida macroura*), northern mockingbird (*Mimus polyglottos*), western meadowlark (*Sturnella neglecta*), and western scrub-jay (*Aphelocoma californica*).

Noise associated with construction activities involving heavy equipment operation that occurs during the breeding season (generally between February 1 and August 31) could disturb nesting migratory birds and raptors if an active nest is located near these activities. Any disturbance that causes migratory bird or raptor nest abandonment and subsequent loss of eggs or developing young at active nests located at or near the Project area would violate CFGC Sections 3503 or 3503.5 and the MBTA. However, preconstruction nesting bird surveys required in **Mitigation Measure BIO-4** would avoid impacts to nesting birds during Project construction. The Project's impacts would therefore be less than significant, with mitigation incorporated.

Mitigation Measures

MM BIO-1: Restrict Ground-disturbing Activities to the Dry Season (Between April 15 and October 15). All ground-disturbing activities associated with construction of the Project shall be restricted to the dry season (between approximately April 15 and October 15) to avoid the period when special-status species (vernal pool fairy shrimp, vernal pool tadpole shrimp, and western spadefoot) could be breeding. If construction would need to continue past October 15, the City shall contact Caltrans, the NEPA lead agency, to request an authorization from USFWS to extend the work period.

MM BIO-2: Conduct a Preconstruction Survey for Western Spadefoot. No more than 48 hours prior to construction, preconstruction surveys for western spadefoot shall be conducted within the PIA. If western spadefoots are observed within the PIA, work shall stop until the animal voluntarily leaves the area.

MM BIO-3: Measures to Protect Burrowing Owl. Prior to construction, pre-construction surveys shall be conducted by a qualified biologist to determine presence/absence of burrowing owls and/or occupied burrows in and within 500 feet of the PIA according to the CDFW's Staff Report on Burrowing Owls (CDFW 2012). A winter survey shall be conducted between December 1 and January 31 and a nesting survey shall be conducted between April 15 and July 15. Preconstruction surveys shall also be conducted within 30 days prior to construction to ensure that no additional burrowing owls have established territories since the initial surveys. If no burrowing owls are found during any of the surveys, no further mitigation will be necessary. If burrowing owls are found, then the following measures shall be implemented prior to the commencement of construction:

- During the non-breeding season (September 1 through January 31) burrowing owls occupying the BSA should be evicted from the BSA by passive relocation as described in the California Department of Fish and Wildlife's Staff Report on Burrowing Owls (March 2012).
- During the breeding season (February 1 through August 31) occupied burrows shall not be disturbed and shall be provided with a 250-foot protective buffer unless a qualified biologist approved by CDFW verifies through non-invasive means that either: 1) the birds have not begun egg laying, or 2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. Once the fledglings are capable of independent survival, the burrow can be destroyed.

- If a burrowing owl or active nest is discovered before or during construction the biologist shall notify a CDFW representative.
- A worker education and awareness program should be provided to all on-site personnel by a qualified biologist before the commencement of materials staging or ground disturbing activities. The biologist should explain to construction workers how best to avoid impacts to burrowing owl and should include topics on species identification, life history, descriptions, and habitat requirements during various life stages. Handouts, illustrations, photographs, and Project mapping showing areas where minimization and avoidance measures can be included as part of this education program. The program will increase the awareness of site workers about existing federal and state laws regarding endangered species as well as increase their compliance with conditions and requirements of resource agencies.

MM BIO-4: Conduct a Preconstruction Nesting Migratory Bird and Raptor Survey and Establish No-disturbance Buffers, if Necessary. If construction (including equipment staging and tree removal) will occur during the breeding season for migratory birds and raptors (generally between February 1 and August 31), the City shall retain a qualified biologist to conduct a preconstruction nesting bird and raptor survey before the onset of construction activities. The preconstruction nesting bird and raptor surveys shall be conducted between February 1 and August 31 within suitable habitat at the Project area. The minimum survey radii surrounding the work area shall be as follows, to the extent practicable where City right-of-way and access rights are available: 1) 250 feet for passerines; 2) 500 feet for small raptors such as accipiters; 3) 1,000 feet for larger raptors such as buteos; and 4) 0.25 mile for raptors in proximity to Segment 1 Project areas near Laguna Creek~~. Surveys for raptor nests should also extend 250 feet from the Project area~~ to ensure that nesting raptors are not indirectly affected by construction noise. The survey shall be conducted no more than 30 days before the initiation of construction activities. If no active nests are detected during the survey, no additional mitigation is required and construction can proceed.

If migratory birds or raptors are found to be nesting in or adjacent to the Project area, a 250-foot no-disturbance buffer shall be established around raptor nests and a 50-foot buffer around non-raptor nests to avoid disturbance of the nest area and to avoid take. The buffer shall be maintained around the nest area until the end of the breeding season or until a qualified biologist determines that, the young have fledged and are foraging on their own. The extent of these buffers shall be determined by the biologist (coordinating with the CDFW) and shall depend on the species identified, level of noise or construction disturbance, line of sight between the nest and the disturbance, ambient levels of noise and other disturbances, and other topographical or artificial barriers.

MM BIO-5: Preserve CDFW-approved Foraging Habitat for Swainson's Hawk at a 1:1 Ratio for Permanent Impacts. To compensate for permanent loss of Swainson's hawk foraging habitat, the Project shall follow the City's Swainson's Hawk Mitigation Fee program. Per the program, approved property must be acquired, or a mitigation fee paid to the City for use at the City's existing bank. Additionally, the City Council may prescribe other mitigation as found in Section 16.130.110.

MM BIO-6: Implement Erosion Control. An erosion control barrier shall be placed on the outer edge of the new roadside ditch alignment along Waterman Road from approximately 700 feet south of Bond Road to Rancho Drive. The barrier shall not be keyed into the ground (no trench shall be excavated for the barrier), and construction of the ditches shall be performed from the road to avoid ground disturbance beyond the new roadside ditch.

MM BIO-7: Conduct Environmental Awareness Training. Before any work occurs in the PIA, including grading and equipment staging, all construction personnel shall participate in an environmental awareness training regarding special-status species and sensitive habitats present in the BSA. If new construction personnel are added to the Project, they must receive the mandatory training before starting work. As part of the training, an environmental awareness handout shall be provided to all personnel that describe and illustrates sensitive resources to be avoided during Project construction. This would include avoiding waters of the U.S. outside the PIA.

MM BIO-8: Install Temporary Barrier Fencing, and/or Flagging to Protect Environmentally Sensitive Habitat Areas. Before any ground-disturbing activity occurs within the PIA, the City shall ensure that temporary orange barrier fencing is installed around the PIA adjacent to sensitive habitat areas to be avoided, as appropriate. Construction personnel and construction activities shall avoid areas outside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality.

The fencing material shall consist of temporary plastic mesh-type construction fence (Tensor Polygrid or equivalent) installed between the work area and environmentally sensitive habitat areas (i.e., waters of the U.S., special-status wildlife habitat, active bird nests), as appropriate, and shall meet Caltrans standards and specifications. To minimize potential ground disturbance, the base of the fencing shall not be buried or keyed-in.

Installation of the barrier fence shall occur under the supervision of a qualified biologist. The temporary orange barrier fencing shall also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP or Water Pollution Control Plan (WPCP). The fencing shall be shown on the final construction documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer shall be established, where no construction activities (i.e., vehicle traffic or equipment operation) shall occur outside the outer boundaries of the roadside ditches that will be excavated as part of the Project.

MM BIO-9: Conduct Weekly Monitoring Visits. A representative from the City shall make periodic monitoring visits to construction areas occurring in or adjacent to environmentally sensitive habitat areas. The construction contract shall specify that the construction contractor shall maintain the fencing/flagging protecting sensitive biological resources. Additionally, the City shall utilize a qualified biologist on-call to assist the City and the construction crew in complying with all Project implementation restrictions and guidelines as needed.

MM BIO-10: Implement Best Management Practices to Protect Water Quality. The City shall require that the construction contractor implement the following BMPs to protect water quality of waters of the U.S. adjacent to the PIA.

- Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally between April 15 and October 15) when all jurisdictional features (with the exception of Laguna Creek) adjacent to the PIA are anticipated to be dry.
- Install fiber rolls, or other equivalent erosion and sediment control measures between the PIA and waters of the U.S., as necessary, to ensure that construction debris and sediment does not inadvertently enter these features. All areas of exposed soil shall be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition, in order to minimize ground disturbance, fiber rolls or other equivalent control measures shall not be keyed-in or buried.
- Immediately after Project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix and planting native plants.
- Fiber rolls, or other equivalent erosion and sediment control measures shall not be removed from the PIA until vegetation has reestablished within all temporarily-impacted areas to at least 70 percent of pre-project vegetation cover conditions or better.
- No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of waters of the U.S.
- All machinery used during construction of the Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water.
- Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations.
- Implement construction vehicle track-out controls. Restrict vehicle use to properly designated exit points and wherever construction vehicle entry/exit points intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road prior to the use of these access points.
- Before any ground-disturbing activities, the City or its designee shall prepare and implement a SWPPP (as required under the SWRCB's General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]) or a WPCP, as applicable, that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after Project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP shall be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat.

- The SWPPP shall be prepared with the following objectives: (a) to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the Project; (b) to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction; (c) to outline and provide guidance for BMP monitoring; (d) to identify Project discharge points and receiving waters; (e) to address post-construction BMP implementation and monitoring; and (f) to address sedimentation, siltation, and turbidity.

MM BIO-11: No Off-road Vehicle or Equipment Activity Outside of Construction Footprint. To reduce the likelihood of soil and vegetation disturbance outside of the PIA, which could impact water quality and hydrology for adjacent waters of the U.S. and special-status species habitats, no vehicle traffic or heavy equipment activity shall occur outside of the PIA/construction buffer, defined as the maximum area of permanent ground disturbance (i.e., area of roadway construction and the new ditches areas of excavation).

b) Would the project 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 U.S. Fish and Wildlife Service?

Less than Significant with Mitigation Incorporated. As discussed previously, there is 0.460 acre of riparian habitat within the BSA, but none within the PIA. As such, there would be no permanent or temporary direct impacts to riparian habitat within the PIA area. The Project would not involve any modification or alteration of Laguna Creek or Elk Grove Creek, as all Project construction work would occur outside the jurisdictional boundaries of those features. Proposed Project improvements at the crossings of Laguna Creek and Elk Grove Creek would be limited to resurfacing of the existing street surface and no work would occur outside the surface of existing bridges

Indirect impacts to riparian habitat and isolated vernal pool features would be avoided through Project design features and implementation of BMPs and avoidance mitigations. As discussed previously, existing roadside ditches and detention basins would provide an effective hydrologic barrier between the roadway and adjoining areas on either side of the roadway. Any new ditches that would be constructed as part of the Project would mimic the existing hydrology present within the Project area by continuing to isolate isolated vernal pool features within the BSA from the roadways by conveying stormwater flows from the roadways into the existing drainage system adjacent to roadways. In this way, these features outside of the PIA would be unaffected by grading and increases in the amount of impervious surfaces (roadway widening) associated with the Project, since the proposed excavated roadside ditches would function like the existing roadside ditches by continuing to isolate water features in the BSA from stormwater flows from the road. Further, **Mitigation Measures BIO-1 and BIO-6 through BIO-11**, also discussed previously, would serve the dual function of preventing impacts to special status species (vernal pool large branchiopods and western spadefoot), as well as the vernal pool features themselves.

Accordingly, there would be no direct or indirect impacts to riparian habitat or other sensitive natural communities, and the impact would be less than significant, with mitigation incorporated.

Mitigation Measures

MM BIO-1: Restrict Ground-disturbing Activities to the Dry Season (Between April 15 and October 15). All ground-disturbing activities associated with construction of the Project shall be restricted to the dry season (between approximately April 15 and October 15) to avoid the period when special-status species (vernal pool fairy shrimp, vernal pool tadpole shrimp, and western spadefoot) could be breeding. If construction would need to continue past October 15, the City or its designated representative shall request an authorization from USFWS to extend the work period.

MM BIO-6: Implement Erosion Control. An erosion control barrier shall be placed on the outer edge of the new roadside ditch alignment along Waterman Road from approximately 700 feet south of Bond Road to Rancho Drive. The barrier shall not be keyed into the ground (no trench shall be excavated for the barrier), and construction of the ditches shall be performed from the road to avoid ground disturbance beyond the new roadside ditch.

MM BIO-7: Conduct Environmental Awareness Training. Before any work occurs in the PIA, including grading and equipment staging, all construction personnel shall participate in an environmental awareness training regarding special-status species and sensitive habitats present in the BSA. If new construction personnel are added to the Project, they must receive the mandatory training before starting work. As part of the training, an environmental awareness handout shall be provided to all personnel that describe and illustrates sensitive resources to be avoided during Project construction. This would include avoiding waters of the U.S. outside the PIA.

MM BIO-8: Install Temporary Barrier Fencing, and/or Flagging to Protect Environmentally Sensitive Habitat Areas. Before any ground-disturbing activity occurs within the PIA, the City shall ensure that temporary orange barrier fencing is installed around the PIA adjacent to sensitive habitat areas to be avoided, as appropriate. Construction personnel and construction activities shall avoid areas outside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality.

The fencing material shall consist of temporary plastic mesh-type construction fence (Tensor Polygrid or equivalent) installed between the work area and environmentally sensitive habitat areas (i.e., waters of the U.S., special-status wildlife habitat, active bird nests), as appropriate, and shall meet Caltrans standards and specifications. To minimize potential ground disturbance, the base of the fencing shall not be buried or keyed-in.

Installation of the barrier fence shall occur under the supervision of a qualified biologist. The temporary orange barrier fencing shall also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP or Water Pollution Control Plan (WPCP). The fencing shall be shown on the final construction

documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer shall be established, where no construction activities (i.e., vehicle traffic or equipment operation) shall occur outside the outer boundaries of the roadside ditches that will be excavated as part of the Project.

MM BIO-9: Conduct Weekly Monitoring Visits. A representative from the City shall make periodic monitoring visits to construction areas occurring in or adjacent to environmentally sensitive habitat areas. The construction contract shall specify that the construction contractor shall maintain the fencing/flagging protecting sensitive biological resources. Additionally, the City shall utilize a qualified biologist on-call to assist the City and the construction crew in complying with all Project implementation restrictions and guidelines as needed.

MM BIO-10: Implement Best Management Practices to Protect Water Quality. The City shall require that the construction contractor implement the following BMPs to protect water quality of waters of the U.S. adjacent to the PIA.

- Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally between April 15 and October 15) when all jurisdictional features (with the exception of Laguna Creek) adjacent to the PIA are anticipated to be dry.
- Install fiber rolls, or other equivalent erosion and sediment control measures between the PIA and waters of the U.S., as necessary, to ensure that construction debris and sediment does not inadvertently enter these features. All areas of exposed soil shall be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition, in order to minimize ground disturbance, fiber rolls or other equivalent control measures shall not be keyed-in or buried.
- Immediately after Project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix and planting native plants.
- Fiber rolls, or other equivalent erosion and sediment control measures shall not be removed from the PIA until vegetation has reestablished within all temporarily-impacted areas to at least 70 percent of pre-project vegetation cover conditions or better.
- No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of waters of the U.S.
- All machinery used during construction of the Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water.
- Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations.

- Implement construction vehicle track-out controls. Restrict vehicle use to properly designated exit points and wherever construction vehicle entry/exit points intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road prior to the use of these access points.
- Before any ground-disturbing activities, the City or its designee shall prepare and implement a SWPPP (as required under the SWRCB's General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]) or a WPCP, as applicable, that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after Project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP shall be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat.
- The SWPPP shall be prepared with the following objectives: (a) to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the Project; (b) to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction; (c) to outline and provide guidance for BMP monitoring; (d) to identify Project discharge points and receiving waters; (e) to address post-construction BMP implementation and monitoring; and (f) to address sedimentation, siltation, and turbidity.

MM BIO-11: No Off-road Vehicle or Equipment Activity Outside of Construction Footprint. To reduce the likelihood of soil and vegetation disturbance outside of the PIA, which could impact water quality and hydrology for adjacent waters of the U.S. and special-status species habitats, no vehicle traffic or heavy equipment activity shall occur outside of the PIA/construction buffer, defined as the maximum area of permanent ground disturbance (i.e., area of roadway construction and the new ditches areas of excavation).

c) Would the project 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?

Less than Significant with Mitigation Incorporated. As discussed earlier, there are no vernal pools, vernal swales, seasonal wetlands, or perennial channel habitats within the PIA. Accordingly, there would be no permanent or temporary direct impacts to federally protected wetlands within the PIA area. The Project would not involve any modification or alteration of Laguna Creek or Elk Grove Creek, as all Project construction work would occur outside the jurisdictional boundaries of those features. Proposed Project improvements at the crossings of Laguna Creek and Elk Grove Creek would be limited to resurfacing of the existing street surface and no work would occur outside the surface of existing bridges.

The hydrology of the vernal pools, vernal swales, and seasonal wetlands within the BSA would be neither directly nor indirectly impacted by the Project. Drainage improvements would be limited to adjusting or relocating existing drainage systems components to conform

to the proposed improvements, and existing drainage culverts at driveways would be replaced. Significant changes to the drainage system would not occur as a result of the Project. Construction-related best management practices (BMPs) would be implemented. Any new ditches constructed as part of the Project would mimic the existing hydrology present within the Project area by continuing to isolate vernal pools, vernal swales and seasonal wetlands within the BSA from the roadways by conveying stormwater flows from the roadways into the existing drainage system adjacent to the roadways. In this way, vernal pools, vernal swales, and seasonal wetlands surrounding the Project area would be unaffected by grading and increases in the amount of impervious surfaces (roadway widening) associated with the Project, because the proposed excavated roadside ditches would function like the existing roadside ditches by continuing to isolate federally protected wetlands in the BSA from stormwater flows from the road.

In addition to the Project's design, which would recreate the existing hydrology within the BSA, indirect impacts to federally protected wetlands would be further avoided by placing a construction buffer between the edge of the BSA and the outer edge of the excavated ditches (limit of permanent ground disturbance). To accomplish this, all equipment and vehicles would be operated within the outer boundaries of the new ditches. The construction buffer would avoid ground disturbance and the potential for related impacts to water quality and changes to the hydrology of the BSA because no ground disturbance or vehicular travel would occur outside the limits of permanent ground disturbance (i.e., excavated roadside ditches).

To ensure that avoidance is sufficiently implemented, **Mitigation Measures BIO-6 through BIO-11** are required. With application of these measures, the Project's impact to federally protected wetlands would be less than significant, with mitigation incorporated.

Mitigation Measures

MM BIO-6: Implement Erosion Control. An erosion control barrier shall be placed on the outer edge of the new roadside ditch alignment along Waterman Road from approximately 700 feet south of Bond Road to Rancho Drive. The barrier shall not be keyed into the ground (no trench shall be excavated for the barrier), and construction of the ditches shall be performed from the road to avoid ground disturbance beyond the new roadside ditch.

MM BIO-7: Conduct Environmental Awareness Training. Before any work occurs in the PIA, including grading and equipment staging, all construction personnel shall participate in an environmental awareness training regarding special-status species and sensitive habitats present in the BSA. If new construction personnel are added to the Project, they must receive the mandatory training before starting work. As part of the training, an environmental awareness handout shall be provided to all personnel that describe and illustrates sensitive resources to be avoided during Project construction. This would include avoiding waters of the U.S. outside the PIA.

MM BIO-8: Install Temporary Barrier Fencing, and/or Flagging to Protect Environmentally Sensitive Habitat Areas. Before any ground-disturbing activity occurs within the PIA, the City shall ensure that temporary orange barrier fencing is installed around the PIA adjacent to sensitive habitat areas to be avoided, as appropriate. Construction personnel and

construction activities shall avoid areas outside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality.

The fencing material shall consist of temporary plastic mesh-type construction fence (Tensor Polygrid or equivalent) installed between the work area and environmentally sensitive habitat areas (i.e., waters of the U.S., special-status wildlife habitat, active bird nests), as appropriate, and shall meet Caltrans standards and specifications. To minimize potential ground disturbance, the base of the fencing shall not be buried or keyed-in.

Installation of the barrier fence shall occur under the supervision of a qualified biologist. The temporary orange barrier fencing shall also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP or Water Pollution Control Plan (WPCP). The fencing shall be shown on the final construction documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer shall be established, where no construction activities (i.e., vehicle traffic or equipment operation) shall occur outside the outer boundaries of the roadside ditches that shall be excavated as part of the Project.

MM BIO-9: Conduct Weekly Monitoring Visits. A representative from the City shall make periodic monitoring visits to construction areas occurring in or adjacent to environmentally sensitive habitat areas. The construction contract shall specify that the construction contractor shall maintain the fencing/flagging protecting sensitive biological resources. Additionally, the City shall utilize a qualified biologist on-call to assist the City and the construction crew in complying with all Project implementation restrictions and guidelines as needed.

MM BIO-10: Implement Best Management Practices to Protect Water Quality. The City shall require that the construction contractor implement the following BMPs to protect water quality of waters of the U.S. adjacent to the PIA.

- Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally between April 15 and October 15) when all jurisdictional features (with the exception of Laguna Creek) adjacent to the PIA are anticipated to be dry.
- Install fiber rolls, or other equivalent erosion and sediment control measures between the PIA and waters of the U.S., as necessary, to ensure that construction debris and sediment does not inadvertently enter these features. All areas of exposed soil shall be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition, in order to minimize ground disturbance, fiber rolls or other equivalent control measures shall not be keyed-in or buried.
- Immediately after Project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix and planting native plants.

- Fiber rolls, or other equivalent erosion and sediment control measures shall not be removed from the PIA until vegetation has reestablished within all temporarily-impacted areas to at least 70 percent of pre-project vegetation cover conditions or better.
- No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of waters of the U.S.
- All machinery used during construction of the Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water.
- Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations.
- Implement construction vehicle track-out controls. Restrict vehicle use to properly designated exit points and wherever construction vehicle entry/exit points intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road prior to the use of these access points.
- Before any ground-disturbing activities, the City or its designee shall prepare and implement a SWPPP (as required under the SWRCB's General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]) or a WPCP, as applicable, that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after Project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP shall be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat.
- The SWPPP shall be prepared with the following objectives: (a) to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the Project; (b) to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction; (c) to outline and provide guidance for BMP monitoring; (d) to identify Project discharge points and receiving waters; (e) to address post-construction BMP implementation and monitoring; and (f) to address sedimentation, siltation, and turbidity.

MM BIO-11: No Off-road Vehicle or Equipment Activity Outside of Construction Footprint. To reduce the likelihood of soil and vegetation disturbance outside of the PIA, which could impact water quality and hydrology for adjacent waters of the U.S. and special-status species habitats, no vehicle traffic or heavy equipment activity shall occur outside of the PIA/construction buffer, defined as the maximum area of permanent ground disturbance (i.e., area of roadway construction and the new ditches areas of excavation).

d) Would the project 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?

Less than Significant Impact. Observations taken during the Project's field review provided no indication that any of the Project segments are utilized as migratory corridors or wildlife nursery sites. Much of the Project area is comprised of urbanized areas, which are not conducive to use by wildlife for migration or the rearing of young.

The Project is comprised of improvements to existing linear roadways. Roadways by their nature can serve as impediments to wildlife movement, though the degree to which that impediment occurs is largely reliant upon vehicular traffic volumes, the habitat surrounding the subject roadway(s), and other physical features that could encourage or discourage use and movement by wildlife. In the case of the proposed Project, the Project would not increase roadway capacity or implement any other improvements that would lead to increases in vehicular traffic volumes. Other improvements associated with the Project, such as reconstruction of existing drainage facilities alongside the roadways, would not represent a significant change from that which is already present. For this reason, the Project would not present a substantial change from existing conditions, particularly with respect to how wildlife can or cannot move around or across the Project area.

Based on each of these considerations, the Project's impacts to wildlife movement and its use as a wildlife nursery site would remain unchanged; therefore, Project's effects would be less than significant.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less Than Significant with Mitigation Incorporated. The Project would result in permanent, direct impacts to protected trees by removing trees considered protected by the City. These include landmark trees, trees of local importance, secured trees, and any trees in the right-of-way or on City property. Because a tree inventory has not yet been conducted for this Project, it is unknown at this time how many trees may be impacted. For this reason, **Mitigation Measures BIO-12** and **BIO-13** are required to ensure compliance with the requirements identified in Chapter 19.12, *Tree Protection and Preservation*, of the Elk Grove Municipal Code, and to define appropriate compensatory mitigation. With application of these measures, the Project's impact to locally-protected trees would be less than significant, with mitigation incorporated.

The City maintains Chapter 16.130, *Swainson's Hawk Impact Mitigation Fees*, of the Elk Grove Municipal Code to support the preservation of habitat for Swainson's hawk. While no Swainson's hawks were observed within the BSA during the May 2018 and January 2019 field surveys, potential Swainson's hawk nesting habitat is present within the riparian trees along Laguna Creek at the northern end of the BSA and additional nesting habitat is found along Laguna Creek within 0.25 mile of the BSA. This species could also utilize roadside trees throughout the BSA. The BSA also supports grassland habitat and agricultural fields that provide suitable foraging areas for Swainson's hawk.

A total of 2.34 acres of annual grassland, which could be utilized by Swainson's hawk as foraging habitat, would be permanently impacted by the Project. However, this amount of habitat is relatively small in comparison to the amount of annual grasslands within the BSA and the general region. For this reason, the Project is not expected to have a substantial effect on any Swainson's hawk that could potentially utilize annual grasslands in the BSA for foraging.

Mitigation for the approximately 2.34 acres of potential Swainson's hawk foraging habitat that would be permanently impacted during road widening can be accomplished through: (1) the preservation of suitable habitat (determined by the City and CDFW) through a perpetual conservation easement; (2) purchase of Swainson's hawk credits from a CDFW-approved mitigation bank, including the City's existing bank; (3) or other mitigation as approved by the Elk Grove City Council pursuant to Section 16.130.110. Compensatory mitigation, as required in **Mitigation Measure BIO-5**, would offset these impacts. Therefore, impacts to Swainson's hawk would be less than significant, with mitigation incorporated.

Mitigation Measures

MM BIO-5: Preserve CDFW-approved Foraging Habitat for Swainson's Hawk at a 1:1 Ratio for Permanent Impacts. To compensate for permanent loss of Swainson's hawk foraging habitat, the Project shall follow the City's Swainson's Hawk Mitigation Fee program. Per the program, approved property must be acquired, or a mitigation fee paid to the City for use at the City's existing bank. Additionally, the City Council may prescribe other mitigation as found in Section 16.130.110.

MM BIO-12: Conduct Pre-Construction Tree Survey. Prior to construction, an International Society of Arboriculture Certified Arborist shall conduct a tree survey to document all trees within the PIA. The survey shall also determine which trees in the PIA will need to be removed, which trees can be protected in place, and which trees could be trimmed rather than removed.

MM BIO-13: Mitigate for Impacts to Protected Trees. Mitigation for the removal of protected trees is required. The City would be responsible for implementing the mitigation and would abide by the measures outlined in Article IV (Mitigation for Tree Loss) of Chapter 19.12 (Tree Preservation and Protection) of the City of Elk Grove Municipal Code. Mitigation would include one of the following options: 1) On-site or off-site replacement; 2) Payment of an in-lieu fee; or 3) credit for existing trees.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. There are no Habitat Conservation Plans, Natural Community Conservation Plans, or other approved habitat conservations applicable to the Project area. There would therefore be no impact.

References

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3.5 Cultural Resources

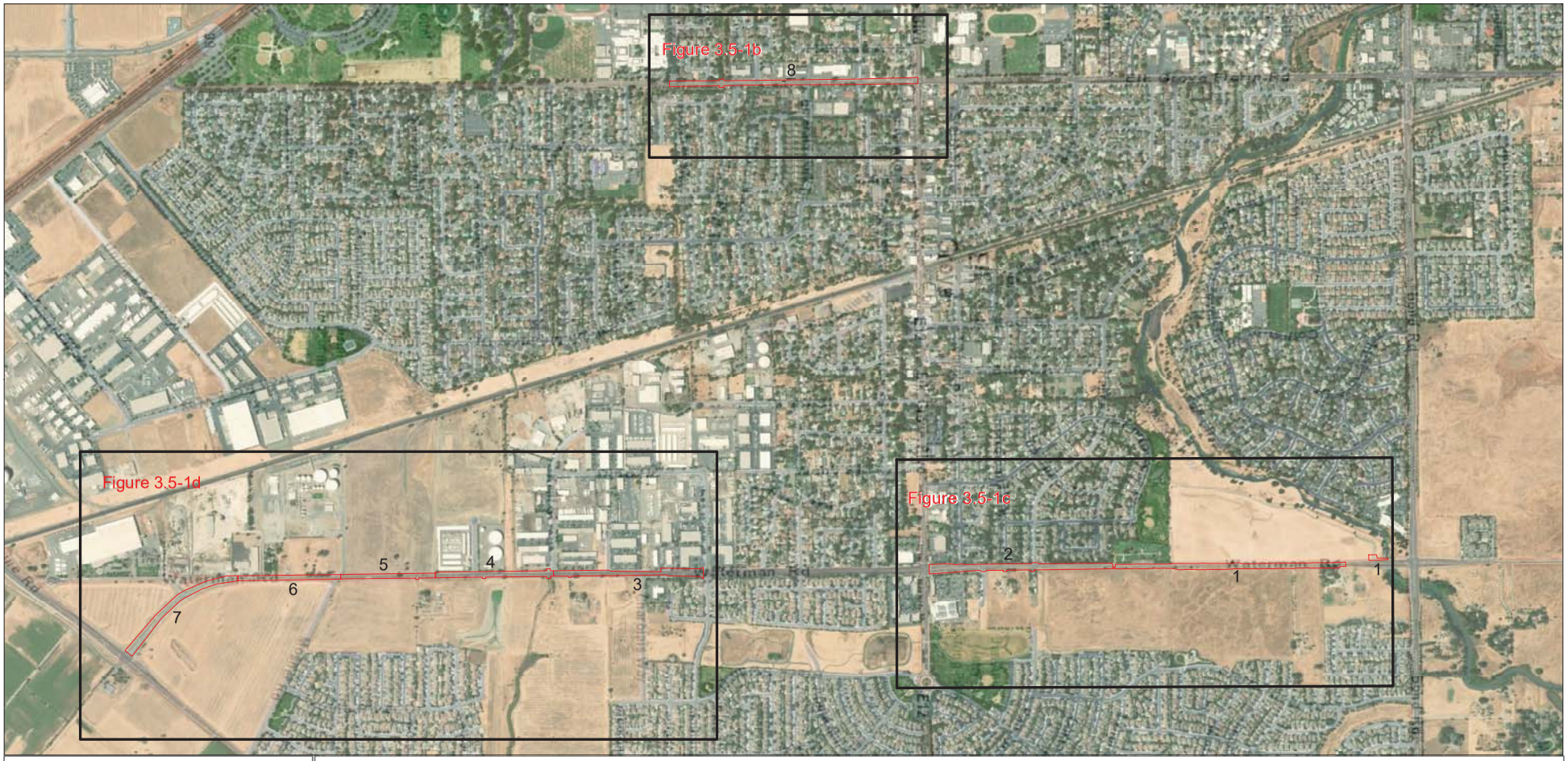
Issues (and Supporting Information Sources):		*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
V.	**CULTURAL RESOURCES —** Would the project:				
a)	Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☐	☐	☒
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c)	Disturb any human remains, including those interred outside of formal cemeteries?	☐	☒	☐	☐

This section relies upon the information and findings presented in the cultural resources technical reports prepared for the Project: *Archaeological Study Report (ASR)/Historic Property Survey Report (HPSR): Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. June 2019*. These documents contain confidential cultural resource site records, and are therefore are not attached hereto as an appendix. These documents can be made available upon request to persons authorized to view such records.

Environmental Setting

CEQA Area of Potential Effects (C-APE)

For the purposes of this analysis, the horizontal extent of the CEQA Area of Potential Effects (C-APE) is considered to be the entire Project area. Detailed maps outlining the C-APE are included here as **Figures 3.5-1a through 3.5-1d**. Due to the nature of the Project and its minimal potential for indirect effects, it was determined that the C-APE is the same for archaeological and built environment resources. This C-APE consists of the areas that would be potentially directly and physically impacted by the Project. This includes both the horizontal and vertical maximum extents of potential impacts, and encompasses the Project footprint and staging and access areas. The horizontal extent of the C-APE includes 19.58 acres. The vertical extent of the APE is based on the ground disturbances related to the extension and reconstruction of Waterman Road in segments 1, 5, and 6; and includes the related activities of relocating some fences, drainage ditches, ditch culverts, and overhead utility poles along the segments to be expanded. Excavation to rehabilitate and extend the roads would have a maximum depth of 2 feet. Excavation to relocated drainage ditches and drainage ditch culverts would have a maximum depth of 2 feet. The relocation of overhead utility poles would require excavation to a depth of 6 feet. The maximum depth of excavation would be 6 feet where poles are relocated, and depth of excavation averages 3 feet throughout the C-APE.



SOURCE: USDA, 2014; ESA, 2019

WPR014 Elk Grove Arterial Roads Rehab Project RPSTPL 5479 (060). 170242

Figure 3.5-1a

Area of Potential Effects Overview

SOURCE: USDA, 2016; ESA, 2019

WPR014 Elk Grove Arterial Roads Rehab Project RPSTPL 5479 (060). 170242

Figure 3.5-1b

Area of Potential Effects Detail

SOURCE: USDA, 2016; ESA, 2019

WPR014 Elk Grove Arterial Roads Rehab Project RPSTPL 5479 (060). 170242

Figure 3.5-1c

Area of Potential Effects Detail

APE

0 300
Feet

1:5,500

SOURCE: USDA, 2016; ESA, 2019

WPR014 Elk Grove Arterial Roads Rehab Project RPSTPL 5479 (060). 170242

Figure 3.5-1d

Area of Potential Effects Detail

Native American Correspondence

For compliance with CEQA and Section 106 of the National Historic Preservation Act (NHPA), the City's consultant contacted the State of California Native American Heritage Commission (NAHC) to request a search of their Sacred Lands File (SLF). The NAHC stated that the SLF has no record of sacred sites in the vicinity of the proposed Project.

Pursuant to Public Resources Code Section 21080.3.1, three traditionally and culturally affiliated California Native American tribes (Ione Band of Miwok Indians, United Auburn Indian Community of the Auburn Rancheria, and Wilton Rancheria) have requested notification of projects in the jurisdiction of the City of Elk Grove. The City contacted each tribe by letter on April 13, 2018, providing a description of the proposed Project, a map of the Project area, and an invitation to respond within 30 days of the request for consultation.

The NAHC provided a list of eight California Native American tribes with cultural affiliation to the general Project vicinity: Buena Vista Rancheria of Me-Wuk Indians, Shingle Springs Band of Miwok Indians, Colfax-Todds Valley Consolidated Tribe, Tsi Akim Maidu, Ione Band of Miwok Indians, Nashville Enterprise Miwok-Maidu-Nishinam Tribe, United Auburn Indian Community of the Auburn Rancheria, and Wilton Rancheria. For the purposes of compliance with Section 106 of the NHPA, the City's consultant sent letters to each tribe on July 2, 2018. The letters provided information on the Project, a map of the Project area, and a request for tribes to respond with any concerns regarding potential impacts to cultural resources. In October 2018, follow-up phone calls, or emails, were also made to each tribe. In October 2018, the City responded to requests from three tribes (Ione Band of Miwok Indians, United Auburn Indian Community of the Auburn Rancheria, and Wilton Rancheria) with updates on the Project, the results of the cultural resources study, and a request that the City facilitate a site visit to provide more Project information. During the outreach efforts, none of the contacted parties identified any specific concerns regarding cultural resources or the potential for the Project to impact cultural resources.

Records Search

On May 31, 2018, at the request of ESA, a records search was conducted at and by the staff of the North Central Information Center (NCIC) of the California Historical Resources Information System (CHRIS), at California State University, Sacramento (File # SAC-18-110). The NCIC records search indicated that three previously recorded cultural resources are present in the C-APE (P-34-000700, P-34-0001616, and P-34-005152). In June 2018 and January 2019, ESA conducted a pedestrian survey of the entire C-APE and relocated once such resource for Elk Grove Florin Road (P-34-000700), and observed that the other two resources, two residential buildings, have been removed from the C-APE since being recorded (P-34-0001616, and P-34-005152). All previously identified cultural resources and potential cultural resources have been significantly altered in recent years, and ESA recommended that all observed resources qualify as exempt from evaluation under Attachment 4 of the January 2014 *First Amended Programmatic Agreement among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and the California Department of Transportation Regarding Compliance with Section 106 of the National Historic Preservation Act* (Section 106 PA) and, therefore, no further consideration of these resources was deemed

necessary for the proposed Project. No other new cultural resources were identified during the field survey.

Field Survey

In May and June 2018, ESA conducted a cultural resources pedestrian survey of the entire C-APE as determined in mid-2018. A portion of the C-APE was later extended northward and was also surveyed in January 2019, and therefore all portions of the C-APE were surveyed. The entire C-APE has experienced significant disturbance from previous road construction activities. Ground visibility during the survey was virtually 100 percent, though the visible surface consisted of imported fill and pavement. No cultural resources were identified during the field survey.

Archaeological Sensitivity Analysis

As part of the cultural resources investigations, ESA conducted a desktop archaeological sensitivity analysis for the Project. Archaeological material associated with prehistoric use of the C-APE, if present, would in all likelihood be in a surficial context; the C-APE's proximity to permanent and seasonal drainages suggests a moderate potential for surficial archaeological deposits in undisturbed sediment or soil. There are no recorded prehistoric archaeological sites in or within 0.5-mile of the C-APE, and the absence of known prehistoric sites may indicate that it is unlikely that large or substantial prehistoric sites are within the C-APE, however, there is a low potential for previously unrecorded buried prehistoric or historic archaeological deposits near the named creeks. Because the entire C-APE has experienced significant disturbance from road construction activities, any surficial (or shallow buried) archaeological deposits in the C-APE existing prior to such activities would have likely been destroyed or heavily damaged. Based on each of the above considerations, the analysis determined that the potential for buried archaeological deposits in the C-APE is very low.

Discussion of Impacts

a) Would the project cause a substantial adverse change in the significance of a historical resource as defined in § 15064.5?

No Impact. CEQA Guidelines § 15064.5 requires the lead agency to consider the effects of a project on historical resources. A historical resource is defined as any building, structure, site, or object listed in or determined to be eligible for listing in the California Register, or determined by a lead agency to be significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, or cultural annals of California. The following discussion focuses on architectural and structural resources. Archaeological resources, including archaeological resources that are potentially historical resources according to CEQA Guidelines § 15064.5, are addressed under criterion b, below.

Through a records search, background research, and a field survey, no cultural resources were identified in the Project Area. As such, there are no architectural or structural resources in the Project Area that qualify as historical resources, as defined in CEQA Guidelines § 15064.5; therefore, the Project is not anticipated to impact any historical resources, as defined in CEQA Guidelines § 15064.5.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?

Less than Significant with Mitigation Incorporated. This section discusses archaeological resources, both as historical resources according to CEQA Guidelines § 15064.5, as well as unique archaeological resources, as defined in PRC § 21083.2(g). A significant impact would occur if the Project would cause a substantial adverse change to an archaeological resource through physical demolition, destruction, relocation, or alteration of the resource.

Through a records search, background research, and a field survey, no archaeological resources were identified in the Project Area. As such, the Project is not anticipated to impact any archaeological resources pursuant to CEQA Guidelines § 15064.5. However, because the Project would include excavation, previously unrecorded archaeological resources may be uncovered during construction. If any previously unrecorded archaeological resource were identified during Project implementation, particularly ground-disturbing construction activities, and were found to qualify as an historical resource per CEQA Guidelines § 15064.5 or a unique archaeological resource, as defined in PRC § 21083.2(g), any impacts to the resource resulting from the Project could be potentially significant. Any such potential significant impacts would be reduced to a less than significant level by implementing mitigation measure **MM CUL-1**.

Mitigation Measure

MM CUL-1: Unanticipated Discovery Protocol for Archaeological Resources and Human Remains. If prehistoric or historic-period archaeological resources are encountered during Project implementation, all construction activities within 100 feet shall halt, and a qualified archaeologist, defined as an archaeologist meeting the U.S. Secretary of the Interior's Professional Qualification Standards for Archeology, shall inspect the find within 24 hours of discovery and notify the City of their initial assessment. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted stones. Historic-period materials might include building or structure footings and walls, and deposits of metal, glass, and/or ceramic refuse.

If the City determines, based on recommendations from a qualified archaeologist and a Native American representative (if the resource is Native American-related), that the resource may qualify as a historical resource or unique archaeological resource (as defined in CEQA Guidelines § 15064.5) or a tribal cultural resource (as defined in PRC § 21080.3), the resource shall be avoided if feasible. If avoidance is not feasible, the City shall consult with appropriate Native American tribes (if the resource is Native American-related), and other appropriate interested parties to determine treatment measures to avoid, minimize, or mitigate any potential impacts to the resource pursuant to PRC § 21083.2, and CEQA Guidelines § 15126.4. This shall include documentation of the resource and may include data recovery (according to PRC § 21083.2), if deemed appropriate, or other actions such

as treating the resource with culturally appropriate dignity and protecting the cultural character and integrity of the resource (according to PRC § 21084.3)

In the event of discovery or recognition of any human remains during Project implementation, Project construction activities within 100 feet of the find shall cease until the Sacramento County Coroner has been contacted to determine that no investigation of the cause of death is required. The Coroner shall contact the NAHC within 24 hours if the Coroner determines the remains to be Native American in origin. The NAHC will then identify the person or persons it believes to be the most likely descendant (MLD) from the deceased Native American (PRC § 5097.98), who in turn would make recommendations to the City for the appropriate means of treating the human remains and any associated funerary objects (CEQA Guidelines § 15064.5[d]).

c) Would the project disturb any human remains, including those interred outside of formal cemeteries?

Less than Significant with Mitigation Incorporated. Through a records search, background research, and a field survey, no human remains are known to exist in the Project Area. Therefore, the Project is not anticipated to impact any human remains, including those interred outside of formal cemeteries. However, because the Project would include excavation, previously unrecorded human remains may be uncovered during construction. If any previously unknown human remains were encountered during Project implementation, particularly ground-disturbing construction activities, any impacts to the human remains resulting from the Project could be potentially significant. Any such potential significant impacts would be reduced to a less than significant level by implementing mitigation measure **MM CUL-1**.

Mitigation Measure

MM CUL-1: Unanticipated Discovery Protocol for Archaeological Resources and Human Remains. If prehistoric or historic-period archaeological resources are encountered during Project implementation, all construction activities within 100 feet shall halt, and a qualified archaeologist, defined as an archaeologist meeting the U.S. Secretary of the Interior's Professional Qualification Standards for Archeology, shall inspect the find within 24 hours of discovery and notify the City of their initial assessment. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted stones. Historic-period materials might include building or structure footings and walls, and deposits of metal, glass, and/or ceramic refuse.

If the City determines, based on recommendations from a qualified archaeologist and a Native American representative (if the resource is Native American-related), that the resource may qualify as a historical resource or unique archaeological resource (as defined in CEQA Guidelines § 15064.5) or a tribal cultural resource (as defined in PRC § 21080.3), the resource shall be avoided if feasible. If avoidance is not feasible, the City shall consult with appropriate Native American tribes (if the resource is Native American-related), and

other appropriate interested parties to determine treatment measures to avoid, minimize, or mitigate any potential impacts to the resource pursuant to PRC § 21083.2, and CEQA Guidelines § 15126.4. This shall include documentation of the resource and may include data recovery (according to PRC § 21083.2), if deemed appropriate, or other actions such as treating the resource with culturally appropriate dignity and protecting the cultural character and integrity of the resource (according to PRC § 21084.3)

In the event of discovery or recognition of any human remains during Project implementation, Project construction activities within 100 feet of the find shall cease until the Sacramento County Coroner has been contacted to determine that no investigation of the cause of death is required. The Coroner shall contact the NAHC within 24 hours if the Coroner determines the remains to be Native American in origin. The NAHC will then identify the person or persons it believes to be the most likely descendant (MLD) from the deceased Native American (PRC § 5097.98), who in turn would make recommendations to the City for the appropriate means of treating the human remains and any associated funerary objects (CEQA Guidelines § 15064.5[d]).

References

ESA. 2019. Historic Property Survey Report and Archaeological Survey Report for the Arterial Road Rehabilitation Project and Bicycle Lane Improvement Project. City of Elk Grove, Sacramento County, California. June 13, 2019.

3.6 Energy

Issues (and Supporting Information Sources):	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. ENERGY — Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☐	☒
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

Environmental Setting

The EIR for the City's 2019 General Plan evaluated energy use within the City and the 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 policies were developed with the specific intent of reducing per-capita energy use within the City.

Discussion of Impacts

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

No Impact. The EIR for the City's recently adopted General Plan discussed energy conservation and relevant General Plan policies in Section 5.7 of the EIR. The discussion concluded that with implementation of proposed General Plan policies and compliance with applicable energy conservation regulations (e.g., Title 24), development allowed in the General Plan would not result in the inefficient, wasteful or unnecessary consumption of energy. Particularly with respect to energy impacts from transportation, the EIR found that numerous measures proposed under the General Plan would reduce VMT and thus reduce overall energy expenditures. Provision of bicycle lanes and other transportation alternatives was identified as a key contributor to decreasing VMT and transportation-related energy expenditures. The proposed Project would help to implement these goals and policies, and would therefore have a net beneficial effect with respect to energy reductions and efficiency. There would therefore be no adverse impact.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

No Impact. The General Plan Draft EIR evaluated the potential impacts of General Plan implementation on energy and concluded that anticipated effects would be less than significant (EIR Impact 5.7-3). The proposed Project would require fuel for construction equipment. However, following construction, the only additional energy expenditures would

be for occasional maintenance. The proposed Project would not contribute to an increase in vehicular traffic through the Project limits. In fact, Project development would implement numerous General Plan transportation-related goals and policies relevant to increasing opportunities for multi-modal transportation, creating bicycle accessibility, and closing transportation gaps. 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. There would be no adverse impact.

Mitigation Measures

None required.

References

Caltrans (California Department of Transportation). 2008. 2007 California Motor Vehicle Stock, Travel and Fuel Forecast.

City of Elk Grove. 2019. City of Elk Grove General Plan. Adopted February 27, 2019. https://www.elkgrovecity.org/city_hall/departments_divisions/planning/a_brighter_future/documents. Accessed October 4, 2019.

City of Elk Grove. 2018. City of Elk Grove General Plan Update Draft Environmental Impact Report. https://www.elkgrovecity.org/city_hall/departments_divisions/planning/a_brighter_future/documents. Accessed October 4, 2019.

3.7 Geology, Soils, Seismicity, and Paleontology

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
VII. GEOLOGY AND SOILS — Would the project:				
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.	☐	☐	☐	☒
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☐	☒
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
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?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
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?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐

Environmental Setting

Much of the Environmental Setting information for this section is derived from Chapter 5.6, *Geology, Soils, Mineral Resources, and Paleontology*, from the City's *General Plan Update Draft Environmental Impact Report* (City of Elk Grove, 2019), and supplemented by information contained in the Initial Site Assessment prepared for the Project: *Initial Site Assessment (ISA): Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014)*. Environmental Science Associates. May 2019. This document is attached to this Initial Study as **Appendix F**.

Regional Geology

The Project site lies within the Great Valley[1] geomorphic province of California, which is an alluvial plain about 50 miles wide and 400 miles long in the central part of California. The Great

[1] The Great Valley is also called the Great Central Valley or the Central Valley when discussing in terms of geography. The common scientific term when discussing in relation to geology is "the Great Valley" as is discussed in this section.

Valley geomorphic province is bounded on the north by the Klamath and Cascade mountain ranges, on the east by the Sierra Nevada, and on the west by the California Coast Mountain Range. The Great Valley is a trough in which sediments have been deposited almost continuously since the Jurassic Era (about 160 million years ago).

Topography

The Project area is situated on the broad, flat alluvial plain of the Sacramento River in the Sacramento Valley within the Great Valley. Topography of the site is essentially flat at an elevation of approximately 44 to 71 feet above mean sea level (msl).

Faults and Seismicity

There are no known active or potentially active faults in the City (City of Elk Grove, 2018). The City is not located in an Alquist-Priolo Earthquake Fault Zone. The closest known fault to the Project site is the Foothills Fault System, which is approximately 21 miles east of the City.

Ground Shaking

Ground shaking is motion that occurs as a result of energy released during faulting. Ground shaking is the primary cause of earthquake damage to man-made structures. When the ground shakes strongly, buildings can be damaged or destroyed and their occupants may be injured or killed. The Project area is subject to potentially moderate seismic shaking (City of Elk Grove, 2018).

Liquefaction and Soils

Liquefaction is the loss of soil strength due to seismic forces generating various types of ground failure. The evaluation of potential for liquefaction is complex, and factors that must be considered include soil type, soil density, groundwater, and the duration and intensity of shaking. Liquefaction is most likely to occur in deposits of water-saturated alluvium or similar deposits of artificial fill. In Sacramento County, the Delta and downtown Sacramento are the two areas most susceptible to liquefaction in the event of an earthquake. The soils underlying the City are relatively dense/stiff and the upper 50 feet of soil are above the depth of groundwater; therefore, the potential for liquefaction in the City considered low. The potential for ground lurching, differential settlement, or lateral spreading to occur during or after seismic events in the City is also considered low (City of Elk Grove, 2018).

Paleontological Sensitivity Analysis

Paleontological resources in the Greater Sacramento area occur most commonly in two formations; the Laguna Formation and the Riverbank Formation. While these formations are present in the Project area (California Geological Survey, 2009), they are largely overlain with Redding series gravely loams and other soil units, which is, in turn, overlain and mixed with modern fill. These types of soils generally do not contain paleontological resources. The NRCS WebSoilSurvey website provides detailed information regarding soil units (NCRS, 2019) in the Project area. The WebSoilSurvey indicates that the Redding gravelly loam soil unit in the area is typically three or more feet thick. Below the Redding unit lies several San Joaquin soil units of varying depths. Based on this information, and when considered against the Project's expected depth of ground

disturbance (three feet or less), it can be assumed that Project activities would be unlikely to encounter either the Laguna or Riverbank units.

Discussion of Impacts

a) Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?

No Impact. The Project site is not within an Earthquake Fault Zone as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. No impact would occur.

ii) Strong seismic ground shaking?

Less than Significant. While the Project is not located within an Alquist-Priolo earthquake hazard zone, the Project site is subject to moderate seismic ground shaking caused by the potential of major seismic events in areas with active faults such as those in the San Francisco Bay Area. The Project proposes to rehabilitate an existing roadway and to add bicycle lanes in both directions. The proposed rehabilitation would not result in the development of structures, including residential or commercial development that would result in people being adversely affected by ground shaking. The improvements would be designed in accordance with the City of Elk Grove Design Guidelines and Standard Construction Specifications. Therefore, the impact would be less than significant.

iii) Seismic-related ground failure, including liquefaction?

No Impact. The Project is located on Redding gravelly soil, which is moderately well drained and not prone to liquefaction. As noted above, the Project site's topography is relatively flat and is not located within a delineated Alquist-Priolo Earthquake Fault Zone and is not located in an area known to be susceptible to liquefaction. Therefore, no impact would occur.

iv) Landslides?

No Impact. The Project area is flat and is not susceptible to landslide hazards. Therefore, no impact would occur.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Less than Significant. Construction activities would involve earth moving activities, such as grading and roadway improvements and could result in short-term wind-driven erosion of soils. The Project site has mostly been previously developed and would not result in substantial loss of topsoil. Proposed Project operations would not result in a significant increase in the potential for soil erosion over existing conditions. Chapter 16.44, Land Grading and Erosion Control, of the City Municipal Code establishes procedures to minimize erosion and sedimentation during construction activities. The RWQCB requires that a National Pollutant Discharge Elimination

System (NPDES) construction activity permit be issued prior to construction. The permit requires that the City impose water quality and watershed protection measures for all development projects, including erosion control. Compliance with Municipal Code Chapter 16.44 would reduce impacts associated with soil erosion to a less than significant level. Therefore, this impact would be less than significant.

c) Would the project 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?

Less than Significant. As discussed above, the Project site's topography is relatively flat and is not located in an area known to be susceptible to liquefaction. The potential for soil liquefaction with earthquake shaking is considered minimal due to the depth of the groundwater at approximately 80 to 90 feet below to ground surface in the Project vicinity (ESA 2019). Implementation of the Project within the requirements of City Design Guidelines and Standard Construction Specifications related to ground failure, including liquefaction, would result in a less than significant impact.

d) Would the project 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?

Less than Significant. Soils with high clay content are usually expansive. Minerals in certain clays swell with increased moisture content and then contract during dry periods. As discussed above, the Project site is underlain with Redding gravelly loam soil, which typically contains low to moderate clay content. Implementation of the Project would be performed in compliance with City Design Guidelines and Standard Construction Specifications. The Project is designed in such a manner as to ensure that grades are constructed in such a way as to prevent water from collecting on or adjacent to pavements, thereby discouraging soil saturation along the roadway. Therefore, the impact would be less than significant with the specific design incorporated.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of waste water?

No Impact. The Project would not create wastewater and would not need to connect to the sewer system or use septic tanks or other alternative waste water disposal systems. Therefore, there would be no impact.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less than Significant. Soil maps indicate that soils in the Project area are Redding series gravely loams, overlain and mixed with modern fill. These types of soils generally do not contain paleontological resources. Since the Project's ground-disturbing activities would be restricted to the first several feet of soil, and could be expected to not disturb potential fossil-bearing formations found at greater depths, the Project's impact would be less than significant.

Mitigation Measures

None required.

References

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ESA. 2019. Initial Site Assessment: Elk Grove Arterial Roads Rehabilitation Project, Elk Grove, California, Federal Project No. RPSTPL 5479(060). March, 2019.

3.8 Greenhouse Gas Emissions

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
VIII. GREENHOUSE GAS EMISSIONS — Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

Environmental Setting

Greenhouse Gas (GHG) emissions have the potential to adversely affect the environment because they contribute to global climate change. In turn, global climate change has the potential to raise sea level, affect rainfall and snowfall, and worsen air pollution levels. An individual project's GHG emissions are minor relative to global GHG emissions, but global emissions are what drive climate change.

The City adopted the *City of Elk Grove Climate Action Plan* (CAP) on March 27, 2013 to comply with AB 32. The CAP was subsequently updated as part of the City's 2019 General Plan (City of Elk Grove, 2019). The CAP identifies how the City and the broader community could reduce regional GHG emissions and includes reduction targets, strategies, and specific actions. Among those strategies was Policy TACM-4, *Pedestrian and Bicycle Travel*, which mandated the City to "Provide for safe and convenient pedestrian and bicycle travel through implementation of the Bicycle, Pedestrian, and Trails Master Plan and increased bicycle parking standards." The City considers a specific project proposal consistent with the Elk Grove CAP if it complies with the GHG reduction measures contained in the adopted CAP.

Discussion of Impacts

a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than Significant. The SMAQMD has adopted GHG significance thresholds of 1,100 metric tons of CO_{2e} per year for construction and operational phases of projects and 10,000 direct metric tons of CO_{2e} per year for stationary source projects (SMAQMD 2009). Since Project construction is not considered a stationary GHG emission source, annual construction emissions that exceed the SMAQMD's GHG significance threshold of 1,100 metric tons of CO2e per year would be considered to have a significant GHG impact.

During the operational phase of the Project, the Project would actually result in either neutral or reduced GHG emissions. This is because the Project would not increase motor vehicle capacity, and more importantly, would include installation of new bicycle lanes that would fill bicycle lane connectivity gaps on Waterman Road, which would encourage alternative modes of transportation and potentially reduce the number of motor vehicles on the roadway.

Operationally, the Project would create a net benefit, and would assist the City in meeting its CAP goals, particularly those related to implementation of CAP Policy TACM-4 and implementation of the City's Bicycle, Pedestrian, and Trails Master Plan.

During construction, GHG emissions would be produced during use of off-road construction equipment, worker commute trips, and material haul trips. However, SMAQMD's construction threshold of 1,100 metric tons of CO_{2e} per year is typically only surpassed during construction of very large projects. The proposed Project is comparatively small. For instance, an even larger yet similar project in the City of Sacramento was only projected to produce 743 metric tons of CO_{2e} during construction (City of Sacramento, 2018). As such, GHG emissions generated during construction and operation of the Project would fall well below SMAQMD's 1,100 metric tons per year CO_{2e} significance threshold.

Based on the above, the Project would not generate GHG emissions, either directly or indirectly, that would have a significant impact on the environment. The Project would be consistent with the City's CAP, and would help the City achieve its GHG reduction goals. This impact would be less than significant.

b) Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less than Significant. As noted above, the Project would be consistent with the City's recently-updated CAP, and would help the City achieve its GHG reduction goals. The Project would also not exceed regulatory construction emissions thresholds as established by SMAQMD. This impact would be less than significant.

Mitigation Measures

None required.

References

City of Elk Grove. 2019. City of Elk Grove Climate Action Plan: 2019 Update. Adopted February 2019. https://www.elkgrovecity.org/UserFiles/Servers/Server_109585/File/Departments/Planning/Projects/General%20Plan/GPU/Adopted_2019-02/ElkGrove_CAP_Adopted_Clean.pdf Accessed October 7, 2019.

City of Sacramento. 2018. Initial Study and Mitigated Negative Declaration for the North 12th Street Complete Project (T15165000). Adopted March 18, 2018. https://www.cityofsacramento.org/-/media/Corporate/Files/CDD/Planning/Environmental-Impact-Reports/North_12th_Revised_IS-MND_031518.pdf?la=en. Accessed October 7, 2019.

3.9 Hazards and Hazardous Materials

Issues (and Supporting Information Sources):		*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
IX.	**HAZARDS AND HAZARDOUS MATERIALS —** Would the project:				
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☒	☐	☐
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?	☐	☒	☒	☐
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
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?	☐	☐	☒	☐
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?	☐	☐	☐	☒
f)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☒	☐	☐
g)	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?	☐	☐	☒	☐

Much of the information for this section is derived from the Initial Site Assessment (ISA) prepared for the Project: *Initial Site Assessment (ISA): Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. May 2019.* This document is attached to this Initial Study as **Appendix F**.

Environmental Setting

The ISA was prepared along each of the Project segments to identify hazardous materials sites that may have affected soil in areas that the proposed Project would encounter (ESA, 2019). The ISA reviewed relevant federal, state, and local regulatory agency lists for sites at or near the Project footprint. A reconnaissance survey was also performed. The ISA found that none of the proposed Project segments appear on any of the searched regulatory agency records. Segment 1 is adjacent to a closed landfill that has contaminated groundwater; however, the depth to groundwater is more than 80 feet below ground surface. A service station that previously underwent cleanup due to a fuel leak is located adjacent to and north of Segment 8; however, the depth to groundwater was over 90 feet below ground surface in 2006. Various other sites have records of past minor releases that have been cleaned up and the cases closed by regulatory

agencies. Various businesses that use hazardous materials are also located along the segments, but none are listed on regulatory records as having violations or hazardous materials releases. All of the listed facilities are set back from the road segments and therefore are unlikely to affect soil in the road segments. Some trash was observed in the ditches and shoulder areas; however, no containers, staining indicative of chemical releases, or stressed vegetation was observed. In summary, the ISA did not identify any known RECs.

Based on a review of historic aerial photos, the various roadway segments associated with the Project have existed since at least 1937. This means the roads have existed throughout the time period during which lead was used in gasoline from the 1920s through the 1970s (US EPA, 1985). The use of lead in gasoline, as well as other uses, is known to have resulted in increased concentrations of what is referred to as aerially deposited lead (ADL) in soil along roadways. Given the time frame, soil along the sides of the subject roadways may have concentrations of lead above regulatory action levels. Portions of Segments 1 through 7 do not have sidewalks, curbs, and gutters adjacent to the paved roads. Uncovered soil adjacent to those roadway segments may have ADL at concentrations that would require management in accordance with Caltrans and Department of Toxic Substances Control (DTSC) regulations (Caltrans, 2020; DTSC-Caltrans, 2016), as discussed further below under Impact "a". Segment 8 is fully developed with sidewalks, curbs, and gutters. ADL, if any was deposited in the past when lead was used in gasoline, would therefore be covered and not subject to disturbance as part of Project implementation.

The nearest airport to the Project site that is currently in operation is Mather Airport, located approximately 9 miles northeast of the Project site. Mather Airport is a public-use airport facility. There are no private airstrips in the vicinity of the proposed Project.

Elk Grove participates in the multijurisdictional Sacramento County Local Hazard Mitigation Plan (LHMP), last updated in 2016 (Sacramento County 2016). The purpose of the plan is to guide hazard mitigation planning to better protect the people and property of the County from the effects of hazard events. The Sacramento LHMP includes policies and programs for participating jurisdictions to implement that reduce the risk of hazards and protect public health, safety, and welfare. The City's Emergency Operations Plan (EOP) provides a strategy for the City to coordinate and conduct emergency response. The intent of the EOP is to provide direction on how to respond to an emergency from the initial onset, through an extended response, and into the recovery process.

Based on maps produced by the California Department of Forestry and Fire Protection (CalFire), the Project area is within a Local Responsibility Area (LRA), which are defined as lands on which neither the state nor the federal government has legal responsibility for providing fire protection. No portion of the City or adjoining areas are designated for moderate, high, or very high fire severity (CalFire, 2008).

Discussion of Impacts

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less than Significant with Mitigation. Construction of the proposed Project would potentially require the use of various types and quantities of hazardous materials. Construction activities would involve the use of petroleum-based fuels for maintenance and construction equipment, which would be transported to the site periodically by vehicle and would be present at the site for short periods of time. None of these materials would be permanently stored on site. Furthermore, all hazardous materials used for the construction of the proposed roadway rehabilitation would be used, stored, and transported according to applicable federal, state, and local requirements. While typical road rehabilitation activities (including paint application and recycling) would include the use of a variety of hazardous materials, the construction contractor is obligated to store and handle these materials (and associated wastes) in compliance with all federal, state, and local regulations, as well as in adherence to Occupational Safety and Health Administration (OSHA) worker safety standards, which includes worker training related to onsite personal safety, hazardous materials storage and handling procedures (including container labeling, completion of material safety data sheets, employee training, and emergency response procedures). Additionally, the City or its designated construction contractor would be responsible for developing and implementing a Stormwater Pollution Prevention Plan (SWPPP), including adherence to the State published Best Management Practices (BMPs) (see Section 3.10, *Hydrology and Water Quality*, of this document). Implementation of the Project would not lead to the direct, long-term use or disposal of any hazardous materials.

With respect to ADL that could be present alongside Project roadway segments with unpaved shoulders or sidewalks, DTSC and Caltrans have developed guidance for evaluating and addressing ADL, as summarized in their Fact Sheet (Caltrans, 2020; DTSC-Caltrans, 2016). In summary, soil with concentrations of lead below 80 milligrams per kilogram (mg/kg) would qualify for unrestricted land use; soil with concentrations of lead above 320 mg/kg would be defined as hazardous waste requiring disposal at a licensed landfill permitted to accept the waste. Soil with concentrations of lead between 80 and 320 mg/kg could be reused at the Project site, providing the soil is placed under an area to be covered with hardscape (i.e., concrete or asphalt) so as to not be accessible to the public. In addition, CCR Section 1532.1, *Lead*, regulates and specifies health and safety procedures for all construction work where an employee may be occupationally exposed to lead, including removal or encapsulation of materials containing lead, and transportation, disposal, storage, or containment of lead or materials containing lead. To ensure compliance with these requirements, **Mitigation Measure HAZ-1** is prescribed below. Compliance with existing regulations, standard conditions, and **Mitigation Measure HAZ-1** would ensure that impacts associated with the transport, use, or disposal of hazardous materials, the release of hazardous materials into the environment would be less than significant.

Mitigation Measure

MM HAZ-1: The City or its designated construction contractor shall conduct an aerially deposited lead (ADL) study in accordance with Caltrans and DTSC regulations prior to construction. The results shall inform the Project as to the appropriate management of soil in those areas that would be disturbed, in accordance with established regulatory standards. This measure shall apply to those portions of Segments 1 through 7 that do not have sidewalks, curbs, and gutters adjacent to the existing paved roadways, and shall apply only to those uncovered areas that would be disturbed as part of Project implementation.

b) Would the project 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?

Less than Significant. As mentioned under Item "a" above, construction-related hazardous materials that could be used and transported include fuel, solvents, paints, oils, grease, and caulking. It is possible that any of these substances could be released during construction activities. However, compliance with federal, state, and local regulations, in combination with construction BMPs implemented from a SWPPP (as required by the Construction General Permit) would ensure that all hazardous materials are used, removed, stored, and disposed of properly, which would minimize potential impacts related to a hazardous materials release during the construction phase of the Project. Implementation of the Project is not expected to 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. No hazardous materials are expected to be used or stored on site during the operational phase of the Project, and therefore the impact would be less than significant with mitigation incorporated.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less than Significant. There are three existing schools within one-quarter mile of the Project. The nearest schools are Joseph Kerr Middle School, located approximately 0.1 miles north of the proposed Project; Jessie Baker Elementary School, located approximately 0.2 miles west of the proposed Project; and Elk Grove High School, which is located approximately 0.2 miles southwest of the Project off Elk Grove Florin Road. However, as outlined above, all hazardous materials used for the construction of the proposed roadway rehabilitation (e.g., petroleum-based fuels, paint, solvents) would be used, stored, and transported according to applicable federal, state, and local requirements. Compliance with these requirements would ensure that the Project would not emit hazardous emissions or result in exposure of acutely hazardous materials or substances within one-quarter mile of an existing or proposed school, and the impact would therefore be less than significant.

d) Would the project 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?

Less than Significant. As documented in the Initial Site Assessment (ISA) for the Project, the Project site consists of eight road segments, none of which appear on any of the searched regulatory agency records. As discussed in the ISA, Segment 1 is adjacent to a closed landfill that has contaminated groundwater; however, the depth to groundwater is more than 80 feet and construction activities along this segment would occur at limited depths (three feet or less at nearly all locations, and up to 10 feet at limited and discrete locations that require utility pole relocations) and would not encounter groundwater. A service station that previously underwent cleanup due to a fuel leak is located adjacent to and north of Segment 8; however, the depth to groundwater was over 90 feet in 2006 and construction activities along this segment would not encounter groundwater based on the Project's expected depth of disturbance (three feet and less). Various other sites have records of past minor releases that have been cleaned up and the cases closed by regulatory agencies. Various businesses that use hazardous materials are located along the segments, but none are listed on regulatory records as having violations or hazardous materials releases. In addition, all of the listed facilities are set back from the road segments and therefore are unlikely to affect soil in the road segments. Some of the road segments have dirt shoulders or ditches without sidewalks or gutters. Some trash was observed in the ditches and shoulder areas; however, no containers, staining indicative of chemical releases, or stressed vegetation was observed. The trash and debris are considered a *de minimus* condition because the materials can be recycled or disposed of at any Class III (non-hazardous materials) landfill.

Based on the above, this impact would be less than significant.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

No Impact. The nearest airport to the Project site is the Mather Airport, located approximately 9 miles to the northeast of the Project, so the Project is not located within two miles of a public airport or public use airport. The Project site is not located within an airport land use plan. Therefore, the Project would not result in any safety hazards for people residing or working in the Project area; there would be no impact.

f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less than Significant with Mitigation Incorporated. Lane closures would be likely during certain periods of Project construction. However, Section 12 of the City's Standard Construction Specifications (Construction Area Traffic Control) identifies specific actions that must be implemented for traffic control to ensure safety for motorists and workers. These requirements must be stated in the General Notes on Project improvement plans, which is confirmed by City staff during plan review. To ensure compliance with these requirements, **Mitigation Measure HAZ-2** is prescribed below. Compliance with these standard conditions would ensure that impacts from the Project related to emergency response and evacuation plans would be less than significant. Therefore, this impact would be less than significant.

Mitigation Measure

MM HAZ-2: The selected construction contractor shall prepare for City approval a Construction Area Traffic Control Plan conforming to the requirements of Section 12 of the City's Standard Construction Specifications.

g) Would the project expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

Less than Significant. The Project is located in a rural area of the City, adjacent to residential, open space, and commercial/mixed-use land uses. While fire on open space lands is a possibility, the Project area is not remote and the Project is not located in an area designated by CalFire to be a Very High Fire Hazard Severity Zone (FHSZ). The Project does not include the construction of any structures and would not result in the exposure of people to wildland fires. Emergency access would be maintained throughout construction and, in the event of a fire, the Cosumnes Community Services District Fire Department provides emergency fire services to the Project area. Therefore, this impact would be less than significant.

References

California Department of Forestry and Fire Protection (CalFire). 2008. Very High Fire Hazard Severity Zones in LRA as Recommended by CalFire: Sacramento County. July 31, 2008. https://osfm.fire.ca.gov/media/6758/fhszl_map34.pdf. Accessed October 10, 2019.

Caltrans. 2020. *Aerially Deposited Lead (ADL)*, Caltrans website for current ADL regulations at: https://dot.ca.gov/programs/environmental-analysis/hazardous-waste/contaminants-waste/aerially-deposited-lead. Accessed April 28, 2020.

Department of Toxic Substances Control (DTSC)-Caltrans. 2016. *FAQs for the 2016 DTSC-Caltrans Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils*, October, 2016.

ESA. 2019. Initial Site Assessment: Elk Grove Arterial Roads Rehabilitation Project, Elk Grove, California, Federal Project No. RPSTPL 5479(060).

Sacramento County. 2016. Local Hazard Mitigation Plan Update. http://www.waterresources.saccounty.net/stormready/Documents/LHMP%20Draft%20Document/Sacramento%20County%20LHMP%20Update%20Chapters%20Complete.pdf. Accessed October 6, 2019.

US EPA. 1985. *Lead Poisoning: A Historical Perspective*, May, 1985.

3.10 Hydrology and Water Quality

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
X. HYDROLOGY AND WATER QUALITY — Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☒	☐	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
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;	☐	☒	☐	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	☐	☐	☒	☐
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	☐	☒	☐	☐
iv) impede or redirect flood flows?	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	☒

Much of the information in this section was derived from the Water Quality Assessment Memorandum prepared for the Project: *Water Quality Technical Memorandum: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014)*. Environmental Science Associates. July 2019. This document is attached to this Initial Study as **Appendix G**.

Environmental Setting

Surface Water

The Project area is located in the Laguna Creek and Morrison Creek watersheds, which are part of the Lower Sacramento Subbasin. Water from the northern half of Waterman Road in the Project area enters two roadside ditches, and is conveyed through a series of culverts to two vernal pools on the west side of the Waterman Road. Laguna Creek is the primary natural drainage that flows through Elk Grove, and is located immediately north of Segment 1, near the intersection of Bond and Waterman Roads. Laguna Creek flows in a southwesterly direction past the Project site, then easterly through the City, before turning south and converging with Morrison Creek before ultimately merging with the Sacramento River, downstream of the Sacramento Regional San Wastewater Treatment Plant and approximately 19 miles downstream

of the Project site. Elk Grove Creek flows from east to west across Waterman Road between Segments 3 and 4. In addition, the Cosumnes River is another notable drainage of the region which is located just 1.6 miles southeast of the southern portion of Segment 7.

Groundwater

The proposed Project is located within the South American River Groundwater Subbasin (Subbasin 5-021.65) of the Sacramento Valley aquifer system which is bounded on the east by the Sierra Nevada, on the west by the Sacramento River, on the north by the American River, and on the south by the Cosumnes and Mokelumne Rivers. Aquifers in this area generally consist of sand and gravel with considerable amounts of silt and clay. Streams, subsurface inflows from adjacent areas, percolation of rainfall, and applied water provide recharge to the aquifer system in the City. Groundwater level data are available in the general vicinity of the Project site, but not for the Project site itself. The closest well for which groundwater level data were available was located along Elk Grove Boulevard, about one-half mile east of the intersection of Elk Grove Boulevard and Waterman Road (Well number 07N06E32P001M), which indicated that groundwater levels are generally between 98 and 120 feet below ground surface (CDWR, 2018).

Floodplain

The Federal Emergency Management Agency (FEMA) is responsible for determining flood elevations and floodplain boundaries. FEMA maps identify the locations of special flood hazard areas, including the 100-year floodplain. In the Project vicinity, FEMA has delineated both the 100-year (i.e., 1 percent annual chance of return) and the 500-year (0.2 percent annual chance of return) floodplain areas. Based on a review of current FEMA maps, the only FEMA-designated flood area within the Project limits occurs on Waterman Road, just south of Kent Street, near the interface of Segments 3 and 4. At that point, Waterman Road passes over a culverted intermittent waterway called "Grove Creek" on U.S. Geological Survey maps (USGS, 1968) that is designated by FEMA as being subject to inundation by the 1 percent annual chance flood (FEMA, 2012). Flows within this waterway are conveyed in a westerly direction under Waterman Road via three steel culverts. During periods of high flow, the culverts are subject to backup. Similar conditions exist further downstream from the Waterman Road crossing.

Senate Bill (SB) 5 and associated legislation requires protection for a 200-year flood for urban and urbanized areas in the Central Valley. Under SB 5, development in moderate or special hazard areas within the Central Valley is permitted if the local agency can provide substantial evidence that the development would be subject to less than 3 feet of flooding during a 200-year flood event. Based on information provided by the California Department of Water Resources (CDWR), the Project area is not subject to 200-year flood requirements as defined under SB 5 (DWR 2017).

Water Quality

The State Water Resources Control Board (SWRCB) administers water rights, water pollution control, and water quality functions throughout the state. Regional Water Quality Control Boards (RWQCBs) are responsible for protecting beneficial uses of water resources within their regional jurisdiction using planning, permitting, and enforcement authorities to meet this responsibility. The SWRCB regulates the discharge of stormwater through the NPDES permit program. Stormwater runoff from construction sites disturbing one acre or more must be covered under the

State's General Construction Activity Stormwater Permit (Order No. R5-2016-0040, NPDES No. CAS0085324) (Construction General Permit), which requires the development and implementation of a SWPPP. The SWPPP is to identify potential pollution sources, needed BMPs, and maintenance and monitoring activities needed to prevent exceedance of applicable water quality standards. The City has a current NPDES General Permit that regulates stormwater discharges associated with construction activities.

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 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 Plans (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.

Discussion of Impacts

a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less than Significant with Mitigation Incorporated.

***Project Construction*.** Project construction would involve roadway improvements in the existing right-of-way that include widening existing pavement areas in Segments 1, 5, and 6. During the construction process, these activities would require the use of heavy equipment on site, including but not limited to grading equipment, excavators, bulldozers, semi-trucks, and paving equipment. Existing drainages would be filled, and re-excavated in their proposed locations. Existing culverts would be removed and, as warranted, re-excavated to support installation of the updated culverts. These activities would disturb existing surface vegetation, as well as surface sediments at the Project site. This loosening of surficial soils could result, in the event of a storm, in increased erosion from the Project site, as well as an increase in

sedimentation downstream. Drainage potential to Laguna or Elk Grove Creek would be enhanced during periods of high to very high stormflows. As a result, the Project could result in increased sediment loads downstream, either in existing vernal pool areas or along Laguna/ Elk Grove Creeks. Increased sediment load in either of these areas could meaningfully impact water quality, resulting in water quality degradation.

In addition to sediment, the use of heavy machinery on site would increase potential for construction related water quality pollution during storm events. Construction related oils, greases, paint, fuels, and other potential construction period water quality pollutants could become entrained in stormwater, resulting in degraded water quality downstream.

To minimize these potential impacts, construction site best management practices (BMPs) would be implemented for the Project, in accordance with applicable NPDES requirements, and other water quality regulations designed to minimize impacts to water quality. Specifically, avoidance and minimization measures listed later in this section (**Mitigation Measure HWQ-1**), as well as **Mitigation Measures BIO-8 and BIO-10**, prescribed previously in this document, would be implemented during Project construction. Adherence to these measures would ensure that potential construction period water quality impacts would be reduced to less than significant.

Project Operation. Implementation of the Project would result in an expansion of existing paved areas and thereby increase the area of impervious surfaces within the Project site. In contrast to pervious surfaces, impervious surfaces prevent the infiltration of water into the subsurface. Therefore, during storm events, a net increase in impervious surfaces could result in a net increase in stormwater flows, and could also result in an earlier release of peak stormwater flows from a given area. These changes could result in a net increase in the volume of water emanating from a given area during storms. Increases in runoff volume can cause a number of downstream impacts, including increased flooding, as well as increased erosion and sedimentation potential. Additionally, impervious surfaces tend to collect oils, greases, brake dust, and other automobile-related pollutants during the dry season, and readily discharge these into adjacent surface waters during storm events (especially during a first flush event).

Potential impacts associated with increased impervious surfaces under the Project would be partially avoided given existing soil conditions on site and in the vicinity of the Project. The gravelly surficial soils in the Project vicinity are underlain by low-permeability clay layers, typically within 1 to 2 feet of the subsurface. These layers result in ponding and vernal pools observed during the wet season. As a result, infiltration capacity in the Project vicinity is already limited under existing conditions. Therefore, installation of new impervious surfaces would have limited potential to further increase stormwater runoff from the Project site. Potential releases of water quality pollutants from the Project site could be mitigated via implementation of treatment BMPs and minimization measures listed later in this section (**Mitigation Measure HWQ-1**), as well as adherence to required measures identified in Chapter 15.1, *Stormwater Management and Discharge Control*, of the Elk Grove Municipal Code. Adherence to these measures would ensure that operation

period impacts would be reduced to less than significant levels. Therefore, this impact would be less than significant with mitigation incorporated.

Mitigation Measure

MM HWQ-1: Ongoing yearly maintenance activities / BMPs shall include:

- Spot removal of sediment and other debris blocking the drainage ditches;
- Cleaning debris from culvert entrances and inlets;
- Monitoring sediment buildup and removal of sediment if sediment begins to impede culverts or other waterways;
- Monitoring culvert outlets for excessive erosion and repairing as necessary with rock slope protection (riprap), erosion control blankets, or turf reinforcement mats.
- Assess and revise, as necessary, these annual maintenance activities to ensure the effectiveness of drainage as designed.

MM BIO-8: Install Temporary Barrier Fencing, and/or Flagging to Protect Environmentally Sensitive Habitat Areas. Before any ground-disturbing activity occurs within the PIA, the City shall ensure that temporary orange barrier fencing is installed around the PIA adjacent to sensitive habitat areas to be avoided, as appropriate. Construction personnel and construction activities shall avoid areas outside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality.

The fencing material shall consist of temporary plastic mesh-type construction fence (Tensor Polygrid or equivalent) installed between the work area and environmentally sensitive habitat areas (i.e., waters of the U.S., special-status wildlife habitat, active bird nests), as appropriate, and shall meet Caltrans standards and specifications. To minimize potential ground disturbance, the base of the fencing shall not be buried or keyed-in.

Installation of the barrier fence shall occur under the supervision of a qualified biologist. The temporary orange barrier fencing shall also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP or Water Pollution Control Plan (WPCP). The fencing shall be shown on the final construction documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer shall be established, where no construction activities (i.e., vehicle traffic or equipment operation) shall occur outside the outer boundaries of the roadside ditches that shall be excavated as part of the Project.

- **MM BIO-10:** Implement Best Management Practices to Protect Water Quality. The City shall require that the construction contractor implement the following BMPs to protect water quality of waters of the U.S. adjacent to the PIA. Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally

between April 15 and October 15) when all jurisdictional features (with the exception of Laguna Creek) adjacent to the PIA are anticipated to be dry.

- Install fiber rolls, or other equivalent erosion and sediment control measures between the PIA and waters of the U.S., as necessary, to ensure that construction debris and sediment does not inadvertently enter these features. All areas of exposed soil shall be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition, in order to minimize ground disturbance, fiber rolls or other equivalent control measures shall not be keyed-in or buried.
- Immediately after Project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix and planting native plants.
- Fiber rolls, or other equivalent erosion and sediment control measures shall not be removed from the PIA until vegetation has reestablished within all temporarily-impacted areas to at least 70 percent of pre-project vegetation cover conditions or better.
- No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of waters of the U.S.
- All machinery used during construction of the Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water.
- Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations.
- Implement construction vehicle track-out controls. Restrict vehicle use to properly designated exit points and wherever construction vehicle entry/exit points intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road prior to the use of these access points.
- Before any ground-disturbing activities, the City or its designee shall prepare and implement a SWPPP (as required under the SWRCB's General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]) or a WPCP, as applicable, that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after Project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP shall be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat.
- The SWPPP shall be prepared with the following objectives: (a) to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the Project; (b) to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction; (c) to outline and provide guidance for

BMP monitoring; (d) to identify Project discharge points and receiving waters; (e) to address post-construction BMP implementation and monitoring; and (f) to address sedimentation, siltation, and turbidity.

b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less than Significant. The maximum excavation anticipated to be required for the Project is generally expected to be no more than 3 feet, with depths of no more than 10 feet at limited and discrete locations where utility poles would need to be relocated. With groundwater found between 98 and 120 feet below ground surface (CDWR, 2018), Project-related ground disturbance would not reach groundwater level, and dewatering would not be required.

The Project site is not actively used for groundwater recharge. The ability for groundwater infiltration within the Project area would be only slightly altered from existing conditions. Implementation of the Project would not utilize or deplete local groundwater supplies.

Therefore, the Project would not contribute to depletion of groundwater supply during Project construction or operation resulting in a net deficit in aquifer volume or a lowering of the local groundwater table, and the impact is less than significant.

c) Would the project 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;

Less than Significant with Mitigation Incorporated. The proposed Project would not result in the alteration of the course of a stream or river. The rehabilitation of Waterman Road and Elk Grove Florin Road and addition of bicycle lanes would result in an increase in impervious surfaces, which would alter the existing drainage pattern on the Project site. Per the Stormwater Quality Design Manual for the Sacramento Region, road projects with an impervious area less than 5 acres are required to implement source control as a stormwater quality control measure. The source control measures identified in the manual for a road project are Efficient Irrigation, Landscaping, and Storm Drain Markings and Signs. The Project is not proposing any irrigation for drainage inlets. The roadside ditches would be hydroseeded with native grasses in accordance with the landscaping source control measure.

The proposed Project would be required to meet the existing NPDES permit requirements, requiring the City or its designated construction contractor to prepare a SWPPP for the proposed Project (see **Mitigation Measure BIO-10**, prescribed previously in this document), and submit it to the CVRWQCB in support of NPDES regulations. The proposed Project would be required to implement appropriate BMPs to prevent erosion and provide sedimentation control during construction. Further, the Project would be subject to Chapter 16.44, *Land Grading and Erosion Control*, of the Elk Grove Municipal Code. Chapter 16.44 establishes administrative procedures, minimum standards for review, and implementation and enforcement procedures for controlling erosion, sedimentation, disruption of existing

drainage and related environmental damage caused by land clearing activities, grading, filling, and land excavation. Compliance with the provisions of the NPDES, SWPPP, and BMPs, as identified in **Mitigation Measure HWQ-1,** as well as **Mitigation Measures BIO-8 and BIO-10**, prescribed previously in this document, and Chapter 16.44 of the Elk Grove Municipal Code would reduce impacts associated with erosion and siltation to a less than significant level.

Mitigation Measure

MM HWQ-1: Ongoing yearly maintenance activities / BMPs shall include:

- Spot removal of sediment and other debris blocking the drainage ditches;
- Cleaning debris from culvert entrances and inlets;
- Monitoring sediment buildup and removal of sediment if sediment begins to impede culverts or other waterways;
- Monitoring culvert outlets for excessive erosion and repairing as necessary with rock slope protection (riprap), erosion control blankets, or turf reinforcement mats.
- Assess and revise, as necessary, these annual maintenance activities to ensure the effectiveness of drainage as designed.

MM BIO-8: Install Temporary Barrier Fencing, and/or Flagging to Protect Environmentally Sensitive Habitat Areas. Before any ground-disturbing activity occurs within the PIA, the City shall ensure that temporary orange barrier fencing is installed around the PIA adjacent to sensitive habitat areas to be avoided, as appropriate. Construction personnel and construction activities shall avoid areas outside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality.

The fencing material shall consist of temporary plastic mesh-type construction fence (Tensor Polygrid or equivalent) installed between the work area and environmentally sensitive habitat areas (i.e., waters of the U.S., special-status wildlife habitat, active bird nests), as appropriate, and shall meet Caltrans standards and specifications. To minimize potential ground disturbance, the base of the fencing shall not be buried or keyed-in.

Installation of the barrier fence shall occur under the supervision of a qualified biologist. The temporary orange barrier fencing shall also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP or Water Pollution Control Plan (WPCP). The fencing shall be shown on the final construction documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer shall be established, where no construction activities (i.e., vehicle traffic or equipment operation) shall occur outside the outer boundaries of the roadside ditches that shall be excavated as part of the Project.

MM BIO-10: Implement Best Management Practices to Protect Water Quality. The City shall require that the construction contractor implement the following BMPs to protect water quality of waters of the U.S. adjacent to the PIA.

- Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally between April 15 and October 15) when all jurisdictional features (with the exception of Laguna Creek) adjacent to the PIA are anticipated to be dry.
- Install fiber rolls, or other equivalent erosion and sediment control measures between the PIA and waters of the U.S., as necessary, to ensure that construction debris and sediment does not inadvertently enter these features. All areas of exposed soil shall be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition, in order to minimize ground disturbance, fiber rolls or other equivalent control measures shall not be keyed-in or buried.
- Immediately after Project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix and planting native plants.
- Fiber rolls, or other equivalent erosion and sediment control measures shall not be removed from the PIA until vegetation has reestablished within all temporarily-impacted areas to at least 70 percent of pre-project vegetation cover conditions or better.
- No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of waters of the U.S.
- All machinery used during construction of the Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water.
- Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations.
- Implement construction vehicle track-out controls. Restrict vehicle use to properly designated exit points and wherever construction vehicle entry/exit points intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road prior to the use of these access points.
- Before any ground-disturbing activities, the City or its designee shall prepare and implement a SWPPP (as required under the SWRCB's General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]) or a WPCP, as applicable, that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after Project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP shall be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat.

- The SWPPP shall be prepared with the following objectives: (a) to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the Project; (b) to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction; (c) to outline and provide guidance for BMP monitoring; (d) to identify Project discharge points and receiving waters; (e) to address post-construction BMP implementation and monitoring; and (f) to address sedimentation, siltation, and turbidity.

ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;

Less than Significant. The proposed Project would rehabilitate Waterman Road, Elk Grove Florin Road, and add bicycle lanes in each direction, which would result in minimal alteration of the existing drainage pattern of the site due to an increase in impervious surfaces. The increase in impervious surfaces may result in an increase in the rate or amount of surface runoff from the Project site. However, this increase would not result in flooding on- or off-site because the Project would not result in a substantial alteration of the existing drainage pattern of the site or area because it would not substantially increase the rate or amount of surface runoff, as the Project involves improvements to an existing roadway. The Project includes slightly raising the profile of the roadway at an existing low spot to alleviate some existing localized flooding and would also upsize and relocate the existing culvert. No streams or rivers would be altered by the proposed Project. Therefore, this impact would be less than significant.

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

Less than Significant with Mitigation Incorporated. The proposed Project would result in a marginal increase in impervious surface area at the Project site, which would result in an increase in the quantity of runoff generated in a storm event. However, the proposed Project is not expected to exceed the capacity of the existing stormwater drainage systems in the Project area, based on the existing drainage system's capacity and the minimal impervious surface area additions associated with the Project. Compliance with the provisions of the NPDES, SWPPP, and BMPs, as identified in **Mitigation Measure HWQ-1,** as well as **Mitigation Measures BIO-8 and BIO-10**, prescribed previously in this document, and Chapter 16.44 of the City Municipal Code would reduce impacts associated with runoff to a less than significant level. Therefore, this impact would be less than significant with mitigation incorporated.

Mitigation Measure

MM HWQ-1: Ongoing yearly maintenance activities / BMPs shall include:

- Spot removal of sediment and other debris blocking the drainage ditches;
- Cleaning debris from culvert entrances and inlets;

- Monitoring sediment buildup and removal of sediment if sediment begins to impede culverts or other waterways;
- Monitoring culvert outlets for excessive erosion and repairing as necessary with rock slope protection (riprap), erosion control blankets, or turf reinforcement mats.
- Assess and revise, as necessary, these annual maintenance activities to ensure the effectiveness of drainage as designed.

MM BIO-8: Install Temporary Barrier Fencing, and/or Flagging to Protect Environmentally Sensitive Habitat Areas. Before any ground-disturbing activity occurs within the PIA, the City shall ensure that temporary orange barrier fencing is installed around the PIA adjacent to sensitive habitat areas to be avoided, as appropriate. Construction personnel and construction activities shall avoid areas outside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality.

The fencing material shall consist of temporary plastic mesh-type construction fence (Tensor Polygrid or equivalent) installed between the work area and environmentally sensitive habitat areas (i.e., waters of the U.S., special-status wildlife habitat, active bird nests), as appropriate, and shall meet Caltrans standards and specifications. To minimize potential ground disturbance, the base of the fencing shall not be buried or keyed-in.

Installation of the barrier fence shall occur under the supervision of a qualified biologist. The temporary orange barrier fencing shall also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP or Water Pollution Control Plan (WPCP). The fencing shall be shown on the final construction documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer shall be established, where no construction activities (i.e., vehicle traffic or equipment operation) shall occur outside the outer boundaries of the roadside ditches that shall be excavated as part of the Project.

MM BIO-10: Implement Best Management Practices to Protect Water Quality. The City shall require that the construction contractor implement the following BMPs to protect water quality of waters of the U.S. adjacent to the PIA.

- Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally between April 15 and October 15) when all jurisdictional features (with the exception of Laguna Creek) adjacent to the PIA are anticipated to be dry.
- Install fiber rolls, or other equivalent erosion and sediment control measures between the PIA and waters of the U.S., as necessary, to ensure that construction debris and sediment does not inadvertently enter these features. All areas of exposed soil shall be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition, in order to minimize ground disturbance, fiber rolls or other equivalent control measures shall not be keyed-in or buried.

- Immediately after Project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix and planting native plants.
- Fiber rolls, or other equivalent erosion and sediment control measures shall not be removed from the PIA until vegetation has reestablished within all temporarily-impacted areas to at least 70 percent of pre-project vegetation cover conditions or better.
- No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of waters of the U.S.
- All machinery used during construction of the Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water.
- Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations.
- Implement construction vehicle track-out controls. Restrict vehicle use to properly designated exit points and wherever construction vehicle entry/exit points intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road prior to the use of these access points.
- Before any ground-disturbing activities, the City or its designee shall prepare and implement a SWPPP (as required under the SWRCB's General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]) or a WPCP, as applicable, that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after Project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP shall be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat.
- The SWPPP shall be prepared with the following objectives: (a) to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the Project; (b) to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction; (c) to outline and provide guidance for BMP monitoring; (d) to identify Project discharge points and receiving waters; (e) to address post-construction BMP implementation and monitoring; and (f) to address sedimentation, siltation, and turbidity.

iv) impede or redirect flood flows?

Less than Significant. The only FEMA-designated flood area within the Project limits occurs on Waterman Road, just south of Kent Street, near the interface of Segments 3 and 4. At that point, Waterman Road passes over a culverted intermittent waterway called "Grove Creek" on U.S. Geological Survey maps (USGS, 1968) that is designated by FEMA as being

subject to inundation by the 1 percent annual chance flood (FEMA, 2012). Flows within this waterway are conveyed in a westerly direction under Waterman Road via three steel culverts. During periods of high flow, the culverts are subject to backup. Similar conditions exist further downstream from the Waterman Road crossing. Any flood flow deficiencies that may be present at this location would not be exacerbated by the proposed Project, since the Project would not place any structures within the flood way, nor would it redirect flood flows in a manner that is different from what is already occurring. The impact would be less than significant.

The proposed Project is not subject to the Senate Bill (SB) 5, since it does not fall into a project category that requires SB 5 findings. Although the Project requires a discretionary consideration, the Project would not result in new building construction or an increase in allowed building occupancy. Therefore, no impact would occur.

d) Would the project in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No Impact. The Project is not located in an area determined to be at risk of seiches or tsunamis, as there are no lakes or other large bodies of water nearby that are susceptible to this risk. No impact would occur.

e) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No Impact. As detailed previously in the discussions above, the Project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality. The Project would also have no effect on groundwater. There would be no impact.

References

California Department of Water Resources (CDWR), Water Data Library, Groundwater Levels for Station 384092N1213447W001, http://wdl.water.ca.gov/waterdatalibrary/groundwater/hydrographs/brr_hydro.cfm?CFGRIDKEY=27854, accessed June 27, 2018.

California Department of Water Resources (CDWR), California's Groundwater Bulletin 118, Sacramento Valley Groundwater Basin, South American Subbasin, Last update February 27, 2004.

Central Valley Regional Water Quality Control Board (CVRWQCB), Order R5-2016-0040 NPDES No. CAS0085324 Waste Discharge Requirements, Municipal Separate Storm Sewer System, 2016.

Central Valley Regional Water Quality Control Board (CVRWQCB), Water Quality Control Plan, Basin Plan, 2016.

ESA. 2019a. Water Quality Assessment Memorandum, Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (WPR014).

ESA. 2019b. Initial Site Assessment: Elk Grove Arterial Roads Rehabilitation Project, Elk Grove, California, Federal Project No. RPSTPL 5479(060).

Federal Emergency Management Agency. 2012. Flood Insurance Rate Map 06067C0336H. August 16, 2012.

Federal Emergency Management Agency. 2012. Flood Insurance Rate Map 06067C0338H. August 16, 2012.

State Water Resources Control Board (SWRCB), Final 2014/2016 California Integrated Report (Clean Water Act Section 303(d) List/305(b) Report, https://www.waterboards.ca.gov/water_issues/programs/tmdl/2014_16state_ir_reports/category5_report.shtml, accessed June 28, 2018.

U.S. Department of Agriculture (USDA), Department of Conservation, Web Soil Survey, Sacramento County, https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm, accessed June 27, 2018.

U.S. Geological Survey. 1968. Elk Grove Quadrangle, California – Sacramento County. 7.5-Minute Series. Field checked 1968. Photo revised 1979.

3.11 Land Use and Land Use Planning

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XI. LAND USE AND PLANNING — Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
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?	☐	☐	☒	☐

Environmental Setting

The City of Elk Grove General Plan Update was adopted on February 27, 2019 (City of Elk Grove, 2019). The General Plan is a broad framework for planning the future of the City of Elk Grove. It is the official policy statement of the City Council to guide the private and public development of the City in a manner to gain the maximum social and economic benefit to the citizens. All other City codes and standards, including Specific Plans and Development Code, must be consistent with the General Plan. The General Plan guides land use planning in the Project area.

As designated in the General Plan, existing land uses surrounding the Project area include Resource Management and Conservation, Parks and Open Space, Public Services, Rural Residential, Estate Residential, Low Density Residential, Employment Center, Regional Commercial, Community Commercial, Heavy Industrial, and Light Industrial.

Discussion of Impacts

a) Would the project physically divide an established community?

No Impact. Each of the Project segments are located within the City's existing right-of-way (ROW), and are currently used as functioning arterial roadways. The proposed Project would include roadway rehabilitation and the addition of bike lanes, which would not alter the existing function of each segment, and the existing uses would remain unchanged. No barriers to movement would be installed. The Project would not physically divide an existing community; therefore, no impact would occur.

b) Would the project conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

Less than Significant. The Project would assist the City in the realization of its *Bicycle, Pedestrian, and Trails Master Plan* by closing gaps in the existing bicycle network system. The Project would also further implementation of a number of General Plan policies related to mobility and complete streets infrastructure. Chapter 6 of the General Plan, *Mobility*, provides goals and policies related to transportation and mobility. **Table 3.11-1** identifies

General Plan policies that are relevant to the Project and determines if the Project is consistent with the identified policy.

TABLE 3.11-1
CITY OF ELK GROVE GENERAL PLAN POLICIES CONSISTENCY WITH THE PROPOSED PROJECT

General Plan Goal or Policy (as adopted)	Consistency with Project	Analysis
Policy MOB-1-1(b)(i): Transportation projects likely to lead to a substantial or measurable increase in VMT shall not increase VMT per service population. Projects must demonstrate that the VMT effect of the project does not exceed the project's baseline condition VMT.	Yes	The proposed Project includes the addition of bicycle lanes in each direction along Waterman Road in the Project area, which would serve as an incentive to reduce vehicle use and VMT. The Project's effect on VMT reduction would be beneficial.
Policy MOB-1-2: Consider all transportation modes and the overall mobility of these modes when evaluating transportation design and potential impacts during circulation planning.	Yes	The Project would provide for the safe and efficient use of bicycles along arterial roadways, thus providing additional transportation options while increasing overall mobility.
Policy MOB-3-1: Implement a balanced transportation system using a layered network approach to building complete streets that ensure the safety and mobility of all users, including pedestrians, cyclists, motorists, children, seniors, and people with disabilities.	Yes	The Project would move the applicable roadways towards a more complete configuration, and would provide for use of safe and efficient transportation options.
Policy MOB-3-2: Support strategies that reduce reliance on single occupancy private vehicles and promote the viability of alternative modes of transport.	Yes	Provision of bicycle lanes is a prominent tool that can be used to reduce the prevalence of single occupant vehicle use, and VMT in general.
Policy MOB-3-3: Whenever capital improvements that alter street design are being performed within the public right-of-way, retrofit the right-of-way to enhance multimodal access to the most practical extent possible.	Yes	The proposed Project would widen the existing roadway to accommodate bicycle lanes in each direction, which would enhance multi-modal access.
Policy MOB-3-7: Develop a complete and connected network of sidewalks, crossings, paths, and bike lanes that are convenient and attractive, with a variety of routes in pedestrian-oriented areas.	Yes	The Project would assist the City in the realization of its *Bicycle, Pedestrian, and Trails Master Plan* by closing gaps in the existing bicycle network system.
Policy MOB-4-4: Employ the recommendations and guidelines in the *Bicycle, Pedestrian, and Trails Master Plan* when planning and designing bicycle, pedestrian, and trail facilities and infrastructure, including updates to the Capital Improvement Program.	Yes	The Project would assist the City in the realization of its *Bicycle, Pedestrian, and Trails Master Plan* by closing gaps in the existing bicycle network system.

As can be seen above, the Project would not conflict with any applicable land use plan, policy, or regulation in the General Plan because the Project would not require ROW acquisition or changes in use to surrounding parcels. The various segments would remain in use as arterial roadways, and surrounding uses would be unaffected by the Project. The Project is consistent with the City's General Plan policies, as shown in Table 3.11-1. Once traffic reaches a sufficient level, Waterman Road in the Project area is ultimately planned as a four-lane arterial roadway in the *City of Elk Grove General Plan Circulation Element*. The proposed Project would not preclude this expansion. Based on these considerations, the impact would be less than significant.

Mitigation Measures

None required.

References

City of Elk Grove. 2019. City of Elk Grove General Plan. Adopted February 27, 2019. https://www.elkgrovecity.org/city_hall/departments_divisions/planning/a_brighter_future/documents. Accessed October 4, 2019.

3.12 Mineral Resources

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XII. MINERAL RESOURCES — Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
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?	☐	☐	☐	☒

Environmental Setting

According to the Community and Resource Protection Element of the City′s General Plan, there are no mineral deposits or mineral extraction activities located within the City of Elk Grove (City of Elk Grove, 2019). The various Project segments are currently in use as arterial roadways. There are no mining activities occurring in the vicinity of the segments, nor have there been such uses historically.

Discussion of Impacts

a) Would the project 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?

No Impact. There are no mineral deposits or mineral extraction activities located within the City of Elk Grove. The Project would not 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. Therefore, no impact would occur.

b) Would the project 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?

No Impact. According to the City's General Plan, there are no locally-important mineral resources recovery sites identified within the Elk Grove City limits. Further, the proposed Project lies solely within the designated right-of-way for existing arterial roadways, where mineral extraction activities would be neither appropriate or feasible. As such, the proposed Project would not 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. Therefore, no impact would occur.

Mitigation Measures

None required.

References

City of Elk Grove. 2019. City of Elk Grove General Plan. Adopted February 27, 2019. https://www.elkgrovecity.org/city_hall/departments_divisions/planning/a_brighter_future/documents. Accessed October 4, 2019.

3.13 Noise

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XIII. NOISE — Would the project result in:				
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?	☐	☐	☒	☐
b) Generation of excessive groundbourne vibration or groundbourne noise levels?	☐	☐	☒	☐
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?	☐	☐	☐	☒

Much of the Environmental Setting information for this section is derived from the construction noise analysis prepared for the Project: *Construction Noise Memorandum: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. March 2019*. This document is attached to this Initial Study as **Appendix H**.

Environmental Setting

Human response to noise varies considerably from one individual to another. Effects of noise at various levels can include interference with sleep, concentration, and communication; physiological and psychological stress; and hearing loss. Given these effects, some land uses are considered more sensitive to ambient noise levels than others. In general, residences, schools, hotels, hospitals, and nursing homes are considered to be the most sensitive to noise. Commercial and industrial uses are considered the least noise-sensitive. The area surrounding the site supports a variety of land uses including single family and multi-family residences, commercial and industrial properties. Residential land uses are located within approximately 50 feet of Segments 2 and 8. Land uses adjacent to Segments 3, 4, 5, 6 and 7 consist of non-residential uses such as vacant land, industrial and commercial uses. Land uses surrounding the Project site consist of residential, industrial and commercial land uses. There are noise-sensitive receptors located within 50 feet of Project-related construction areas.

The ambient noise environment in the vicinity of the Project area was estimated using a relationship population density and ambient noise study conducted as part of a research program by the U.S. Environmental Protection Agency (EPA). The EPA determined that residences residing in a quiet suburban residential area are estimated to be exposed to outdoor ambient noise levels ranging from 48 to 52 dBA L_{dn} (EPA, 1974). Since the area surrounding much of the Project area can be categorized as quiet suburban residential, it is assumed that ambient noise levels would range from 48 and 52 dBA L_{dn}.

City of Elk Grove General Plan

The City has established noise goals and policies in the Services, Health and Safety Element of the City's General Plan (City of Elk Grove, 2019). The General Plan contains a typical noise source standard of 55 dBA L_{eq} during the daytime hours (7:00 a.m. to 10:00 p.m.) and 45 dBA L_{eq} during the nighttime hours (10:00 p.m. to 7:00 a.m.) for stationary noise sources that are tonal or impulsive (e.g., use of construction equipment). According to Policy N-1-7 of the General Plan, the City's noise level performance standards do no not apply to transportation and City infrastructure construction activities as long as construction occurs between the hours of 7:00 a.m. and 7:00 p.m., Monday through Friday, and 8:00 a.m. and 5:00 p.m. on weekends and federally recognized holidays. Work may occur beyond these time frames for construction safety or because of existing congestion that makes completing the work during these time frames infeasible. The requirements and exemptions noted above are codified in the City's Municipal Code at Chapter 6.32.100 (Exemptions):

> ***Construction Noise.*** *Noise sources associated with construction, repair, remodeling, demolition, paving or grading of any real property, provided said activities only occur between the hours of 7:00 a.m. and 7:00 p.m. when located adjacent to residential uses. Noise associated with these activities not located adjacent residential uses may occur between the hours of 6:00 a.m. and 8:00 p.m. However, when an unforeseen or unavoidable condition occurs during a construction project and the nature of the project necessitates that work in process 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 of Impacts

a) Would the project result in a substantial temporary or permanent increase in ambient noise levels in the project vicinity in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less than Significant. Temporary construction activity noise levels at the Project site and at the various segments would fluctuate depending on the particular type, number and duration of use of various pieces of construction equipment. Construction is expected to begin in Spring 2020 and be completed in 100 to 120 working days. Approximately 20 to 30 personnel are expected to be at the construction site on any given day, though work on more than one segment could occur concurrently.

The Project would result in a violation of the City's noise standards if construction activity would occur outside of the allowable daytime hours specified by the County's noise ordinance. According to the Municipal Code Chapter 6.32.100, temporary construction noise impacts are exempted if construction occurs between the hours of 6:00 a.m. and 8:00 p.m., Monday through Friday, and between the hours of 7:00 a.m. and 7:00 p.m. on Saturday and Sunday. Compliance with that regulation would avoid significant impacts, and the resultant impact for temporary construction noise would be less than significant.

With respect to operational noise, the Project would not result in lane additions and no substantial alterations in the vertical or horizontal alignment of the roadway. The proposed Project would not alter the existing horizontal alignment of the roadway that would halve the distance between the existing roadway and the nearest receptor. The increase in roadway width would be to accommodate bicycle lanes and would not bring motor vehicles lanes closer to existing sensitive receptors. Since the proposed pavement rehabilitation and bicycle lane improvements would not increase the traffic capacity along the roadways, sensitive land uses located adjacent to them would not be exposed to an increase in traffic noise after the proposed roadway improvements have been completed. Therefore, the proposed Project would not have a long-term effect on noise levels, and would not result in a substantial permanent increase in ambient noise levels during operation. Impacts would therefore be less than significant.

b) Would the project result in exposure of persons to or generation of excessive groundbourne vibration or groundbourne noise levels?

Less than Significant. Construction activities may generate perceptible vibration when heavy equipment or impact tools such as jackhammers or compactors are used. The proposed Project would not include the use of any off-road equipment known to generate a substantial amount of vibration such as pile driving and blasting. According to the FTA's *Transit Noise and Vibration Impact Assessment*, residential land uses exposed to a vibration level of 80 VdB could result in human annoyance and residential buildings exposed to a vibration level of 0.2 PPV (inch/second) could result in building damage (FTA, 2018).

The potential use of vibratory roller during roadway compaction would be expected to generate the highest vibration levels during construction. Vibration levels would vary depending on soil conditions, construction methods, and equipment used. Vibratory rollers typically generate vibration levels of 76 VdB and 0.026 PPV (inch/second) at a distance of 100 feet, which would be below the 80 VdB threshold for human annoyance and the 0.2 PPV (inch/second) threshold for building damage. Since there are no sensitive receptors located within 100 feet of the Project site boundary, existing sensitive receptors near the Project site would not be affected by substantial groundbourne vibration that would result in annoyance or building damage. This impact would result in a less than significant impact.

c) Is the project located within the vicinity of a private airstrip or an airport land use plan? or, within two miles of a public airport or public use airport? Would the project expose people who reside or work in the project area to excessive noise levels?

No Impact. Since the Project does not include a residential or sensitive receptor component, and is not located within the vicinity of a private airstrip, an airport land use plan, or within two miles of a public airport or public use airport, the Project would not expose people residing or working in the Project area to excessive noise levels from aircraft. Therefore, no impact would occur.

Mitigation Measures

None required.

References

City of Elk Grove. 2019. City of Elk Grove General Plan. Adopted February 27, 2019. https://www.elkgrovecity.org/city_hall/departments_divisions/planning/a_brighter_future/documents. Accessed October 4, 2019.

Federal Highway Administration (FHWA). *Roadway Construction Noise Model User's Guide*. January 2006.

Federal Transit Administration. 2018. Transit Noise and Vibration Impact Assessment Manual. September, 2018. https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf. Accessed October 9, 2019.

U.S. Environmental Protection Agency. 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety. March, 1974. https://nepis.epa.gov/Exe/ZyPDF.cgi/2000L3LN.PDF?Dockey=2000L3LN.PDF. Accessed October 9, 2019.

3.14 Population and Housing

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XIV. POPULATION AND HOUSING — Would the project:				
a) Induce substantial unplanned 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)?	☐	☐	☐	☒
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Environmental Setting

The population of Elk Grove has steadily grown since its incorporation in 2000. Since 2000 the population of the City has more than doubled, from 72,665 in 2000 to an estimated 166,228 in 2017 (U.S. Census Bureau 2017). The Project area is surrounded by land that is designated for various residential uses.

Discussion of Impacts

a) Would the project 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)?

No Impact. The proposed Project does not include the construction of new residences or businesses. Construction of the Project could provide temporary employment for construction activities, but would not result in the permanent creation of new jobs that would induce substantial population growth. The Project would not increase capacity of the existing roadways and would not encourage population growth in the surrounding areas. Therefore, there would be no impact.

b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The Project would be constructed entirely within existing City ROW. The proposed Project would not displace any residential structures. As the proposed Project would not remove or necessitate the relocation of any housing, and would not displace any people, no impact would occur.

Mitigation Measures

None required.

References

U.S. Census Bureau, 2017. American Community Survey 5-Year Estimates, 2013-2017: City of Elk Grove. Available https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=CF. Accessed May 7, 2019.

3.15 Public Services

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XV. PUBLIC SERVICES —				
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 following public services:				
i) Fire protection?	☐	☐	☒	☐
ii) Police protection?	☐	☐	☒	☐
iii) Schools?	☐	☐	☒	☐
iv) Parks?	☐	☐	☐	☒
v) Other public facilities?	☐	☐	☐	☒

Environmental Setting

The City receives fire protection and emergency services from the Cosumnes Fire Department. The City of Elk Grove Police Department provides law enforcement and general public safety. The nearest fire stations to the various segments are Station 71 at 8760 Elk Grove Boulevard and Station 73 at 9670 Bond Road. The police department is located at 8400 Laguna Palms Way.

Public schools in the Project area are within the service area of the Elk Grove Unified School District. The closest public schools to the Project area are: Jessie Baker Elementary School at 8850 Southside Avenue, approximately 0.2 miles west of the proposed Project; Joseph Kerr Middle School at 8865 Elk Grove Boulevard, approximately 0.1 miles north of the proposed Project; and Elk Grove High School at 9800 Elk Grove Boulevard, which is approximately 0.2 miles to the southwest of the Project area.

The Cosumnes Community Services District (CSD) oversees all of the parks and related facilities within the City limits. CSD is also responsible for the maintenance of other public facilities. The nearest park to the Project area is Elk Grove Regional Park, which is located at 9950 Elk Grove Florin Road, which is approximately 1.1 miles to the southwest of the Elk Grove Florin Road and Valley Oak Lane intersection and outside of the Project area.

Discussion of Impacts

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 government 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 following public services:

i and ii) Fire or police protection?

Less than Significant. The proposed Project would rehabilitate the existing roadway and include the addition of bicycle lanes in each direction. This would not increase the population near the Project area; therefore, there would not be an increased demand for fire and police protection due to the proposed Project. The establishment of additional facilities in order to maintain acceptable service ratios would not be necessary. During construction, there may be temporary delays due to closed lanes and construction vehicles; detours may be required. The City would coordinate with the fire and police departments to ensure planned road closures and detours are feasible ahead of time. Therefore, there would be a less than significant impact.

iii) Schools?

Less than Significant. The proposed Project would not include population growth to the area and does not include components that would result in an increase for the demand of additional schools. No schools in the area need to be updated to accommodate the proposed Project. During construction, there may be temporary delays due to closed lanes and construction vehicles; detours may be required. The City would coordinate with the schools and district to provide notification ahead of time, and ensure planned road closures and detours are feasible. Therefore, there would be a less than significant impact.

iv, v) Parks, or other public facilities?

No Impact. The proposed Project would not include population growth to the area and does not include components that would result in an increase for the demand of additional parks or other public facilities. No parks, or other public facilities in the area would need to be updated to accommodate the proposed Project. No disruption of access to parks, or other public facilities would result from the Project. Therefore, no impact would occur.

Mitigation Measures

None required.

References

None.

3.16 Recreation

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XVI. RECREATION —				
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?	☐	☐	☐	☒
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?	☐	☐	☐	☒

Environmental Setting

CSD oversees all of the parks and related facilities within the City limits. The nearest park to the Project area is Elk Grove Regional Park, which is located at 9950 Elk Grove Florin Road, which is approximately 1,600 feet to the southwest of the Elk Grove Florin Road and Valley Oak Lane intersection. No parks or recreational facilities are currently in the Project area or adjacent to the Project area.

The City's General Plan (City of Elk Grove, 2019) includes goals and policies established to conserve existing national, State, and regional recreation areas, as well as to encourage 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* (City of Elk Grove, 2014) includes goals to encourage public use of all available pedestrian and bicycle trails and an exceptional public park network throughout the City.

Discussion of Impacts

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?

No Impact. Project operation would improve bicycle and pedestrian access in the area. However, it would not result in an increase in population that would result in increased use of or need to expand existing recreational facilities. The Project would not displace any facilities, requiring expansion of existing or new recreational facilities. Further, pedestrian and bicyclist use of the facility is not expected to increase the use of neighborhood parks such that physical deterioration of the facilities would occur. While the Project includes bicycle lanes, the bicycle lanes would be constructed on the shoulder of the existing roadways and no parklets or other facilities are proposed. Therefore, there would be no impact.

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?

No Impact. As discussed above, the Project does not require the construction or expansion of existing recreational facilities. There would be no impact.

Mitigation Measures

None required.

References

City of Elk Grove. 2019. City of Elk Grove General Plan. Adopted February 27, 2019. https://www.elkgrovecity.org/city_hall/departments_divisions/planning/a_brighter_future/documents. Accessed October 4, 2019.

City of Elk Grove, 2014. *City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan*. July, 2014. https://www.elkgrovecity.org/UserFiles/Servers/Server_109585/File/commissions-committees/Trails/EG_BPTMP_FINAL.pdf. Accessed October 9, 2019.

3.17 Transportation

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XVII. TRANSPORTATION — Would the project:				
a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	☒	☐
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☐	☒
d) Result in inadequate emergency access?	☐	☐	☒	☐

Environmental Setting

The proposed Project would rehabilitate the existing roadway along Segment 8 of Elk Grove Florin Road. Segments 2, 3, 4, and 7 along Waterman Road would receive similar treatments, with Segments 1, 5, and 6 also widened to add bicycle lanes in the shoulders in each direction. The Project would not add motor vehicle capacity to either of the existing roadways.

Waterman Road is a north-south two-lane arterial road within a largely rural/undeveloped portion of the City, which transitions into a four-lane arterial at the northern end of Segment 3, before reverting again to a two-lane configuration with occasional left-turn pockets north of Elk Grove Boulevard. In the City's General Plan, Waterman Road is ultimately planned as a four-lane arterial between Grant Line Road and Elk Grove Boulevard, and then continuing as a two-lane arterial/collector north of that point (City of Elk Grove, 2019).

Elk Grove Florin Road is a two-lane arterial/collector with a two-way center turn lane within a fully-developed portion of the City. This existing designation would continue under the City's General Plan. Regional access to the area is provided by State Route 99 (SR-99) and local access is provided via Elk Grove Boulevard and/or Bond Road to and from SR-99, and locally via Waterman Road, or Elk Grove Florin Road.

There are limited existing pedestrian or bicycle facilities provided along Waterman Road within the Project area, and the proposed widening work within Segments 1, 5, and 6 would eliminate gaps in the existing bicycle lanes along the roadway between Grant Line Road and Bond Road. A Class II bicycle lane (striped bicycle lanes along a roadway or shoulder) begins at the approach to Bond Road and continues east/west along Bond Road north of Segment 1. Bicycle lanes were recently constructed on Waterman Road between Bond Road and Sheldon Road (City Project WPR010), and the roundabout at Waterman and Sheldon Road north of the Project area included the construction of bicycle and pedestrian facilities, so there are also Class II bicycle lanes at the approach to Sheldon Road that then continue west along Sheldon Road.

There are no existing or planned public transit routes along Waterman Road in the Project area. Along Elk Grove Florin Road within the Project area, bus service is provided in each direction by e-Tran, via Routes 13 and 113.

Discussion of Impacts

a) Would the project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Less than Significant. There are multiple policies applicable to the proposed Project in the City's General Plan. **Table 3.17-1** lists those policies, and provides an assessment of the Project's consistency with those policies.

TABLE 3.17-1
CITY OF ELK GROVE GENERAL PLAN POLICIES CONSISTENCY WITH THE PROPOSED PROJECT

General Plan Goal or Policy (as adopted)	Consistency with Project	Analysis
Policy MOB-1-1(b)(i): Transportation projects likely to lead to a substantial or measurable increase in VMT shall not increase VMT per service population. Projects must demonstrate that the VMT effect of the project does not exceed the project's baseline condition VMT.	Yes	The proposed Project includes the addition of bicycle lanes in each direction along Waterman Road in the Project area, which would serve as an incentive to reduce vehicle use and VMT. The Project's effect on VMT reduction would be beneficial.
Policy MOB-1-2: Consider all transportation modes and the overall mobility of these modes when evaluating transportation design and potential impacts during circulation planning.	Yes	The Project would provide for the safe and efficient use of bicycles along arterial roadways, thus providing additional transportation options while increasing overall mobility.
Policy MOB-3-1: Implement a balanced transportation system using a layered network approach to building complete streets that ensure the safety and mobility of all users, including pedestrians, cyclists, motorists, children, seniors, and people with disabilities.	Yes	The Project would move the applicable roadways towards a more complete configuration, and would provide for use of safe and efficient transportation options.
Policy MOB-3-2: Support strategies that reduce reliance on single occupancy private vehicles and promote the viability of alternative modes of transport.	Yes	Provision of bicycle lanes is a prominent tool that can be used to reduce the prevalence of single occupant vehicle use, and VMT in general.
Policy MOB-3-3: Whenever capital improvements that alter street design are being performed within the public right-of-way, retrofit the right-of-way to enhance multimodal access to the most practical extent possible.	Yes	The proposed Project would widen the existing roadway to accommodate bicycle lanes in each direction, which would enhance multi-modal access.
Policy MOB-3-7: Develop a complete and connected network of sidewalks, crossings, paths, and bike lanes that are convenient and attractive, with a variety of routes in pedestrian-oriented areas.	Yes	The Project would assist the City in the realization of its *Bicycle, Pedestrian, and Trails Master Plan* by closing gaps in the existing bicycle network system.
Policy MOB-4-4: Employ the recommendations and guidelines in the *Bicycle, Pedestrian, and Trails Master Plan* when planning and designing bicycle, pedestrian, and trail facilities and infrastructure, including updates to the Capital Improvement Program.	Yes	The Project would assist the City in the realization of its *Bicycle, Pedestrian, and Trails Master Plan* by closing gaps in the existing bicycle network system.

As shown in the table, the Project would be consistent with all applicable General Plan policies relating to transportation planning and roadway improvements. The Project would include beneficial features, such as assistance in meeting the eventual implementation of applicable goals in the City's *Bicycle, Pedestrian, and Trails Master Plan* (City of Elk Grove, 2014).

There are currently no existing or planned public transit routes along Waterman Road, but the Project would not preclude the addition of new transit routes along the roadway in the future. Similarly, the Project would not interfere with existing transit services along Elk Grove Florin Road.

Based on each of the above considerations, the Project's impacts would be less than significant.

b) Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?

Less than Significant. As specified in CEQA Guidelines Section 15064.3(b), transportation projects that reduce, or have no impact on, VMT should be presumed to cause a less than significant transportation impact. The proposed Project would not increase motor vehicle capacity, and more importantly, would include installation of new bicycle lanes within existing bicycle lane gaps along Waterman Road, which would encourage alternative modes of transportation and potentially reduce the number of motor vehicles on the roadway, and thereby reducing VMT. Further, the City's *Transportation Analysis Guidelines* (City of Elk Grove, 2018) identifies specific types of projects that are not likely to lead to a substantial or measureable increase in VMT, several of which are applicable to the Project, including:

- Addition of active transportation improvements (e.g., new trail segments), like on-street bike lanes and shoulder improvements to improve conditions for cyclists.
- Resurfacing, rehabilitation, maintenance, preventative maintenance, replacement, and repair projects that do not add additional roadway capacity.
- Complete Streets Projects that do not add additional roadway capacity.
- Other improvements to the circulation system that do not add additional roadway capacity.

Based upon these considerations, and in accordance with CEQA Guidelines Section 15064.3(b) and the City's established policies, the Project's impacts would be less than significant.

c) Would the project substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

No Impact. The Project would rehabilitate the existing roadways and increase the width of portions of Waterman Road to provide continuous bicycle lanes in each direction. This would serve to improve pedestrian and cyclist safety and to bring the existing facility up to current City of Elk Grove General Plan standards. The Project would be designed in accordance with the City's Design and Improvement Standards and the Project would not introduce or conflict with other uses in the surrounding area. The Project would not increase hazards to farm

equipment (to the extent that they are currently allowed on the roadway) because selected roadway segments would be widened to include bicycle lanes, which would reduce potential conflicts and safety concerns. As such, there would be no impact.

e) Would the project result in inadequate emergency access?

Less than Significant. Traffic handling during construction of the proposed Project may require temporary partial or full lane closures and/or detours. The City would require the contractor to coordinate with the local fire and police departments before road closures to ensure emergency service providers are aware of any temporary road closures and/or detours ahead of time. The Project proposes to rehabilitate each of the Project segments and to widen the existing roadway in select segments to accommodate bicycle lanes in each direction, which would provide more space for emergency vehicles to travel through, thus potentially improving the provision of safe emergency response. The impact would be less than significant.

Mitigation Measures

None required.

References

City of Elk Grove. 2019. City of Elk Grove General Plan. Adopted February 27, 2019. https://www.elkgrovecity.org/city_hall/departments_divisions/planning/a_brighter_future/documents. Accessed October 4, 2019.

City of Elk Grove, 2018. Transportation Analysis Guidelines. July 2018. http://www.elkgrovecity.org/UserFiles/Servers/Server_109585/File/Departments/Planning/Projects/General%20Plan/GPU/DraftMaterials_201901/Transportation_Analysis_Guidelines_Draft_2019-01.pdf. Accessed December 11, 2019.

City of Elk Grove, 2014. *City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan*. July 2014. https://www.elkgrovecity.org/UserFiles/Servers/Server_109585/File/commissions-committees/Trails/EG_BPTMP_FINAL.pdf. Accessed October 9, 2019.

3.18 Tribal Cultural Resources

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XVIII. TRIBAL CULTURAL RESOURCES —				
a) 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:				
i) 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	☐	☒	☐	☐
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☒	☐	☐

This section relies upon the information and findings presented in the cultural resources technical reports prepared for the Project: *Archaeological Study Report (ASR)/Historic Property Survey Report (HPSR): Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). Environmental Science Associates. June 2019*. These documents contain confidential cultural resource site records, and are therefore are not attached hereto as an appendix. These documents can be made available upon request to persons authorized to view such records.

Environmental Setting

Tribal cultural resources are: 1) sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are listed, or determined to be eligible for listing in the California Register of Historical Resources (CRHR), or local register of historical resources, as defined in PRC § 5020.1(k); or, 2) a resource determined by the lead CEQA agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC § 5024.1(c). For a cultural landscape to be considered a tribal cultural resource, it must be geographically defined in terms of the size and scope of the landscape (PRC § 21074[b]). Also, a historical resource, as defined in PRC § 21084.1, unique archaeological resource, as defined in PRC § 21083.2(g), or non-unique archaeological resource, as defined in PRC § 21083.2(h), may also be a tribal cultural resource.

Native American Correspondence

For compliance with CEQA and Section 106 of the National Historic Preservation Act (NHPA), the City's consultant contacted the State of California Native American Heritage Commission

(NAHC) to request a search of their Sacred Lands File (SLF). The NAHC stated that the SLF has no record of sacred sites in the vicinity of the proposed Project.

Pursuant to Public Resources Code Section 21080.3.1, three traditionally and culturally affiliated California Native American tribes (Ione Band of Miwok Indians, United Auburn Indian Community of the Auburn Rancheria, and Wilton Rancheria) have requested notification of projects in the jurisdiction of the City of Elk Grove. The City contacted each tribe by letter on April 13, 2018, providing a description of the proposed Project, a map of the Project area, and an invitation to respond within 30 days of the request for consultation.

The NAHC provided a list of eight California Native American tribes with cultural affiliation to the general Project vicinity: Buena Vista Rancheria of Me-Wuk Indians, Shingle Springs Band of Miwok Indians, Colfax-Todds Valley Consolidated Tribe, Tsi Akim Maidu, Ione Band of Miwok Indians, Nashville Enterprise Miwok-Maidu-Nishinam Tribe, United Auburn Indian Community of the Auburn Rancheria, and Wilton Rancheria. For the purposes of compliance with Section 106 of the NHPA, the City's consultant sent letters to each tribe on July 2, 2018. The letters provided information on the Project, a map of the Project area, and a request for tribes to respond with any concerns regarding potential impacts to cultural resources. In October 2018, follow-up phone calls, or emails, were also made to each tribe. In October 2018, the City responded to requests from three tribes (Ione Band of Miwok Indians, United Auburn Indian Community of the Auburn Rancheria, and Wilton Rancheria) with updates on the Project, the results of the cultural resources study, and a request that the City facilitate a site visit to provide more Project information. During the outreach efforts, none of the contacted parties identified any specific concerns regarding cultural resources or the potential for the Project to impact cultural resources.

Discussion of Impacts

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in PRC § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC § 5020.1(k)

Less than Significant with Mitigation Incorporated. Through consultation with California Native American tribes, the NAHC, and an NCIC records search, no known tribal cultural resources listed or determined eligible for listing in the California Register of Historical Resources, or included in a local register of historical resources as defined in PRC § 5020.1(k), pursuant to PRC § 21074(a)(1), were identified within the Project area. However, if any previously unidentified resources were identified during Project implementation, particularly during ground-disturbing construction activities, and were found to qualify as a tribal cultural resource pursuant to PRC § 21074(a)(1) (determined to be eligible for listing in the California Register of Historical Resources or in a local register of historical resources), any impacts to the resource resulting from the Project could be potentially significant. Any such potential significant impacts would be reduced to a less than significant level by

implementing mitigation measure **MM CUL-1**. Therefore, the impact would be less than significant with mitigation incorporated.

Mitigation Measure

MM CUL-1: Unanticipated Discovery Protocol for Archaeological Resources and Human Remains. If prehistoric or historic-period archaeological resources are encountered during Project implementation, all construction activities within 100 feet shall halt, and a qualified archaeologist, defined as an archaeologist meeting the U.S. Secretary of the Interior's Professional Qualification Standards for Archeology, shall inspect the find within 24 hours of discovery and notify the City of their initial assessment. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted stones. Historic-period materials might include building or structure footings and walls, and deposits of metal, glass, and/or ceramic refuse.

If the City determines, based on recommendations from a qualified archaeologist and a Native American representative (if the resource is Native American-related), that the resource may qualify as a historical resource or unique archaeological resource (as defined in CEQA Guidelines § 15064.5) or a tribal cultural resource (as defined in PRC § 21080.3), the resource shall be avoided if feasible. If avoidance is not feasible, the City shall consult with appropriate Native American tribes (if the resource is Native American-related), and other appropriate interested parties to determine treatment measures to avoid, minimize, or mitigate any potential impacts to the resource pursuant to PRC § 21083.2, and CEQA Guidelines § 15126.4. This shall include documentation of the resource and may include data recovery (according to PRC § 21083.2), if deemed appropriate, or other actions such as treating the resource with culturally appropriate dignity and protecting the cultural character and integrity of the resource (according to PRC § 21084.3)

In the event of discovery or recognition of any human remains during Project implementation, Project construction activities within 100 feet of the find shall cease until the Sacramento County Coroner has been contacted to determine that no investigation of the cause of death is required. The Coroner shall contact the NAHC within 24 hours if the Coroner determines the remains to be Native American in origin. The NAHC will then identify the person or persons it believes to be the most likely descendant (MLD) from the deceased Native American (PRC § 5097.98), who in turn would make recommendations to the City for the appropriate means of treating the human remains and any associated funerary objects (CEQA Guidelines § 15064.5[d]).

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 PRC § 5024.1(c). In applying the criteria set forth in PRC § 5024.1(c), the lead agency shall consider the significance of the resource to a California Native American tribe.

Less than Significant with Mitigation Incorporated. Through consultation with California Native American tribes, the NAHC, and an NCIC records search, no known tribal cultural

resources listed or determined eligible for listing in the California Register of Historical Resources, or included in a local register of historical resources as defined in PRC § 5020.1(k), pursuant to PRC § 21074(a)(1), were identified within the Project area. However, if any previously unidentified resources were identified during Project implementation, particularly during ground-disturbing construction activities, and were found to qualify as a tribal cultural resource pursuant to PRC § 21074(a)(1) (determined to be eligible for listing in the California Register of Historical Resources or in a local register of historical resources), any impacts to the resource resulting from the Project could be potentially significant. Any such potential significant impacts would be reduced to a less than significant level by implementing mitigation measure **CUL-1**. Therefore, the impact would be less than significant with mitigation incorporated.

Mitigation Measure

MM CUL-1: Unanticipated Discovery Protocol for Archaeological Resources and Human Remains. If prehistoric or historic-period archaeological resources are encountered during Project implementation, all construction activities within 100 feet shall halt, and a qualified archaeologist, defined as an archaeologist meeting the U.S. Secretary of the Interior's Professional Qualification Standards for Archeology, shall inspect the find within 24 hours of discovery and notify the City of their initial assessment. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted stones. Historic-period materials might include building or structure footings and walls, and deposits of metal, glass, and/or ceramic refuse.

If the City determines, based on recommendations from a qualified archaeologist and a Native American representative (if the resource is Native American-related), that the resource may qualify as a historical resource or unique archaeological resource (as defined in CEQA Guidelines § 15064.5) or a tribal cultural resource (as defined in PRC § 21080.3), the resource shall be avoided if feasible. If avoidance is not feasible, the City shall consult with appropriate Native American tribes (if the resource is Native American-related), and other appropriate interested parties to determine treatment measures to avoid, minimize, or mitigate any potential impacts to the resource pursuant to PRC § 21083.2, and CEQA Guidelines § 15126.4. This shall include documentation of the resource and may include data recovery (according to PRC § 21083.2), if deemed appropriate, or other actions such as treating the resource with culturally appropriate dignity and protecting the cultural character and integrity of the resource (according to PRC § 21084.3)

In the event of discovery or recognition of any human remains during Project implementation, Project construction activities within 100 feet of the find shall cease until the Sacramento County Coroner has been contacted to determine that no investigation of the cause of death is required. The Coroner shall contact the NAHC within 24 hours if the Coroner determines the remains to be Native American in origin. The NAHC will then identify the person or persons it believes to be the most likely descendant (MLD) from the deceased Native American (PRC § 5097.98), who in turn would make recommendations to

the City for the appropriate means of treating the human remains and any associated funerary objects (CEQA Guidelines § 15064.5[d]).

References

Environmental Science Associates. 2019. Archaeological Study Report (ASR)/Historic Property Survey Report (HPSR): Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014). June 2019.

3.19 Utilities and Service Systems

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XIX. UTILITIES AND SERVICE SYSTEMS — Would the project:				
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?	☐	☐	☐	☒
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☒	☐
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?	☐	☐	☐	☒
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?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒

Environmental Setting

Water

Water services in the Project area are provided by the Sacramento County Water Agency and the Elk Grove Water District.

Wastewater

Wastewater collection and treatment is provided the Sacramento Regional County Sanitation District (SRCSD) and the Sacramento Regional Wastewater Treatment Plant located near the City. The SRCSD processes approximately 150 million gallons of wastewater daily (MGD) that is then discharged to the Sacramento River (SRCSD 2017). The Project area falls within the Sacramento County Sanitation District 1 service area.

Solid Waste

Solid waste collection services for residential areas in the City are provided by Allied Waste Services of North America, LLC, a subsidiary of Republic Services, Inc. (formerly BFI Waste Services of North America, Inc.) but under an exclusive franchise agreement with the City. Solid waste commercial collection is performed through various franchises. Solid waste collected in the City is generally sent to Kiefer Landfill in Sacramento County, which accepts household waste from the public, business, and private waste haulers. This facility allows for 744 vehicles per day

and 10,815 total tons of refuse per day. The total permitted capacity of the site is 117.4 million cubic yards and is estimated to have 65 years of capacity remaining (Sacramento County 2014).

Electric, Telephone, and Natural Gas Services

Electric service and natural gas is provided to the area by the Sacramento Municipal Utility District (SMUD) and Pacific Gas and Electric Company (PG&E). Overhead electric lines are seen within the Project area. Telephone services in the City are provided by Frontier Communications and Pacific Bell.

Discussion of Impacts

a) Would the project require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

No Impact. Construction and operation of the proposed Project would not generate wastewater requiring wastewater treatment. Therefore, the Project would not require construction of new water or wastewater treatment facilities or require expansion of existing facilities. There would be no impact.

b) Would the project have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

Less than Significant. As a roadway improvements project, no increase in demand for water would occur as a result of the completed Project. Water use for Project construction activities, such as dust control, would be negligible and would not have an adverse impact on available supplies. The impact would be less than significant.

c) Would the project 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?

No Impact. The Project would not generate wastewater or demand the service of a wastewater treatment provider. Therefore, there would be no impact on wastewater treatment capacity.

d) Would the project 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?

Less than Significant. The solid waste generated by the Project would be construction and demolition debris, which would be transported to the Kiefer Landfill, which is expected to have capacity for the next 65 years (CalRecycle, 2019). Once constructed, the Project would not result in the generation of solid waste. Impacts would be less than significant.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

No Impact. The proposed Project would comply with all federal, state, and local statutes and regulations related to solid waste. Specifically, the Project would comply with the California Integrated Waste Management Act of 1989 (AB 939) and the California Solid Waste Re-Use

and Recycling Access Act of 1991 (Section 42900-42911 of the Public Resources Code). Additionally, the Project does not include any components that would result in an increase in solid waste. There would be no impact.

Mitigation Measures

None required.

References

CalRecycle, 2019. SWIS Facility Detail – Sacramento County Landfill (Kiefer) (34-AA-0001). Available: https://www2.calrecycle.ca.gov/swfacilities/Directory/34-AA-0001. Accessed May 7, 2019.

3.20 Wildfire

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XX. WILDFIRE — If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
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?	☐	☐	☐	☒
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?	☐	☐	☐	☒
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?	☐	☐	☐	☒

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, nor is it 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 hazard severity maps produced by CalFire for Local Responsibility Areas, of which the City of Elk Grove is a part, designate no very high fire hazard severity zones within any portion of the City or adjoining areas (CalFire, 2008).

Discussion of Impacts

a) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

No impact. As noted in the criteria listed at the start of this section, analysis of wildfire impacts as specified under Appendix G of the CEQA Guidelines are specific to lands that are located within a State Responsibility Area and/or lands within a designated very high fire hazard severity zone. Since the Project area is not located within a State Responsibility Area or a very high fire hazard severity zone, none of the above criteria are applicable to the proposed Project, and there would therefore be no impact. For an additional evaluation of wildfire impacts, see Section 3.9 of this Initial Study, *Hazards and Hazardous Materials*.

b) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project, 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?

No impact. See the response above to Question (a).

c) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project 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?

No impact. See the response above to Question (a).

d) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project 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?

No impact. See the response above to Question (a).

Mitigation Measures

None required.

References

California Department of Forestry and Fire Protection (CalFire). 2007. Fire Hazard Severity Zones in SRA: Sacramento County. Adopted November 7, 2007. https://osfm.fire.ca.gov/media/6756/fhszs_map34.pdf. Accessed October 10, 2019.

California Department of Forestry and Fire Protection (CalFire). 2008. Very High Fire Hazard Severity Zones in LRA as Recommended by CalFire: Sacramento County. July 31, 2008. https://osfm.fire.ca.gov/media/6758/fhszl_map34.pdf. Accessed October 10, 2019.

3.21 Mandatory Findings of Significance

Issues (and Supporting Information Sources):	*Potentially Significant Impact*	*Less Than Significant with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
XXI. MANDATORY FINDINGS OF SIGNIFICANCE —				
a) Does the project have the potential to substantially 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?	☐	☒	☐	☐
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)?	☐	☐	☒	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

Discussion of Impacts

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Less than Significant with Mitigation Incorporated. Per the impact discussions throughout this IS/MND in subsections 3.1 through 3.20, the potential of the proposed Project to substantially degrade the environment is less than significant with incorporated mitigation measures.

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)?

Less than Significant. As described in previous discussions, the Project would result in several potentially significant Project-level impacts. However, in all cases, mitigation measures have been identified that would reduce these impacts to less-than-significant levels.

The primary objective of the Project is to reconstruct and rehabilitate Waterman Road between Bond Road and Grant Line Road, and a portion of Elk Grove Florin Road between Elk Grove Boulevard and Valley Oak Lane, to improve pedestrian and cyclist safety. The impacts of the Project are mitigated to a less-than-significant level, mostly limited to the construction phase, and generally site specific. No other projects are proposed that would

overlap or interact with the proposed Project. The cumulative impact of the proposed Project is less than significant.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less than Significant with Mitigation Incorporated. As discussed in Section 3.1 through 3.20 of this Initial Study, the Project would not cause substantial adverse effects on human beings, nor would the Project result in any significant and unavoidable impacts as any potential significant impact identified herein would be mitigated to a less than significant level. Mitigation measures recommended are summarized in Chapter 4.1 of this Initial Study. All impacts would be less than significant, with mitigation incorporated, as applicable.

Mitigation Measures

None required.

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CHAPTER 4
List of Mitigation Measures

4.1 Summary of Mitigation Measures

Air Quality

MM AQ-1: The following Basic Construction Emissions Control Practices are considered feasible for controlling fugitive dust from a construction site.

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

- Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads.
- Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose materials 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 (mph).
- All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.

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

- 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.
- Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated.

Biological Resources (Section 3.4)

MM BIO-1: Restrict Ground-disturbing Activities to the Dry Season (Between April 15 and October 15). All ground-disturbing activities associated with construction of the Project shall be restricted to the dry season (between approximately April 15 and October 15) to avoid the period when special-status species (vernal pool fairy shrimp, vernal pool tadpole shrimp, and western spadefoot) could be breeding. If construction would need to continue past October 15, the City or its designated representative shall request an authorization from USFWS to extend the work period.

Timing/Implementation: During Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-2: Conduct a Preconstruction Survey for Western Spadefoot. No more than 48 hours prior to construction, preconstruction surveys for western spadefoot shall be conducted within the PIA. If western spadefoot are observed within the PIA, work shall stop until the animal voluntarily leaves the area.

Timing/Implementation: Prior to Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-3: Measures to Protect Burrowing Owl. Prior to construction, pre-construction surveys shall be conducted by a qualified biologist to determine presence/absence of burrowing owls and/or occupied burrows in and within 500 feet of the PIA according to the CDFW's Staff Report on Burrowing Owls (CDFW 2012). A winter survey shall be conducted between December 1 and January 31 and a nesting survey shall be conducted between April 15 and July 15. Preconstruction surveys shall also be conducted within 30 days prior to construction to ensure that no additional burrowing owls have established territories since the initial surveys. If no burrowing owls are found during any of the surveys, no further mitigation will be necessary. If burrowing owls are found, then the following measures shall be implemented prior to the commencement of construction:

- During the non-breeding season (September 1 through January 31) burrowing owls occupying the BSA should be evicted from the BSA by passive relocation as described in the California Department of Fish and Wildlife's Staff Report on Burrowing Owls (March 2012).
- During the breeding season (February 1 through August 31) occupied burrows shall not be disturbed and shall be provided with a 250-foot protective buffer unless a qualified biologist approved by CDFW verifies through non-invasive means that either: 1) the birds have not begun egg laying, or 2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. Once the fledglings are capable of independent survival, the burrow can be destroyed.
- If a burrowing owl or active nest is discovered before or during construction the biologist shall notify a CDFW representative.

- A worker education and awareness program should be provided to all on-site personnel by a qualified biologist before the commencement of materials staging or ground disturbing activities. The biologist should explain to construction workers how best to avoid impacts to burrowing owl and should include topics on species identification, life history, descriptions, and habitat requirements during various life stages. Handouts, illustrations, photographs, and Project mapping showing areas where minimization and avoidance measures can be included as part of this education program. The program shall increase the awareness of site workers about existing federal and state laws regarding endangered species as well as increase their compliance with conditions and requirements of resource agencies.

Timing/Implementation: Prior to and during Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-4: Conduct a Preconstruction Nesting Migratory Bird and Raptor Survey and Establish No-disturbance Buffers, if Necessary. If construction (including equipment staging and tree removal) will occur during the breeding season for migratory birds and raptors (generally between February 1 and August 31), the City shall retain a qualified biologist to conduct a preconstruction nesting bird and raptor survey before the onset of construction activities. The preconstruction nesting bird and raptor surveys shall be conducted between February 1 and August 31 within suitable habitat at the Project area. The minimum survey radii surrounding the work area shall be as follows, to the extent practicable where City right-of-way and access rights are available: 1) 250 feet for passerines; 2) 500 feet for small raptors such as accipiters; 3) 1,000 feet for larger raptors such as buteos; and 4) 0.25 mile for raptors in proximity to Segment 1 Project areas near Laguna Creek~~. Surveys for raptor nests should also extend 250 feet from the Project area~~ to ensure that nesting raptors are not indirectly affected by construction noise. The survey shall be conducted no more than 30 days before the initiation of construction activities. If no active nests are detected during the survey, no additional mitigation is required and construction can proceed.

If migratory birds or raptors are found to be nesting in or adjacent to the Project area, a 250-foot no-disturbance buffer shall be established around raptor nests and a 50-foot buffer around non-raptor nests to avoid disturbance of the nest area and to avoid take. The buffer shall be maintained around the nest area until the end of the breeding season or until a qualified biologist determines that, the young have fledged and are foraging on their own. The extent of these buffers shall be determined by the biologist (coordinating with the CDFW) and shall depend on the species identified, level of noise or construction disturbance, line of sight between the nest and the disturbance, ambient levels of noise and other disturbances, and other topographical or artificial barriers.

Timing/Implementation: Prior to Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-5: Preserve CDFW-approved Foraging Habitat for Swainson's Hawk at a 1:1 Ratio for Permanent Impacts or Submit Payment of a Swainson's Hawk Impact Mitigation

Fee to the City of Elk Grove. To compensate for permanent loss of Swainson's hawk foraging habitat, the Project shall follow the City's Swainson's Hawk Mitigation Fee program. Per the program, approved property must be acquired, or a mitigation fee paid to the City prior to the start of construction, as described in Chapter 16.130 of the Elk Grove Municipal Code ~~(City 2018b)~~ or City's existing bank.

Timing/Implementation: Prior to Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-6: Implement Erosion Control. An erosion control barrier shall be placed on the outer edge of the new roadside ditch alignment along Waterman Road from approximately 700 feet south of Bond Road to Rancho Drive. The barrier shall not be keyed into the ground (no trench shall be excavated for the barrier), and construction of the ditches shall be performed from the road to avoid ground disturbance beyond the new roadside ditch.

Timing/Implementation: Prior to and during Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-7: Conduct Environmental Awareness Training. Before any work occurs in the PIA, including grading and equipment staging, all construction personnel shall participate in an environmental awareness training regarding special-status species and sensitive habitats present in the BSA. If new construction personnel are added to the Project, they must receive the mandatory training before starting work. As part of the training, an environmental awareness handout shall be provided to all personnel that describe and illustrates sensitive resources to be avoided during Project construction. This would include avoiding waters of the U.S. outside the PIA.

Timing/Implementation: Prior to and during Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-8: Install Temporary Barrier Fencing, and/or Flagging to Protect Environmentally Sensitive Habitat Areas. Before any ground-disturbing activity occurs within the PIA, the City shall ensure that temporary orange barrier fencing is installed around the PIA adjacent to sensitive habitat areas to be avoided, as appropriate. Construction personnel and construction activities shall avoid areas outside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality.

The fencing material shall consist of temporary plastic mesh-type construction fence (Tensor Polygrid or equivalent) installed between the work area and environmentally sensitive habitat areas (i.e., waters of the U.S., special-status wildlife habitat, active bird nests), as appropriate, and shall meet Caltrans standards and specifications. To minimize potential ground disturbance, the base of the fencing shall not be buried or keyed-in.

Installation of the barrier fence shall occur under the supervision of a qualified biologist. The temporary orange barrier fencing shall also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP or Water Pollution Control Plan (WPCP). The fencing shall be shown on the final construction documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer shall be established, where no construction activities (i.e., vehicle traffic or equipment operation) shall occur outside the outer boundaries of the roadside ditches that will be excavated as part of the Project.

Timing/Implementation: Prior to and during Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-9: Conduct Weekly Monitoring Visits. A representative from the City shall make periodic monitoring visits to construction areas occurring in or adjacent to environmentally sensitive habitat areas. The construction contract shall specify that the construction contractor shall maintain the fencing/flagging protecting sensitive biological resources. Additionally, the City shall utilize a qualified biologist on-call to assist the City and the construction crew in complying with all Project implementation restrictions and guidelines as needed.

Timing/Implementation: During Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-10: Implement Best Management Practices to Protect Water Quality. The City shall require that the construction contractor implement the following BMPs to protect water quality of waters of the U.S. adjacent to the PIA.

- Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally between April 15 and October 15) when all jurisdictional features (with the exception of Laguna Creek) adjacent to the PIA are anticipated to be dry.
- Install fiber rolls, or other equivalent erosion and sediment control measures between the PIA and waters of the U.S., as necessary, to ensure that construction debris and sediment does not inadvertently enter these features. All areas of exposed soil shall be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition, in order to minimize ground disturbance, fiber rolls or other equivalent control measures shall not be keyed-in or buried.
- Immediately after Project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix and planting native plants.
- Fiber rolls, or other equivalent erosion and sediment control measures shall not be removed from the PIA until vegetation has reestablished within all temporarily-impacted areas to at least 70 percent of pre-project vegetation cover conditions or better.

- No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of waters of the U.S.
- All machinery used during construction of the Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water.
- Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations.
- Implement construction vehicle track-out controls. Restrict vehicle use to properly designated exit points and wherever construction vehicle entry/exit points intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road prior to the use of these access points.
- Before any ground-disturbing activities, the City or its designee shall prepare and implement a SWPPP (as required under the SWRCB's General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]) or a WPCP, as applicable, that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after Project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP shall be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat.
- The SWPPP shall be prepared with the following objectives: (a) to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the Project; (b) to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction; (c) to outline and provide guidance for BMP monitoring; (d) to identify Project discharge points and receiving waters; (e) to address post-construction BMP implementation and monitoring; and (f) to address sedimentation, siltation, and turbidity.

Timing/Implementation: Prior to and during Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-11: No Off-road Vehicle or Equipment Activity Outside of Construction Footprint. To reduce the likelihood of soil and vegetation disturbance outside of the PIA, which could impact water quality and hydrology for adjacent waters of the U.S. and special-status species habitats, no vehicle traffic or heavy equipment activity shall occur outside of the PIA/construction buffer, defined as the maximum area of permanent ground disturbance (i.e., area of roadway construction and the new ditches areas of excavation).

Timing/Implementation: During Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-12: Conduct Pre-Construction Tree Survey. Prior to construction, an International Society of Arboriculture Certified Arborist shall conduct a tree survey to document all trees within the PIA. The survey shall also determine which trees in the PIA will need to be removed, which trees can be protected in place, and which trees could be trimmed rather than removed.

Timing/Implementation: Prior to Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-13: Mitigate for Impacts to Protected Trees. Mitigation for the removal of protected trees is required. The City would be responsible for implementing the mitigation and would abide by the measures outlined in Article IV (Mitigation for Tree Loss) of Chapter 19.12 (Tree Preservation and Protection) of the City of Elk Grove Municipal Code. Mitigation would include one of the following options: 1) On-site or off-site replacement; 2) Payment of an in-lieu fee; or 3) credit for existing trees.

Timing/Implementation: Prior to Construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

Cultural Resources (Section 3.5)

MM CUL-1: Unanticipated Discovery Protocol for Archaeological Resources and Human Remains. If prehistoric or historic-period archaeological resources are encountered during Project implementation, all construction activities within 100 feet shall halt, and a qualified archaeologist, defined as an archaeologist meeting the U.S. Secretary of the Interior's Professional Qualification Standards for Archeology, shall inspect the find within 24 hours of discovery and notify the City of their initial assessment. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted stones. Historic-period materials might include building or structure footings and walls, and deposits of metal, glass, and/or ceramic refuse.

If the City determines, based on recommendations from a qualified archaeologist and a Native American representative (if the resource is Native American-related), that the resource may qualify as a historical resource or unique archaeological resource (as defined in CEQA Guidelines § 15064.5) or a tribal cultural resource (as defined in PRC § 21080.3), the resource shall be avoided if feasible. If avoidance is not feasible, the City shall consult with appropriate Native American tribes (if the resource is Native American-related), and other appropriate interested parties to determine treatment measures to avoid, minimize, or mitigate any potential impacts to the resource pursuant to PRC § 21083.2, and CEQA Guidelines § 15126.4. This shall include documentation of the resource and may include data recovery (according to PRC § 21083.2), if deemed appropriate, or other actions such as treating the resource with culturally appropriate dignity and protecting the cultural character and integrity of the resource (according to PRC § 21084.3).

In the event of discovery or recognition of any human remains during Project implementation, Project construction activities within 100 feet of the find shall cease until the Sacramento County Coroner has been contacted to determine that no investigation of the cause of death is required. The Coroner shall contact the NAHC within 24 hours if the Coroner determines the remains to be Native American in origin. The NAHC will then identify the person or persons it believes to be the most likely descendant (MLD) from the deceased Native American (PRC § 5097.98), who in turn would make recommendations to the City for the appropriate means of treating the human remains and any associated funerary objects (CEQA Guidelines § 15064.5[d]).

Timing/Implementation: During construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

Hazards and Hazardous Materials

MM HAZ-1: The City or its designated construction contractor shall conduct an aerially deposited lead (ADL) study in accordance with Caltrans and DTSC regulations prior to construction. The results shall inform the Project as to the appropriate management of soil in those areas that would be disturbed, in accordance with established regulatory standards. This measure shall apply to those portions of Segments 1 through 7 that do not have sidewalks, curbs, and gutters adjacent to the existing paved roadways, and shall apply only to those uncovered areas that would be disturbed as part of Project implementation.

MM HAZ-2: The selected construction contractor shall prepare for City approval a Construction Area Traffic Control Plan conforming to the requirements of Section 12 of the City's Standard Construction Specifications.

Timing/Implementation: Prior to and during construction

Enforcement/Monitoring: City of Elk Grove Public Works Department

Hydrology and Water Quality (Section 3.10)

MM HWQ-1: Ongoing yearly maintenance activities / BMPs shall include:

- Spot removal of sediment and other debris blocking the drainage ditches;
- Cleaning debris from culvert entrances and inlets;
- Monitoring sediment buildup and removal of sediment if sediment begins to impede culverts or other waterways;
- Monitoring culvert outlets for excessive erosion and repairing as necessary with rock slope protection (riprap), erosion control blankets, or turf reinforcement mats.
- Assess and revise, as necessary, these annual maintenance activities to ensure the effectiveness of drainage as designed.

Timing/Implementation: Annually for Three Years Following Construction.

Enforcement/Monitoring: City of Elk Grove Public Works Department

MM BIO-8: Install Temporary Barrier Fencing, and/or Flagging to Protect Environmentally Sensitive Habitat Areas. Before any ground-disturbing activity occurs within the PIA, the City shall ensure that temporary orange barrier fencing is installed around the PIA adjacent to sensitive habitat areas to be avoided, as appropriate. Construction personnel and construction activities shall avoid areas outside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality.

The fencing material will consist of temporary plastic mesh-type construction fence (Tensor Polygrid or equivalent) installed between the work area and environmentally sensitive habitat areas (i.e., waters of the U.S., special-status wildlife habitat, active bird nests), as appropriate, and will meet Caltrans standards and specifications. To minimize potential ground disturbance, the base of the fencing will not be buried or keyed-in.

Installation of the barrier fence will occur under the supervision of a qualified biologist. The temporary orange barrier fencing will also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP or Water Pollution Control Plan (WPCP). The fencing shall be shown on the final construction documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer will be established, where no construction activities (i.e., vehicle traffic or equipment operation) will occur outside the outer boundaries of the roadside ditches that will be excavated as part of the Project.

MM BIO-10: Implement Best Management Practices to Protect Water Quality. The City shall require that the construction contractor implement the following BMPs to protect water quality of waters of the U.S. adjacent to the PIA.

- Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally between April 15 and October 15) when all jurisdictional features (with the exception of Laguna Creek) adjacent to the PIA are anticipated to be dry.
- Install fiber rolls, or other equivalent erosion and sediment control measures between the PIA and waters of the U.S., as necessary, to ensure that construction debris and sediment does not inadvertently enter these features. All areas of exposed soil will be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition, in order to minimize ground disturbance, fiber rolls or other equivalent control measures will not be keyed-in or buried.
- Immediately after Project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix and planting native plants.
- Fiber rolls, or other equivalent erosion and sediment control measures will not be removed from the PIA until vegetation has reestablished within all temporarily-

impacted areas to at least 70 percent of pre-project vegetation cover conditions or better.

- No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of waters of the U.S.
- All machinery used during construction of the Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water.
- Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations.
- Implement construction vehicle track-out controls. Restrict vehicle use to properly designated exit points and wherever construction vehicle entry/exit points intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road prior to the use of these access points.
- Before any ground-disturbing activities, the City or its designee shall prepare and implement a SWPPP (as required under the SWRCB's General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]) or a WPCP, as applicable, that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after Project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP will be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat.
- The SWPPP shall be prepared with the following objectives: (a) to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the Project; (b) to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction; (c) to outline and provide guidance for BMP monitoring; (d) to identify Project discharge points and receiving waters; (e) to address post-construction BMP implementation and monitoring; and (f) to address sedimentation, siltation, and turbidity.

Tribal Cultural Resources (Section 3.18)

MM CUL-1: Unanticipated Discovery Protocol for Archaeological Resources and Human Remains. If prehistoric or historic-period archaeological resources are encountered during Project implementation, all construction activities within 100 feet shall halt, and a qualified archaeologist, defined as an archaeologist meeting the U.S. Secretary of the Interior's Professional Qualification Standards for Archeology, shall inspect the find within 24 hours of discovery and notify the City of their initial assessment. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and

pitted stones. Historic-period materials might include building or structure footings and walls, and deposits of metal, glass, and/or ceramic refuse.

If the City determines, based on recommendations from a qualified archaeologist and a Native American representative (if the resource is Native American-related), that the resource may qualify as a historical resource or unique archaeological resource (as defined in CEQA Guidelines § 15064.5) or a tribal cultural resource (as defined in PRC § 21080.3), the resource shall be avoided if feasible. If avoidance is not feasible, the City shall consult with appropriate Native American tribes (if the resource is Native American-related), and other appropriate interested parties to determine treatment measures to avoid, minimize, or mitigate any potential impacts to the resource pursuant to PRC § 21083.2, and CEQA Guidelines § 15126.4. This shall include documentation of the resource and may include data recovery (according to PRC § 21083.2), if deemed appropriate, or other actions such as treating the resource with culturally appropriate dignity and protecting the cultural character and integrity of the resource (according to PRC § 21084.3)

In the event of discovery or recognition of any human remains during Project implementation, Project construction activities within 100 feet of the find shall cease until the Sacramento County Coroner has been contacted to determine that no investigation of the cause of death is required. The Coroner shall contact the NAHC within 24 hours if the Coroner determines the remains to be Native American in origin. The NAHC will then identify the person or persons it believes to be the most likely descendant (MLD) from the deceased Native American (PRC § 5097.98), who in turn would make recommendations to the City for the appropriate means of treating the human remains and any associated funerary objects (CEQA Guidelines § 15064.5[d]).

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CHAPTER 5
List of Preparers

City of Elk Grove Public Works Department

Robert Murdoch	Public Works Director
Kevin Bewsey, PE	Capital Program Division Manager
Kristin Parsons, PE	Senior Civil Engineer

City of Elk Grove, Other

Michael Karoly, PE	Project Manager

Consultants

Bennett Engineering

Leo Rubio, P.E.	Senior Project Engineer
Carlton Allen, P.E.	Project Engineer

Environmental Science Associates (ESA)

Luke Evans	Environmental Project Manager
Joshua Boldt	Senior Biologist
Gerrit Platenkamp	Biological Program Manager
Robin Hoffman	Principal Investigator/ Senior Archaeologist
Matthew Russell	Cultural Resources Program Manager
Heidi Koenig	Senior Archaeologist
Stan Armstrong	Noise/Air Quality/GHG Specialist
Tim Rimpo	Senior Air Quality/GHG Review
Chris Sanchez	Senior Noise Review
Elizabeth Boyd	Visual Impact Technical Memorandum
Eryn Pimentel	GIS
James Songco	Graphics
Lisa Bautista	Word Processing/Document Production
Kristine Olsen	Word Processing/Document Production

Logan Sakai	Word Processing/Document Production
Anthony Padilla	Document Production

CHAPTER 6
List of Acronyms

AB	Assembly Bill
ARB	California Air Resources Board
AWE	Area West Environmental, Inc.
BA	Biological Assessment
BACT	Best Available Control Technology
BMP	Best Management Practices
BO	Section 7 Biological Opinion
BSA	Biological Study Area
C-APE	CEQA Area of Potential Effects
Cal-EPA	California Environmental Protection Agency
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CAAQS	California ambient air quality standards
CAP	Climate Action Plan
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CDWR	California Department of Water Resources
CDTSC	California Department of Toxic Substances Control
CE	Categorical Exclusion
CEQA	California Environmental Quality Act
CFR	California Code of Regulations
CGS	California Geological Survey
CHRIS	California Historical Resources Information System
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide

Code	Elk Grove Municipal Code
CRHR	California Register of Historical Resources
CRPR	California Rare Plant Rank
CSD	Cosumnes Community Services District
CUPA	Certified Unified Program Agency
CVRWQCB	Central Valley Regional Water Quality Control Board
CWA	Clean Water Act
dB	decibels
dBA	A-weighted decibels
DPM	diesel particulate matter
EIR	environmental impact report
EMD	Environmental Management Department
EOP	County of Sacramento Emergency Operations Plan
EPA	U.S. Environmental Protection Agency
ESA	Environmental Science Associates
FCAA	Federal Clean Air Act
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
FMMP	Farmland Mapping & Monitoring Program
FR	Federal Register
FTA	Federal Transit Administration
GHG	Greenhouse Gas
GPS	Global Positioning System
H_2S	hydrogen sulfide
HMP	Hazardous Materials Business Plan
HPSR	Historic Property Survey Report
HUC	Hydrologic Unit Code
IS/MND	Initial Study/Mitigated Negative Declaration
L_{dn}	day-night average sound level
L_{eq}	equivalent sound level
L_{max}	maximum noise level
MGD	million gallons of wastewater daily
MLD	most likely descendant

MM	Mitigation Measure
MMRP	Mitigation, Monitoring, and Reporting Program
MRZ	Mineral Resource Zones
msl	mean sea level
MTP/SCS	*Metropolitan Transportation Plan/Sustainable Communities Strategy*
NAAQS	National ambient air quality standards
NAHC	State of California Native American Heritage Commission
NCIC	North Central Information Center
ND	Negative Declaration
NEPA	National Environmental Policy Act
NES	Natural Environment Study
NIMS	National Incident Management System
NO_2	nitrogen dioxide
NO_X	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
O_3	ozone
OEHHA	Office of Environmental Health Hazard Assessment
OES	California Department of Emergency Services
OSHA	Occupational Safety and Health Administration
PB	lead
PG&E	Pacific Gas and Electric Company
PM_{10}	10 microns in diameter
$PM_{2.5}$	2.5 microns in diameter
PPV	peak particle velocity
PRC	Public Resources Code
PTE	Permit to Enter
RAC	Rubberized Asphalt Concrete
RMS	root mean square
ROG	reactive organic gases
ROW	right-of-way
RWQCB	Regional Water Quality Control Board
SACOG	Sacramento Area Council of Governments
SB	Senate Bill
SC	Shopping Center

SCARI	Six County Aquatic Resource Inventory
SEMS	Standardized Emergency Management System
SIP	State Implementation Plan
SLF	Sacred Lands File
SMAQMD	Sacramento Metropolitan Air Pollution Management District
SMARA	Surface Mining and Reclamation Act of 1975
SMUD	Sacramento Municipal Utility District
SO_2	sulfur dioxide
SPASP	Special Planning Area/Specific Plan
SR	State Route
SRCSD	Sacramento Regional County Sanitation District
SVAB	Sacramento County in the Sacramento Valley Air Basin
SVP	Society of Vertebrate Paleontology
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminants
UCMP	University of California Museum of Paleontology
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	United States Geological Survey
USTS	Underground storage of hazardous substances
VHFHSZ	Very High Fire Hazard Severity Zones
VMT	vehicle-miles travelled
VRP	visibility reducing particles
WAPA	Western Area Power Administration
WPCP	Water Pollution Control Plan

Appendix A

Preliminary Environmental Study

ESA

RECEIVED
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ENVIRONMENTAL

EXHIBIT 6-A PRELIMINARY ENVIRONMENTAL STUDY (PES)

Federal Project No.: RPSTPL 5479(060) *(Federal Program Prefix-Project No., Agreement No.)* **Final Design:** 2019 *(Expected Start Date)*

To:	Cindy Root *(District Local Assistance Engineer)*	**From:**	City of Elk Grove *(Local Agency)*
	District 3, Office of Local Assistance *(District)*		Kristin Parsons, (916) 478-2236 *(Project Manager's Name and Telephone No.)*
	703 B Street, Marysville, CA 95901 *(Address)*		8401 Laguna Palms Way, Elk Grove, CA 95758 *(Address)*
	Cindy.Root@dot.ca.gov *(Email Address)*		KParsons@elkgrovecity.org *(Email Address)*

Is this Project "ON" the State Highway System? ☐ Yes ☒ No **IF YES, STOP HERE** and contact the District Local Assistance Engineer regarding the completion of other environmental documentation.

Federal State Transportation Improvement Program (FSTIP) November 15, 2017 *(Currently Adopted Plan Date)* 36 of 95 *(Page No.___ attach to this form)*

http://www.dot.ca.gov/hq/transprog/oftmp.htm

Programming for FSTIP:	**Preliminary Engineering**		**Right of Way**		**Construction**	
	___ *(Fiscal Year)*	$ 0 *(Dollars)*	___ *(Fiscal Year)*	$ 0 *(Dollars)*	2019 *(Fiscal Year)*	$ 3,443,000 *(Dollars)*

Project Description as Shown in RTP and FSTIP: SACOG ID: SAC25011. In Elk Grove, on segments of Waterman Rd from Bond to Elk Grove Blvd, on Waterman Road from Kent Street to Grant Line Road, and on Elk Grove Florin Road from Elk Grove Blvd to Valley Oak, minor shoulder improvements and Class II bike lanes.

Detailed Project Description: *(Describe the following, as applicable: purpose and need, project location and limits, required right of way acquisition, proposed facilities, staging areas, disposal and borrow sites, construction activities, and construction access.)*
The City of Elk Grove proposes to reconstruct, rehabilitate and provide bicycle lanes in each direction along segments of Waterman Road, Elk Grove Florin Road, ~~and Elk Grove Blvd~~ in the City of Elk Grove. The proposed roadways are being modified to accommodate one travel lane in each direction and bicycle lanes in each direction. (continued)
(Continue description on "Notes" sheet, last page of this Exhibit, if necessary)

Preliminary Design Information:
Does the project involve any of the following? Please check the appropriate boxes and delineate on an attached map, plan, or layout including any additional pertinent information.

Yes	No		Yes	No		Yes	No	
☒	☐	Widen existing roadway	☒	☐	Ground disturbance	☐	☒	Easements
☐	☒	Increase number of through lanes	☒	☐	Road cut/fill	☒	☐	Equipment staging
☐	☒	New alignment	☒	☐	Excavation: anticipated maximum depth 6 ft	☐	☒	Temporary access road/detour
☐	☒	Capacity increasing—other (e.g., channelization)				☒	☐	Utility relocation
			☒	☐	Drainage/culverts	☒	☐	Right of way acquisition (if yes, attach map with APN)
☐	☒	Realignment	☐	☒	Flooding protection			
☐	☒	Ramp or street closure	☐	☒	Stream channel work	☐	☒	Disposal/borrow sites
☐	☒	Bridge work	☐	☒	Pile driving	☐	☒	Part of larger adjacent project
☒	☐	Vegetation removal						
☒	☐	Tree removal	☐	☒	Demolition	☐	☒	Railroad

Required Attachments:

☒ Regional map ☒ Project location map ☒ Project footprint map (existing/proposed right of way)

☐ Engineering drawings (existing and proposed cross sections), if available ☐ Borrow/disposal site location map, if applicable
(Note: all maps (except project location map and regional maps) should be consistent with the project description (minimum scale: 1" = 200').)

☒ GeoTracker Printout for Hazardous Materials (http://geotracker.waterboards.ca.gov/).

☒ Federal Threatened and Endangered Species List from USFWS (http://ecos.fws.gov/ipac/).

☒ Federal Threatened and Endangered Species List from NMFS (http://www.westcoast.fisheries.noaa.gov/maps/data/california species listtools.html).

☐ Current Photos of Project Site ☒ FEMA map ☒ VIA Questionnaire

Examine the project for potential effects on the environment, direct or indirect and answer the following questions. The "construction area," as specified below, includes all areas of ground disturbance associated with the project, including staging and stockpiling areas and temporary access roads.

Each answer must be briefly documented on the "Notes" pages at the end of the PES Form.

A. Potential Environmental Effects	Yes	To Be Determined	No
General			
1. Will the project require future construction to fully utilize the design capabilities included in the proposed project?	☐	☐	☒
2. Will the project generate public controversy?	☐	☐	☒
Noise			
3. Is the project a Type I project as defined in 23 CFR 772.5(h): "construction on new location or the physical alteration of an existing highway, which significantly changes either the horizontal or vertical alignment or increases the number of through-traffic lanes"?	☐	☐	☒
4. Does the project have the potential for adverse construction-related noise impact (such as related to pile driving)?	☐	☒	☐
Air Quality			
5. Is the project in a NAAQS non-attainment or maintenance area?	☒	☐	☐
6. Is the project exempt from the requirement that a conformity determination be made? (If "Yes," state which conformity exemption in 40 CFR 93.126, Table 2 applies): Pavement resurfacing and/or rehabilitation	☒	☐	☐
7. Is the project exempt from regional conformity? (If "Yes," state which conformity exemption in 40 CFR 93.127, Table 3 applies): See above; Exempt under 40 CFR 93.126	☒	☐	☐
8. If project is not exempt from regional conformity, (If "No" on Question #7)			
Is project in a metropolitan non-attainment/maintenance area?	☐	☐	☐
Is project in an isolated rural non-attainment area?	☐	☐	☐
Is project in a CO, PM10 and/or PM2.5 non-attainment/maintenance area?	☐	☐	☐
Hazardous Materials/Hazardous Waste			
9. Is there potential for hazardous materials (including underground or aboveground tanks, etc.) or hazardous waste (including oil/water separators, waste oil, asbestos-containing material, lead-based paint, ADL, etc.) within or immediately adjacent to the construction area?	☒	☐	☒
Water Quality/Resources			
10. Does the project have the potential to impact water resources (rivers, streams, bays, inlets, lakes, drainage sloughs) within or immediately adjacent to the project area?	☐	☒	☐

11. Is the project within a designated sole-source aquifer?	☐	☐	☒
Coastal Zone			
12. Is the project within the State Coastal Zone, San Francisco Bay, or Suisun Marsh?	☐	☐	☒
Floodplain			
13. Is the construction area located within a regulatory floodway or within the base floodplain (100-year) elevation of a watercourse or lake?	☒	☐	☐
Wild and Scenic Rivers			
14. Is the project within or immediately adjacent to a Wild and Scenic River System?	☐	☐	☒
Biological Resources			
15. Is there a potential for federally listed threatened or endangered species, or their critical habitat or essential fish habitat to occur within or adjacent to the construction area?	☒	☐	☐
16. Does the project have the potential to directly or indirectly affect migratory birds, or their nests or eggs (such as vegetation removal, box culvert replacement/repair, bridge work, etc.)?	☒	☐	☐
17. Is there a potential for wetlands to occur within or adjacent to the construction area?	☒	☐	☐
18. Is there a potential for agricultural wetlands to occur within or adjacent to the construction area?	☐	☐	☒
19. Is there a potential for the introduction or spread of invasive plant species?	☐	☐	☒
Sections 4(f) and 6(f)			
20. Are there any historic sites or publicly owned public parks, recreation areas, wildlife or waterfowl refuges (Section 4[f]) within or immediately adjacent to the construction area?	☐	☐	☒
21. Does the project have the potential to affect properties acquired or improved with Land and Water Conservation Fund Act (Section 6[f]) funds?	☐	☐	☒
Visual Resources			
22. Does the project have the potential to affect any visual or scenic resources?	☐	☒	☒
Relocation Impacts			
23. Will the project require the relocation of residential or business properties?	☐	☐	☒
Land Use, Community, and Farmland Impacts			
24. Will the project require any right of way, including partial or full takes? Consider construction easements and utility relocations.	☐	☒	☐
25. Is the project inconsistent with plans and goals adopted by the community?	☐	☐	☒
26. Does the project have the potential to divide or disrupt neighborhoods/communities?	☐	☐	☒
27. Does the project have the potential to disproportionately affect low-income and minority populations?	☐	☐	☒
28. Will the project require the relocation of public utilities?	☒	☐	☐
29. Will the project affect access to properties or roadways?	☐	☐	☒
30. Will the project involve changes in access control to the State Highway System (SHS)?	☐	☐	☒
31. Will the project involve the use of a temporary road, detour, or ramp closure?	☐	☐	☒
32. Will the project reduce available parking?	☐	☐	☒
33. Will the project construction encroach on state or federal lands?	☐	☐	☒
34. Will the project convert any farmland to a different use or impact any farmlands?	☐	☐	☒
Cultural Resources			
35. Is there National Register listed, or potentially eligible historic properties, or archaeological resources within or immediately adjacent to the construction area? *(Note: Caltrans PQS answers question #35)*	☐	☒	☐ LM 5/10/18
36. Is the project adjacent to, or would it encroach on Tribal land?	☐	☐	☒

For Sections B, C, and D, check appropriate box to indicate required technical studies, coordination, permits, or approvals.

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/Approvals
☐ **Traffic**		
Check one:		
☐ Traffic Study	☐ Caltrans	☐ Approval
☐ Technical Memorandum	☐ Caltrans	☐ Approval
☐ Discussion in ED Only	☐ Caltrans	☐ Approval
☒ **Noise**		
Check as applicable:		
☐ Traffic Related		
☒ Construction Related		
Check one:		
☐ Noise Study Report	☐ Caltrans	☐ Approval
☐ NADR	☐ Caltrans	☐ Approval
☒ Technical Memorandum	☒ Caltrans	☒ Approval
☐ Discussion in ED Only	☐ Caltrans	☐ Approval
☒ **Air Quality**		
Check as applicable:	Air Quality Conformity Analysis Annotated Outline	
☒ Traffic Related		
☒ Construction Related		
Check one:		
☒ Air Quality Report	☒ Caltrans	☒ Approval
☐ Technical Memorandum	☐ Caltrans	☐ Approval
☐ Discussion in ED Only	☐ Caltrans	☐ Approval
	☐ FHWA	☐ Conformity Finding (23 USC 327 CEs, EAs, EISs)
	☒ Caltrans	☒ Conformity Finding (23 USC 326 CEs)
	☐ Regional Agency	☒ PM10/PM2.5 Interagency Consultation
☒ **Hazardous Materials/ Hazardous Waste**		
Check as applicable:		
☒ Initial Site Assessment (Phase 1)	☒ Caltrans	☒ Approval
☒ Preliminary Site Assessment (Phase 2)	☒ Caltrans	☒ Approval
☐ Discussion in ED Only	☐ Caltrans	☐ Approval
	☐ Cal EPA DTSC	☐ Review Database
	☐ Local Agency	☐ Review Database
☒ **Water Quality/Resources**		
Check as applicable:		
☐ Water Quality Assess. Report	☐ Caltrans	☐ Approval
☒ Technical Memorandum	☒ Caltrans	☒ Approval
☐ Discussion in ED Only	☐ Caltrans	☐ Approval
☐ **Sole-Source Aquifer (Districts 5, 6 and 11)**	☐ EPA (S.F. Regional Office)	☐ Approval of Analysis in ED
☐ **Coastal Zone**	☐ CCC	☐ Coastal Zone Consistency Determination

JL

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/Approvals
☐ **Floodplain**		
Check as applicable:		
☐ Location Hydraulic Study	☐ Caltrans	☐ Approval
☐ Floodplain Evaluation Report	☐ Caltrans	☐ Approval
☐ Summary Floodplain Encroachment Report	☐ Caltrans	☐ Approval
	☐ Caltrans	☐ Only Practicable Alternative Finding
	☐ FHWA	☐ Approves significant encroachments and concurs in Only Practicable Alternative Findings
☐ **Wild and Scenic Rivers**	☐ River Managing Agency	☐ Wild and Scenic Rivers Determination
☒ **Biological Resources**		
Check as applicable:		
☐ NES, Minimal Impact	☐ Caltrans	☐ Approval
☒ NES		
☒ BA	☒ Caltrans	☒ Approves for Consultation
	☒ USFWS ☐ NOAA Fisheries	☒ Section 7 Informal/Formal Consultation
☐ EFH Evaluation	☐ NOAA Fisheries	☐ MSA Consultation
☐ Bio-Acoustic Evaluation	☐ NOAA Fisheries	☐ Approval
☐ Technical Memorandum	☐ Caltrans	☐ Approval
☒ **Wetlands**		
Check as applicable:		
☒ WD and Assessment	☒ Caltrans	☒ Approval
	☒ ACOE	☒ Wetland Verification
	☐ NRCS	☐ Agricultural Wetland Verification
	☒ Caltrans	☒ Wetlands Only Practicable Alternative Finding
☐ **Invasive Plants**		
☐ Discussion in ED Only	☐ Caltrans	☐ Approval
☐ **Section 4(f)**		
Check as applicable:	☐ Caltrans	☐ Determine Temporary Occupancy
☐ De minimis	☐ Caltrans	☐ De minimis finding
☐ Programmatic 4(f) Evaluation Type: _____	☐ Caltrans	☐ Approval
☐ Individual 4(f) Evaluation	☐ Caltrans	☐ Approval
	☐ Agency with Jurisdiction ☐ SHPO ☐ DOI ☐ HUD ☐ USDA	

BT
5/14/18

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/Approvals
☐ **Section 6(f)**	☐ Agency with Jurisdiction ☐ NPS	☐ Determines Consistency with Long-Term Management Plan
	☐ NPS	☐ Approves Conversion
☒ **Visual Resources**		
☒ Technical Memorandum	☒ Caltrans	☒ Approval
☐ Minor VIA	☐ Caltrans	☐ Approval
☐ Moderate VIA	☐ Caltrans	☐ Approval
☐ Advance/Complex VIA	☐ Caltrans	☐ Approval
☐ **Relocation Impacts**		
Check one:		
☐ Relocation Impact Memo	☐ Caltrans	☐ Approval
☐ Relocation Impact Study	☐ Caltrans	☐ Approval
☐ Relocation Impact Report	☐ Caltrans	☐ Approval
☐ **Land Use and Community Impacts**		
Check one:		
☐ CIA	☐ Caltrans	☐ Approval
☐ Technical Memorandum	☐ Caltrans	☐ Approval
☐ Discussion in ED Only	☐ Caltrans	☐ Approval
☐ **Construction/Encroachment on State Lands**		
Check as applicable:		
☐ SLC Jurisdiction	☐ SLC	☐ SLC Lease
☐ Caltrans Jurisdiction	☐ Caltrans	☐ Encroachment Permit
☐ SP Jurisdiction	☐ SP	☐ Encroachment Permit
☐ **Construction/Encroachment on Federal Lands**	☐ Federal Agency with Jurisdiction	☐ Encroachment Permit
☐ **Construction/Encroachment On Indian Trust Lands**	☐ Bureau of Indian Affairs	☐ Right of Way Permit
☐ **Farmlands**		
Check one:		
☐ CIA	☐ Caltrans	☐ Approval
☐ Technical Memorandum	☐ Caltrans	☐ Approval
☐ Discussion in ED Only	☐ Caltrans	☐ Approval
Check as applicable:		
☐ Form AD 1006	☐ NRCS	☐ Approves Conversion
	☐ CDOC	☐ Approves Conversion
☐ Conversion to Non-Agri Use	☐ ACOE	

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/ Approvals
☑ **Cultural Resources** (PQS completes this section)	☒ Caltrans PQS	☐ Screened Undertaking
☒ APE Map	☒ Caltrans PQS and DLAE	☒ Approves APE Map
	☒ Local Preservation Groups and/or Native American Tribes (and historical society consultation)	☒ Provides Comments Regarding Concerns with Project
CM 5/10/18 ☒ HPSR ☒ ASR ☐ HRER	☒ Caltrans	☒ Approves for Consultation
☐ Finding of Effect Report	☐ Caltrans	☐ Concurs on No Effect, No Adverse Effect with Standard Conditions
	☐ SHPO	☐ Letter of Concurrence on Eligibility, No Adverse Effect without Standard
☐ MOA	☐ Caltrans	☐ Approves MOA
	☐ SHPO	☐ Approves MOA
	☐ ACHP (if requested)	☐ Approves MOA
☒ **Permits** Copies of permits and a list of mitigation commitments are mandatory submittals following NEPA approval.	☒ ACOE	☒ Section 404 Nationwide Permit
	☐ ACOE	☐ Section 404 Individual Permit
	☐ Caltrans/ACOE/EPA ☐ USFWS ☐ NOAA Fisheries	☐ NEPA/404 Integration MOU
	☐ ACOE	☐ Rivers and Harbors Act Section 10 Permit
	☐ USCG	☐ USCG Bridge Permit
	☒ RWQCB	☒ Section 401 Water Quality Certification
	☐ CDFW	☐ Section 1602 Streambed Alteration Agreement
	☐ RWQCB	☐ NPDES Permit
	☐ CCC ☐ Local Agency	☐ Coastal Zone Permit
	☐ BCDC	☐ BCDC Permit

Notes: Additional studies may be required for other federal agencies.

ACHP = Advisory Council on Historic Preservation
ACOE = U.S. Army Corps of Engineers
ADL = Aerially Deposited Lead
APE = Area of Potential Effect
APN = Assessor Parcel Number
ASR = Archaeological Survey Report
BA = Biological Assessment
BCDC = Bay Conservation and Development Commission
BE = Biological Evaluation
BO = Biological Opinion
Cal EPA = California Environmental Protection Agency
CCC = California Coastal Commission
CDFW = California Department of Fish and Wildlife
CDOC = California Department of Conservation
CE = Categorical Exclusion
CIA = Community Impact Assessment
CWA = Clean Water Act
DLAE = District Local Assistance Engineer
DOI = U.S. Department of Interior
DTSC = Department of Toxic Substances Control
EA = Environmental Assessment
ED = Environmental Document
EFH = Essential Fish Habitat
EIS = Environmental Impact Statement
EPA = U.S. Environmental Protection Agency
FEMA = Federal Emergency Management Agency
FHWA = Federal Highway Administration
FONSI = Finding of No Significant Impacted
FTIP = Federal Transportation Improvement Program
HPSR = Historic Property Survey Report
HRER = Historical Resources Evaluation Report
HUD = U.S. Housing and Urban Development
MOA = Memorandum of Agreement
MSA = Magnuson-Stevens Fishery Conservation and Management Act
NEPA = National Environmental Policy Act
NADR = Noise Abatement Decision Report
NES = Natural Environment Study
NHPA = National Historic Preservation Act
NOAA = National Oceanic and Atmospheric Administration
NMFS National Marine Fisheries Service
NPDES = National Pollutant Discharge Elimination System
NPS = National Park Service
NRCS = Natural Resources Conservation Service
PM10 = Particulate Matter 10 Microns in Diameter or Less
PM2.5 = Particulate Matter 2.5 Microns in Diameter or Less
PMP = Project Management Plan
PQS = Professionally Qualified Staff
ROD = Record of Decision
RTIP = Regional Transportation Improvement Program
RTP = Regional Transportation Plan
RWQCB = Regional Water Quality Control Board
SER = Standard Environmental Reference
SEP = Senior Environmental Planner
SHPO = State Historic Preservation Officer
SLC = State Lands Commission
SP = State Parks
TIP = Transportation Improvement Program
USCG = U.S. Coast Guard
USDA = U.S. Department of Agriculture
USFWS = U.S. Fish and Wildlife Service
WD = Wetland Delineation

E. Preliminary Environmental Document Classification (NEPA)

Based on the evaluation of the project, the environmental document to be developed should be:

Check one:

- ☐ Environmental Impact Statement (*Note: Engagement with participating agencies in accordance with 23 USC 139 required)*
  - ☐ Compliance with 23 USC 139 regarding Participating Agencies required
- ☐ Complex Environmental Assessment
- ☐ Routine Environmental Assessment
- ☐ Categorical Exclusion without required technical studies.
- ☒ Categorical Exclusion with required technical studies

(if Categorical Exclusion is selected, check one of the following):

- ☒ Section 23 USC 326
  - ☒ 23 CFR 771 activity (c)(3) Construction of bicycle and pedestrian lands, paths, and facilities
  - ☐ 23 CFR 771 activity (d) (_____)
  - ☐ Activity _____ listed in the Section 23 USC 326
- ☐ Section 23 USC 327

F. Public Availability and Public Hearing

Check as applicable:

- ☒ Not Required
- ☐ Notice of Availability of Environmental Document
- ☐ Public Meeting
- ☐ Notice of Opportunity for a Public Hearing
- ☐ Public Hearing Required

G. Signatures

Local Agency Staff and/or Consultant Signature

(Signature of Preparer)	04/02/2018 (Date)	(415) 962-8403 (Telephone No.)

Karin Bouler
(Name)

Local Agency Project Engineer Signature

This document was prepared under my supervision, according to the *Local Assistance Procedures Manual,* Exhibit 6-B, "Instructions for Completing the Preliminary Environmental Study Form."

(Signature of Local Agency)	4/3/18 (Date)	(916) 478-2243 (Telephone No.)

SAC 25011

Caltrans District Professionally Qualified Staff (PQS) Signature

☐ Project does not meet definition of an "undertaking"; no further review is necessary under Section 106 ("No" Section A, #35).

☐ Project is limited to the type of activity listed in Attachment 2 of the Section 106 PA and based on the information provided in the PES Form, the project does not have the potential to affect historic properties ("No" Section A, #35).

☐ Project is limited to the type of activity listed in Attachment 2 of the Section 106 PA, but the following additional procedures or information is needed to determine the potential for effect ("To Be Determined" Section A, #35):
Records Search

☐ Project meets the definition of an "undertaking"; all properties in the project area are exempt from evaluation per Attachment 4 of the Section 106 PA ("No" Section A, #35).

☒ The proposed undertaking is considered to have the potential to affect historic properties; further studies for 106 compliance are indicated in Sections B, C, and D of this PES Form ("Yes" Section A, #35).

(Signature of Professionally Qualified Staff)	5/10/18 (Date)	(530) 741-4817 (Telephone No.)

The following signatures are required for all CEs, routine and complex EAs, and EISs:

Caltrans District Senior Environmental Planner (or Designee) and DLAE Signatures

I have reviewed this Preliminary Environmental Study (PES) Form and determined that the submittal is complete and sufficient. I concur with the studies to be performed and the recommended NEPA Class of Action.

(Signature of Senior Environmental Planner or Designee)	5/30/18 (Date)	(530) 741-4592 (Telephone No.)

Laura Loeffler
(Name)

(Signature of District Local Assistance Engineer or Designee)	4/3/2018 (Date)	(530) 741-5451 (Telephone No.)

Cindy Root
(Name)

☐ HQ DEA Environmental Coordinator concurrence _____. Email concurrence attached.
(date)

Preliminary Environmental Investigation
Notes to Support the Conclusions of the PES Form
(May Also Include Continuation of Detailed Project Description)

The City of Elk Grove proposes the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (Project) to reconstruct, rehabilitate and provide bicycle lanes in each direction along segments of Waterman Road, Elk Grove Florin Road, ~~and Elk Grove Blvd~~ in the City of Elk Grove. The proposed roadways are being modified to accommodate one travel lane in each direction and bicycle lanes in each direction. Refer to Attachment B, Figures 1 and 2a-e for Project location.

The addition of designated bicycle lanes will help separate the bicycle traffic from roadway traffic and help reduce potential collisions.

The Project limits include seven (7) segments along Waterman Road, one (1) segment along Elk Grove Florin Road, ~~(1) segment along Elk Grove Boulevard~~. The segments are as shown in Table 1 below.

Segment 9 deleted

Table 1: Segments

Segment #	Street Name	Starting At	Ending At	Length	Pavement Treatment	Existing/ Proposed Pavement Width
1	Waterman Road	700' South of Bond	850' North of Rancho Drive	2,500'	Rehabilitation/ Reconstruction	22'/34'
2	Waterman Road	850' North of Rancho Drive	Elk Grove Blvd	2,000'	Microsurface/ Rehabilitation	44'/44'
3	Waterman Road	Charolais Way	Kent Street	950'	Rehabilitation	44'/44'
4	Waterman Road	Kent Street	400' South of Brinkman Court	1,300'	Rehabilitation	44'/44'
5	Waterman Road	400' South of Brinkman Court	Mosher Road	1,100'	Rehabilitation/ Reconstruction	22'/34'
6	Waterman Road	Mosher Road	1,000' South of Mosher Road	1,000'	Microsurface	22'/34'
7	Waterman Road	1,000' South of Mosher Road	Grant Line Road	1,600'	Microsurface	50'/50'
8	Elk Grove Florin Road	Elk Grove Boulevard	Valley Oak Lane	2,700'	Rehabilitation	50'/50'
~~9*~~	~~Elk Grove Boulevard~~	~~Bradshaw Road~~	~~Grant Line Road~~	~~3,000'~~	~~Rehabilitation/ Reconstruction~~	~~24'/34'~~

Segment 9 deleted

*In addition to widening in the existing City right-of-way to accommodate bicycle lanes, this segment includes potential additional widening to accommodate a future two-way left-turn lane that would require some minor right-of-way acquisition, as shown in Figure 2e. The additional widening is included in this analysis, but is still under consideration by the City.

RIGHT-OF-WAY

The majority of the Project would take place within the City's current right-of-way and no acquisition of additional right-of-way would be required to construct the proposed bicycle lanes. Additional widening, however, is under consideration in

~~Segment 9 that would accommodate a future two-way left-turn lane and would require some minor right-of-way acquisitions, as shown in Figure 2e. No relocations would be required.~~ Segment 9 deleted

Permits to Enter and Construct (PTECs) may be required in select locations along the segments in order to conform private driveways to the reconstructed roadway. It is anticipated that the contractor would coordinate with the property owner/tenant to maintain access during construction, thereby preventing any damage or loss of business goodwill.

UTILITIES

It is anticipated that utility poles, water and sewer manholes and valves would need to be adjusted to accommodate any roadway widening; the relocation of these facilities would remain within the City right-of-way. The City would work with utility companies, as necessary, for any utility relocation or adjustment.

DRAINAGE

Drainage improvements are limited to adjusting or relocating existing drainage systems components to conform to the proposed improvements. Existing drainage culverts at driveways would be replaced. Significant changes to the drainage system are not anticipated in this Project. Construction related Best Management Practices (BMPs) would be implemented.

TREE AND VEGETATION REMOVAL

Existing roadside vegetation and trees adjacent to the roadway would be removed in order to construct the segments where widening would occur.

CONSTRUCTION

Construction vehicle access and staging of construction materials would occur within disturbed or developed areas inside the existing ROW. If a location is chosen outside of the existing ROW, the location would be environmentally-cleared by the construction contractor prior to use.

The Project would likely be constructed in multiple construction stages to minimize impacts to traffic operations during construction. Access to and from existing residences and businesses would be maintained throughout construction. Large equipment used may include excavators, compactors, grinding machines, backhoes, and bobcats.

Brief Explanation of How Project Complies, or Will Comply with Applicable Federal Mandate (Part A):

1. The Project would not require future construction to fully utilize the design capabilities included in the proposed Project.
2. The Project is not anticipated to generate public controversy.
3. The Project is not a Type 1 project as defined in 23 CFR 772.5(h); "construction on new location or the physical alteration of an existing highway, which significantly changes the horizontal or vertical or increases the number of through-traffic lanes." There will be no changes to the horizontal or vertical alignment because the Project does not halve the distance between the roadway and the closest noise receptor and does not remove shielding; it also does not add through through-traffic lanes.
4. This Project is not anticipated to generate adverse construction related noise, such as pile driving. Construction will be limited to the hours between 7:00am and 7:00pm on weekdays consistent with the City of Elk Grove General Plan Noise Element goals regarding construction noise. Large equipment used may include excavators, compactors, grinding machines, backhoes, and bobcats.
5. Based on a search within the EPA's Green Book on March 22, 2018, the Project is located in a NAAQS nonattainment or maintenance area for the following pollutants: 1-Hr. Ozone (1979), 8-Hr. Ozone (1997), 8-Hr. Ozone (2008), PM-2.5 (2006), PM-10 (1987), and CO (1971).
6. Based on a review of the conformity requirements, the Project is exempt from the requirement that a conformity determination be made under 40 CFR 93.126 because the Project considered is considered exempt under Table 2 pavement resurfacing and/or rehabilitation.

7. Per 40 CFR 93.126, projects types listed in Table 2 of that section are exempt from the requirement to determine conformity. Such projects may proceed toward implementation regardless of regional conformity; "Such projects may proceed toward implementation even in the absence of a conforming transportation plan and TIP."

8. Not applicable.

9. The Project locations were checked on Geotracker on March 13, 2018. There is an open-inactive site at the Waterman Road/Bond Road intersection related to Mather Air Force Base - Former Elk Grove - Mather Auxiliary former use. There are closed LUST cleanup sites at the intersection of Elk Grove Florin Road and Elk Grove Boulevard and on Waterman Road just south of Kent Street. When the paint on the road is removed, there is a risk of thermoplastic residue. However, if the contractor is required to follow a measure similar to Caltrans 2015 Standard Specification 14-11.12 regarding the removal of traffic stripes and pavement markings that contain lead, any potential impact would be minimized (See Attachment B , Figure 3, Geotracker Results).

10. Impacts to water resources in the area are anticipated. There are vernal impoundments surrounding Waterman Road and within the City's right-of-way in the Project area. Habitat related to vernal pools and wetlands can be seen in Attachment B, Figure 5, CNDDB Occurrences, and Figures 6a-6d, Habitats.

11. Based on a search for sole source aquifers in California on March 20, 2018, a U.S. EPA Region 9 map of the sole source aquifers shows that there are none located in the Project area.

12. The Project is not located within the State Coastal Zone, San Francisco Bay, or Suisun Marsh.

13. The Project passes through floodplains that correspond to crossings at: Laguna Creek at Waterman Road, just south of Bond Road; Elk Grove/Laguna Creek at Waterman Road just south of Kent Street; and Elk Grove/Laguna Creek at Elk Grove Florin Road south of Plaza Park Drive. The Project would only rehabilitate the existing roadway at the Elk Grove/Laguna Creek crossings at Waterman Road just south of Kent Street and Elk Grove Florin Road south of Plaza Park Drive. The Project proposes some widening at the location of the crossing of Laguna Creek at Waterman Road south of Bond Road, but would remain within existing City right-of-way and would not impact the creek or alter the vertical clearance of the creek. See Attachment B, Figures 4a-4d, FEMA Floodplains.

14. There are no Wild or Scenic River Systems in the area that may be potentially affected. The list of Nationally Designated Rivers, which was found on the National Wild and Scenic Rivers System website, was compared to the bodies of water in the area to ensure there are none located in the Project area.

15. Based on a search of the California Natural Diversity Data Base (CNDDB) on March 13, 2018 (see Attachment B, Figure 5, CNDDB Occurrences, and Attachment C, Species Lists), there are federally listed threatened or endangered species are within 5 miles of the Project area. To the north of the Project area vernal pool tadpole shrimp, Midvalley fairy shrimp, dwarf downingia, legenere, Swainson's hawk, and tricolored black birds have been identified. To the east, there are recorded occurrences of California linderiella, Swainson's hawk, and tricolored black birds. To the south, there are been recorded occurrences of legenere, Sanford's arrowhead, tricolored blackbird, and Swainson's hawk. To the west, there are recorded occurrences of western pond turtle, giant gartersnake, Sanford's arrowhead, tricolored blackbirds, and Swainson's hawk. In the general area there are vernal pool tadpole shrimp, vernal pool fairy shrimp, giant gartersnake, Swainson's hawk, and tricolored blackbird.

    Laguna Creek is a jurisdictional feature regulated by the Army Corps of Engineers and provides suitable habitat for the state and federally listed giant garter snake (Thamnophis gigas) and may also provide habitat for Sanford's arrowhead (Sagittaria sanfordii). However, the proposed Project, including proposed widening, would not impact Laguna Creek or its tributaries.

16. Because Swainson's hawks and tricolored blackbirds have been identified in the Project area (see Attachment B, Figure 5, CNDDB Occurrences) and are migratory birds, the Project does have the potential to affect migratory birds, or their nests of eggs

17. There are vernal pools located throughout the Project area and within the City's right-of-way. See #10 above.

18. No agricultural wetlands are present in the Project area.

19. The Project would not introduce invasive species to the area. The Project would comply with the Executive Order on Invasive Species, EO 13112. In areas of particular sensitivity, extra precautions will be taken if invasive species are found in or adjacent to the construction areas. These include the inspection and cleaning of construction equipment and eradication strategies to be implemented should an invasion occur.

20. Elk Grove High School is located at the southwest corner of the southern terminus of Segment 8, which is the portion of the Project on Elk Grove Florin Road, and Joseph Kerr Middle School is located at the northwest corner of the northern terminus of Segment 8. Jessie Baker Elementary School is located approximately 500 feet to the west of segment 8. Edna Batey Elementary School and Elk Grove Elementary School are located approximately 0.4 miles to the west and east of Waterman Road, respectively, between Bond Road and Elk Grove Boulevard. The schools are not in the Project area and would not be affected by the Project activities. Hilltop Cemetery and Jack E. Hill Park are located adjacent to Waterman Road, north of Rancho Drive, but would not be affected by the proposed Project.

    The City of Elk Grove General Plan EIR identified portions of the Project area that cross Laguna Creek as areas that are potentially sensitive for cultural resources. However, no significant cultural resources are anticipated within the proposed Project area that would trigger the provisions of Section 4(f).

21. The Project does not have the potential to affect properties acquired or improved with the Land and Water Conservation Fund Act (Section 6[f]) funds.

22. This Project is changing physical characteristics that may have the potential to cause minor effects to visual or scenic resources. The Project includes expansion of the roadway at some locations within the City's right-of-way for the inclusion of bicycle facilities. The *Questionnaire to Determine Visual Impact Assessment Level* was completed and the VIA Level Score for the proposed Project is 12, indicating the need for a brief memorandum addressing visual issues that provides rationale on why a technical study is not required (see Attachment D, Questionnaire to Determine VIA Level).

23. The Project would take place within existing City right-of-way. No residential or business relocations would be required.

24. The majority of the Project would take place within the City's current right-of-way and no acquisition of additional right-of-way would be required to construct the proposed bicycle lanes. ~~Additional w[illegible]nder consideration in Segment 9 that would accommodate a future two-way left-turn lane [illegible]e minor right-of-way acquisitions, as shown in Figure 2e.~~ Segment 9 deleted No relocations would be required. Permits to Enter and Construct (PTECs) would be required in select locations along the roadways in order to conform private driveways to the reconstructed roadway. All right-of-way activities would be carried out in accordance with the Caltrans Local Assistance Procedures Manual.

25. The Project is consistent with plans and goals adopted by the community. The Project is included in the 2015 SACOG Regional Bicycle, Pedestrian, and Trails Master Plan, the 2017/2020 MTIP, and the City of Elk Grove's Capital Improvement Projects.

26. It is anticipated that this Project does not have the potential to divide or disrupt neighborhoods/communities because the Project activities are within the City's existing right-of-way.

27. It is anticipated that this Project will not have a potentially disproportionate effect on low-income and minority populations. Based on the American Community Survey information for the Project area and a one-mile buffer area, there is not a significant low-income or minority population in the area. Approximately 17% of households earn between $50,000 and $75,000 and 55% of households earn over $75,000. The populations in the Project area census tracts also indicate a 50% White population. The attached tables show the population percentages by ethnicity, income information, and the housing type distributions in the Project area census tracts. See Attachment E, EJSCREEN and ACS Summary Report. Further, the Project activities would occur within existing roadway and would not create or remove roads. The bicycle lanes and pedestrian facilities would be available to all and benefit all income levels. The Project's overall effects to air quality and visual are anticipated to be beneficial.

28. It is anticipated that utility poles, water and sewer manholes and valves would need to be adjusted to accommodate any roadway widening; the relocation of these facilities would remain within the City right-of-way. The City would work with utility companies, as necessary, for any utility relocation or adjustment.

29. During construction, access to some properties will be temporarily affected on construction days. However, any disturbance due to Project actions will be staggered. Access would not be impacted during Project operation.
30. The Project will not involve changes in access control to the State Highway System (SHS). The closest state highway to the Project area is State Route (SR) 99, which is located approximately 0.8 miles to the west of the western most Project segment at Elk Grove Florin Road. The Project would not cut off or alter access to the highway (see Attachment B, Figure 1, Regional Location).
31. The Project would likely be constructed in multiple construction stages to minimize impacts to traffic operations during construction. Detours may be necessary on a temporary basis to rehabilitate the roadway. Access to and from existing residences and businesses would be maintained throughout construction.
32. The Project will not decrease the amount of parking currently available, as there is currently no parking available in the Project area.
33. Based on the Project plan and search on the Bureau of Land Management website, the Project construction will not encroach on state or federal lands.
34. Project will not convert any prime farmlands or farmlands under Williamson Act contracts to any different use or impact any farmlands, as there are none in the Project area. There are farmlands of local importance in the Project area, but they will not be affected by the proposed Project as the Project would be constructed within existing City right-of-way. The (see Attachment B, Figure 7, Important Farmland).
35. Caltrans to complete.
36. Based on a search of federally recognized tribes in the area on March 21, 2018, on the Bureau of Indian Affairs website, there are no tribal lands in the Project area.

Distribution 1) Original - DLAE, 2) Local Agency Project Manager, 3) DLA Environmental Coordinator 4) Senior Environmental Planner (or designee), 5) District PQS

SACOG ID **SAC25011** | **SAC** | Lead Agency **City of Elk Grove** | **Project 310 of 568**

Project Title

Sub-Project of Group04 - Arterial Roads Rehabilitation Project

EA Number: n/a
PPNO: n/a

Last Revised 17-00

Completion Year **2017**

Fed FY	Revenue Source	Engineering	Right of Way	Construction	Total Revenue
2019	Local Agency Funds			$259,000	$259,000
2019	Regional Surface Transportation Program			$2,000,000	$2,000,000
		$0	**$0**	**$2,259,000**	**$2,259,000**

Project Description

In Elk Grove, on segments of Waterman Rd from Bond to Elk Grove Blvd, on Waterman Road from Kent Street to Grant Line Road, and on Elk Grove Florin Road from Elk Grove Blvd to Valley Oak, minor shoulder improvements and Class II bike lanes.

Federal Project

Total Cost **$2,259,000**

Exempt Category: Pavement resurfacing and/or rehabilitation

SACOG ID **SAC24720** | **SAC** | Lead Agency **City of Elk Grove** | **Project 311 of 568**

Project Title

Sub-Project of Group04 - Waterman Road Complete Streets Reconstruction

EA Number: n/a
FED ID: 5479-049
PPNO: n/a

Last Revised 17-00

Completion Year **2018**

Fed FY	Revenue Source	Engineering	Right of Way	Construction	Total Revenue
<17		$650,627			$650,627
2019	Local Agency Funds			$301,099	$301,099
2019	Regional Surface Transportation Program			$2,324,000	$2,324,000
		$650,627	**$0**	**$2,625,099**	**$3,275,726**

Project Description

In Elk Grove, Waterman Rd., from Bond Rd. to Sheldon Rd.: pavement reconstruction with class 3 bike route and potential class I path.

Federal Project

Total Cost **$3,275,726**

Exempt Category: Pavement resurfacing and/or rehabilitation

SACOG ID **SAC25011** | **SAC** | Lead Agency **City of Elk Grove** | **Project 37 of 93**

Project Title

Sub-Project of Group04 - Arterial Roads Rehabilitation Project

EA Number: n/a | Last Revised 17-14 | Completion Year **2019**

PPNO: n/a

Project Description

In Elk Grove, on segments of Waterman Rd from Bond to Elk Grove Blvd, on Waterman Road from Kent Street to Grant Line Road, and on Elk Grove Florin Road from Elk Grove Blvd to Valley Oak, minor shoulder improvements and Class II bike lanes.

Fed FY	Revenue Source	Engineering	Right of Way	Construction	Total Revenue
2019	Local Agency Funds			$1,443,000	$1,443,000
2019	Regional Surface Transportation Program			$2,000,000	$2,000,000
		$0	**$0**	**$3,443,000**	**$3,443,000**

Federal Project | Total Cost **$3,443,000** | **Exempt Category:** Pavement resurfacing and/or rehabilitation

Previously Approved MTIP

SACOG ID **SAC25011** | **SAC** | Lead Agency **City of Elk Grove**

Project Title

Sub-Project of Group04 - Arterial Roads Rehabilitation Project

EA Number: n/a | Last Revised 17-00 | Completion Year **2017**

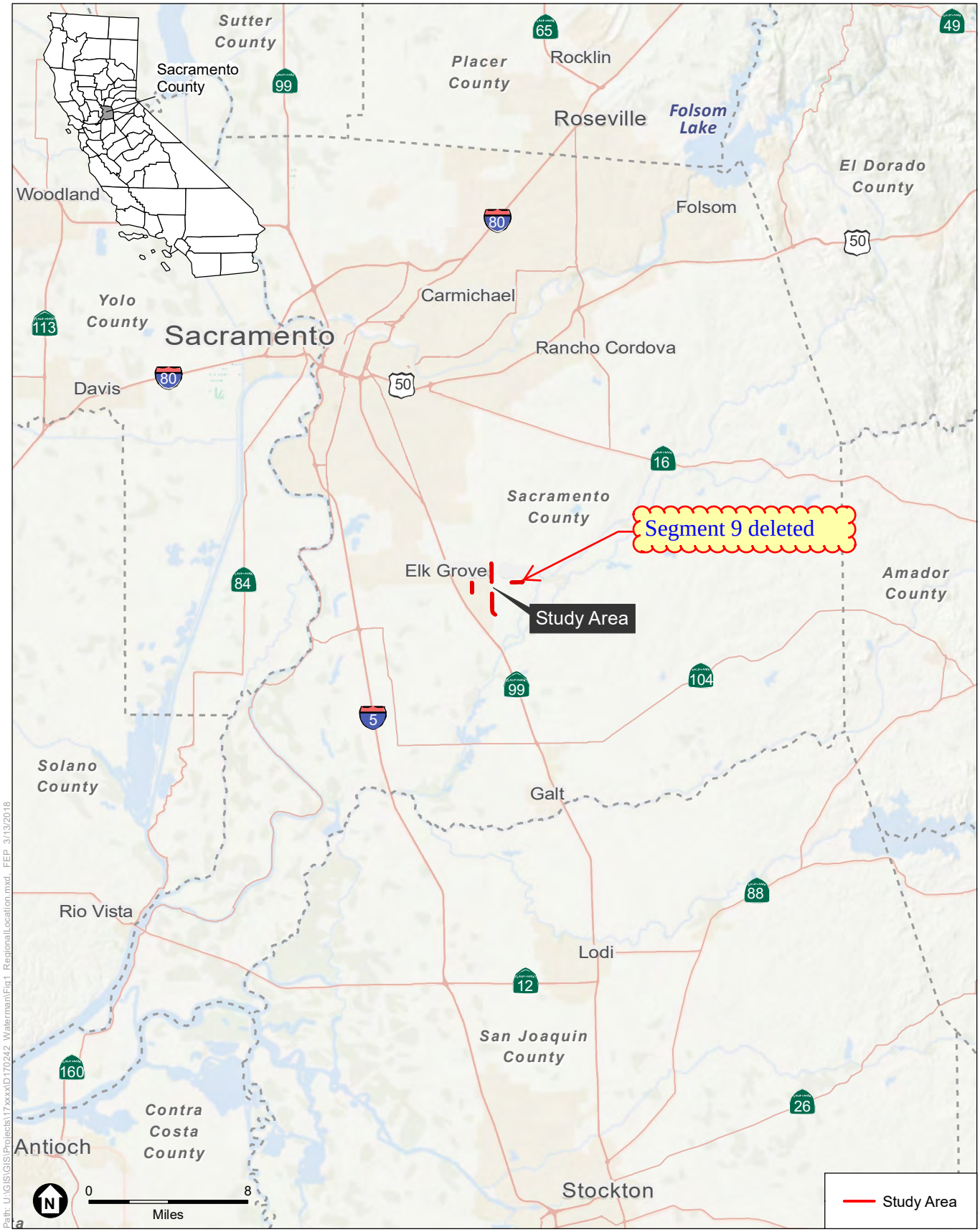
PPNO: n/a

Project Description

In Elk Grove, on segments of Waterman Rd from Bond to Elk Grove Blvd, on Waterman Road from Kent Street to Grant Line Road, and on Elk Grove Florin Road from Elk Grove Blvd to Valley Oak, minor shoulder improvements and Class II bike lanes.

Fed FY	Revenue Source	Engineering	Right of Way	Construction	Total Revenue
2019	Local Agency Funds			$259,000	$259,000
2019	Regional Surface Transportation Program			$2,000,000	$2,000,000
		$0	**$0**	**$2,259,000**	**$2,259,000**

Federal Project | Total Cost **$2,259,000** | **Exempt Category:** Pavement resurfacing and/or rehabilitation



SOURCE: Esri, 2015; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 1
Regional Location

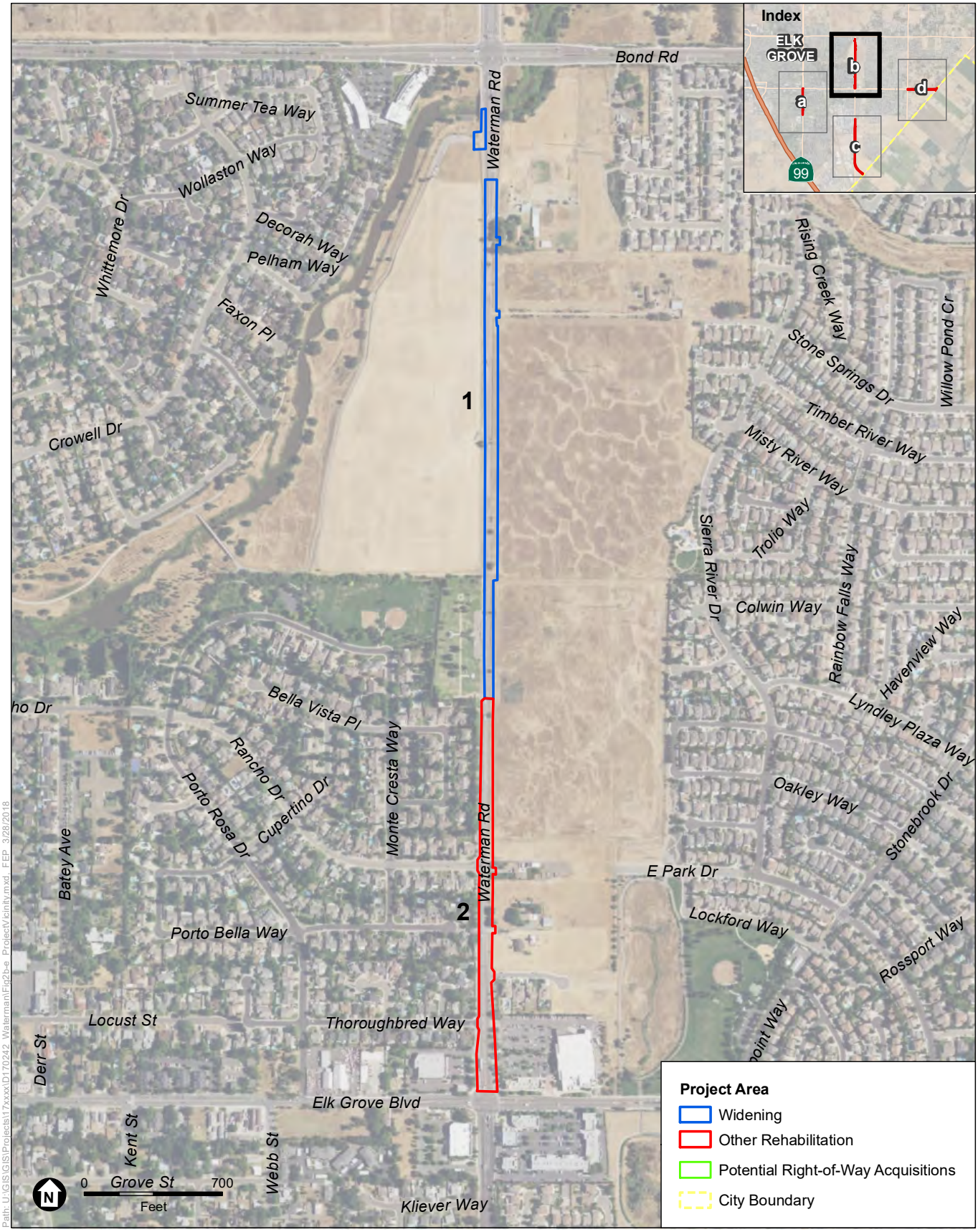
ESA

SOURCE: USDA, 2016; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 2a
Project Vicinity

ESA

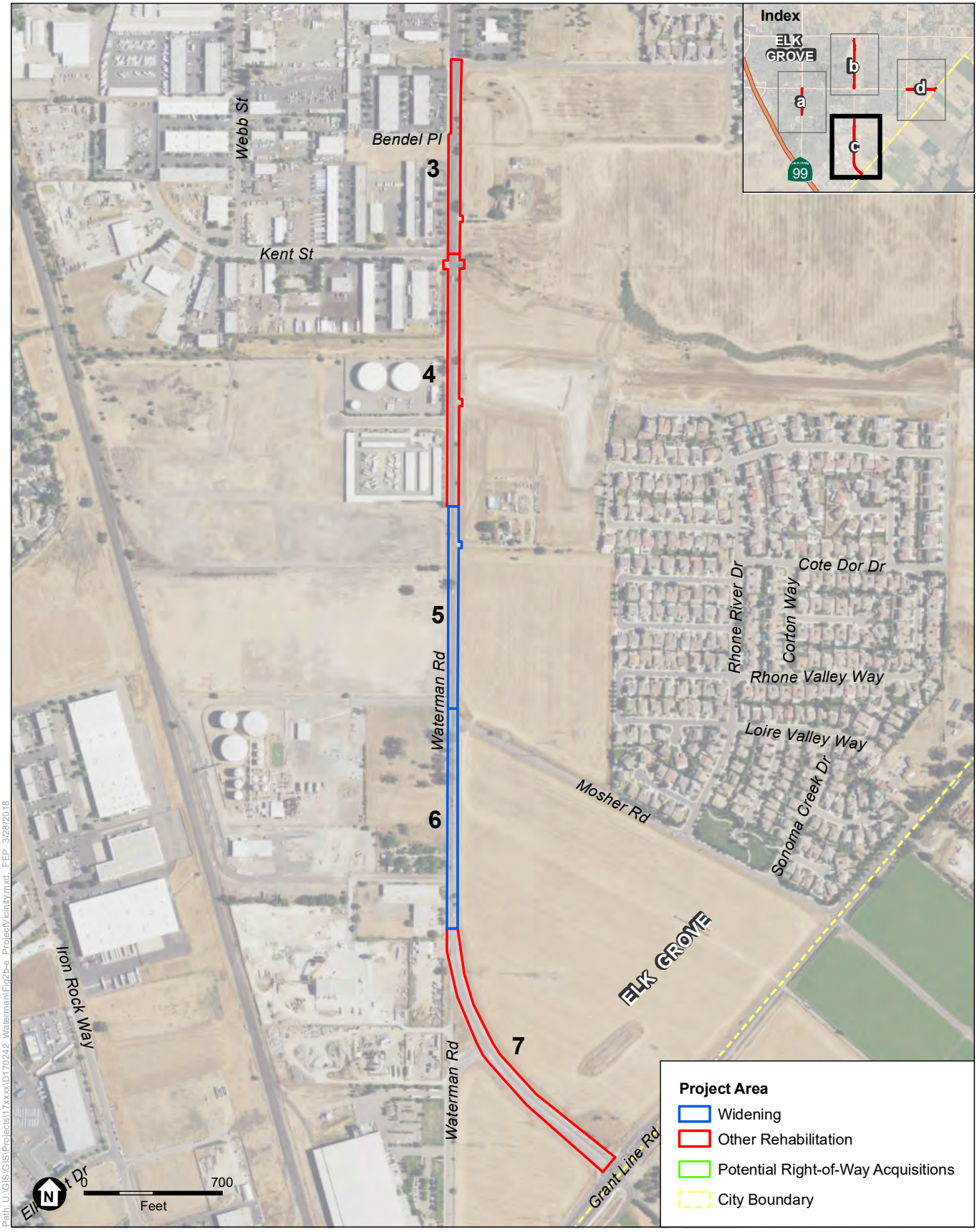


SOURCE: USDA, 2016; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 2b
Project Vicinity

ESA

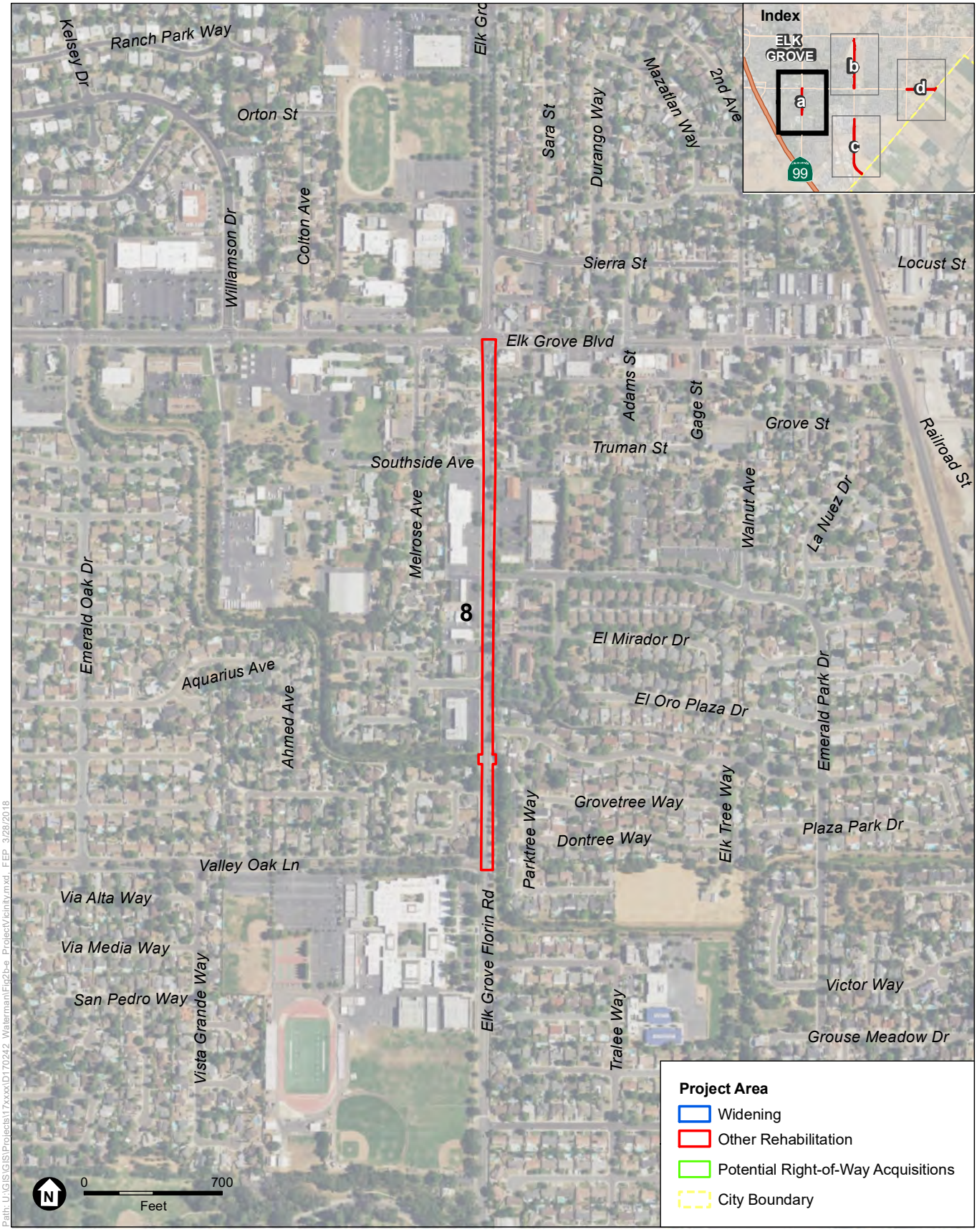


SOURCE: USDA, 2016; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 2c
Project Vicinity

ESA

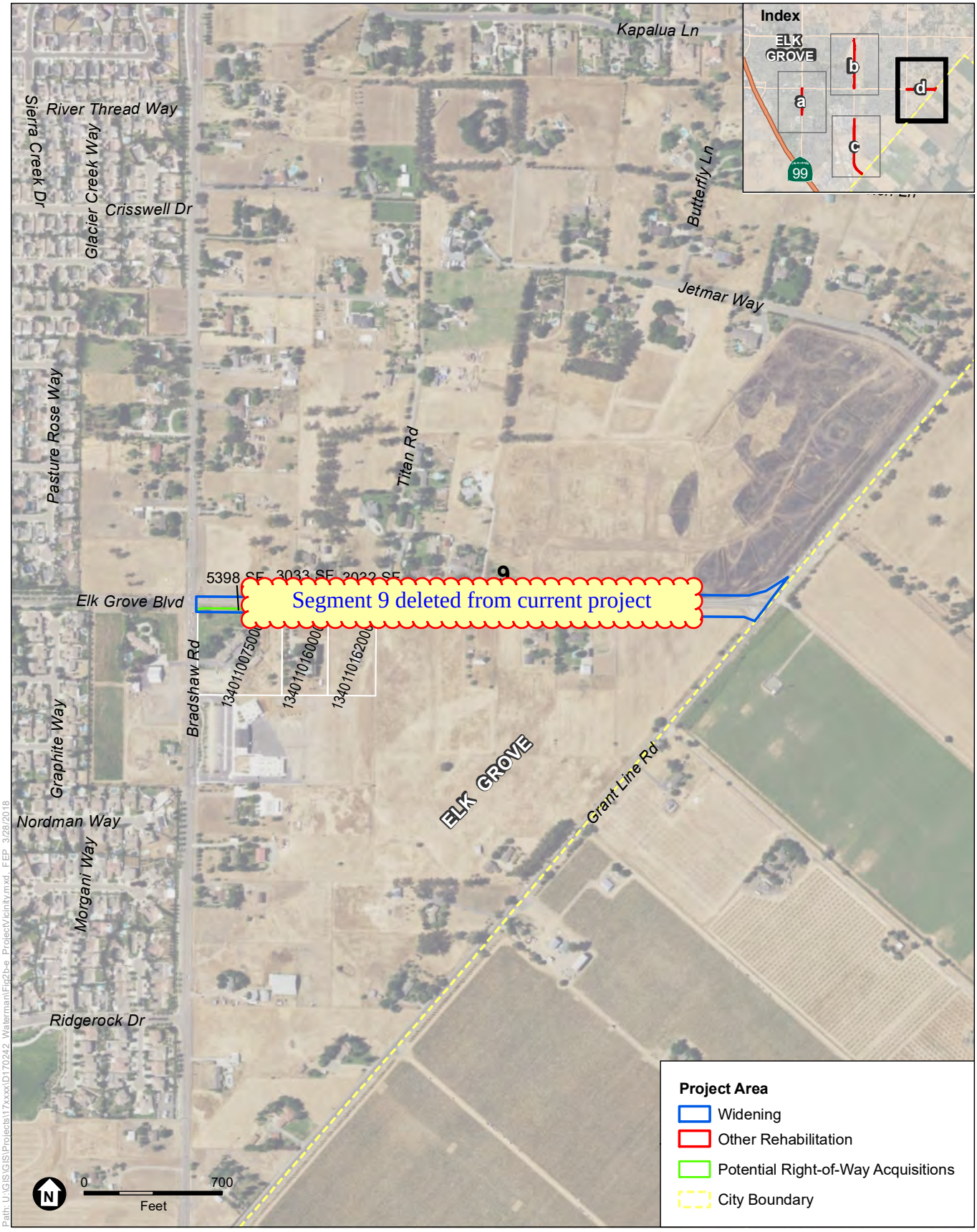


SOURCE: USDA, 2016; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 2d
Project Vicinity

ESA

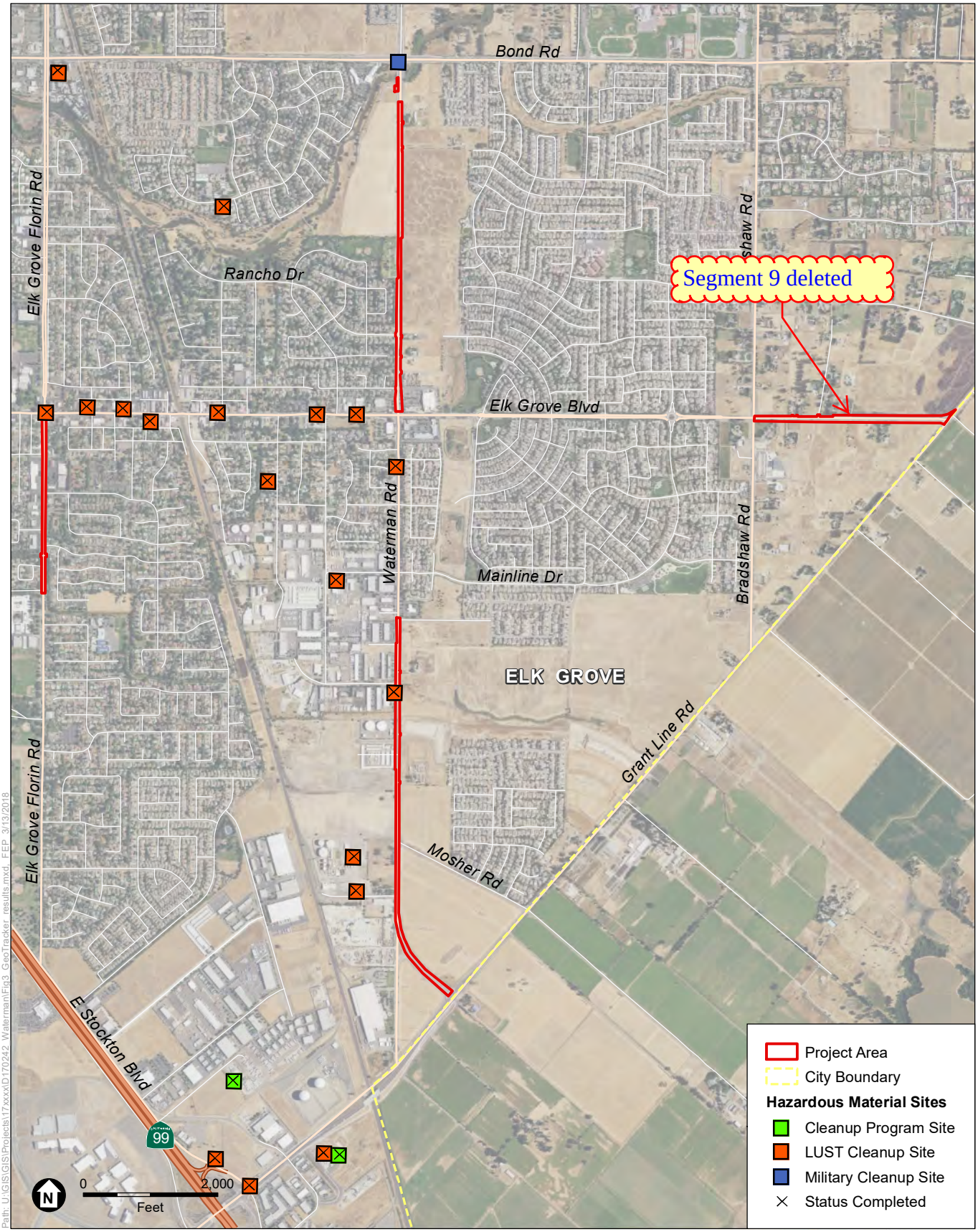


SOURCE: USDA, 2016; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 2e
Project Vicinity

ESA

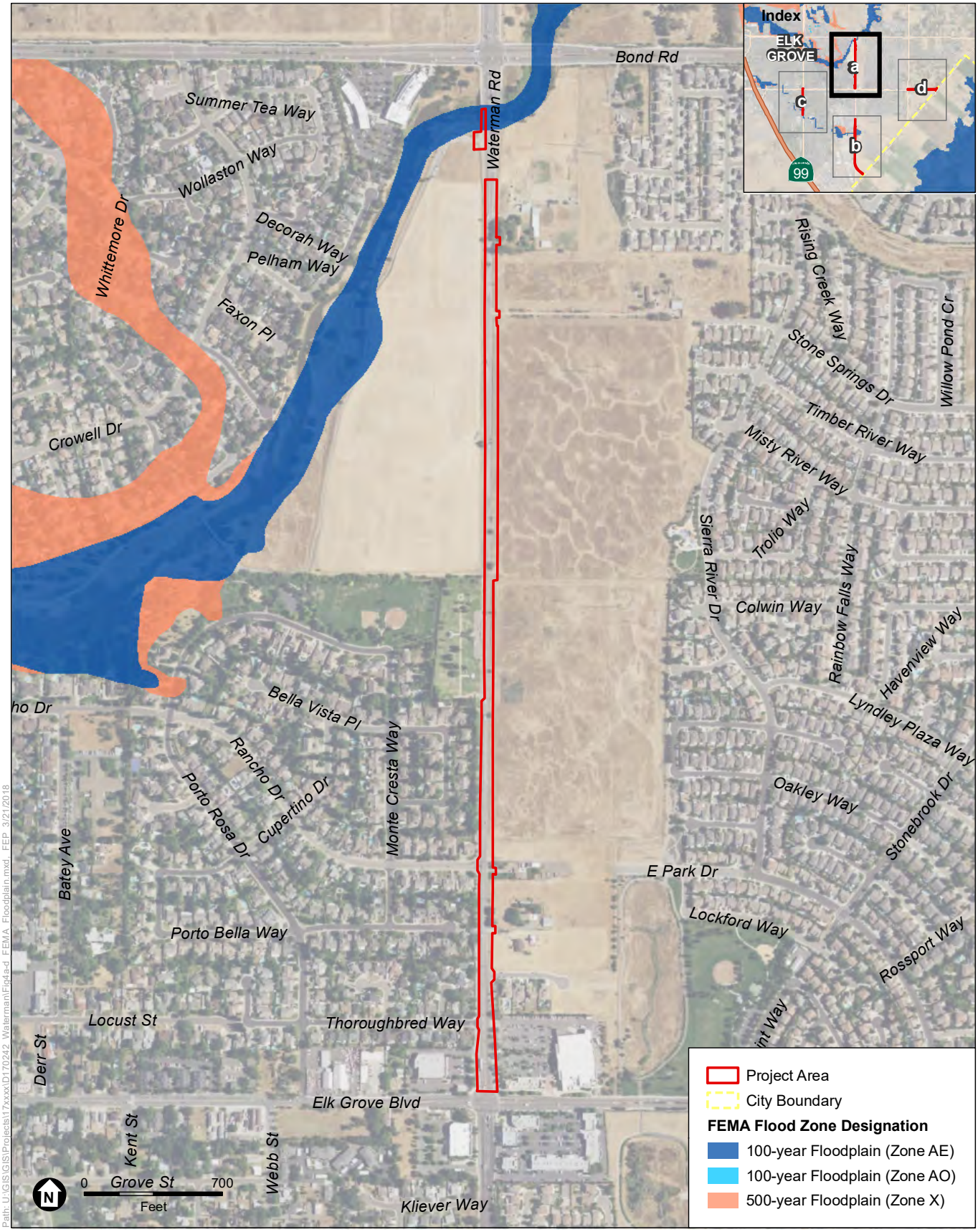


SOURCE: USDA, 2016; SWRCB, 2017; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 3
Resources in the Project Vicinity

ESA

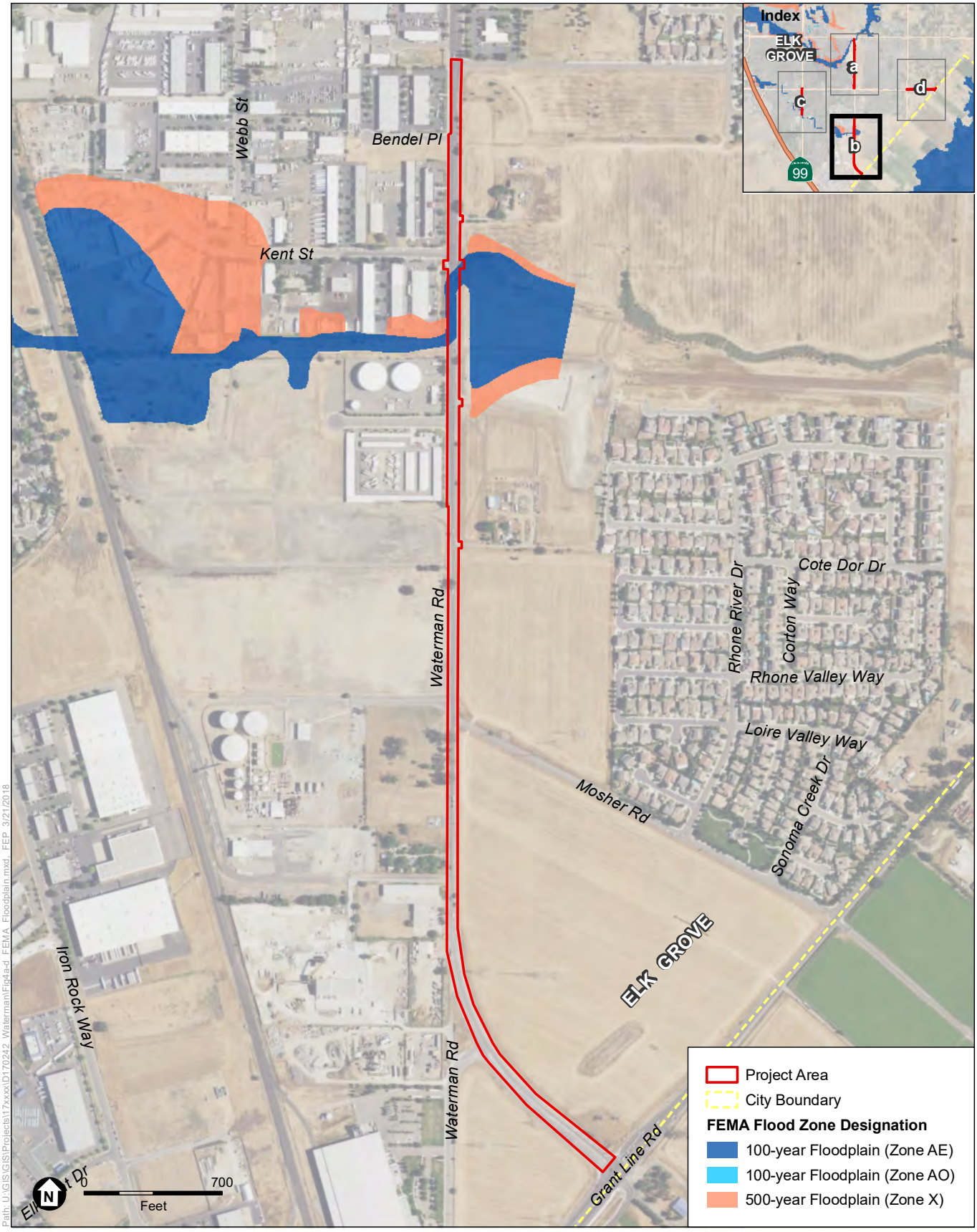


SOURCE: USDA, 2016; FEMA, 2017; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 4a
FEMA Floodplains

ESA

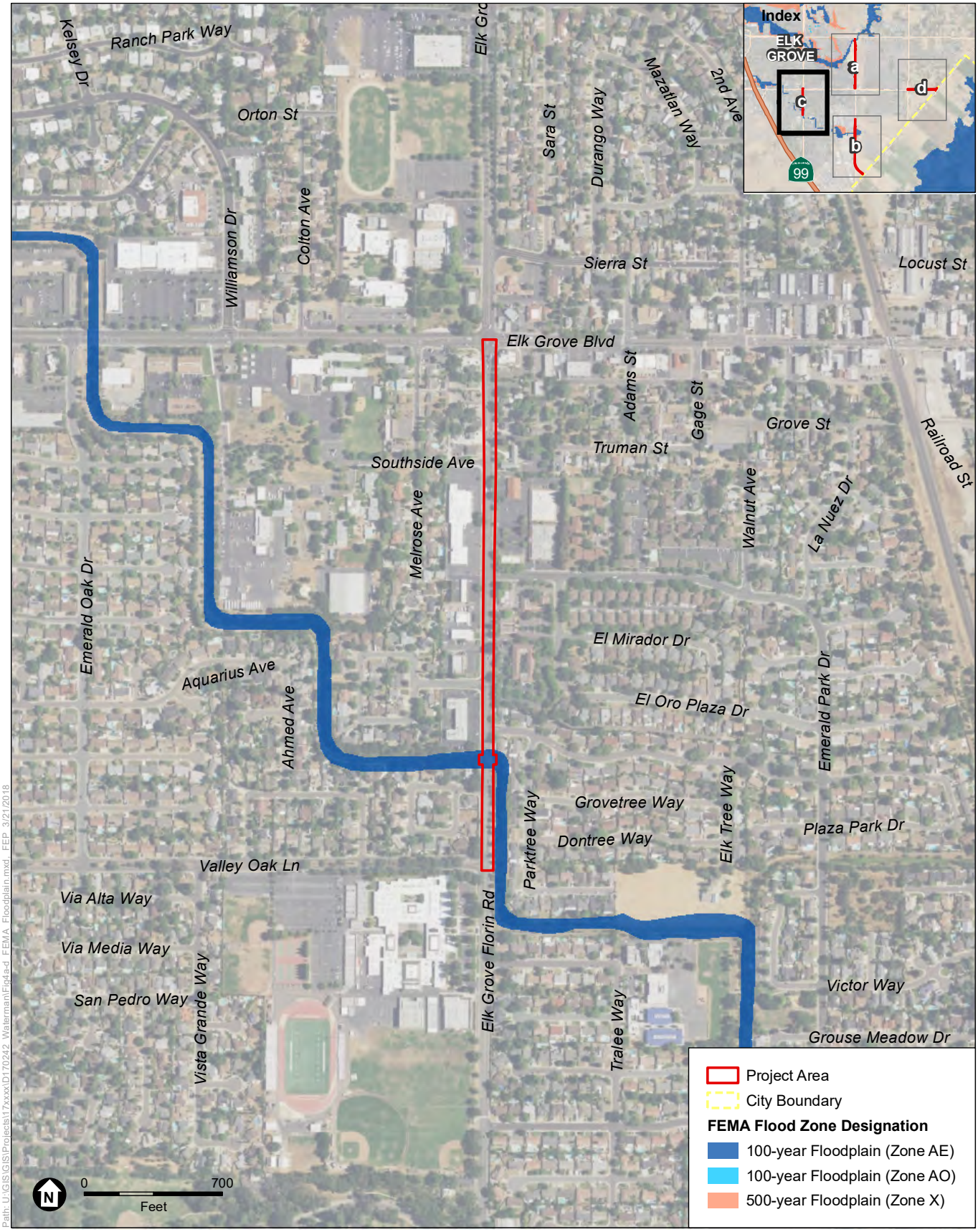


SOURCE: USDA, 2016; FEMA, 2017; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 4b
FEMA Floodplains

ESA



SOURCE: USDA, 2016; FEMA, 2017; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 4c
FEMA Floodplains

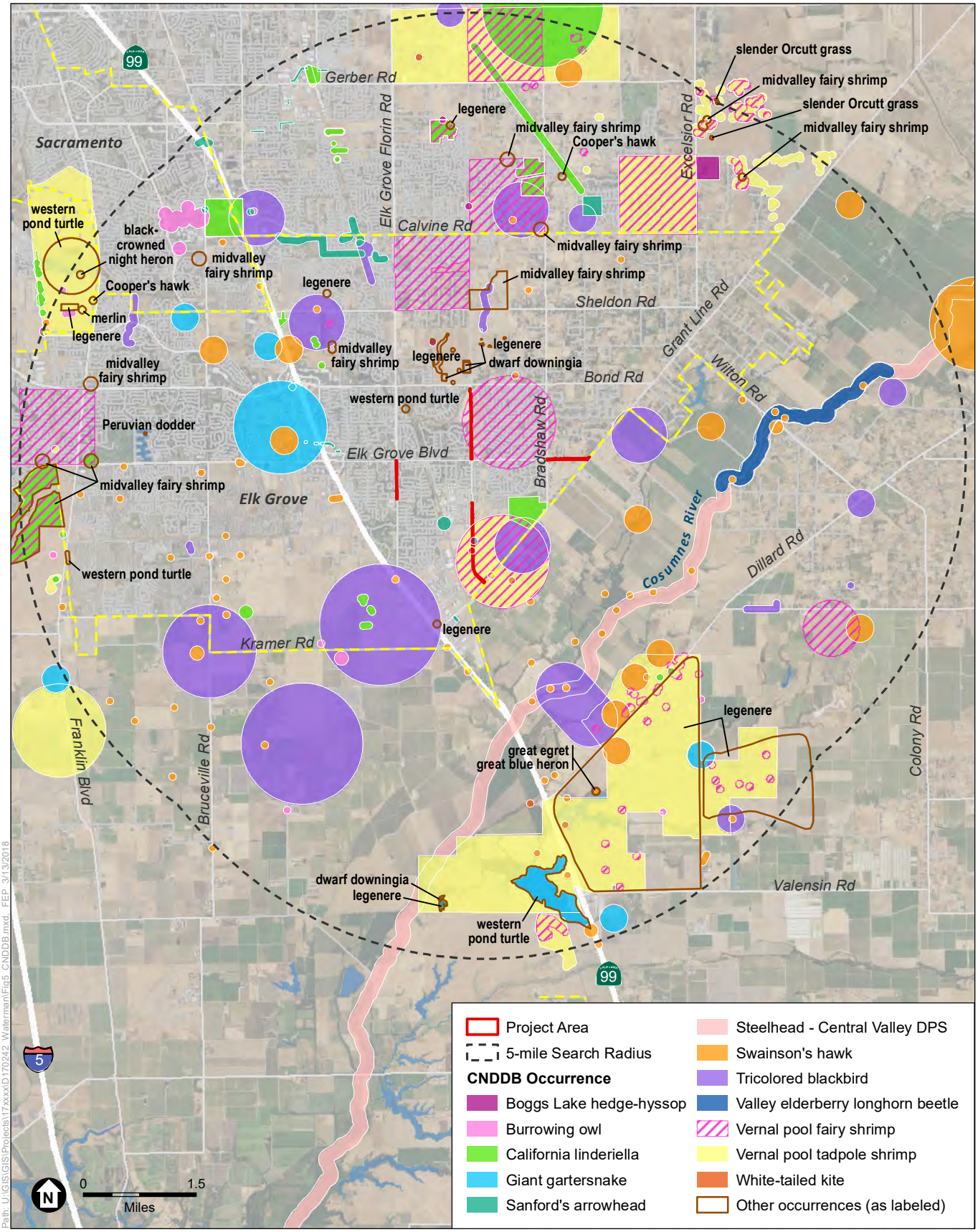
ESA

SOURCE: USDA, 2016; FEMA, 2017; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 4d
FEMA Floodplains

ESA

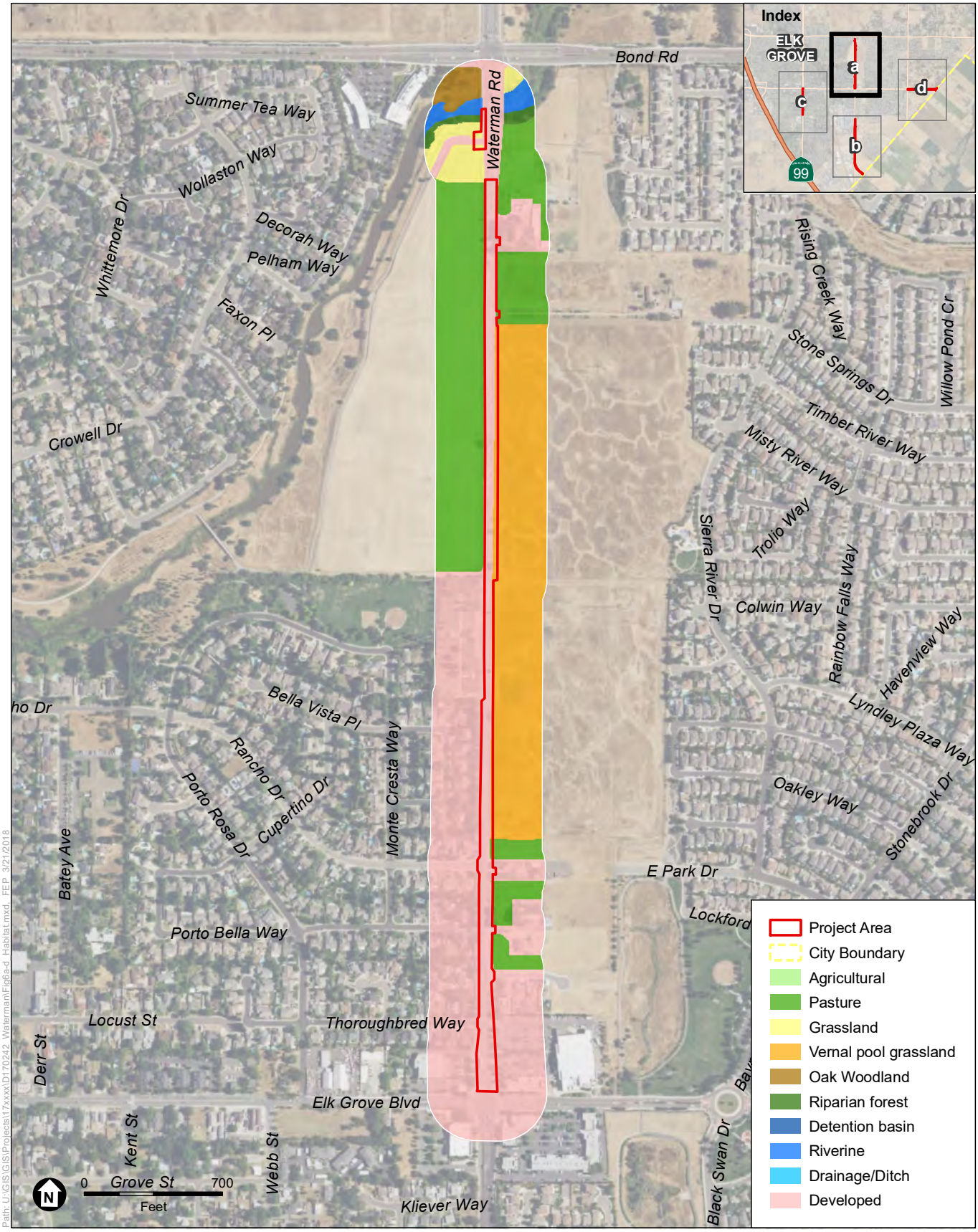


SOURCE: USDA, 2016; CDFW, 2018; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 5
CNDDB Occurrences

ESA

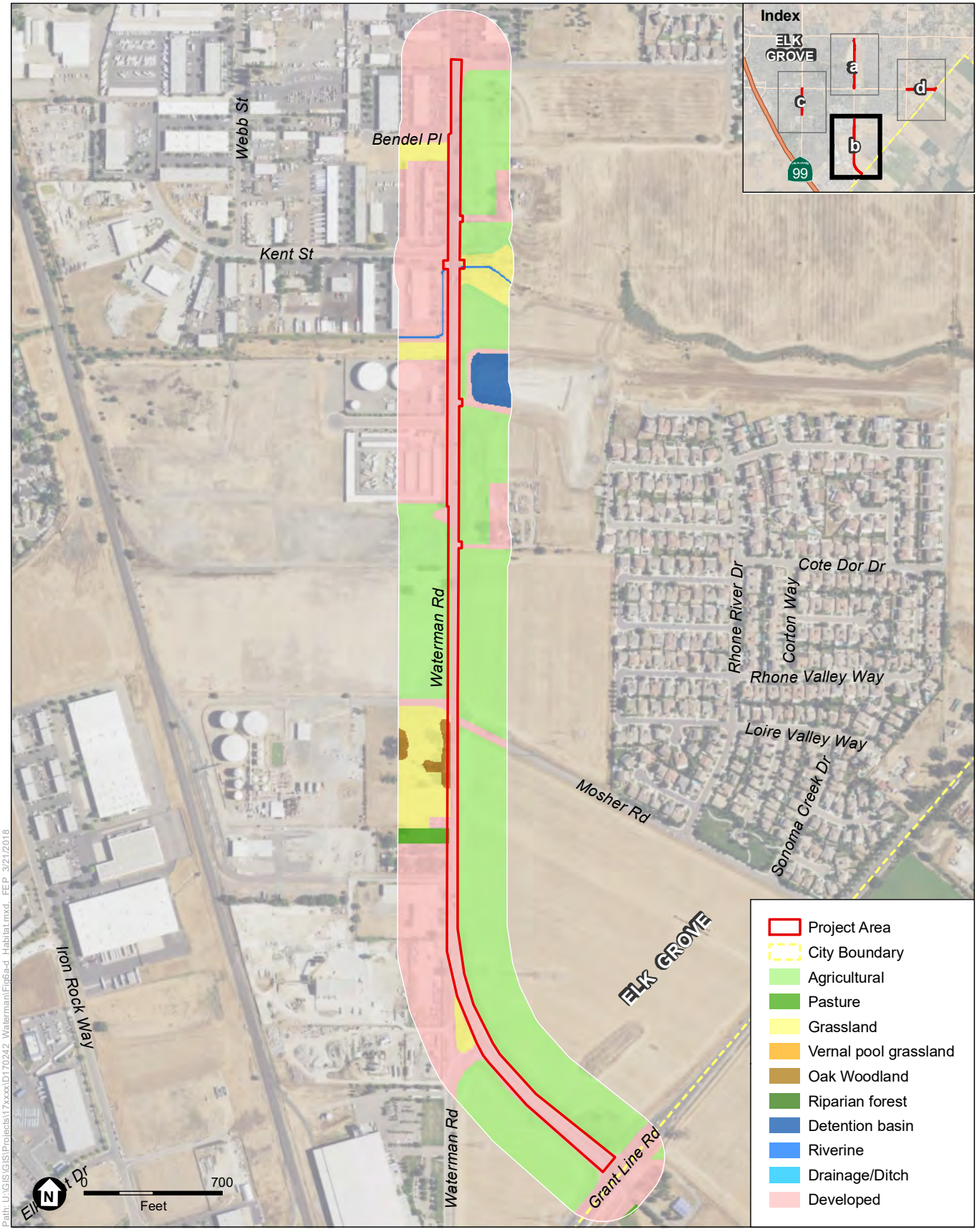


SOURCE: USDA, 2016; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 6a
Habitats

ESA

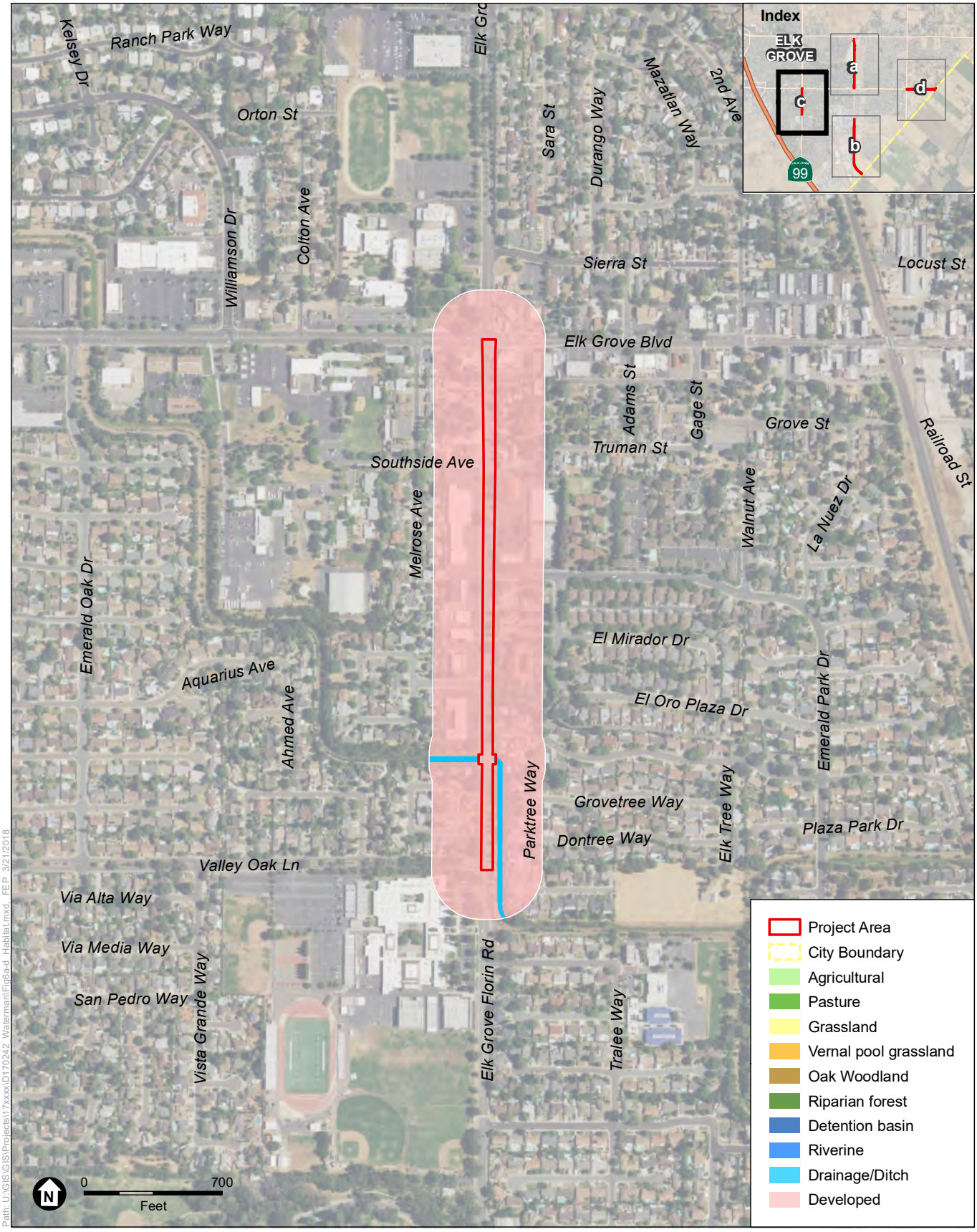


SOURCE: USDA, 2016; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 6b
Habitats

ESA

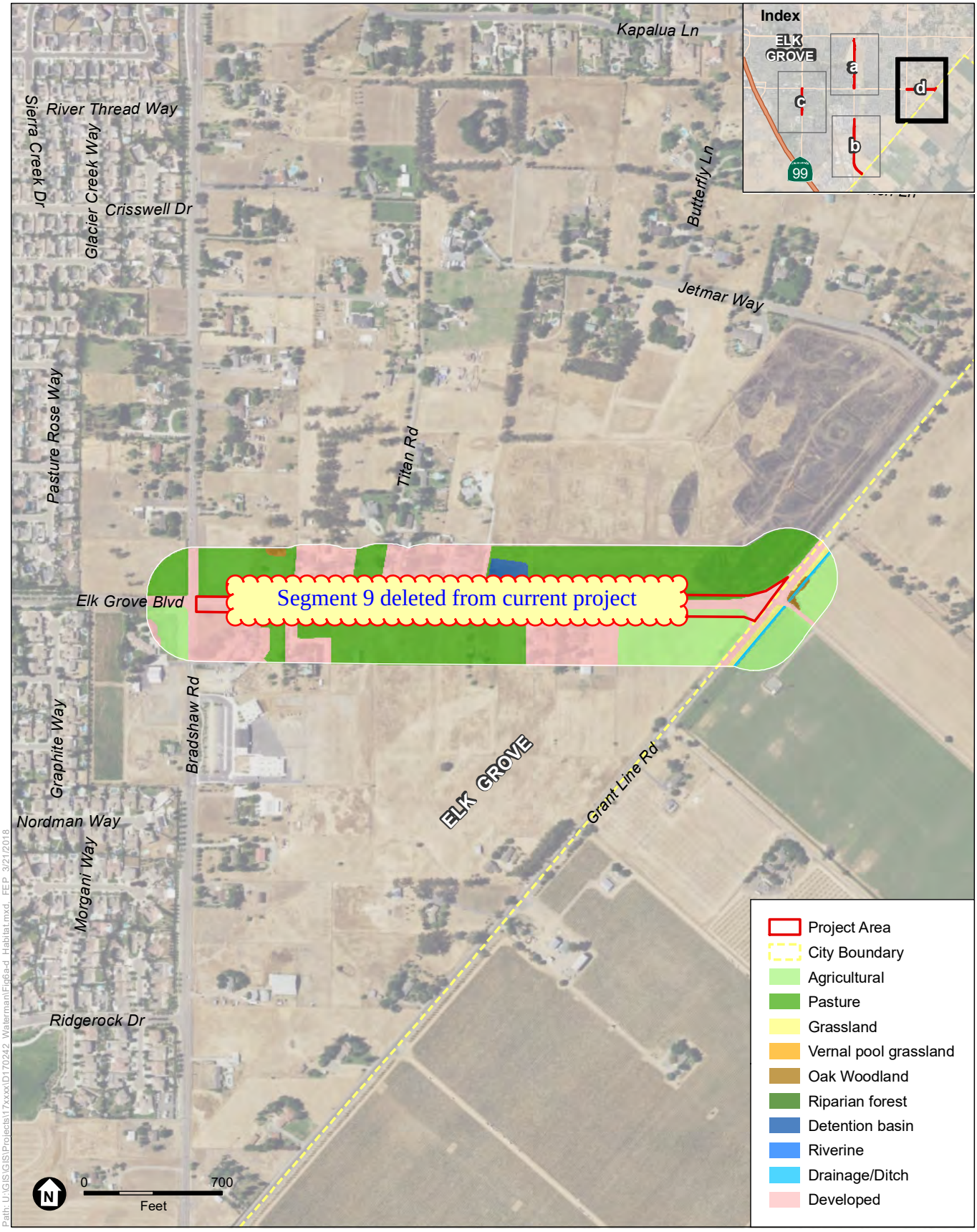


SOURCE: USDA, 2016; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 6c
Habitats

ESA

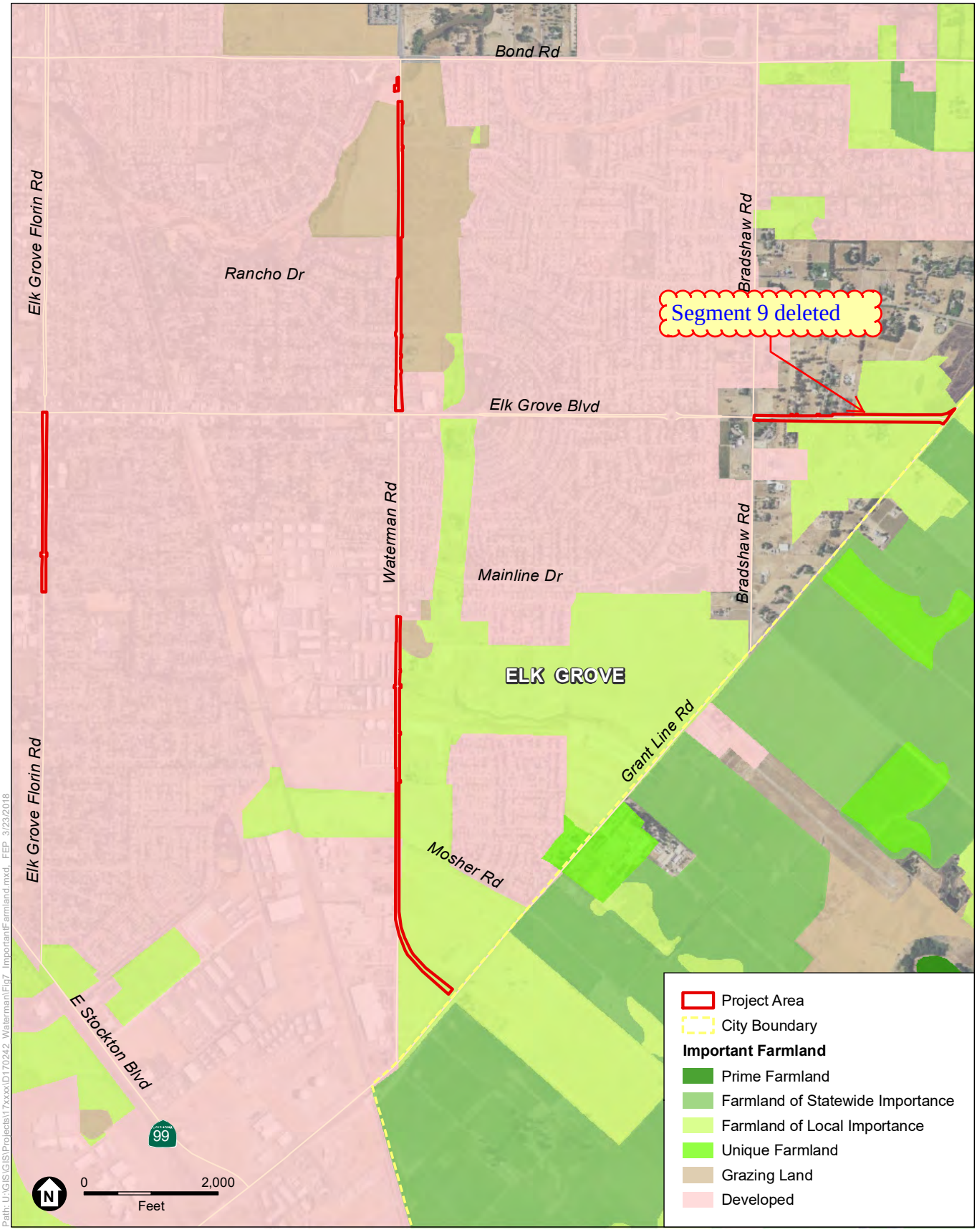


SOURCE: USDA, 2016; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 6d
Habitats

ESA



SOURCE: USDA, 2016; FMMP, 2016; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 7
Important Farmland

ESA

********** -->

Questionnaire to Determine Visual Impact Assessment (VIA) Level

Use the following questions and subsequent score as a guide to help determine the appropriate level of VIA documentation. This questionnaire assists the VIA preparer (i.e. Landscape Architect) in estimating the probable visual impacts of a proposed project on the environment and in understanding the degree and breadth of the possible visual issues. The goal is to develop a suitable document strategy that is thorough, concise and defensible.

Enter the project name and consider each of the ten questions below. Select the response that most closely applies to the proposed project and corresponding number on the right side of the table. Points are automatically computed at the bottom of the table and the total score should be matched to one of the five groups of scores at the end of the questionnaire that include recommended levels of VIA study and associated annotated outlines (i.e., minor, moderate, advanced/complex).

This scoring system should be used as a preliminary guide and should not be used as a substitute for objective analysis on the part of the preparer. Although the total score may recommend a certain level of VIA document, circumstances associated with any one of the ten question-areas may indicate the need to elevate the VIA to a greater level of detail. For projects done by others on the State Highway System, the District Landscape Architect should be consulted when scoping the VIA level and provide concurrence on the level of analysis used.

The Standard Environmental Reference, Environmental Handbook, Volume I: Chapter 27-Visual & Aesthetics Review lists preparer qualifications for conducting the visual impact assessment process. Landscape Architects receive formal training in the area of visual resource management and can appropriately determine which VIA level is appropriate.

Preparer Qualifications:

> "Scenic Resource Evaluations and VIAs are performed under the direction of licensed Landscape Architects. Landscape Architects receive formal training in the area of visual resource management with a curriculum that emphasizes environmental design, human factors, and context sensitive solutions. When recommending specific visual mitigation measures, Landscape Architects can appropriately weigh the benefits of these different measures and consider construction feasibility and maintainability."

Calculate VIA Level Score

PROJECT NAME: Elk Grove Arterial Roadways	
PROJECT EA: N/A	
PREPARER NAME: Karin Bouler	
FOR PROJECTS ON STATE HIGHWAY SYSTEM ONLY, NAME OF CALTRANS DISTRICT LANDSCAPE ARCHITECT (DLA) PROVIDING VIA QUESTIONNAIRE SCORE CONCURRENCE- IF DIFFERENT THAN ABOVE: For Projects on State Highway System Only, Enter DLA Name	
CHANGE TO VISUAL ENVIRONMENT	
1. Will the project result in a noticeable change in the physical characteristics of the existing environment? Consider all project components and construction impacts - both permanent and temporary, including landform changes, structures, noise barriers, vegetation removal, railing, signage, and contractor activities.	Low Level of Change (1 point) ▼
2. Will the project complement or contrast with the visual character desired by the community? Evaluate the scale and extent of the project features compared to the surrounding scale of the community. Is the project likely to give an urban appearance to an existing rural or suburban community? Do you anticipate that the change will be viewed by the public as positive or negative? Research planning documents, or talk with local planners and community representatives to understand the type of visual environment local residents envision for their community.	High Compatibility (1 point) ▼
3. What level of local concern is there for the types of project features (e.g., bridge structures, large excavations, sound barriers, or median planting removal) and construction impacts that are proposed? Certain project improvements can be of special interest to local citizens, causing a heightened level of public concern, and requiring a more focused visual analysis.	Low Concern (1 point) ▼
4. Will the project require redesign or realignment to minimize adverse change or will mitigation, such as landscape or architectural treatment, likely be necessary? Consider the type of changes caused by the project, i.e., can undesirable views be screened or will desirable views be permanently obscured so a redesign should be considered?	Mitigation Likely (1 point) ▼
5. Will this project, when seen collectively with other projects, result in an aggregate adverse change (cumulative impacts) in overall visual quality or character? Identify any projects (both Caltrans and local) in the area that have been constructed in recent years and those currently planned for future construction. The window of time and the extent of area applicable to possible cumulative impacts should be based on a reasonable anticipation of the viewing public's perception.	Cumulative Impacts Likely to Occur Within 6-10 Years (2 points) ▼

VIEWER SENSITIVITY	
1. What is the potential that the project proposal will be controversial within the community , or opposed by any organized group? This can be researched initially by talking with Caltrans and local agency management and staff familiar with the affected community's sentiments as evidenced by past projects and/or current information.	No Potential (0 point) ▼
2. How sensitive are potential viewer-groups likely to be regarding visible changes proposed by the project? Consider among other factors the number of viewers within the group, probable viewer expectations, activities, viewing duration, and orientation. The expected viewer sensitivity level may be scoped by applying professional judgment, and by soliciting information from other Caltrans staff, local agencies and community representatives familiar with the affected community's sentiments and demonstrated concerns.	Low Sensitivity (1 point) ▼
3. To what degree does the project' s aesthetic approach appear to be consistent with applicable laws, ordinances, regulations, policies or standards? Although the State is not always required to comply with local planning ordinances, these documents are critical in understanding the importance that communities place on aesthetic issues. The Caltrans Environmental Planning branch may have copies of the planning documents that pertain to the project. If not, this information can be obtained by contacting the local planning department. Also, many local and state planning documents can be found online at the California Land Use Planning Network.	High Compatibility (1 point) ▼
4. Are permits going to be required by outside regulatory agencies (i.e., Federal, State, or local)? Permit requirements can have an unintended consequence on the visual environment. Anticipated permits, as well as specific permit requirements - which are defined by the permitted, may be determined by talking with the project Environmental Planner and Project Engineer. Note: coordinate with the Caltrans representative responsible for obtaining the permit prior to communicating directly with any permitting agency.	Yes (3 points) ▼
5. Will the project sponsor or public benefit from a more detailed visual analysis in order to help reach consensus on a course of action to address potential visual impacts? Consider the proposed project features, possible visual impacts, and probable mitigation recommendations.	No (1 point) ▼
Calculate Total It is recommended that you print a copy of these calculations for the project file.	
PROJECT SCORE: 12	

Select An Outline Based Upon Project Score

The total score will indicate the recommended VIA level for the project. In addition to considering circumstances relating to any one of the ten questions-areas that would justify elevating the VIA level, also consider any other project factors that would have an effect on level selection.

SCORE 6-9

No noticeable visual changes to the environment are proposed and no further analysis is required. Print out a copy of this completed questionnaire for your project file or Preliminary Environmental Study (PES).

SCORE 10-14

Negligible visual changes to the environment are proposed. A brief Memorandum (see sample) addressing visual issues providing a rationale why a technical study is not required.

SCORE 15-19

Noticeable visual changes to the environment are proposed. An abbreviated VIA is appropriate in this case. The assessment would briefly describe project features, impacts and any avoidance and minimization measures. Visual simulations would be optional. Go to the Directions for using and accessing the Minor VIA Annotated Outline.

SCORE 20-24

Noticeable visual changes to the environment are proposed. A fully developed VIA is appropriate. This technical study will likely receive public review. Go to the Directions for using and accessing the Moderate VIA Annotated Outline.

SCORE 25-30

Noticeable visual changes to the environment are proposed. A fully developed VIA is appropriate that includes photo simulations. It is appropriate to alert the Project Development Team to the potential for highly adverse impacts and to consider project alternatives to avoid those impacts. Go to the Directions for using and accessing the Advanced/Complex VIA Annotated Outline.

Appendix B

Scenic Resource Evaluation and Visual Impact Assessment

ESA

ESA

2600 Capitol Avenue
Suite 200
Sacramento, CA 95816
916.564.4500 phone
916.564.4501 fax

www.esassoc.com

memorandum

date March 28, 2019

to Thaleena Bhuttal
Associate Environmental Planner
Caltrans - District 3

from Elizabeth Boyd, AICP
Senior Project Manager
Environmental Science Associates

subject **Scenic Resource Evaluation and Visual Impact Assessment for the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project [RPSTPL-5479(060)]**

Purpose

The City of Elk Grove (City) proposes to reconstruct, rehabilitate and provide bicycle lanes in each direction along segments of Waterman Road and Elk Grove Florin Road in the City of Elk Grove. The project would include widening where necessary to provide the added with for the bike lanes. The Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (project) has been reviewed for potential impacts to visual resources. Based on the completion of the "Questionnaire to Determine Visual Impact Assessment (VIA) Level," the project VIA Level Score is 12 (**Attachment 1**); therefore, a brief memorandum addressing visual issues providing rationale why a technical study is not required has been determined to be sufficient.

Project Description

The project will include pavement rehabilitation or surface treatment (as deemed necessary) on segments of Waterman Road and Elk Grove Florin Road, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in Eastern Elk Grove. The project will take place on the following segments:

1. Waterman Road – approximately 700 feet south of Bond Road to 850 feet north of Rancho Drive.
2. Waterman Road – approximately 850 feet north of Rancho Drive to Elk Grove Blvd.
3. Waterman Road – approximately 80 feet north of Dino Drive/Mainline Drive to Kent Street.
4. Waterman Road – Kent Street to approximately 400 feet south of Brinkman Court.

5. Waterman Road – approximately 400 feet south of Brinkman Court to Mosher Road.
6. Waterman Road – Mosher Road to approximately 1,000 feet south of Mosher Road.
7. Waterman Road – approximately 1,000 feet south of Mosher Road to Grant Line Road.
8. Elk Grove Florin Road – Elk Grove Blvd to Valley Oak Lane.

Segments 1, 5, and 6 will rehabilitate pavement and widen shoulders to accommodate a Class 2 Bike Lane in both directions.

Segments 2, 3, 4, 7, and 8 will have pavement rehabilitation or surface treatment, and restriping to provide a Class 2 Bike Lane in both directions.

The project will create a new mid-block pedestrian crossing along Elk Grove-Florin Road between Cadura Circle and Plaza Park Drive; and extend an existing sidewalk segment on the western side of Waterman Road to the Laguna Creek Trail entrance/parking area. Additionally, the project will also require utility relocations.

Construction of the project may occur in phases, depending on funding or other factors impacting schedule.

Project Need

The segments requiring pavement rehabilitation are of a condition that further deterioration would likely result in costlier replacement of pavement in the future. Further, the selected segments are shown in the City of Elk Grove's 2014 Bicycle, Pedestrian, and Trails Master Plan as having future Class 2 bike lanes. Implementation of the project would extend the useful life of the pavement, improve ride quality for both motorists and cyclists, and would fill in gaps in the existing Class 2 bike lane network in East Elk Grove, especially along Waterman Road.

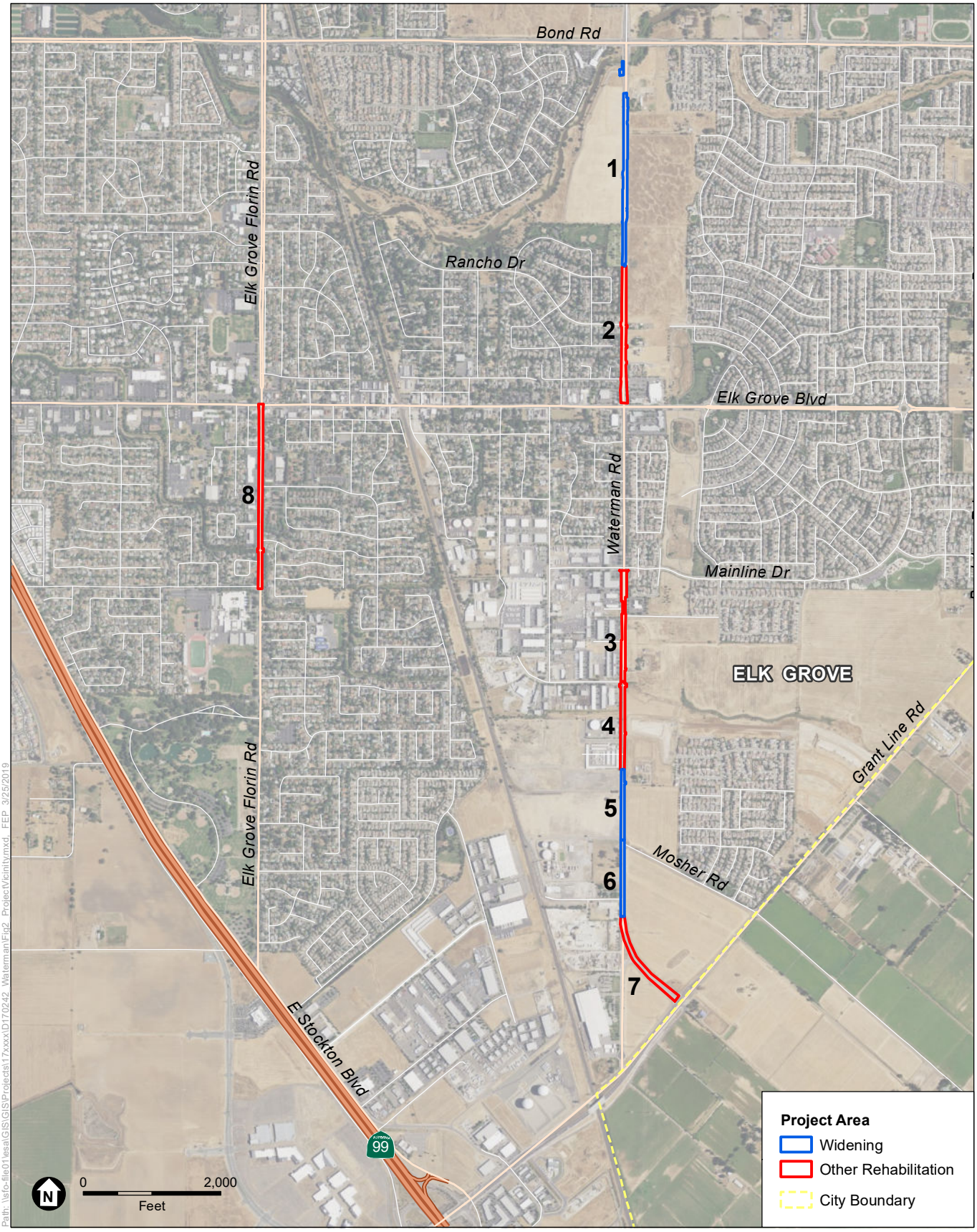
Visual Setting

See **Figure 1** for an overview of the various roadway segments.

Segment 1 of Waterman Road currently consists of two travel lanes approximately 10 feet wide with unpaved roadside shoulders and ditches, when present. Land use throughout Segment 1 includes rural lands and setting on the east side and a landfill and cemetery on the west side. Overhead power lines are visible throughout Waterman Road within the project area.

In Segment 2, Waterman Road widens to accommodate occasional left-hand turn lanes and sidewalks on the west side of the roadway. Land uses through Segment 2 include rural undeveloped land on the east side and residential development on the west side. At the intersection with Elk Grove Boulevard, each of the four corners contains commercial development. Overhead power lines are visible throughout Waterman Road within the project area.

Segment 3 of Waterman Road consists of two southbound lanes and one northbound lane with sidewalks along the west side of the roadway. Land uses throughout Segment 3 include rural undeveloped land on the east side and commercial businesses on the west side. Overhead power lines are visible throughout Waterman Road within the project area **(Figure 2)**.



SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 1

Project Vicinity

ESA

Arterial Roads Rehabilitation and Bicycle Lane Improvements Project / D170242.00

SOURCE: Google StreetView 2018

Figure 2
View looking south towards Segment 3 along Waterman Boulevard

Segment 4 of Waterman Road consists of two southbound lanes and one northbound lane with sidewalks along the west side of the roadway. Land uses throughout Segment 3 include rural undeveloped land on the east side and industrial/commercial on the west side. Overhead power lines are visible throughout Waterman Road within the project area.

Segment 5 of Waterman Road narrows back down to two travel lanes approximately 10 feet wide with unpaved roadside shoulders and ditches, when present. Rural, mostly undeveloped land is located on both sides of Segment 5. Overhead power lines are visible throughout Waterman Road within the project area.

Segment 6 of Waterman Road consists of two travel lanes approximately 10 feet wide with unpaved roadside shoulders and ditches, when present. Rural undeveloped land is located to the east and a mixture of vacant, residential, and industrial land uses are to the west. Overhead power lines are visible throughout Waterman Road within the project area.

Through Segment 7, Waterman Road widens to accommodate a large paved shoulder on the east side of the roadway. Land use throughout Segment 7 is typically rural undeveloped land on both sides of the roadway. Overhead power lines are visible throughout Waterman Road within the project area.

Segment 8 is located in a developed area along Elk Grove Florin Road with residential and commercial land uses throughout. Elk Grove Florin Road throughout Segment 8 consists of two travel lanes and a two-way middle turn lane with sidewalks and trees along both sides of the roadway.

Viewer Sensitivity

The main viewers of the reconstructed roadway and improvements would be the motorists, who are considered to have low sensitivity to the visual changes since they would have limited exposure to the project elements as they travel the roadway. Pedestrians and bicyclists are roadway users with low to moderate sensitivity to change. While they move through the corridor similar to motorists, they travel more slowly and have a longer exposure to visual changes; however, this project includes changes related to providing a better experience for pedestrians and bicyclists.

There are smaller groups of residential viewers along Waterman Road, Elk Grove Florin Road, and Elk Grove Boulevard, who may have a higher sensitivity to visual changes as they have greater long-term exposure to the project site. While residential viewers may have higher sensitivity, the changes would be minimal. Altogether, all user groups' sensitivities to the project are considered low.

Resource Change

The proposed project would widen the roadway in Segments 1, 5, and 6 to accommodate the addition of bicycle lanes in each direction and potential drainage improvements. All other segments would be rehabilitated and restriped to include bicycle lanes in each direction.

The reconstruction and rehabilitation on Waterman Road would be completed using black asphalt, consistent with the current roadway material. The bicycle lanes would also be constructed using black asphalt and would extend six feet from the vehicle travel lanes on each side of the road.

The project would not adversely affect any "Designated Scenic Resource" as defined by CEQA statutes or guidelines, or by Caltrans policy. There are no designated scenic highways or eligible-for-designation scenic highways in the project area.

The modifications introduced by this project are considered highly compatible with the existing character of the corridors. Therefore, the project would result in a very low-to-no visual resource change.

Viewer Response

As described in Viewer Sensitivity, the various user groups (pedestrians, bicyclists, motorists, and residents) would have a low sensitivity to the project's changes. Most of the project segments are not visible from the residential uses. Furthermore, while residential viewers may have higher sensitivity, the improvements along areas with residential uses would include minimal visual changes as the roadways are existing facilities and views of power lines and/or landscaping are more prominent in the visual landscape.

The minimal changes, combined with the lower sensitivities of user groups to these changes, ensure that viewers would not be negatively affected by the visual changes in the project corridors.

Visual Impacts

The project would not result in substantial adverse impacts to the visual environment. The vertical clearances and horizontal widths for Waterman Road and Elk Grove-Florin Road would be minimized and would only slightly alter the current visual landscape since they are existing facilities. Materials and design of site features are proposed to be appropriate for the rural visual character of the project surroundings.

The project would not substantially alter visual resources; therefore, the project would not result in a significant visual impact.

CEQA Aesthetics Evaluation

Appendix G, Section 1, of the California Environmental Quality Act (CEQA) Guidelines requires that the following is considered when determining if project activities would create a potentially significant impact to aesthetic resources. Would the project:

A) Have a substantial adverse effect on a scenic vista?

A scenic vista is defined as a viewpoint that provides expansive views of a highly valued landscape for the benefit of the general public. In addition, some scenic vistas are officially designated by public agencies, or informally designated by tourists and tourist guides. A substantial adverse effect to such a scenic vista is one that degraded the view from such a designated view spot. None of the segments are considered a scenic corridor or have views which would be considered a scenic vista. Therefore, the project would not have an adverse impact on a scenic vista.

B) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

The project would not adversely affect any "Designated Scenic Resource" as defined by CEQA statutes or guidelines, or by Caltrans policy. There are no designated scenic highways or eligible-for-designation scenic highways in the project area.

C) Substantially degrade the existing visual character or quality of the site and its surroundings?

The project would not result in substantial adverse impacts to the visual environment. The proposed improvements would only slightly alter the current visual landscape as the affected corridors are existing facilities. The materials used would be similar to the existing materials, including the paint used for restriping and the asphalt used for widening/resurfacing. The slight changes to the views would not alter the visual character or quality of the segments.

D) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

There is existing security and street lighting along the corridor. The project would not include any additional lighting; nor would any of the materials include anything that would be a new source of glare. There would be no impact related to light or glare that would adversely affect views in the area.

Attachment 1

Caltrans Visual Impact Assessment Questionnaire

********** -->

Questionnaire to Determine Visual Impact Assessment (VIA) Level

Use the following questions and subsequent score as a guide to help determine the appropriate level of VIA documentation. This questionnaire assists the VIA preparer (i.e. Landscape Architect) in estimating the probable visual impacts of a proposed project on the environment and in understanding the degree and breadth of the possible visual issues. The goal is to develop a suitable document strategy that is thorough, concise and defensible.

Enter the project name and consider each of the ten questions below. Select the response that most closely applies to the proposed project and corresponding number on the right side of the table. Points are automatically computed at the bottom of the table and the total score should be matched to one of the five groups of scores at the end of the questionnaire that include recommended levels of VIA study and associated annotated outlines (i.e., minor, moderate, advanced/complex).

This scoring system should be used as a preliminary guide and should not be used as a substitute for objective analysis on the part of the preparer. Although the total score may recommend a certain level of VIA document, circumstances associated with any one of the ten question-areas may indicate the need to elevate the VIA to a greater level of detail. For projects done by others on the State Highway System, the District Landscape Architect should be consulted when scoping the VIA level and provide concurrence on the level of analysis used.

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> "Scenic Resource Evaluations and VIAs are performed under the direction of licensed Landscape Architects. Landscape Architects receive formal training in the area of visual resource management with a curriculum that emphasizes environmental design, human factors, and context sensitive solutions. When recommending specific visual mitigation measures, Landscape Architects can appropriately weigh the benefits of these different measures and consider construction feasibility and maintainability."

Calculate VIA Level Score

PROJECT NAME: Elk Grove Arterial Roadways	
PROJECT EA: N/A	
PREPARER NAME: Karin Bouler	
FOR PROJECTS ON STATE HIGHWAY SYSTEM ONLY, NAME OF CALTRANS DISTRICT LANDSCAPE ARCHITECT (DLA) PROVIDING VIA QUESTIONNAIRE SCORE CONCURRENCE- IF DIFFERENT THAN ABOVE: For Projects on State Highway System Only, Enter DLA Name	
CHANGE TO VISUAL ENVIRONMENT	
1. Will the project result in a noticeable change in the physical characteristics of the existing environment? Consider all project components and construction impacts - both permanent and temporary, including landform changes, structures, noise barriers, vegetation removal, railing, signage, and contractor activities.	Low Level of Change (1 point) ▼
2. Will the project complement or contrast with the visual character desired by the community? Evaluate the scale and extent of the project features compared to the surrounding scale of the community. Is the project likely to give an urban appearance to an existing rural or suburban community? Do you anticipate that the change will be viewed by the public as positive or negative? Research planning documents, or talk with local planners and community representatives to understand the type of visual environment local residents envision for their community.	High Compatibility (1 point) ▼
3. What level of local concern is there for the types of project features (e.g., bridge structures, large excavations, sound barriers, or median planting removal) and construction impacts that are proposed? Certain project improvements can be of special interest to local citizens, causing a heightened level of public concern, and requiring a more focused visual analysis.	Low Concern (1 point) ▼
4. Will the project require redesign or realignment to minimize adverse change or will mitigation, such as landscape or architectural treatment, likely be necessary? Consider the type of changes caused by the project, i.e., can undesirable views be screened or will desirable views be permanently obscured so a redesign should be considered?	Mitigation Likely (1 point) ▼
5. Will this project, when seen collectively with other projects, result in an aggregate adverse change (cumulative impacts) in overall visual quality or character? Identify any projects (both Caltrans and local) in the area that have been constructed in recent years and those currently planned for future construction. The window of time and the extent of area applicable to possible cumulative impacts should be based on a reasonable anticipation of the viewing public's perception.	Cumulative Impacts Likely to Occur Within 6-10 Years (2 points) ▼

VIEWER SENSITIVITY	
1. What is the potential that the project proposal will be controversial within the community , or opposed by any organized group? This can be researched initially by talking with Caltrans and local agency management and staff familiar with the affected community's sentiments as evidenced by past projects and/or current information.	No Potential (0 point) ▼
2. How sensitive are potential viewer-groups likely to be regarding visible changes proposed by the project? Consider among other factors the number of viewers within the group, probable viewer expectations, activities, viewing duration, and orientation. The expected viewer sensitivity level may be scoped by applying professional judgment, and by soliciting information from other Caltrans staff, local agencies and community representatives familiar with the affected community's sentiments and demonstrated concerns.	Low Sensitivity (1 point) ▼
3. To what degree does the project' s aesthetic approach appear to be consistent with applicable laws, ordinances, regulations, policies or standards? Although the State is not always required to comply with local planning ordinances, these documents are critical in understanding the importance that communities place on aesthetic issues. The Caltrans Environmental Planning branch may have copies of the planning documents that pertain to the project. If not, this information can be obtained by contacting the local planning department. Also, many local and state planning documents can be found online at the California Land Use Planning Network.	High Compatibility (1 point) ▼
4. Are permits going to be required by outside regulatory agencies (i.e., Federal, State, or local)? Permit requirements can have an unintended consequence on the visual environment. Anticipated permits, as well as specific permit requirements - which are defined by the permitted, may be determined by talking with the project Environmental Planner and Project Engineer. Note: coordinate with the Caltrans representative responsible for obtaining the permit prior to communicating directly with any permitting agency.	Yes (3 points) ▼
5. Will the project sponsor or public benefit from a more detailed visual analysis in order to help reach consensus on a course of action to address potential visual impacts? Consider the proposed project features, possible visual impacts, and probable mitigation recommendations.	No (1 point) ▼
Calculate Total It is recommended that you print a copy of these calculations for the project file.	
PROJECT SCORE: 12	

Select An Outline Based Upon Project Score

The total score will indicate the recommended VIA level for the project. In addition to considering circumstances relating to any one of the ten questions-areas that would justify elevating the VIA level, also consider any other project factors that would have an effect on level selection.

SCORE 6-9

No noticeable visual changes to the environment are proposed and no further analysis is required. Print out a copy of this completed questionnaire for your project file or Preliminary Environmental Study (PES).

SCORE 10-14

Negligible visual changes to the environment are proposed. A brief Memorandum (see sample) addressing visual issues providing a rationale why a technical study is not required.

SCORE 15-19

Noticeable visual changes to the environment are proposed. An abbreviated VIA is appropriate in this case. The assessment would briefly describe project features, impacts and any avoidance and minimization measures. Visual simulations would be optional. Go to the Directions for using and accessing the Minor VIA Annotated Outline.

SCORE 20-24

Noticeable visual changes to the environment are proposed. A fully developed VIA is appropriate. This technical study will likely receive public review. Go to the Directions for using and accessing the Moderate VIA Annotated Outline.

SCORE 25-30

Noticeable visual changes to the environment are proposed. A fully developed VIA is appropriate that includes photo simulations. It is appropriate to alert the Project Development Team to the potential for highly adverse impacts and to consider project alternatives to avoid those impacts. Go to the Directions for using and accessing the Advanced/Complex VIA Annotated Outline.

Appendix C
Air Quality Conformity Analysis

ESA

Air Quality Conformity Analysis

Arterial Roads Rehabilitation and Bicycle Lane Improvement Project

City of Elk Grove, County of Sacramento

RPSTPL 5479 (060)

August 2019

Prepared by: _____ Date: August 19, 2019

Luke Evans, Senior Managing Associate
Environmental Science Associates (ESA)

Caltrans

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Section 1. Introduction and Project Description

This Air Quality Conformity Analysis contains the information that is required to make a project-level air quality conformity determination for the Arterial Roads Rehabilitation and Bicycle Lane Improvement Project. This analysis has been prepared to be consistent with information published by Federal Highway Administration (FHWA) related to Project-Level Conformity Analysis, the Standard Environmental Reference (SER) Air Quality Conformity Findings Checklist (see Appendix B, Attachment 1), applicable U.S. EPA project-level analysis guidance, the Transportation Conformity Regulations at 40 CFR 93 Subpart A, and Section 176(c) of the Federal Clean Air Act (42 USC 7506(c)).

This analysis only addresses the conformity requirements of the Federal Clean Air Act. It does not address general air quality analysis or studies conducted for the National Environmental Policy Act (NEPA) or the California Environmental Quality Act (CEQA), and only addresses pollutants for which the project area is designated nonattainment, or attainment with an approved Maintenance SIP, by the U.S. EPA.

This report is intended to provide all information needed by FHWA to make a project-level conformity determination for a project that falls under 23 USC 327 NEPA Assignment to Caltrans; or to support a full project-level conformity determination by Caltrans under 23 CFR 326 NEPA Assignment for projects that require a project-level conformity determination (including regionally significant projects as defined in 40 CFR 93.101), and are categorically excluded from NEPA analysis under 23 CFR 771.117(c)(22) or 23 CFR 771.117(c)(23).

1.1. Project Description

The City of Elk Grove (City) proposes the Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (proposed project). Figure 1 shows the regional location of the proposed project. The project would include pavement rehabilitation or surface treatment (as deemed necessary) on segments of Waterman Road and Elk Grove Florin Road (see Figure 2), and as needed would widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in Eastern Elk Grove. The project would take place on the following segments:

1. Waterman Road – approximately 700 feet south of Bond Road to 850 feet north of Rancho Drive.
2. Waterman Road – approximately 850 feet north of Rancho Drive to Elk Grove Blvd.
3. Waterman Road – approximately 80 feet north of Dino Drive/Mainline Drive to Kent Street.

4. Waterman Road – Kent Street to approximately 400 feet south of Brinkman Court.
5. Waterman Road – approximately 400 feet south of Brinkman Court to Mosher Road.
6. Waterman Road – Mosher Road to approximately 1,000 feet south of Mosher Road.
7. Waterman Road – approximately 1,000 feet south of Mosher Road to Grant Line Road.
8. Elk Grove Florin Road – Elk Grove Blvd to Valley Oak Lane.

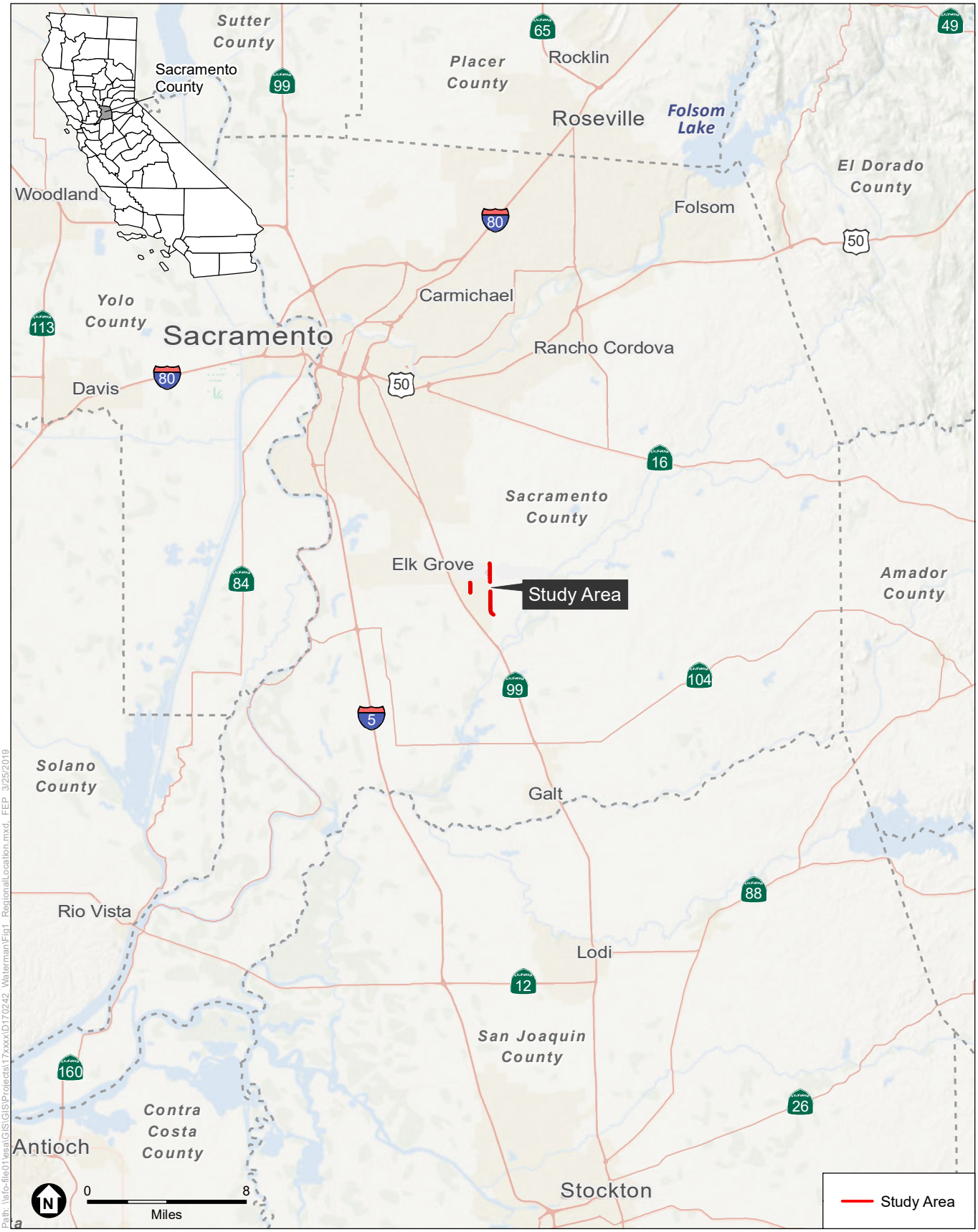
Segments 1, 5, and 6 would rehabilitate pavement and widen shoulders to accommodate a Class 2 Bike Lane in both directions.

Segments 2, 3, 4, 7, and 8 would have pavement rehabilitation or surface treatment, and restriping to provide a Class 2 Bike Lane in both directions.

Segment 2 would also include restriping to move an existing southbound lane drop from beginning near Waterman Road's intersection with Brinkman Court to commencing further north at Dino Drive. This restriping is required to fit Class 2 Bike Lanes within the existing roadway surface.

The project would create a new mid-block pedestrian crossing along Elk Grove-Florin Road between Cadura Circle and Plaza Park Drive; and extend an existing sidewalk segment on the western side of Waterman Road to the Laguna Creek Trail entrance/parking area. Additionally, the project would also require utility relocations.

The entire project could be constructed in one season, but it is possible that construction would occur phases or segments, depending on funding or other factors impacting schedule.

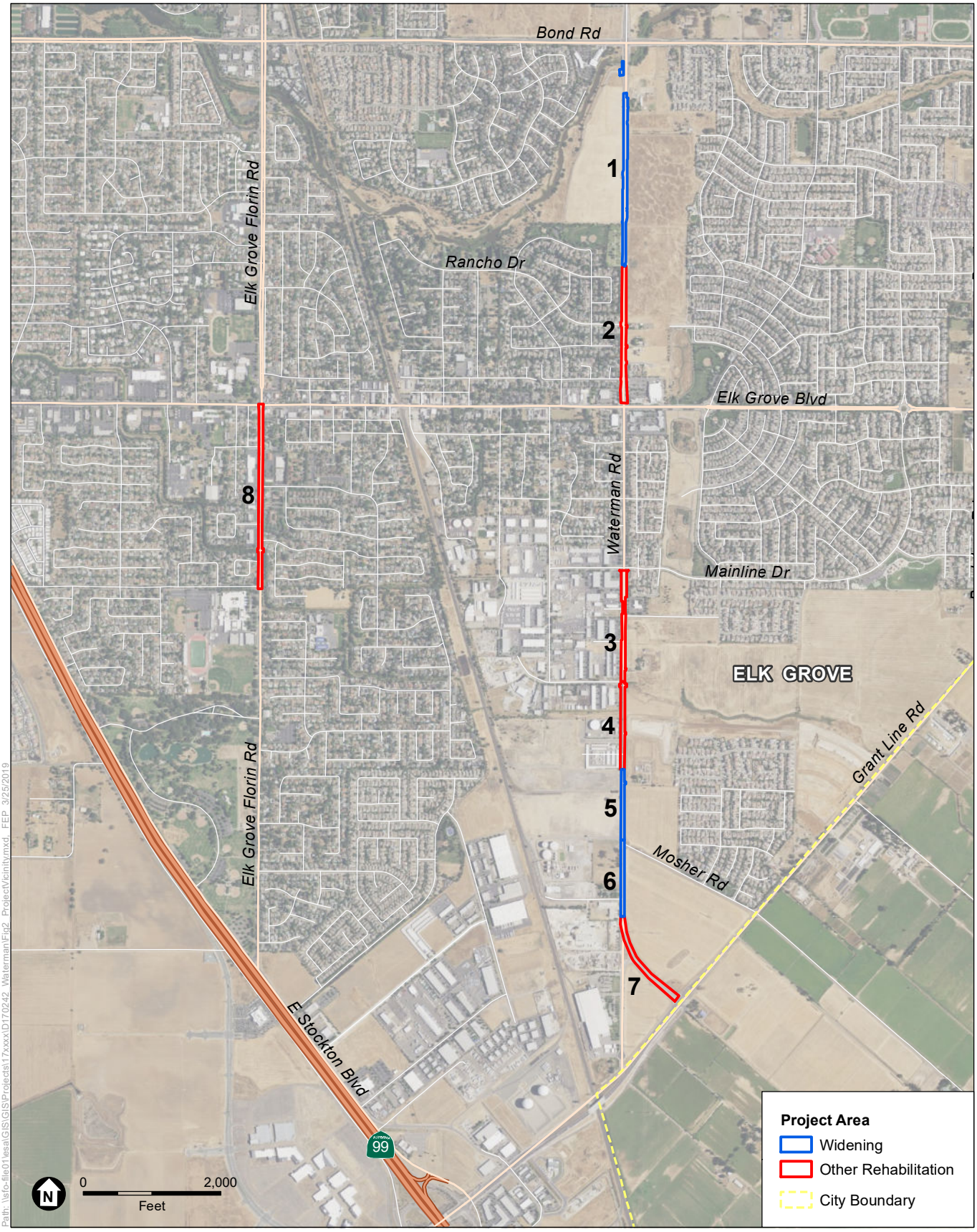


SOURCE: Esri, 2015; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 1
Regional Location

ESA



SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2

Project Vicinity

ESA

1.2. Air Quality Regulatory Framework

Table 1 shows that the proposed project is located in an area that is considered a federal nonattainment area for O_3 and $PM_{2.5}$, an attainment-maintenance area for PM_{10} standards, and an attainment area for CO. This analysis focuses on these criteria pollutants. The conformity process does not address pollutants for which the area is attainment/unclassified, mobile source air toxics, other toxic air contaminants or hazardous air pollutants, or greenhouse gases.

Table 1. Project Area Attainment Status

Criteria Pollutant	Federal Attainment Status
Ozone (O_3)	Severe nonattainment
Nitrogen Dioxide (NO_2)	Unclassified/Attainment
Carbon Monoxide (CO)	Attainment
Particulate Matter (PM_{10})	Attainment- Maintenance
Particulate Matter ($PM_{2.5}$)	Moderate nonattainment
Source: U.S. Environmental Protection Agency. 2019. California Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants. Available at: https://www3.epa.gov/airquality/greenbook/anayo_ca.html. Accessed August 2, 2019.	

1.3. Public Review Comments Related to Air Quality Conformity

Circulation for public comment was not required because the NEPA determination for this project is a Categorical Exclusion.

Section 2. Regional Conformity

The proposed project is located in the Sacramento Area Council of Governments (SACOG) region. Within the Sacramento region, the Regional Transportation Plan (RTP) is referred to as the 2016 Metropolitan Transportation Plan/Sustainable Communities Strategy: Building a Sustainable System (2016 MTP/SCS) and the Federal Transportation Improvement Program (FTIP) is referred to as the Metropolitan Transportation Improvement Program (MTIP). The proposed project's design concept and scope have not changed significantly from what was analyzed in the regional emission analysis. This analysis found that the plan, which takes into account regionally significant projects and financial constraint, would conform to the state implementation plan(s) (SIP(s)) for attaining the National Ambient Air Quality Standards (NAAQS) as provided in Section 176(c) of the Clean Air Act. FHWA determined that the RTP conforms to the SIP on December 15, 2014. Additional documentation related to the regional emissions analysis is contained in Appendix B.

Further, the project can be considered an intersection channelization project, as listed in Table 3 of 40 CFR 93.127. Therefore, no regional emission analysis is necessary.

Section 3. Localized Impact (Hot-Spot) Conformity

3.1. Carbon Monoxide Hot-Spot Analysis

The project is located in an area that is designated attainment-unclassified for carbon monoxide (CO). Therefore, no project-level conformity analysis is necessary for CO.

3.2. $PM_{2.5}$/PM_{10} Hot-Spot Analysis

The proposed project is not considered a project of air quality concern (POAQC) for PM_{10} and/or $PM_{2.5}$ because it does not meet the definition of a POAQC as defined in U.S. EPA's Transportation Conformity Guidance.

The following questions are directly associated with the EPA's March 10, 2006 Final Rule. The associated discussions address why the proposed project does not qualify as a POAQC pursuant to the March 10, 2006 Final Rule:

1. *New or expanded highway projects that have a significant number of or significant increase in diesel vehicles.*

   The proposed project consists of roadway improvements that would not have a significant increase in diesel vehicles. A significant number is defined as greater than 125,000 annual average daily traffic (AADT) and 8 percent or more of such AADT is diesel truck traffic, or in practice 10,000 truck AADT or more regardless of total AADT. A significant increase is defined in practice as a 10 percent increase in heavy duty truck traffic. The proposed project would result in the rehabilitation of pavement, widen shoulders to accommodate a Class 2 Bike Lane and roadway restriping. Since the proposed project would not contribute to traffic volumes along any of the roadways within the City, the proposed project is not expected to have a significant number of or significance increase in diesel vehicles or decrease in traffic volumes.

2. *Projects affecting intersections that are at a Level of Service D, E, F, with a significant number of diesel vehicles, or that that will change to Level of Service D, E, or F because of increased traffic volumes from a significant number of diesel vehicles related to the project.*

   As discussed in Chapter 5.13 (Transportation) of the City of Elk Grove General Plan EIR, the intersection within the proposed project area would result in a LOS between E and F in the year 2036. Although implementation of the City's general plan would result in the degradation of LOS at intersections within the proposed project area, the proposed

project by itself would not be a significant number or increase in diesel vehicles due to the implementation of the proposed project.

3. *New bus and rail terminals and transfer points that have a significant number of diesel vehicles congregating at a single location.*

   The proposed project does not include new bus or rail terminal and transfer points.

4. *Expanded bus and rail terminals and transfer points that significantly increase the number of diesel vehicles congregating at a single location.*

   The proposed project does not include expanded bus or rail terminals and transfer points.

5. *Projects in or affecting locations, areas, or categories of sites which are identified in the $PM_{2.5}$ or PM_{10} implementation plan or implementation plan submission, as appropriate, as sites of possible violation.*

   The proposed project does not affect locations, areas, or categories of sites that are identified in the PM_{10} and $PM_{2.5}$ applicable implementation plan or implementation plan submission, as appropriate, as sites of violation or possible violation.

As demonstrated above, the proposed project would not involve a significant amount of diesel truck traffic and is in compliance with the RTP/FTIP. Therefore, the project meets the Clean Air Act requirements and is not a project of air quality concern under 40 CFR 93.123(b)(1) and would not cause or contribute to a violation of NAAQS for $PM_{2.5}$ and PM_{10}. Therefore, according to the March 10, 2006 Final Rule, this project would not be considered a POAQC under 40 CFR 93.123(b)(1). The project has undergone Interagency Consultation (IAC) regarding POAQC determination. IAC participants concurred that the project is not a POAQC (see Appendix C).

3.3. Construction-Related Hot-Spot Emissions

40 CFR 93.123(c)(5) states that: "CO, PM_{10}, and $PM_{2.5}$ hot-spot analyses are not required to consider construction-related activities which cause temporary increases in emissions. Each site which is affected by construction-related activities shall be considered separately, using established 'Guideline' methods. Temporary increases are defined as those which occur only during the construction phase and last five years or less at any individual site." Because construction of the project is expected to last less than five years, construction-related emissions related to it are not considered in the project-level or regional conformity analysis.

Appendix A. Public Review Comments and Responses Related to Air Quality Conformity

Circulation for public comment was not required because the NEPA determination for this project is a Categorical Exclusion.

Appendix B. Documentation Related to Regional Conformity

Regional Emissions Analysis Conducted for Conforming RTP

The regional emissions analysis found that regional emissions will not exceed the SIP's emission budgets for mobile sources in the build year, a horizon year at least 20 years from when conformity analysis started, and additional years meeting conformity regulation requirements for periodic analysis. The regional emissions analysis was based on the latest population and employment projections for El Dorado, Placer, Sacramento, Sutter, Yolo, and Yuba counties that were adopted by the Sacramento Area Council of Governments (SACOG) at the time the conformity analysis was started on November 19, 2014. These assumptions are less than five years old. The modeling was conducted using current and future population, employment, traffic, and congestion estimates. The traffic data, including the fleet mix data, were based on the most recently available vehicle registration data included in the EMFAC model. EMFAC 2011 was used, which was the most recent version of the model developed by the California Air Resources Board and approved for use in California by the U.S. EPA at the time of the analysis.

Public and Interagency Consultation Process for TIP

The federal TIP was developed in accordance with SACOG policies for community input and interagency consultation procedures. These procedures ensure that the public has adequate opportunity to be informed of the federal TIP development process and encourages public participation and comment.

The proposed project was included in the regional emissions analysis found in SACOG's 2016 MTP/SCS Project ID SAC25011. On December 15, 2014, the FHWA confirmed that the 2016 MTP/SCS is consistent with the SIP(s) for attaining and maintaining the NAAQS as provided in Section 176(c) of the CAA. Since the proposed project is consistent with the 2016 MTP/SCS, the proposed project would also be consistent with the SIP for attaining and/or maintaining the NAAQS as provided in Section 176(c) of the federal CAA.

Table A-1. SACOG 2016 MTP/SCS Project List

Project ID	Included in DPS	COUNTY	LEAD AGENCY	TITLE	PROJECT DESCRIPTION	Completion Timing	TOTAL COST (2015 Dollars)	Status
SAC25011	Yes	Sacramento	City of Elk Grove	Arterial Roads Rehabilitation Project	In Elk Grove, on segments of Waterman Rd from Bond to Elk Grove Blvd, on Waterman Road from Kent Street to Grant Line Road, and on Elk Grove Florin Road from Elk Grove Blvd to Valley Oak, minor shoulder improvements and Class II bike lanes.	2017	$2,259,000	Programmed

SACOG, 2016. 2016 Metropolitan Transportation Plan/Sustainable Communities Strategy. Appendix A. March, 2017.

ATTACHMENT 1 – Transportation Air Quality Conformity Findings Checklist

Transportation Air Quality Conformity Findings Checklist

Project Name:	Elk Grove Arterial Roads Rehabilitation and Bicycle Lane Improvement Project
Dist-Co-Rte-PM:	03-SAC-0-0 **EA:**
Federal-Aid No.:	RPSTPL 5479 (060)
Document Type:	☒ **23 USC 326 CE** ☐ **23 USC 327 CE** ☐ **EA** ☐ **EIS**

Step 1. Is the project located in a nonattainment or maintenance area for ozone, nitrogen dioxide, carbon monoxide (CO), PM2.5, or PM10 per EPA's Green Book listing of non-attainment areas?

☐ If no, go to Step 17. **Transportation conformity does not apply to the project.**

☒ If yes, go to Step 2.

Step 2. Is the project exempt from conformity per 40 CFR 93.126 or 40 CFR 93.128?

☐ If yes, go to Step 17. **The project is exempt from all project-level conformity requirements (40 CFR 93.126 or 128)** (check one box below and identify the project type, if applicable).

- ☐ 40 CFR 93.126[1] Project type from Table 2: _____
- ☐ 40 CFR 93.128

☒ If no, **go** to Step 3.

Step 3. Is the project exempt from regional conformity per 40 CFR 93.127?

☒ If yes, go to Step 8. **The project is exempt from regional conformity requirements (40 CFR 93.127)** (identify the project type). Project type: Intersection channelization

☐ If no, go to Step 4.

Step 4. Is the project located in a region with a currently conforming RTP and TIP?

☐ If yes, t**he project is included in a currently conforming RTP and TIP per 40 CFR 93.115. The project's design and scope have not changed significantly from what was assumed in RTP conformity analysis (40 CFR 93.115[b])** Go to Step 8.

☐ If no and the project is located in an isolated rural area, go to Step 5.

☐ If no and the project is not located in an isolated rural area, STOP and do not proceed until a conforming RTP and TIP are adopted.

Step 5. For isolated rural areas, is the project regionally significant per 40 CFR 93.101, based on review by Interagency Consultation?

☐ If yes, go to Step 6.

☐ If no, go to Step 8. **The project, located in an isolated rural area, is not regionally significant and does not require a regional emissions analysis (40 CFR 93.101 and 93.109[l]).**

Step 6. Is the project included in another regional conformity analysis that meets the isolated rural area analysis requirements per 40 CFR 93.109, including Interagency Consultation and public involvement?

☐ If yes, go to Step 8. **The project, located in an isolated rural area, has met its regional analysis requirements through inclusion in a previously-approved regional conformity analysis that meets current requirements (40 CFR 93.109[l]).**

☐ If no, go to Step 7.

Step 7. The project, located in an isolated rural area, requires a separate regional emissions analysis.

☐ **Regional emissions analysis for regionally significant project, located in an isolated rural area, is complete. Regional conformity analysis was conducted that includes the project and reasonably foreseeable regionally significant projects for at least 20 years. Interagency Consultation and public participation were conducted. Based on the analysis, the interim or emission budget conformity tests applicable to the area are met (40 CFR 93.109[l] and 95.105).**[2] Go to Step 8.

Step 8. Is the project located in a CO nonattainment or maintenance area? (South Coast Air Basin only)

☒ If no, go to Step 9. **CO conformity analysis is not required.**

☐ If yes, **hot-spot analysis requirements for CO per the** CO Protocol (or per EPA's modeling guidance, CAL3QHCR can be used with EMFAC emission factors[3]) **have been met. Project will not cause or contribute to a new localized CO violation (40 CFR 93.116 and 93.123)**[4]. Go to Step 9.

---

[1] Please refer to Clarifications on Exempt Project Determinations (http://www.dot.ca.gov/ser/downloads/guidance/aq-clarifications-exempt-project-determinations.pdf) to verify exempt project type from Table 2. Road diets, auxiliary lanes less than one-mile, and ramp metering may be exempt under "projects that correct, improve, or eliminate a hazardous location or feature."

[2] The analysis must support this conclusion before going to the next step.

[3] Use of the CO Protocol is strongly recommended due to its use of screening methods to minimize the need for modeling. When modeling is needed, the Protocol simplifies the modeling approach. Use of CAL3QHCR must follow U.S. EPA's latest CO hot spot guidance, using EMFAC instead of MOVES; see: http://www.epa.gov/otaq/stateresources/transconf/projectlevel-hotspot.htm#co-hotspot.

[4] As of October 1, 2007, there are no CO nonattainment areas in California. Therefore, the requirements to not worsen existing violations and to reduce/eliminate existing violations do not apply.

Step 9. Is the project located in a PM10 and/or a PM2.5 nonattainment or maintenance area?

☐ If no, go to Step 13. **PM2.5/PM10 conformity analysis is not required.**

☒ If yes, go to Step 10.

Step 10. Is the project considered to be a Project of Air Quality Concern (POAQC), as described in EPA's Transportation Conformity Guidance for PM 10 and PM 2.5?

☒ If no, **the project is not a project of concern for PM10 and/or PM2.5 hot-spot analysis based on 40 CFR 93.116 and 93.123 and EPA's Hot-Spot Analysis Guidance. Interagency Consultation concurred with this determination on April 16, 2019**. Go to Step 12.

☐ If yes, go to Step 11.

Step 11. The project is a POAQC.

☐ **The project is a project of concern for PM10 and/or PM2.5 hot-spot analysis based on 40 CFR 93.116 and 93.123, and EPA's Hot-Spot Guidance. Interagency Consultation concurred with this determination on _____. Detailed PM hot-spot analysis, consistent with 40 CFR 93.116 and 93.123 and EPA's Hot-Spot Guidance, shows that the project would not cause or contribute to, or worsen, any new localized violation of PM10 and/or PM2.5 standards.** Go to Step 12.

Step 12. Does the approved PM SIP include any PM10 and/or PM2.5 control measures that apply to the project, and has a written commitment been made as part of the air quality analysis to implement the identified SIP control measures? [Control measures can be found in the applicable Federal Register notice at: https://www.epa.gov/state-and-local-transportation/conformity-adequacy-review-region-9#ca.]

☒ If yes, **a written commitment is made to implement the identified SIP control measures for PM10 and/or PM2.5 through construction or operation of this project (40 CFR 93.117).** Go to Step 14.

☐ If no, go to Step 13.

Step 13a. Have project-level mitigation or control measures for CO, PM10, and/or PM2.5, included as part of the project's design concept and scope, been identified as a condition of the RTP or TIP conformity determination? AND/OR

Step 13b. Are project-level mitigation or control measures for CO, PM10, and/or PM2.5 included in the project's NEPA document? AND

Step 13c (applies only if Step 13a and/or 13b are answered "yes"). Has a written commitment been made as part of the air quality analysis to implement the identified measures?

☐ If yes to 13a and/or 13b and 13c, **a written commitment is made to implement the identified mitigation or control measures for CO, PM10, and/or PM2.5 through construction or operation of this project. These mitigation or control measures are identified in the project's NEPA document and/or as conditions of the RTP or TIP conformity determination[1] (40 CFR 93.125(a)).** Go to Step 14.

☐ If no, go to Step 14.

Step 14. Does the project qualify for a Categorical Exclusion pursuant to 23 USC 326?

☒ If yes, go to step 15.

☐ If no, go to Step 16.

Step 15. Is any analysis required by steps 1-13 of this form?[5]

☒ If yes, then Caltrans prepares the appropriate analysis and documentation for the project file and makes the conformity determination through its signature on the CE form. No FHWA involvement is required. See the AQCA Annotated Outline. Go to Step 17.

☐ If no, then Caltrans makes the conformity determination through its signature on the CE form. No FHWA involvement is required. Go to Step 17.

Step 16. Does the project require preparation of a Categorical Exclusion, EA, or EIS pursuant to 23 USC 327?

☐ If yes, then Caltrans submits a conformity determination request to FHWA for FHWA's conformity determination letter. **An AQCA is needed.** See the AQCA Annotated Outline.

Date of FHWA air quality conformity determination: _____

Go to Step 17.

Step 17. STOP as all air quality conformity requirements have been met.

Signature:	Luke T. Evans		
Printed Name:	Luke Evans	**Date:**	August 19, 2019
Title:	Senior Managing Associate, Environmental Science Associates		

[5] Please note that not all projects that qualify for a categorical exclusion will be exempt from air quality conformity requirements. Many types of projects that may qualify for a CE (such as the addition of auxiliary lanes less than one-mile, weaving lanes less than one-mile, turning lanes less than one-mile, climbing lanes less than one-mile, parking, road diets, ramp metering, and even many bridge projects) MAY require some level of project level conformity analysis and may even require interagency consultation. Additionally, please note that for ALL projects the project file must include evidence that one of the three following situations apply: 1) Conformity does not apply to the project area; or 2) The project is exempt from all conformity analysis requirements; or 3) The project is subject to project-level conformity analysis (and possibly regional conformity analysis) and meets the criteria for a conformity determination. The project file must include all supporting documentation and this checklist.

Appendix C. PM Interagency Consultation

Particulate Matter (PM_{10} and $PM_{2.5}$) Conformity Assessment – Project is not a Project of Air Quality Concern (POAQC)

1.1 Summary

This project is located in the City of Elk Grove in Sacramento County, an area within the Sacramento Valley Air Basin, which is a federal nonattainment area for $PM_{2.5}$ and as an attainment-maintenance area for the federal PM_{10} National Ambient Air Quality Standards (NAAQS). The proposed project is primarily surrounded by residential, industrial and commercial uses.

According to the U.S. EPA's 2006 and 2010 Guidance documents, PM hot-spot analysis is required only for projects of local air quality concern ("Projects of Air Quality Concern" or POAQCs) in nonattainment and maintenance areas for PM_{10} and/or $PM_{2.5}$. Projects that are exempt from conformity requirements (listed in 40 CFR 93.126 or 128) do not need any hot-spot analysis for project-level conformity purposes. Based on the information provided below, this non-exempt project is not a project of local air quality concern (POAQC) because it does not meet U.S. EPA criteria; therefore, a detailed hot-spot analysis for PM_{10} and/or $PM_{2.5}$ is not required.

Due to the nonattainment status of $PM_{2.5}$, the proposed project was required to undergo interagency consultation with SACOG's Transportation Conformity Working Group (TCWG). On April 16, 2019 the TCWG provided concurrence that the proposed project was not a POAQC based on the $PM_{2.5}$/PM_{10} review form that were submitted, as shown in Attachment 1 below. Also provided in Attachment 1, is the TCWG's confirmation that the proposed project is not a POAQC and does not require a hot-spot analysis to be performed.

1.2 Background

Section 93.116(a) of 40 Code of Federal Regulations (CFR) states that an FHWA/FTA project must not cause or contribute to any new localized $PM_{2.5}$ violations or increase the frequency or severity of any existing PM_{10} and $PM_{2.5}$ violations in nonattainment or maintenance areas. The regulations further state that projects may satisfy this requirement without an analysis of their potential to create PM hot-spots provided that they do not meet the criteria set forth in Section 93.123 (b) for POAQC. Projects that are not a POAQC do not require detailed hot-spot analysis because, generally, they would not substantially affect high-priority PM_{10} or $PM_{2.5}$ (as applicable) concentrations and are unlikely to cause or contribute to new or continued localized violation of the NAAQS.

The U.S. EPA Transportation Conformity Rule defines projects of localized air quality concern (POAQC), requiring detailed PM10 and PM2.5 hot-spot analysis, in 40 CFR 93.123(b)(1) as:

(i) New or expanded highway projects that have a significant number of or significant increase in diesel vehicles;

(ii) Projects affecting intersections that are at LOS D, E, or F with a significant number of diesel vehicles, or those that will change to LOS D, E, or F because of increased traffic volumes from a significant number of diesel vehicles related to the project;

(iii) New bus and rail terminals and transfer points that have a significant number of diesel vehicles congregating at a single location;

(iv) Expanded bus and rail terminals and transfer points that significantly increase the number of diesel vehicles congregating at a single location; and

(v) Projects in or affecting locations, areas, or categories of sites that are identified in the $PM_{2.5}$ and PM_{10} applicable implementation plan or implementation plan submission, as appropriate, as sites of violation or possible violation.

1.3 Project is Not a Project of Local Air Quality Concern (POAQC)

The proposed project does not fall within any of the above five categories of projects considered to be POAQCs, as explained below.

i. The proposed project is not a new or expanded highway project and is not considered to significantly affect diesel truck traffic along any roadways within the City of Elk Grove. A significant number is defined as greater than 125,000 annual average daily traffic (AADT) and 8 percent or more of such AADT is diesel truck traffic, or in practice 10,000 truck AADT or more regardless of total AADT.As presented in the cumulative traffic analysis presented in Chapter 5.13 (Transportation) of the City of Elk Grove General Plan EIR, none of the roadways affected by the proposed project would approach or exceed the 125,000 AADT or 10,000 truck AADT criterion for a POAQC. In addition, the proposed project would result in the rehabilitation of pavement, widen shoulders to accommodate a Class 2 Bike Lane and roadway restriping. Since the proposed project would not contribute to traffic volumes along any of the roadways within the City, the proposed project is not expected to have a significant number of or significance increase in diesel vehicles or decrease in traffic volumes.

ii. The traffic analysis presented in Chapter 5.13 (Transportation) of the City of Elk Grove General Plan EIR evaluated potential degradation of the level of service (LOS) at intersections

within the City in the year 2036, as well as increased average daily trips (ADT) along area roadways. The City's traffic analysis for the year 2036 condition included the proposed project, among many other cumulative projects. Table C-1 shows intersections affected by the proposed project and intersection LOS and roadway segment ADT under existing (2015) and cumulative (2036) conditions.

Table C-1. Existing (2015) and cumulative (2036) Intersection Level of Service

Intersection	Existing ADT (2015)	Existing LOS (2015)		Future ADT (2036)	Future LOS (2036)	
		AM Peak Hour	PM Peak Hour		AM Peak Hour	PM Peak Hour
Elk Grove Florin Rd./Elk Grove Blvd.	16,490[1]	D	C	19,300[1]	F	E
Waterman Rd./Elk Grove Blvd.	11,560[2] 7,110[3]	C	C	23,300[2] 25,600[3]	F	E

NOTES: 1: Elk Grove Blvd to East Stockton Blvd Segment; 2: Bond Road to Elk Grove Blvd segment; 3: Elk Grove Blvd to Grant Line Road segment.

SOURCE: City of Elk Grove, 2018. City of Elk Grove General Plan Draft EIR, Appendix F.

As shown in Table C-1, the City's traffic analysis indicates that under the future condition scenario (2036) during the AM and PM peak hour, the intersections at Elk Grove Florin/Elk Grove Boulevard and Waterman Road/Elk Grove Boulevard would degrade to a LOS F and E. ADT would also increase. The proposed project would result in the rehabilitation of pavement, widen shoulders to accommodate a Class 2 Bike Lane and roadway restriping. Although implementation of the City's general plan would result in the degradation of LOS at intersections and an increase in ADT within the proposed project area, the proposed project by itself would not contribute to increased traffic volumes or worsen traffic flows within the City.

iii. The proposed project does not include the construction of a new bus or rail terminal.

iv. The proposed project does not expand an existing bus or rail terminal.

v. The proposed project is not in or affecting locations, areas, or categories of sites that are identified in the PM_{10} and $PM_{2.5}$ applicable implementation plan or implementation plan submission, as appropriate, as sites of violation or possible violation.

Therefore, the proposed project meets the Clean Air Act requirements and 40 CFR 93.116 without any explicit hot-spot analysis. The proposed project would not create a new, or worsen an existing, PM_{10} and $PM_{2.5}$ violations.

1.4 Conclusion:

There is no reason to believe that the proposed project would create a new violation or worsen an existing violation of the PM_{10} & $PM_{2.5}$ National Ambient Air Quality Standards (NAAQS). This project does not meet the U.S. EPA criteria for being a Project of Local Air Quality Concern (POAQC).

Caltrans has completed this PM_{10} & $PM_{2.5}$ hot-spot assessment and has determined that this project is not "Project of Air Quality Concern;" therefore no further PM hot-spot analysis is required for conformity upon concurrence with this determination by Interagency Consultation.

1.5 Public Involvement Process:

This project was categorically excluded from NEPA requirements. Therefore, no public circulation of this hot-spot review or an updated conformity determination is required.

ATTACHMENT 1 – PM INTERAGENCY CONSULTATION
IAC & EPA CONCURRENCE

Luke Evans

From: Michael Karoly <MKaroly@elkgrovecity.org>
Sent: Tuesday, April 16, 2019 8:49 AM
To: Luke Evans
Cc: Leo Rubio (BEN EN); Carlton Allen (BEN EN); Kristin Parsons
Subject: FW: POAQC: Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (SAC25011), DUE on 4/17

Luke,

See emails below.

Thank you,

Michael Karoly, PE
Deputy CIP Services Manager
Elk Grove, Public Works Dept.
Willdan Engineering
(916) 478-3617

From: Shengyi Gao [mailto:SGao@sacog.org]
Sent: Tuesday, April 16, 2019 8:44 AM
To: Lee, Jason@DOT <jason.lee@dot.ca.gov>; Fong, Alexander Y@DOT <alexander.fong@dot.ca.gov>; Antonio Johnson (antonio.johnson@dot.gov) <antonio.johnson@dot.gov>; Dave Johnston <dave.johnston@edcgov.us>; David Yang <DYang@airquality.org>; Coleman, Douglas B@DOT <douglas.coleman@dot.ca.gov>; King, Heather@ARB <Heather.King@arb.ca.gov>; Janice Lam Snyder <JLam@airquality.org>; Jerry Barton <jbarton@edctc.org>; John Ungvarsky <Ungvarsky.John@epa.gov>; Jose Luis Caceres <JCaceres@sacog.org>; Joseph Vaughn <Joseph.Vaughn@dot.gov>; Karina O'Connor <oconnor.karina@epa.gov>; Sanchez, Lucas@DOT <Lucas.Sanchez@dot.ca.gov>; Mark Loutzenhiser <mloutzenhiser@airquality.org>; Matt Jones <mjones@ysaqmd.org>; Mcneel-Caird <lmcneel-caird@pctpa.net>; Paul Philley <pphilley@airquality.org>; Renee DeVere-Oki <RDeVere-Oki@sacog.org>; Tavitas, Rodney A@DOT <rodney.tavitas@dot.ca.gov>; Christian, Shalanda M@DOT <shalanda.christian@dot.ca.gov>; Tang, Sharon W@DOT <sharon.tang@dot.ca.gov>; Sondra Spaethe <sspaethe@fraqmd.org>; Wright Molly <mwright@airquality.org>; Yu-Shuo Chang <YChang@placer.ca.gov>
Cc: Michael Karoly <MKaroly@elkgrovecity.org>
Subject: RE: POAQC: Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (SAC25011), DUE on 4/17

Hi all,

The Project Level Conformity Group has determined that the Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (SAC25011) is NOT a Project of Air Quality Concern (POAQC).

EPA concurred on 04/04/2019 and Caltrans concurred on 04/15/2019.

Thanks to you all!

Shengyi Gao

Sacramento Area Council of Governments

916.340.6239

From: Lee, Jason@DOT <jason.lee@dot.ca.gov>
Sent: Monday, April 15, 2019 9:34 AM
To: Shengyi Gao <SGao@sacog.org>; Fong, Alexander Y@DOT <alexander.fong@dot.ca.gov>; Antonio Johnson (antonio.johnson@dot.gov) <antonio.johnson@dot.gov>; Dave Johnston <dave.johnston@edcgov.us>; David Yang <DYang@airquality.org>; Coleman, Douglas B@DOT <douglas.coleman@dot.ca.gov>; King, Heather@ARB <Heather.King@arb.ca.gov>; Janice Lam Snyder <JLam@airquality.org>; Jerry Barton <jbarton@edctc.org>; John Ungvarsky <Ungvarsky.John@epa.gov>; Jose Luis Caceres <JCaceres@sacog.org>; Joseph Vaughn <Joseph.Vaughn@dot.gov>; Karina O'Connor <oconnor.karina@epa.gov>; Sanchez, Lucas@DOT <Lucas.Sanchez@dot.ca.gov>; Mark Loutzenhiser <mloutzenhiser@airquality.org>; Matt Jones <mjones@ysaqmd.org>; Mcneel-Caird <lmcneel-caird@pctpa.net>; Paul Philley <pphilley@airquality.org>; Renee DeVere-Oki <RDeVere-Oki@sacog.org>; Tavitas, Rodney A@DOT <rodney.tavitas@dot.ca.gov>; Christian, Shalanda M@DOT <shalanda.christian@dot.ca.gov>; Tang, Sharon W@DOT <sharon.tang@dot.ca.gov>; Sondra Spaethe <sspaethe@fraqmd.org>; Wright Molly <mwright@airquality.org>; Yu-Shuo Chang <YChang@placer.ca.gov>
Cc: MKaroly@elkgrovecity.org
Subject: RE: POAQC: Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (SAC25011), DUE on 4/17

Hi All,

Caltrans concurs this project is not a Project of Air Quality Concern.

Thanks a lot,

Jason Lee, PE

Air Quality/Noise Specialist
Office of Hazardous Waste, Air, Noise and Paleontology
Division of Environmental Analysis
California Department of Transportation
Phone: 916-653-6297
Cell: 530-701-9784

From: Shengyi Gao <SGao@sacog.org>
Sent: Wednesday, April 3, 2019 2:30 PM
To: Fong, Alexander Y@DOT <alexander.fong@dot.ca.gov>; Antonio Johnson (antonio.johnson@dot.gov) <antonio.johnson@dot.gov>; Dave Johnston <dave.johnston@edcgov.us>; David Yang <DYang@airquality.org>; Coleman, Douglas B@DOT <douglas.coleman@dot.ca.gov>; King, Heather@ARB <Heather.King@arb.ca.gov>; Janice Lam Snyder <JLam@airquality.org>; Lee, Jason@DOT <jason.lee@dot.ca.gov>; Jerry Barton <jbarton@edctc.org>; John Ungvarsky <Ungvarsky.John@epa.gov>; Jose Luis Caceres <JCaceres@sacog.org>; Joseph Vaughn <Joseph.Vaughn@dot.gov>; Karina O'Connor <oconnor.karina@epa.gov>; Sanchez, Lucas@DOT <Lucas.Sanchez@dot.ca.gov>; Mark Loutzenhiser <mloutzenhiser@airquality.org>; Matt Jones <mjones@ysaqmd.org>; Mcneel-Caird <lmcneel-caird@pctpa.net>; Paul Philley <pphilley@airquality.org>; Renee DeVere-Oki <RDeVere-Oki@sacog.org>; Tavitas, Rodney A@DOT <rodney.tavitas@dot.ca.gov>; Christian, Shalanda M@DOT <shalanda.christian@dot.ca.gov>; Tang, Sharon W@DOT <sharon.tang@dot.ca.gov>; Sondra Spaethe <sspaethe@fraqmd.org>; Wright Molly <mwright@airquality.org>; Yu-Shuo Chang <YChang@placer.ca.gov>

Cc: MKaroly@elkgrovecity.org
Subject: POAQC: Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (SAC25011), DUE on 4/17

Project Level Conformity Group,

Attached for interagency review is the Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (SAC25011). As part of project level conformity under NEPA, it requires a determination of whether it is a project of air quality concern.

Please confirm that you concur that this is NOT a Project of Air Quality Concern (POAQC). **Please email questions and comments by 5 p.m., Wen., April 17.**

This project falls under the 23 USC 326 (formerly 6004) federal process. As such, it requires written concurrence by EPA (Karina O'Conner) and Caltrans (Jason Lee). Please remember to use "reply all," to make comments to the group. Otherwise, you may also contact the sponsor directly:

Michael Karoly

City of Elk Grove

Tel: 916-478-3617

Email: MKaroly@elkgrovecity.org

Shengyi Gao

From: OConnor, Karina <OConnor.Karina@epa.gov>
Sent: Thursday, April 04, 2019 11:37 AM
To: Shengyi Gao; Alexander Fong; Antonio Johnson (antonio.johnson@dot.gov); Dave Johnston; David Yang; Douglas Coleman; Heather Phillips ; jlam@airquality.org; Jason Lee; Jerry Barton; Ungvarsky, John; Jose Luis Caceres; Joseph Vaughn; Lucas Sanchez; Mark Loutzenhiser; Matt Jones; Mcneel-Caird; Paul Philley; Renee DeVere-Oki; Rodney Tavitas; Shalanda Christian; Sharon Tang; sspaethe@fraqmd.org; Wright Molly; Yu-Shuo Chang
Cc: MKaroly@elkgrovecity.org
Subject: RE: POAQC: Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (SAC25011), DUE on 4/17

EPA concurs that this is not a project of air quality concern.

Thanks, Karina

Karina OConnor
Air Planning Office
US EPA Region 9 (AIR-2)
75 Hawthorne St.
San Francisco, CA 94105
(775) 434-8176
oconnor.karina@epa.gov

From: Shengyi Gao <SGao@sacog.org>
Sent: Wednesday, April 3, 2019 2:30 PM
To: Alexander Fong <alexander.fong@dot.ca.gov>; Antonio Johnson (antonio.johnson@dot.gov) <antonio.johnson@dot.gov>; Dave Johnston <dave.johnston@edcgov.us>; David Yang <DYang@airquality.org>; Douglas Coleman <douglas.coleman@dot.ca.gov>; Heather Phillips <Heather.Phillips@arb.ca.gov>; jlam@airquality.org; Jason Lee <jason.lee@dot.ca.gov>; Jerry Barton <jbarton@edctc.org>; Ungvarsky, John <Ungvarsky.John@epa.gov>; Jose Luis Caceres <JCaceres@sacog.org>; Joseph Vaughn <Joseph.Vaughn@dot.gov>; OConnor, Karina <OConnor.Karina@epa.gov>; Lucas Sanchez <lucas.sanchez@dot.ca.gov>; Mark Loutzenhiser <mloutzenhiser@airquality.org>; Matt Jones <mjones@ysaqmd.org>; Mcneel-Caird <lmcneel-caird@pctpa.net>; Paul Philley <pphilley@airquality.org>; Renee DeVere-Oki <RDeVere-Oki@sacog.org>; Rodney Tavitas <rodney.tavitas@dot.ca.gov>; Shalanda Christian <shalanda_christian@dot.ca.gov>; Sharon Tang <sharon.tang@dot.ca.gov>; sspaethe@fraqmd.org; Wright Molly <mwright@airquality.org>; Yu-Shuo Chang <YChang@placer.ca.gov>
Cc: MKaroly@elkgrovecity.org
Subject: POAQC: Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (SAC25011), DUE on 4/17

Project Level Conformity Group,

Attached for interagency review is the Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (SAC25011). As part of project level conformity under NEPA, it requires a determination of whether it is a project of air quality concern.

Please confirm that you concur that this is NOT a Project of Air Quality Concern (POAQC). **Please email questions and comments by 5 p.m., Wen., April 17.**

This project falls under the 23 USC 326 (formerly 6004) federal process. As such, it requires written concurrence by EPA (Karina O'Conner) and Caltrans (Jason Lee). Please remember to use "reply all," to make comments to the group. Otherwise, you may also contact the sponsor directly:

Michael Karoly

City of Elk Grove

Tel: 916-478-3617

Email: MKaroly@elkgrovecity.org

Appendix D

Natural Environment Study (NES)

ESA

Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014)

Natural Environment Study

City of Elk Grove, Sacramento County, California
Elk Grove 7.5-Minute Quadrangle,
Caltrans District 3
RPSTPL-5479 (060)

October 2019

Caltrans
CALIFORNIA DEPARTMENT OF TRANSPORTATION

Natural Environment Study

STATE OF CALIFORNIA
Department of Transportation
and City of Elk Grove

Prepared By: _____ Date: 10/11/2019

Joshua Boldt, Biologist
(916) 564-4500
2600 Capitol Ave., Suite 200, Sacramento, CA 95816
Environmental Science Associates

Recommended
for Approval By: _____ Date: 11/12/19

Brooks Taylor, Associate Environmental Planner
California Department of Transportation
Local Assistance, District 3 North Region
703 B Street
Marysville, CA 95901
(530) 741-4449

Approved By: _____ Date: 11/12/19

Laura Loeffler, Environmental Branch Chief
California Department of Transportation
District 3 North Region Environmental Planning
703 B Street
Marysville, CA 95901
(530) 741-4592

For individuals with sensory disabilities, this document can be made available in Braille, in large print, on audiocassette, or on computer disk. To obtain a copy in one of these alternate formats, please call the District 3 California Relay Service TTY number 530-741-4509, or use California Relay Service 1 (800) 735-2922 (TTY), 1 (800) 735-2929 (Voice) or 711.

Summary

Project Description

The City of Elk Grove (City) proposes the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (Project), which will include pavement rehabilitation or surface treatment (as deemed necessary) on segments of Waterman Road and Elk Grove Florin Road, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in Eastern Elk Grove.

Purpose and Need

The segments requiring pavement rehabilitation are of a condition that further deterioration would likely result in costlier replacement of pavement in the future. Further, the selected segments are shown in the City of Elk Grove's 2014 Bicycle, Pedestrian, and Trails Master Plan as having future Class 2 bike lanes. Implementation of the project will extend the useful life of the pavement, improve ride quality for both motorists and cyclists, and will fill in gaps in the existing Class 2 bike lane network in East Elk Grove, especially along Waterman Road.

Summary of Results and Impacts

Natural resources were identified through a review of existing information and biological field surveys. The following natural resources were documented or identified as having the potential to occur in or near the Project Impact Area (PIA, construction footprint) and/or Biological Study Area (BSA). The BSA includes the construction footprint and extends out 250 feet from the PIA boundary. The BSA is used to identify potential indirect effects of the Project.

Natural Communities of Special Concern and Waters of the U.S.

Habitats and natural communities of special concern are those that are regulated by the federal, state, or local resource agencies. The BSA supports aquatic habitats/plant communities that could qualify as waters of the U.S., which would be regulated by the U.S. Army Corps of Engineers (USACE) and the Regional Water Quality Control Board (RWQCB) under Sections 404 and 401 of the Clean Water Act (CWA), respectively. Riparian vegetation, which is regulated by the California Department of Fish and Wildlife (CDFW) under Section 1602 of the California Fish and Game Code (CFGC), is also present within the BSA, and is considered a natural community of special concern. Permanent impacts to all plant communities and habitat types, including habitats and natural communities of special concern are summarized in Table S-1 below. Temporary impacts to plant communities are not anticipated.

Table S-1. Summary of Direct Impacts by Plant Community/Habitat Type

Plant Community/Habitat Type	Permanent Impacts*
Waters of U.S.	
Vernal Swale	0.00
Seasonal Wetland	0.00
Vernal Pool	0.00
Perennial Channel	0.00
Intermittent Channel	0.00
Subtotal	***0.00***
Natural Communities of Special Concern	
Riparian	0.00
Subtotal	***0.00***
Other Plant Communities/Habitat Types	
Developed/Ornamental	16.69
Annual Grassland	2.34
Agricultural	0.01
Agricultural Ditch	0.00
Detention Basin	0.00
Subtotal	***19.30***
TOTAL	**19.30**

*In waters of the U.S. permanent impacts refer to acres of fill.

Special-status Species

- **Swainson's hawk (*Buteo swainsoni*) (state threatened)**: Potential foraging habitat for this species (annual grasslands) will be permanently affected by the Project. The Project will permanently remove 2.34 acres of potential Swainson's hawk foraging habitat.
- **Western spadefoot (*Spea hammondii*) (CDFW Species of Special Concern [SSC])**: Potential upland habitat for this species (annual grassland) will be affected by the Project. The Project will permanently remove 2.34 acres of potential western spadefoot upland habitat.
- **Burrowing owl (*Athene cunicularia*) (SSC)**: Potential habitat for this species (annual grasslands) will be affected by the Project. The Project will permanently remove 2.34 acres of potential burrowing owl habitat.
- Trees are also present within the BSA area that could provide nesting habitat for migratory birds and raptors which will be affected by the Project.

Protected Trees

The Project would result in a permanent, direct impacts to protected trees by removing trees considered protected by the City. Chapter 19.12 (Tree Preservation and Protection) of the City of Elk Grove Municipal Code provides for the preservation of existing trees through both the

development review process and subsequent activities such as work within the canopy or within the critical root zone of trees and also provides a process for replacement in instances where preservation is not reasonably possible. The City's tree ordinance protects trees that fall within one or more of four categories: landmark trees (19.12.030), trees of local importance (19.12.040), secured trees (19.12.050), and trees in the right-of-way or on City property (19.12.060). A tree survey has not yet been performed for the project; therefore, the number of impacted trees is unknown at this time.

Non-native Invasive Species

A total of 39 invasive plant species listed in the California Invasive Plant Council (Cal-IPC) Invasive Plant Inventory (Cal-IPC 2018) were documented within the BSA.

Permit Requirements

The City will obtain and implement the conditions of the following permits:

- CWA Section 402 National Pollutant Discharge Elimination System permit from the State Water Resources Control Board;
- Federal Endangered Species Act (FESA) Section 7 Biological Opinion from the U.S. Fish and Wildlife Service (USFWS); and
- California Endangered Species Act (CESA) Sections 2081 (b) and (c) – Incidental Take Permit or a consistency determination with CDFW and USFWS on USFWS Section 7 consultation.

Avoidance and Minimization Measures

As part of the Project, the following list of avoidance and minimization measures, which are identified and described in Chapter 4, will be implemented prior to and during construction. Avoidance and minimization measures have been developed based on natural resources identified as present or having the potential to occur in the vicinity of the Project area and the potential effects that could occur as a result of the Project:

- **Avoidance and Minimization Measure (AMM) 1:** Conduct Environmental Awareness Training.
- **AMM 2:** Install Temporary Barrier Fencing and/or Flagging to Protect Environmentally Sensitive Habitat Areas.
- **AMM 3:** Conduct Periodic Monitoring Visits.
- **AMM 4:** Implement Best Management Practices (BMPs) to Protect Water Quality.
- **AMM 5:** No Vehicle or Equipment Activity Outside of Construction Footprint.
- **AMM 6:** Conduct Pre-construction Tree Survey.

- **AMM 7:** Restrict Ground-disturbing Activities to the Dry Season (typically April 15 to October 15).
- **AMM 8:** Implement Erosion Control
- **AMM 9:** Conduct a Preconstruction Survey for Western Spadefoot.
- **AMM 10:** Measures to Protect Burrowing Owl.
- **AMM 11:** Conduct a Preconstruction Nesting Migratory Bird and Raptor Survey and Establish No-disturbance Buffers, in Necessary.

Compensatory Mitigation

To compensate for Project effects to natural communities of special concern and special-status species, the City will implement the following compensatory mitigation measures, which are described in Chapter 4.

- **Compensation Measure 1:** Mitigate for Impacts to Protected Trees.
- **Compensation Measure 2:** Preserve CDFW-approved Foraging Habitat for Swainson's Hawk at a 1:1 Ratio or Submit Payment of a Swainson's Hawk Impact Mitigation Fee to the City of Elk Grove.

Table of Contents

List of Figures

List of Tables

List of Abbreviated Terms

AMM	Avoidance and Minimization Measure
BMPs	Best Management Practices
BSA	Biological Study Area
Cal-IPC	California Invasive Plant Council
Caltrans	California Department of Transportation
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CESA	California Endangered Species Act
CEQA	California Environmental Quality Act
CFGC	California Fish and Game Code
City	City of Elk Grove
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CRPR	California Rare Plant Ranking System
CWA	Clean Water Act
DOT	U.S. Department of Transportation
EFH	essential fish habitat
EGMCTPP	City of Elk Grove Municipal Code, Tree Preservation and Protection
EO	Executive Order
EPA	Environmental Protection Agency
ESA	Environmental Science Associates
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
GPS	Global Positioning System
HUC	Hydrologic Unit Code
IPaC	Information for Planning and Conservation database
MBTA	Migratory Bird Treaty Act
NEPA	National Environmental Policy Act
NES	Natural Environment Study
NMFS	National Marine Fisheries Service
NPDES	National Pollution Discharge Elimination System

PES	Preliminary Environmental Study
PIA	Project Impact Area (construction footprint)
Project	Arterial Roads Rehabilitation and Bicycle Lane Improvements Project
PTECs	Permits to Enter and Construct
ROW	Right-of-Way
RWQCB	Regional Water Quality Control Board
SCARI	Six County Aquatic Resource Inventory
SSC	Species of Special Concern
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
USACE	U.S. Army Corps of Engineers
USC	United States Code
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WPCP	Water Pollution Control Plan

Chapter 1. Introduction

The City of Elk Grove (City) proposes the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (Project), which will include pavement rehabilitation or surface treatment (as deemed necessary) on segments of Waterman Road and Elk Grove Florin Road, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in Eastern Elk Grove.

1.1. Purpose and Need

The segments requiring pavement rehabilitation are of a condition that further deterioration would likely result in costlier replacement of pavement in the future. Further, the selected segments are shown in the City of Elk Grove's 2014 Bicycle, Pedestrian, and Trails Master Plan as having future Class 2 bike lanes. Implementation of the project will extend the useful life of the pavement, improve ride quality for both motorists and cyclists, and will fill in gaps in the existing Class 2 bike lane network in East Elk Grove, especially along Waterman Road.

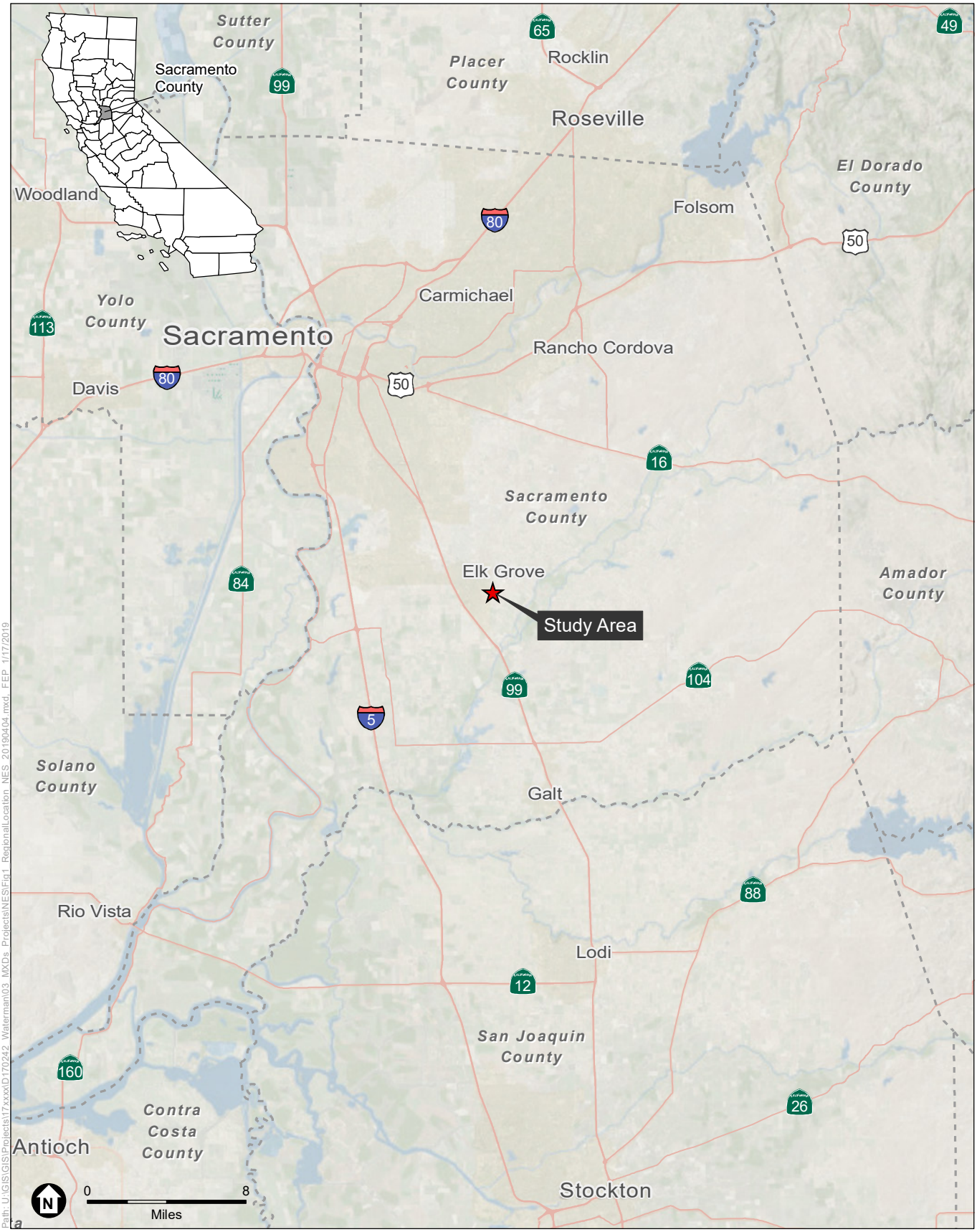
1.2. Project Description

The project will include pavement rehabilitation or surface treatment (as deemed necessary) on segments of Waterman Road and Elk Grove Florin Road, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in Eastern Elk Grove. The Project limits include seven segments along Waterman Road and one segment along Elk Grove Florin Road. The segments are as shown in Table 1-1 below and in Figures 3-1 through 3-3.

1.2.1. Right-of-Way

The majority of the Project would take place within the City's current right-of-way (ROW) and no acquisition of additional right-of-way would be required to construct the proposed bicycle lanes.

Permits to Enter and Construct (PTECs) may be required in select locations along the segments in order to conform private driveways to the reconstructed roadway. It is anticipated that the contractor would coordinate with the property owner/tenant to maintain access during construction, thereby preventing any damage or loss of business goodwill.

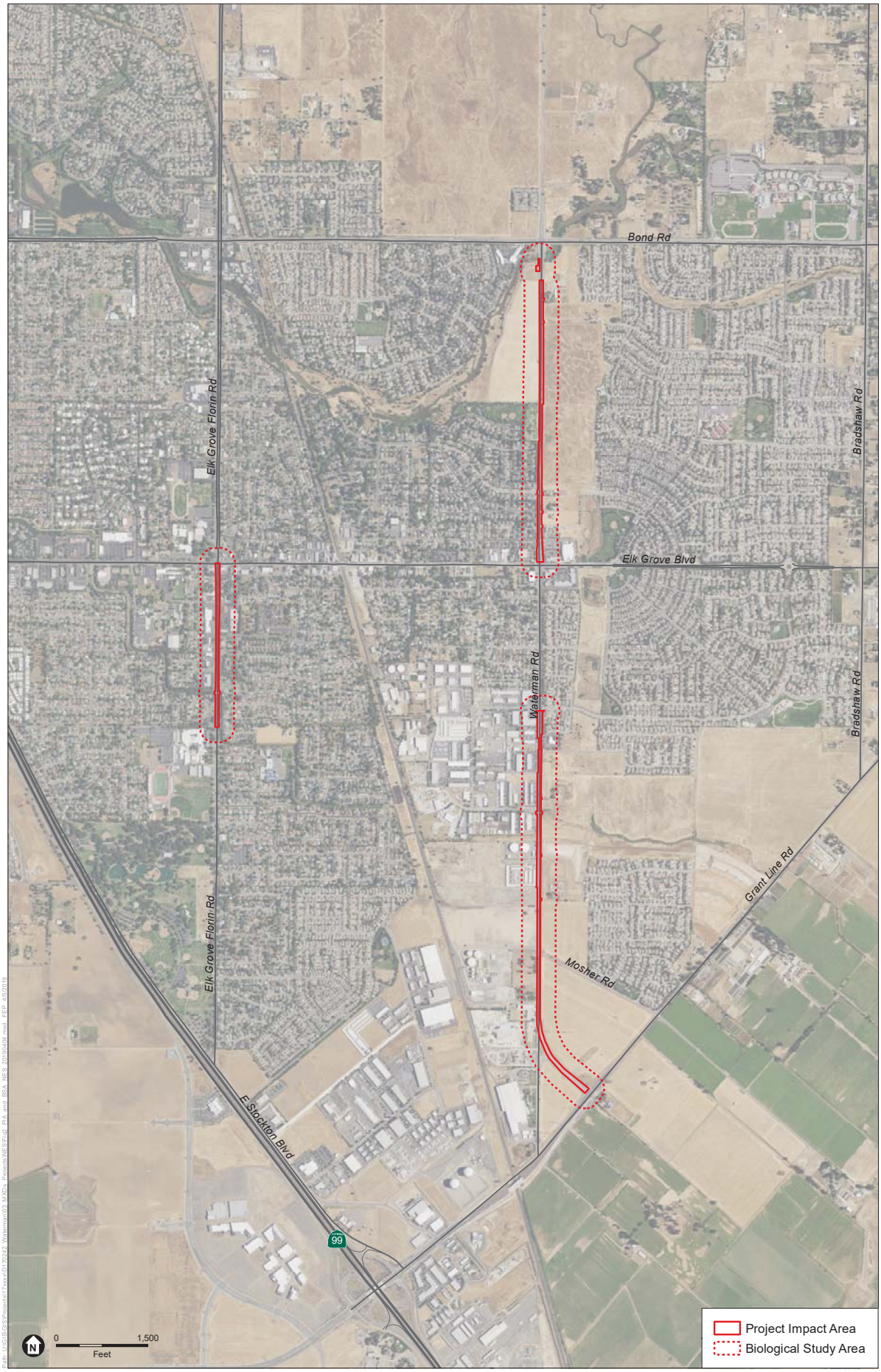


SOURCE: ESRI, 2018; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 1
Regional Location

ESA



SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2
Project Impact Area and Biological Study Area

ESA

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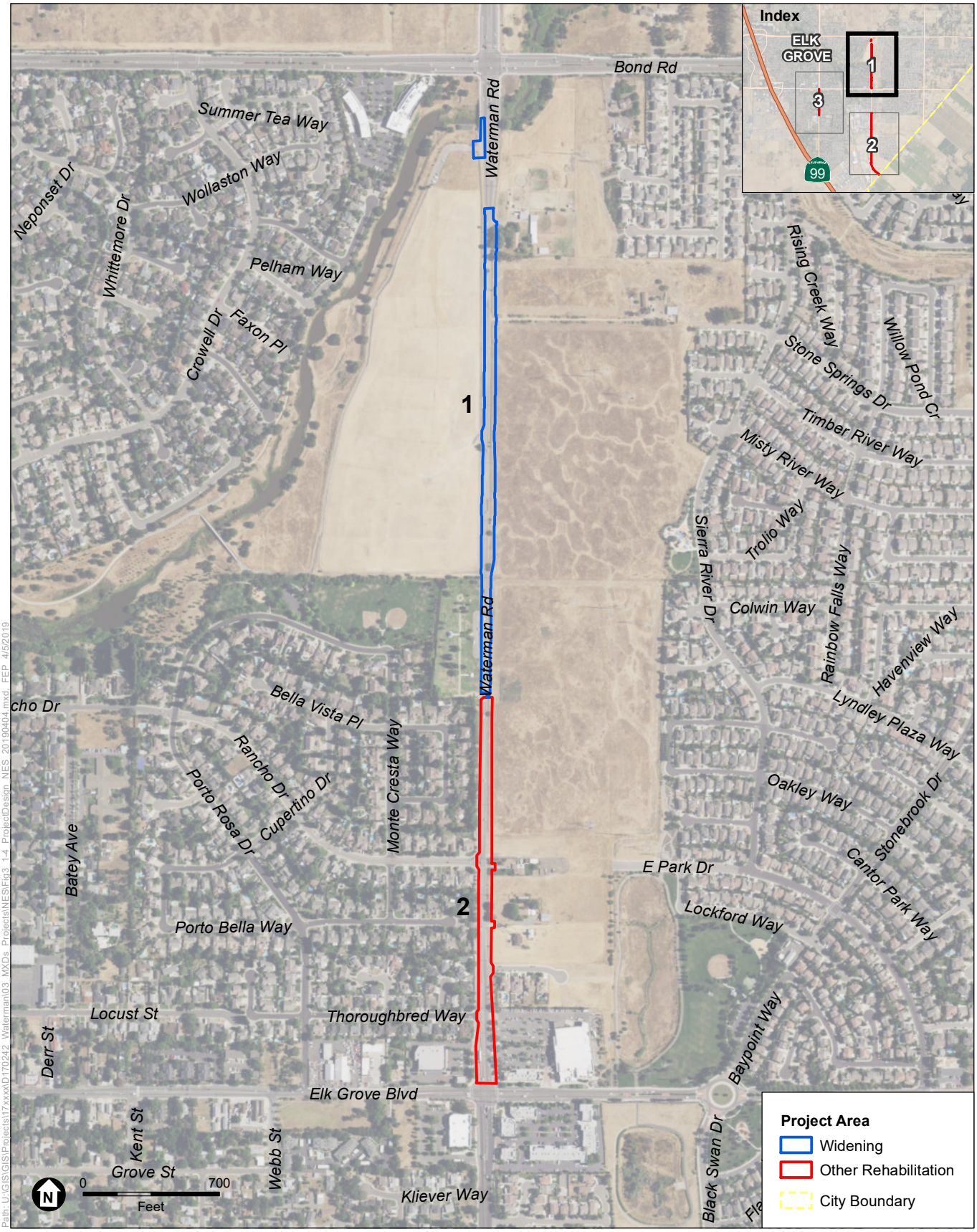


SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3-1
Project Design

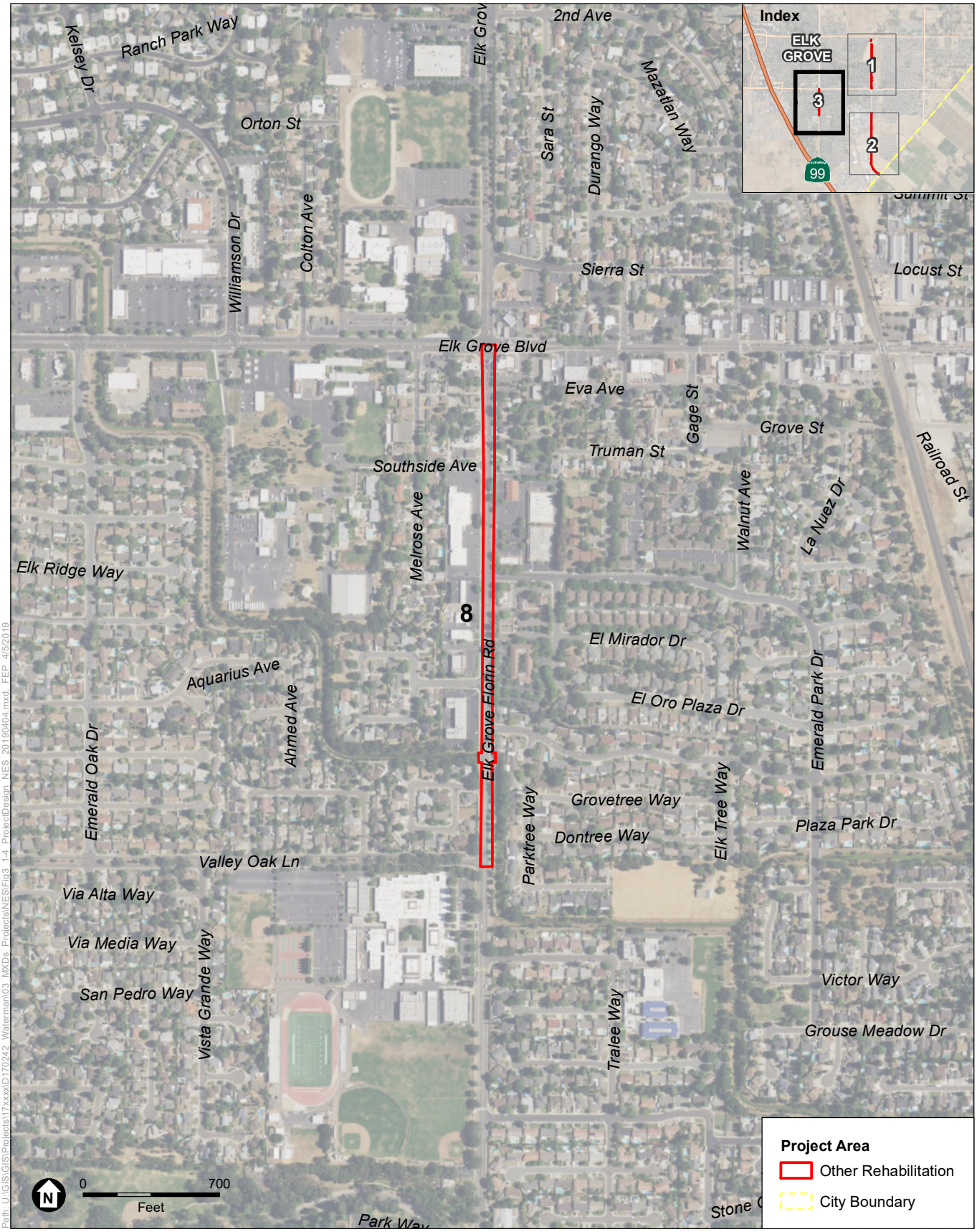
ESA

SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3-2
Project Design

ESA



SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3-3
Project Design

ESA

Table 1-1. Segments

Segment #	Street Name	Starting At	Ending At	Length	Pavement Treatment	Existing/ Proposed Pavement Width
1	Waterman Road	700' south of Bond	850' north of Rancho Drive	2,500'	Rehabilitation/ Reconstruction	22'/34'
2	Waterman Road	850' north of Rancho Drive	Elk Grove Blvd	2,000'	Microsurface/ Rehabilitation	44'/44'
3	Waterman Road	80' north of Dino Drive/Mainline Drive	Kent Street	1,650'	Rehabilitation	44'/44'
4	Waterman Road	Kent Street	400' south of Brinkman Court	1,300'	Rehabilitation	44'/44'
5	Waterman Road	400' south of Brinkman Court	Mosher Road	1,100'	Rehabilitation/ Reconstruction	22'/34'
6	Waterman Road	Mosher Road	1,000' south of Mosher Road	1,000'	Microsurface	22'/34'
7	Waterman Road	1,000' south of Mosher Road	Grant Line Road	1,600'	Microsurface	50'/50'
8	Elk Grove Florin Road	Elk Grove Boulevard	Valley Oak Lane	2,700'	Rehabilitation	50'/50'

Segments 1, 5, and 6 will rehabilitate pavement and widen shoulders to accommodate a Class 2 Bike Lane in both directions.

Segments 2, 3, 4, 7, and 8 will have pavement rehabilitation or surface treatment, and restriping to provide a Class 2 Bike Lane in both directions.

Segment 2 will also include restriping to move an existing southbound lane drop from beginning near Waterman Road's intersection with Brinkman Court to commencing further north at Dino Drive. This restriping is required to fit Class 2 Bike Lanes within the existing roadway surface.

The project will create a new mid-block pedestrian crossing along Elk Grove-Florin Road between Cadura Circle and Plaza Park Drive; and extend an existing sidewalk segment on the western side of Waterman Road to the Laguna Creek Trail entrance/parking area. Additionally, the project will also require utility relocations.

Construction of the project may occur in phases, depending on funding or other factors impacting schedule.

1.3. Project Study Limits

For the purposes of this NES, the Project Impact Area (PIA) boundary represents the maximum extent of ground disturbance for the Project. The Biological Study Area (BSA) includes the PIA and extends 250 feet from the PIA boundary. The 250-foot buffer of the BSA was established to identify potential indirect effects of the Project.

There were a number of locations within the BSA that were not accessible to biologists during the field surveys including most private properties throughout the BSA. Biologists used a combination of aerial interpretation and binoculars to survey habitat within these locations.

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Chapter 2. Study Methods

This section describes regulatory requirements, and the methods used in the preparation of this NES report and includes a list of resources reviewed, field survey dates and personnel, and constraints and limitations encountered during the field study that may influence the conclusions reached in this report.

2.1. Regulatory Requirements

This section summarizes the federal and state regulations that protect special-status species; waters of the U.S.; and natural communities of special concern. This section also discusses pertinent City of Elk Grove General Plan goals, ordinances, and policies relating to the protection and preservation of biological resources (City 2015).

2.1.1. Federal

2.1.1.1. FEDERAL ENDANGERED SPECIES ACT

The federal Endangered Species Act (FESA) protects threatened and endangered plants and animals and their critical habitat. Candidate species are those proposed for listing; these species are usually treated by resource agencies as if they were actually listed during the environmental review process. Procedures for addressing impacts to federally listed species follow two principal pathways, both of which require consultation with the USFWS, which administers the FESA for all terrestrial species. The first pathway, Section 10(a) incidental take permit, applies to situations where a non-federal government entity must resolve potential adverse impacts to species protected under the FESA. The second pathway, Section 7 consultation, applies to projects directly undertaken by a federal agency or private projects requiring a federal permit or approval.

2.1.1.2. FEDERAL MIGRATORY BIRD TREATY ACT

The federal Migratory Bird Treaty Act (MBTA) prohibits killing, possessing, or trading migratory birds except in accordance with regulations prescribed by the Secretary of the Interior. This act encompasses whole birds, parts of birds, bird nests, and eggs. The MBTA is administered by the USFWS and special permits from the agency are generally required for the take of any migratory birds. This act applies to all persons and agencies in the U.S., including federal agencies.

2.1.1.3. CLEAN WATER ACT

Section 404

Clean Water Act (CWA) Section 404 regulates the discharge of dredged and fill materials into waters of the U.S. Waters of the U.S. refers to oceans, bays, rivers, streams, lakes, ponds, and wetlands. Applicants must obtain a permit from the U.S. Army Corps of Engineers (USACE) for all

discharges of dredged or fill material into waters of the U.S., including wetlands, before proceeding with a proposed activity. Waters of the U.S. are under the jurisdiction of the USACE and the Environmental Protection Agency (EPA).

Compliance with CWA Section 404 requires compliance with several other environmental laws and regulations. The USACE cannot issue an individual permit or verify the use of a general nationwide permit until the requirements of FESA and the National Historic Preservation Act (NHPA) have been met. In addition, the USACE cannot issue or verify any permit until a water quality certification or a waiver of certification has been issued pursuant to CWA Section 401.

Section 401

Under CWA Section 401, applicants for a federal license or permit to conduct activities which may result in the discharge of a pollutant into waters of the U.S. must obtain certification from the state in which the discharge would originate or, if appropriate, from the interstate water pollution control agency with jurisdiction over affected waters at the point where the discharge would originate. Therefore, all projects that have a federal component and may affect state water quality (including projects that require federal agency approval, such as issuance of a Section 404 permit) must also comply with CWA Section 401Regulation of Activities in Waters of the U.S.

2.1.1.4. EXECUTIVE ORDER 11990 – PROTECTION OF WETLANDS

Executive Order (EO) 11990 established a national policy to avoid adverse impacts on wetlands whenever there is a practicable alternative. The U.S. Department of Transportation (DOT) circulated DOT Order 5660.1A in 1978 to comply with this directive. On federally funded projects, impacts to wetlands must be identified and alternatives that avoid wetlands must be considered. If wetland impacts cannot be avoided, then all practicable measures to minimize impacts must be included. This must be documented in a specific Wetlands Only Practicable Alternative Finding.

An additional requirement is to provide early public involvement in projects affecting wetlands. The Federal Highway Administration (FHWA) provides technical assistance (Technical Advisory 6640.8A) and reviews environmental documents for compliance.

2.1.2. State

2.1.2.1. CALIFORNIA ENDANGERED SPECIES ACT

Under the California Endangered Species Act (CESA), the California Department of Fish and Wildlife (CDFW) has the responsibility for maintaining a list of endangered and threatened species. Sections 2050 through 2098 of the California Fish and Game Code (CFGC) outline the protection provided to California's rare, endangered, and threatened species. Section 2080 of the CFGC prohibits the taking of plants and animals listed under the CESA. Section 2081 established an

incidental take permit program for state-listed species. CDFW maintains a list of "candidate species" which are species that CDFW formally notices as being under review for addition to the list of endangered or threatened species.

Pursuant to the requirements of CESA, an agency reviewing a Proposed Project within its jurisdiction must determine whether any state-listed endangered or threatened species may be present in the project study area and determine whether the Proposed Project will have a potentially significant impact on such species. In addition, CDFW encourages informal consultation on any Proposed Project that may impact a candidate species.

Project-related impacts to species on the CESA endangered or threatened list would be considered significant. Under Section 86 of the CFGC "take" is defined as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." "Take" of protected species incidental to otherwise lawful management activities may be authorized under CFGC Section 206.591. Authorization from CDFW would be in the form of an Incidental Take Permit.

2.1.2.2. PORTER-COLOGNE WATER QUALITY CONTROL ACT

The State Water Resources Control Board (SWRCB) and the Regional Water Quality Control Boards (RWQCBs) (together "Boards") are the principal state agencies with primary responsibility for the coordination and control of water quality. In the Porter-Cologne Water Quality Control Act (Porter-Cologne), the Legislature declared that the "state must be prepared to exercise its full power and jurisdiction to protect the quality of the waters in the state from degradation..." (California Water Code Section 13000).

Porter-Cologne grants the Boards the authority to implement and enforce the water quality laws, regulations, policies and plans to protect the groundwater and surface waters of the state. Waters of the state determined to be jurisdictional would require, if impacted, waste discharge permitting and/or a CWA Section 401 certification (in the case of a required USACE permit under Section 404). The enforcement of the state's water quality requirements is not solely the purview of the Boards and their staff. Other agencies (e.g., the CDFW under Section 5650 of the CFGC) have the authority to enforce certain water quality provisions in state law.

2.1.2.3. CALIFORNIA FISH AND GAME CODE

Fully Protected Species

Certain species are considered *fully protected*, meaning that the code explicitly prohibits all take of individuals of these species except for take permitted for scientific research. Section 5050 lists fully protected amphibians and reptiles, Section 5515 lists fully protected fish, Section 3511 lists fully protected birds, and Section 4700 lists fully protected mammals.

It is possible for a species to be protected under CFGC, but not fully protected. For instance, mountain lion (*Puma concolor*) is protected under Section 4800 et seq., but is not a fully protected species.

Protection of Birds and Their Nests

Under Section 3503 of the CFGC, it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by the code or any regulation made pursuant thereto. Section 3503.5 of the CFGC prohibits take, possession, or destruction of any birds in the orders Falconiformes (hawks) or Strigiformes (owls), or of their nests and eggs. Migratory non-game birds are protected under Section 3800, while other specified birds are protected under CFGC Section 3505.

Stream and Lake Protection

CDFW has jurisdictional authority over streams and lakes and the wetland resources associated with these aquatic systems under CFGC Sections 1600 et seq. through administration of lake or streambed alteration agreements. Such an agreement is not a permit, but rather a mutual accord between CDFW and a project proponent. Under Sections 1600 et seq. of the CFGC, CDFW has the authority to regulate work that will "substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river lake or stream." CDFW enters into a streambed alteration agreement with the project proponent and can impose conditions in the agreement to minimize and mitigate impacts to fish and wildlife resources. Because CDFW includes under its jurisdiction streamside habitats that may not qualify as wetlands under the federal CWA definition, CDFW jurisdiction may be broader than USACE jurisdiction.

Pursuant to the CFGC, a project proponent must submit a notification of streambed alteration to CDFW before construction. The notification requires an application fee for a streambed alteration agreement, with a specific fee schedule to be determined by CDFW. CDFW can enter into programmatic agreements that cover recurring operation and maintenance activities and regional plans. These agreements are sometimes referred to as Master Streambed Alteration Agreements (MSAAs).

Under Fish and Game Code Section 1602 (Streambed Alteration Agreements), CDFW takes jurisdiction over the stream zone which is defined top of bank or outside extent of riparian vegetation, whichever is the greatest. Within the stream zone, waters of the state of California are typically delineated to include the streambed to the top of the bank and adjacent areas that would meet any one of the three wetland parameters in the USACE definition (vegetation, hydrology,

and/or soils). Whereas federal jurisdiction requires meeting all three parameters, in practice meeting one parameter, or even the presence (rather than dominance) of wetland plants in an area associated with a jurisdictional streambed would qualify an area as waters of the State of California. CDFW jurisdiction is not limited to navigable waters or tributaries to navigable waters; however, isolated wetlands and wetlands not associated with a streambed are not subject to CDFW jurisdiction.

2.1.2.4. NATIVE PLANT PROTECTION ACT

State listing of plant species began in 1977 with the passage of the California Native Plant Protection Act (NPPA), which directed the CDFW to carry out the legislature's intent to "preserve, protect, and enhance endangered plants in this state." The NPPA gave the California Fish and Game Commission the power to designate native plants as endangered or rare and to require permits for collecting, transporting, or selling such plants. CESA expanded on the original NPPA and enhanced legal protection for plants. CESA established threatened and endangered species categories, and grandfathered all rare animals—but not rare plants—into the act as threatened species. Thus, three listing categories for plants are employed in California: rare, threatened, and endangered.

2.1.2.5. CALIFORNIA RARE PLANT RANKING SYSTEM

CDFW works in collaboration with the California Native Plant Society (CNPS) to maintain a list of plant species native to California that have low numbers, limited distribution, or are otherwise threatened with extinction. These species are categorized by rarity in the California Rare Plant Ranking System (CRPR). This information is published in the Inventory of Rare and Endangered Vascular Plants of California (CNPS 2019). Potential impacts to populations of CRPR species may receive consideration under CEQA review.

2.1.3. Invasive Species

The following regulations pertain to reducing the spread of invasive species within the BSA.

2.1.3.1. EXECUTIVE ORDER 13112 – INVASIVE SPECIES

EO 13112 requires federal agencies to combat the introduction or spread of invasive species in the United States. The order defines invasive species as "any species, including its seeds, eggs, spores, or other biological material capable of propagating that species, that is not native to that ecosystem whose introduction does or is likely to cause economic or environmental harm or harm to human health." FHWA guidance issued August 10, 1999 directs the use of the state's invasive species list, maintained by the California Invasive Plant Council (Cal-IPC) to define the invasive plants that must be considered as part of the National Environmental Policy Act (NEPA) analysis for a proposed project.

Under the EO, federal agencies cannot authorize, fund, or carry out actions that it believes are likely to cause or promote the introduction or spread of invasive species in the United States or elsewhere unless all reasonable measures to minimize risk of harm have been analyzed and considered.

2.1.4. Local Plans and Policies

The following local planning documents contain plans and policies applicable to biological resources in the BSA.

2.1.4.1. CITY OF ELK GROVE GENERAL PLAN

The City of Elk Grove General Plan (City 2015) policies relevant to biological resources for the Project include the following:

CAQ-8 Trees functioning as aesthetics for neighborhoods or as natural habitat should be preserved to the extent possible during development. If preservation is not possible, offsite mitigation may be required.

Tree selection for aesthetic value should consider aesthetic value, biological value, shade, water quality benefits, runoff reduction, air quality, health of tree, suitability for preservation in place, and safety hazard posed by tree.

CAQ-9 Wetlands, vernal pools, marshland, and riparian areas are considered important resources. Impacts to these resources shall be avoided if at all feasible. If infeasible to avoid impacts, the City will ensure that no net loss of these areas occurs, through re-vegetation and restoration onsite, or creation of new corridors. Mitigation should occur within the same watershed as the impact, and should be coordinated with CDFW and USFWS.

CAQ-11 Preserve areas, where feasible, where special-status plant and animal species and critical habitat are known to be present or have potential to be present. If preservation is not possible, mitigation shall be included for the project. Biological resource evaluations should be completed for special-status species, and mitigation planned in conjunction with the City, USFWS, CDFW, and the USACE.

CAQ-12 Ensure that groundwater and surface water quality is protected through cooperation with the County and other cities in compliance with the RWQCB NPDES permit system and Basin Plan.

CAQ-13 Implement the City's NPDES permit.

CAQ-14 Minimize increases in impervious surface in areas of new development and re-development.

2.1.4.2. CITY OF ELK GROVE SWAINSON'S HAWK ORDINANCE

Per Section 16.130 of the City Municipal Code, impacts to Swainson's hawk foraging habitat are required to be mitigated for at a 1:1 ratio. Mitigation can be accomplished through: 1) the preservation of suitable habitat (determined by the City and CDFW) through a perpetual conservation easement, 2) contribution to an in-lieu fee program, or 3) purchase of Swainson's hawk credits from a CDFW-approved mitigation bank, including the City's existing bank (City 2018b).

2.1.4.3. CITY OF ELK GROVE TREE PRESERVATION ORDINANCE

The City wants to preserve existing trees when reasonably possible, and has acknowledged the importance of preserving mature trees through adoption of their tree preservation and protection ordinance. The City's tree ordinance protects trees that fall within four categories; landmark trees (19.12.030), trees of local importance (19.12.040), secured trees (19.12.050), and trees in the City right-of-way or on City property (19.12.060) (City Municipal Code, Tree Preservation and Protection [EGMCTPP] Section in Chapter 19.12) (City 2018c).

2.2. Studies Required

Prior to conducting field surveys, available information regarding biological resources in the BSA was gathered and reviewed, including information on special-status plant and wildlife species with the potential to occur in the vicinity of the Project. Several data sources were reviewed, including:

- a records search of CDFW's California Natural Diversity Database (CNDDB) for the Elk Grove and eight surrounding U.S. Geological Survey (USGS) quadrangles (CDFW 2019) (Appendix A);
- a species list for the Project area from the USFWS Information for Planning and Conservation database (IPaC) (USFWS 2018) (Appendix A);
- a species list for the Elk Grove quadrangle from NMFS (2018) (Appendix A);
- a search of the California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants Database for the Elk Grove and eight surrounding USGS quadrangles (CNPS 2019) (Appendix A); and
- a review of potential aquatic features from the USACE Six County Aquatic Resource Inventory (SCARI) (USACE 2011).

Queries of the CNDDB, CNPS, and USFWS IPaC databases were conducted on March 23, 2018. A NMFS species list was acquired from their website on March 23, 2018. The database queries were updated on October 4 and 11, 2019.

Lists of special-status plant and wildlife species with the potential to occur in the BSA were developed based on the review of existing information, as identified above. These lists were used to focus the area of investigation on the special-status species and associated habitats with the potential to be present within the BSA.

Following a review of the resources listed above, it was determined that field surveys were required to assess the BSA for sensitive biological resources including special-status plants and wildlife.

2.2.1. Biological Study Area

As described in Section 1.3, the BSA includes all areas that could potentially be indirectly affected by the Project within a 250-foot buffer from the PIA boundary (see Figure 2). Limitations to the BSA are described in Section 2.4.

2.2.2. Personnel and Survey Dates

Environmental Science Associates (ESA) biologists Joshua Boldt and Joseph Sanders conducted site visits in May 2018 to conduct an aquatic resources delineation and a habitat assessment within the BSA. Segment 3 was later extended northward by 700 feet to Dino Drive/Mainline Drive, and Mr. Boldt surveyed the extension of the BSA on January 16, 2019. ESA biologist Kelly Bayne conducted a habitat assessment for giant garter snake on May 3, 2019. Methods for these surveys are discussed below. Table 2-1 below summarizes personnel qualifications and the dates that surveys were performed.

Table 2-1. Biological Surveys Conducted for the Project

Survey Dates	Personnel	
	Name	Type of Survey
May 3, 2018	Joshua Boldt, Biologist	Wildlife survey and habitat assessment, vegetation survey and habitat assessment, mapping of waters and wetlands of the U.S.
	Joseph Sanders, Biologist	
May 8, 2018	Joshua Boldt, Biologist	Wildlife survey and habitat assessment, vegetation survey and habitat assessment, mapping of waters and wetlands of the U.S.
	Joseph Sanders, Biologist	
January 16, 2019	Joshua Boldt, Biologist	Wildlife survey and habitat assessment, vegetation survey and habitat assessment, mapping of waters and wetlands of the U.S.
May 3, 2019	Kelly Bayne, Biologist	Giant garter snake habitat assessment.

Mr. Boldt is a biologist with 18 years of experience specializing in habitat assessments, aquatic resources delineations, and special-status plant surveys throughout Northern California.

Mr. Sanders is a biologist with three years of experience conducting biological resource surveys.

Ms. Bayne is a biologist with 14 years of experience conducting wildlife habitat assessments, aquatic resources delineations, botanical surveys, and arborist consultations throughout Northern California.

2.2.2.1. WILDLIFE SURVEYS AND HABITAT MAPPING

On May 3 and 8, 2018, and January 16, 2019, the ESA biologists conducted a general biological survey within the BSA. Prior to field surveys, satellite imagery and aerial photographs were analyzed to locate potential sensitive biological resources. Surveys were conducted by walking the entire BSA where entry was permitted and evaluating the potential for regionally occurring sensitive habitats (including jurisdictional waters of the U.S.) and special-status species to occur within the BSA (see Section 3.4 for a definition of special-status species). Plant communities and habitats were recorded onto a rectified aerial photograph, and all plant species encountered were identified and recorded. These habitat features (including jurisdictional waters of the U.S.) were digitized with geographic information system (GIS) software (ArcGIS 10.4) to provide digital habitat data for quantitative analysis. Areas not accessible in the BSA were viewed with binoculars and further analyzed using aerial photograph interpretation.

Prior to field surveys, wetland spatial data was obtained from the portions of the USACE SCARI (USACE 2011). The boundaries of these features were then examined in the field to determine if they were present in the BSA. Additional aquatic features in the BSA not identified in the USACE SCARI that were potentially jurisdictional were mapped in the field using a handheld GPS unit with sub-meter accuracy. These aquatic features were classified based on their biological communities and hydroperiods. The determination of jurisdictional acreages of waters of the U.S. in the BSA is considered preliminary pending verification by the USACE.

An assessment of potential giant garter snake habitat was conducted on May 3, 2019. This assessment consisted of an evaluation of potential upland habitat adjacent to suitable aquatic habitat in Laguna Creek.

2.3. Agency Coordination and Professional Contacts

A field meeting was held on May 8, 2018 to discuss the Preliminary Environmental Study (PES) for the Project between the California Department of Transportation (Caltrans) and City staff. Attendees included Amy Dunay and Kristin Parsons from the City; Thaleena Bhattal, Lisa

Machado, and Brooks Taylor from Caltrans; Karin Bouler and Joshua Boldt from ESA; and Carlton Allen and Leo Rubio from Bennett Engineering Services.

2.4. Limitations that May Influence Results

There were a number of locations within the BSA that were not accessible to biologists during the field surveys including most private properties throughout the BSA. Biologists used a combination of aerial interpretation and binoculars to survey habitats within these locations.

Although the surveys were within the nesting season, migratory nesting birds and raptors may change nesting locations seasonally and annually. While no bird nests, including raptor nests, were observed during the surveys, it does not exclude the possibility of their presence during the construction period.

The use of existing wetland data from the USACE SCARI could result in slight acreage differences due to the possibility that site conditions changed within the BSA from when the SCARI mapping was performed.

Chapter 3. Results: Environmental Setting

The BSA is within the city limits of the City of Elk Grove, which is located in southeastern Sacramento County (Figures 1 and 2). The BSA is comprised of three distinct project sites comprising eight road segments and encompassing a total of approximately 200.5 acres. The three sites include: (1) Waterman Road North; (2) Waterman Road South; and (3) Elk Grove Florin Road (Figures 3-1 through 3-3). The BSA is located on the Elk Grove, CA 7.5' USGS Quadrangle. It falls within portions of Section 36 T7N R5E; Section 01 T6N R5E; Sections 31 and 32 T7N R6E; Sections 5, 6, 7, and 8 T6N R6E.

Regionally, the BSA is located in the central portion of the southern Sacramento Valley, within the Sacramento Valley floristic province of the Great Central Valley (Baldwin et al. 2012). Historically, this region supported extensive marshes, riparian woodlands intermixed with oak woodland, vernal pools, and grasslands. Intensive agricultural and urban development has resulted in substantial changes to and conversions of these habitats. The remaining native plant communities exist now as isolated remnant patches within urban and agricultural landscapes.

3.1. Physical Conditions within the Biological Study Area

The BSA is located within the eastern portion of the City of Elk Grove. Land uses within and adjacent to the BSA consist of a mix of agriculture, open space/public parks, low- to high-density residential, commercial, and industrial. Within the BSA, many areas appear to have been historically graded or otherwise disturbed, and much of the BSA is developed land.

The BSA is situated on the broad, flat alluvial plain of the Sacramento River, and terrain is generally flat. Elevations of the BSA range from approximately 44 to 71 feet above mean sea level. Climate is typically hot and sub-humid. Data from the Western Regional Climate Center for the Sacramento Executive Airport weather station indicates that average annual precipitation is 17.24 inches. The average maximum annual temperature is 73.6 degrees (F) and average minimum annual temperature is 48.1 degrees (F) (Western Regional Climate Center 2018).

Surface waters in the BSA are part of the Morrison Creek Stream Group, and include Laguna Creek and tributaries. Deer Creek is southeast of the BSA, parallel to the Cosumnes River. However, all of the drainages in the BSA drain into the Morrison Creek Stream Group, then eventually into the Sacramento River. Most of the BSA is located in the Laguna Creek watershed (Hydrologic Unit Code [HUC] 180201630403), which is part of the Lower Sacramento Subbasin (HUC 18020163). The southern section of the Waterman Road South site is in the Lower Deer Creek watershed (HUC 180400130803). Laguna Creek, the main creek that flows through the City of Elk Grove,

has been altered by development. Channels, levees, and culverts have been installed to alleviate the possibility of flooding, as well as to accommodated different development scenarios.

3.2. Biological Conditions within the Biological Study Area

Plant communities are assemblages of plant species that occur together in the same area, and are defined by species composition and relative abundance. Eleven plant communities were identified within the BSA (Table 3-1). Upland plant communities within the BSA include developed/ ornamental, annual grassland, riparian, and agricultural. Aquatic plant communities and habitats include perennial channel, intermittent channel, seasonal wetland, vernal swale, vernal pool, detention basin, and agricultural ditch. The majority of the BSA consists of annual grassland and developed/ornamental. A detailed description of each of the plant communities documented within the BSA is provided below and documented in Figures 4-1 through 4-3.

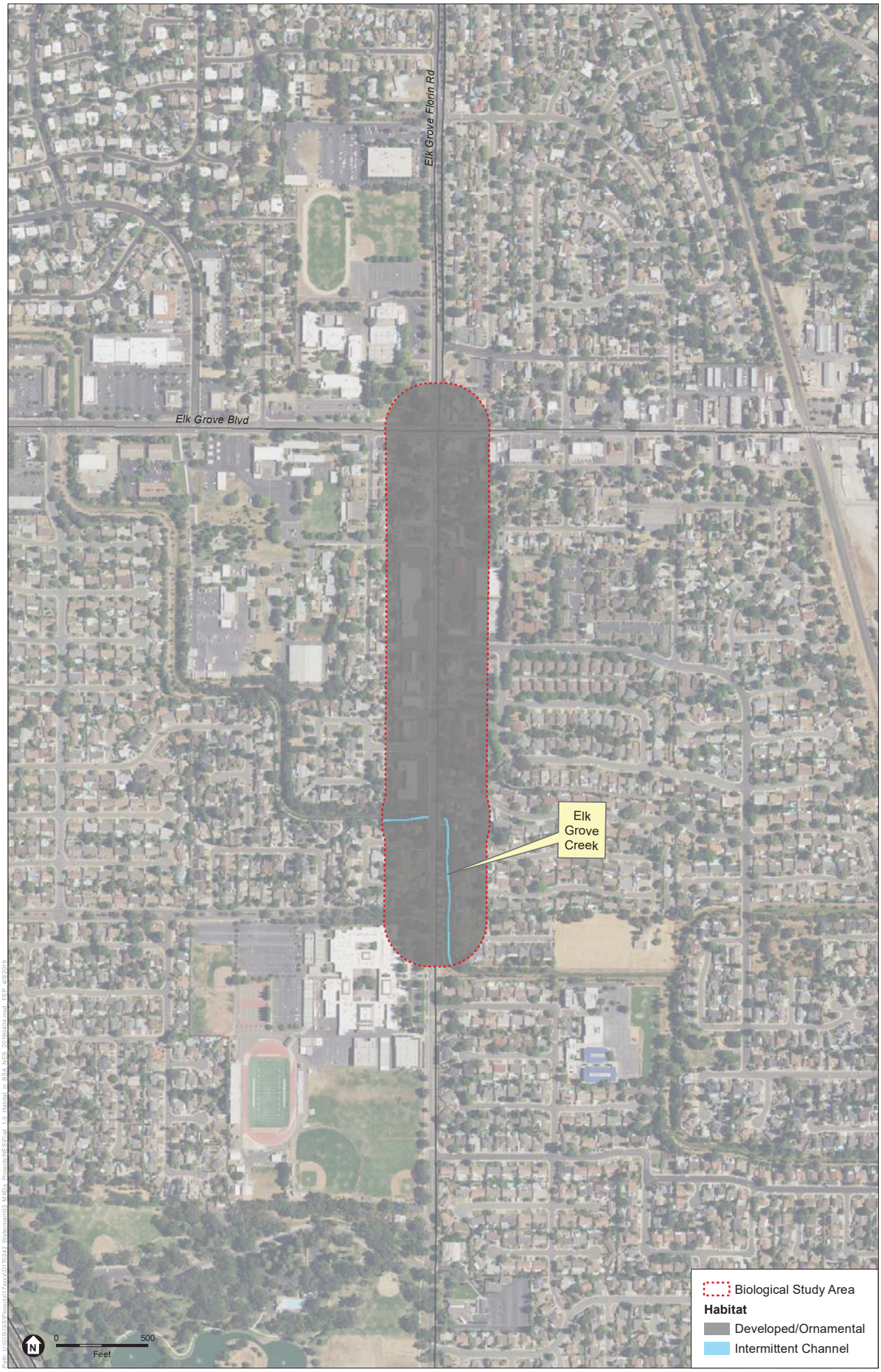
Table 3-1. Plant Communities and Habitats Within the BSA and PIA

Plant Community	BSA[1] (acres)	PIA (acres)
Developed/Ornamental	114.32	16.96
Annual Grassland	82.59	2.34
Agricultural	1.01	0.01
Seasonal Wetland	0.22	0.00
Detention Basin	0.52	0.00
Perennial Channel	0.46	0.00
Intermittent Channel	0.34	0.00
Riparian	0.46	0.00
Vernal Pool	0.45	0.00
Vernal Swale	0.12	0.00
Agricultural Ditch	0.01	0.00

[1]Plant community and habitat acreages in the BSA include acreages from the PIA.

3.2.1. Developed/Ornamental

Within the BSA, 114.32 acres of developed/ornamental plant community was mapped, with 16.96 acres in the PIA. This plant community includes all paved roads, driveways, buildings, and unpaved shoulders as well as landscaped areas including public parks. Vegetation within this community is dominated by non-native ornamentals including Brazilian pepper tree (*Schinus terebinthifolius*), ornamental pines (*Pinus* sp.), lily of the Nile (*Agapanthus africanus*), Italian cypress (*Cupressus sempervirens*), oleander (*Nerium oleander*), sweet gum (*Liquidambar styraciflua*), and callery pear (*Pyrus calleryana*). Within private yards along the BSA roadways much of the vegetation consists of regularly mowed annual grasses.

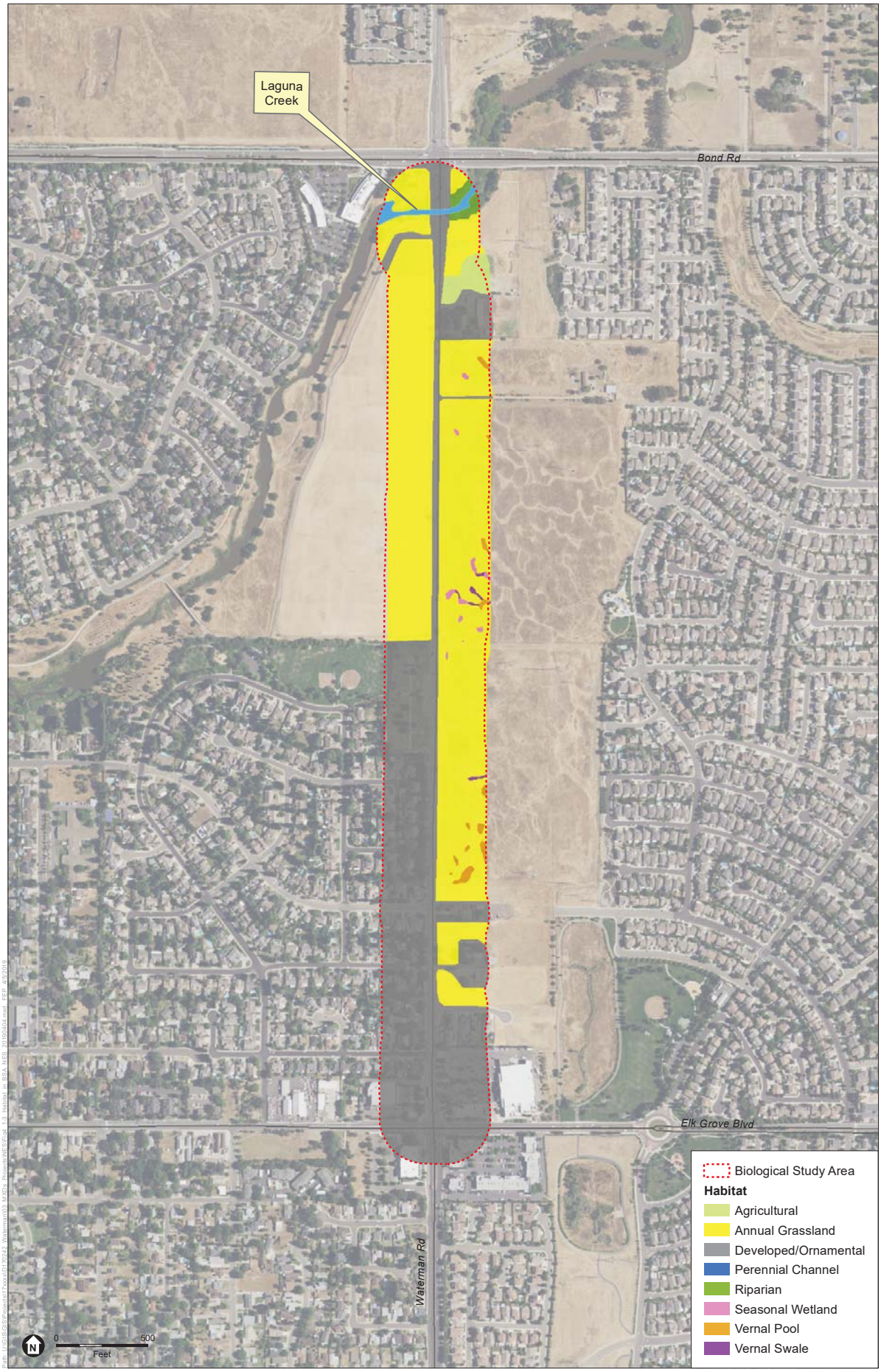


SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 4-1
Habitats within the Biological Study Area

ESA



SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 4-2
Habitats within the Biological Study Area

ESA

SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 4-3
Habitats within the Biological Study Area

ESA

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Developed/ornamental vegetation provides marginal habitat for wildlife species. Species expected to occur in these areas include Brewer's blackbird (*Euphagus cyanocephalus*), European starling (*Sturnus vulgaris*), house sparrow (*Passer domesticus*), rock dove (*Columba livia*), and white-crowned sparrow (*Zonotrichia leucophrys*).

3.2.2. Annual Grassland

A total of 82.59 acres of annual grassland was mapped within the BSA, with 2.34 acres in the PIA. This plant community, along with developed/ornamental, comprises the majority of the BSA, and is interspersed with large sections of developed/ornamental plant community and in some areas numerous wetland habitats. Dominant plant species include non-native grasses such as soft chess (*Bromus hordeaceus*), medusa head grass (*Elymus caput-medusae*), wild oat (*Avena fatua*), Italian ryegrass (*Festuca perennis*), foxtail barley (*Hordeum murinum*), and rat-tail six-weeks fescue (*Festuca myuros);* non-native herbaceous species including long-beak stork's-bill (*Erodium botrys*), rose clover (*Trifolium hirtum*), smooth cat's ear (*Hypochaeris glabra*), spring vetch (*Vicia sativa*), and yellow star-thistle (*Centaurea solstitialis*); and native herbaceous species such as brodiaea (*Brodiaea* sp.) and spikeweed (*Centromadia fitchii*).

Annual grassland habitat supports breeding, cover, and foraging habitat for a variety of wildlife species. Species expected to occur in this habitat include American crow (*Corvus brachyrhynchos*), mourning dove (*Zenaida macroura*), red-tailed hawk (*Buteo jamaicensis*), black-tailed jackrabbit (*Lepus californicus*), California ground squirrel (*Spermophilus beecheyi*), coyote (*Canis latrans*), and mule deer (*Odocoileus hemionus californicus*).

3.2.3. Agricultural

Within the BSA, 1.01 acres were mapped as agricultural, with 0.01 acre in the PIA. Agricultural lands occur interspersed with rural residential areas in the BSA. This plant community consists of pastures (comprised of annual grassland species), fallow fields, and areas used for row crops, primarily strawberries (*Fragaria × ananassa)*, with dirt/gravel strips around the field edges for vehicle access. In addition to the agricultural crops identified within this habitat, plant species include non-native annual grasses, prickly lettuce (*Lactuca serriola*), yellow star-thistle, and field bindweed (*Convolvulus arvensis*).

Agricultural land generally provides low-quality breeding habitat for wildlife species due to the high level and frequency of disturbance; however, it may provide cover and foraging habitat for many species. Species expected to occur in the habitat include America crow, America robin (*Turdus migratorius*), western scrub jay (*Aphelocoma californica*), yellow-billed magpie (*Pica nuttalli*), black-tailed jackrabbit, and deer mouse (*Peromyscus maniculatus*).

3.2.4. Seasonal Wetland

Seasonal wetlands total 0.22 acre in the BSA, and are interspersed through the annual grassland habitat east of Waterman Road in the Waterman Road North site. This plant community is not present within the PIA. Vegetation in the seasonal wetlands is dominated by Italian ryegrass, lesser hawkbit (*Leontodon saxatilis*), Mediterranean barley (*Hordeum marinum* ssp. *gussoneanum*), toad rush (*Juncus bufonius*), and hyssop loosestrife (*Lythrum hyssopifolia*). There was no surface water in the seasonal wetlands along Waterman Road at the time of the field survey.

Wildlife species use seasonal wetlands for temporary water sources and cover. Species expected to occur in this habitat type are similar to those expected to occur in the annual grassland habitat discussed above.

3.2.5. Detention Basin

Approximately 0.52 acre of detention basin was identified in the BSA, but this habitat type is not present in the PIA. The detention basin is unvegetated and appears to be used to store storm water following storm events. The detention basin is not considered a water of the U.S.

3.2.6. Perennial Channel

A total of 0.46 acre of perennial channel habitat occurs within the BSA in the form of Laguna Creek. There is no perennial channel habitat within the PIA. A perennial channel is a stream, or stream portion, that flows continuously during the calendar year. Larger riverine features such as perennial drainages may support riparian habitat along the banks and freshwater emergent wetland vegetation often occurs within the banks of the channel. The gradient in both channels is low and water velocity is generally slow and the substrate consists mainly of sand and mud. Laguna Creek is the dominant riverine habitat feature within the BSA. Laguna Creek supports freshwater emergent wetland species within its banks such as common cattail (*Typha latifolia*) and sedge (*Carex* sp.).

Several aquatic species use riverine habitats including fish species, bullfrog (*Rana catesbeiana*), and Pacific chorus frog (*Pseudacris regilla*), as well as avian and mammal species. Wildlife species expected to occur in this habitat include belted kingfisher (*Ceryle alcgon*), great blue heron (*Ardea herodias*), great egret (*Ardea alba*), mallard (*Anas platyrhynchos*), mule deer, and raccoon (*Procyon lotor*).

3.2.7. Intermittent Channel

Intermittent channels total 0.34 acre within the BSA in the form of Elk Grove Creek and a number of agricultural ditches. There is no intermittent channel habitat within the PIA. Elk Grove Creek crosses the Waterman Road South and Elk Grove Florin Road sites. An intermittent channel has flowing water during certain times of the year, when groundwater provides water for stream flow.

During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow. In the BSA, Elk Grove Creek has been channelized and is concrete lined, likely for flood control purposes. Some ruderal weedy species were observed growing within the banks of Elk Grove Creek. The agricultural ditches are for the most part unvegetated, with ruderal weedy species observed on the banks of the ditches but not within the channels.

Species expected to occur in this habitat type are similar to those expected to occur in the perennial channel habitat discussed above.

3.2.8. Riparian

Within the BSA, 0.46 acre were identified as riparian vegetation, with none present within the PIA. This habitat was identified along both banks of Laguna Creek east of Waterman Road in the northern portion of the Waterman Road North site. The riparian bands are bounded by annual grassland to the north and south and are bisected by Laguna Creek. Overstory species observed within this habitat include valley oak (*Quercus lobata*) and willow (*Salix* sp.). The understory is predominantly Himalayan blackberry (*Rubus armeniacus*). The riparian habitat in the BSA is associated with Laguna Creek, but is not considered a water of the U.S. due to a lack of wetland indicators (lacks wetland hydrology and soils).

Riparian habitat provides substantial breeding, cover, and foraging habitat for a variety of resident and migratory wildlife species. Additionally, this habitat provides a sheltered corridor for wildlife movement. Species expected to occur in this habitat include belted kingfisher, black phoebe (*Sayornis nigricans*), bushtit (*Psaltriparus minimus*), great blue heron, great egret, and mule deer.

3.2.9. Vernal Pool

Vernal pools comprise 0.45 acre of the BSA, but are not present within the PIA. Within the BSA, vernal pools are interspersed with annual grassland east of Waterman Road in the Waterman Road North site. Vegetation is dominated by common spike rush (*Eleocharis macrostachya*), annual hairgrass (*Deschampsia danthonioides*), Italian ryegrass, Carter's buttercup (*Ranunculus bonariensis*), coyote thistle (*Eryngium castrense*), woolly marbles (*Psilocarphus brevissimus*), and vernal pool popcorn-flower (*Plagiobothrys stipitatus*).

Vernal pools support invertebrate communities that thrive in inundated conditions. Invertebrate species that potentially occur in vernal pools within the BSA include common and special-status species such as clam shrimp (*Cyzicus californicus*), seed shrimp (*Cypria* sp.), vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), and several aquatic insects.

3.2.10. Vernal Swale

Vernal swales are present in association with the vernal pool and seasonal wetland habitats along the eastern side of Waterman Road in the Waterman Road North site, totaling 0.12 acre. No vernal swales are present in the PIA. These features often connect vernal pools and seasonal wetlands, forming large complexes that are hydrologically contiguous. Since swales convey rather than pond water like seasonal wetlands, they are dominated by hydrophytic (water loving) plants typical of wetlands with relatively short hydroperiods including Italian ryegrass and Mediterranean barley. The swales in the BSA do not support a prevalence of vernal pool indicator plant species, although they are often found in close associated with vernal pools.

Wildlife species use vernal swales for temporary water sources and cover. Species expected to occur in this habitat type are similar to those expected to occur in the annual grassland habitat discussed above.

3.2.11. Agricultural Ditch

Agricultural ditches are present in association with agricultural fields at the southern end of Waterman Road, totaling 0.01 acre. No agricultural ditches are present in the PIA. These shallow, graded ditches generally run along the edges of fields.

3.3. Non-native Invasive Plant Species

Non-native invasive plant species are plants that are not native to, yet can spread into, wild land ecosystems. These species can displace native species, hybridize with native species, alter biological communities, and/or alter ecosystem processes (Cal-IPC 2018). Cal-IPC (2018) provides an invasiveness rating for plants in California in the Invasive Plant Inventory for California. A rating of High indicates a species with severe ecological impacts, high rates of dispersal and establishment, and is usually widely distributed. A rating of Moderate indicates a species with substantial and apparent ecological impacts, moderate to high rates of dispersal, establishment dependent on disturbance, and limited to widespread distribution. A rating of Limited indicates a species with minor ecological impacts, low to moderate rates of invasion, limited distribution, and locally persistent and problematic. In addition to the overall ratings, indications of a significant potential for invading new ecosystems triggers a “Red Alert” designation (Cal-IPC 2018). A total of 39 invasive plant species listed in the Invasive Plant Inventory were documented within the BSA (Table 3-2).

Table 3-2. Plant Species Within the BSA with an Invasive Species Rating

Scientific Name	Common Name	Family	Rating[1]
Ailanthus altissima	Tree-of-heaven	Simaroubaceae	Moderate
Avena barbata	Slender wild oat	Poaceae	Moderate
Avena fatua	Wild oat	Poaceae	Moderate
Brassica nigra	Black mustard	Brassicaceae	Moderate
Bromus diandrus	Ripgut brome	Poaceae	Moderate
Bromus hordeaceus	Soft chess brome	Poaceae	Limited
Carduus pycnocephalus	Italian thistle	Asteraceae	Moderate
Centaurea solstitialis	Yellow star thistle	Asteraceae	High
Cynodon dactylon	Bermuda grass	Poaceae	Moderate
Elymus caput-medusae	Medusahead	Poaceae	High
Eucalyptus camaldulensis	Red gum	Myrtaceae	Limited
Eucalyptus globulus	Blue gum	Myrtaceae	Limited
Festuca myuros	Rat-Tail Six-Weeks	Poaceae	Moderate
Festuca perennis	Italian ryegrass	Poaceae	Moderate
Foeniculum vulgare	Sweet fennel	Apiaceae	High
Geranium dissectum	Cutleaf geranium	Geraniaceae	Limited
Glyceria declinata	Waxy mannagrass	Poaceae	Moderate
Hedera helix	English ivy	Araliaceae	High
Hirschfeldia incana	Wild mustard	Brassicaceae	Moderate
Hordeum marinum	Mediterranean barley	Poaceae	Moderate
Hordeum murinum	Hare barley	Poaceae	Moderate
Hypochaeris glabra	Smooth cat's ears	Asteraceae	Limited
Hypochaeris radicata	Hairy cats ear	Asteraceae	Moderate
Iris pseudacorus	Yellow iris	Iridaceae	Limited
Lepidium latifolium	Perennial pepperweed	Brassicaceae	High
Ludwigia peploides	Marsh purslane	Onagraceae	High
Lythrum hyssopifolium	Hyssop loosestrife	Lythraceae	Limited
Medicago polymorpha	Bur clover	Fabaceae	Limited
Phalaris aquatica	Hardinggrass	Poaceae	Moderate
Poa pratensis	Kentucky bluegrass	Poaceae	Limited
Polypogon monspeliensis	Rabbitsfoot grass	Poaceae	Limited
Prunus cerasifera	Cherry plum tree	Rosaceae	Limited
Pyrus calleryana	Callery pear	Rosaceae	Red Alert
Raphanus sativus	Radish	Brassicaceae	Limited
Rubus armeniacus	Himalayan blackberry	Rosaceae	High
Rumex crispus	Curly dock	Polygonaceae	Limited
Schinus terebinthifolius	Brazilian pepper tree	Anacardiaceae	Limited
Silybum marianum	Milk thistle	Asteraceae	Limited
Trifolium hirtum	Rose clover	Fabaceae	Limited

[1]Cal-IPC 2018

3.4. Special-status Species and Regional Habitats of Concern

Tables 3-3 and 3-4 (provided at the end of this chapter) list the special-status plants and wildlife species that are known to occur or have the potential to occur in the vicinity of the BSA. These species were identified based on the CNDDB records search (CDFW 2019) (Figure 5), CNPS Inventory of Rare and Endangered Plants (CNPS 2019), species lists provided by USFWS (USFWS 2019) and NMFS (NMFS 2019), and data regarding species distribution and habitat requirements.

For the purpose of this NES, special-status species are generally defined as follows:

- Plant and wildlife species listed or proposed for listing as threatened or endangered under the FESA.
- Plant and wildlife species that are candidates for possible future listing as threatened or endangered under the FESA (80 FR 80584-80614).
- Plant and wildlife species that meet the definition of rare or endangered species under the California Environmental Quality Act (CEQA), or are considered sensitive or unique by the scientific community, or occur at the limits of its natural range (CEQA Guidelines, Section 15380).
- Plants considered by the CNPS to be "rare, threatened, or endangered" in California (California Rare Plant Rank 1A, 1B and 2 [CNPS 2019]).
- Plants listed or proposed for listing by the State of California as threatened or endangered under CESA (14 CCR 670.5).
- Plants listed under the California Native Plant Protection Act (CFGC 1900 et seq.).
- Plants considered sensitive by other federal agencies (i.e., U.S. Forest Service, Bureau of Land Management) or state and local agencies or jurisdictions.
- Wildlife species that are listed or proposed for listing under CESA (CFGC 1992 Sections 2050 et seq.; 14 CCR Sections 670.1 et seq.).
- Wildlife species that are designated as Species of Special Concern (SSC) by CDFW.
- Wildlife species that are designated as Fully Protected by CDFW (CFGC, Section 3511, 4700, 5050, and 5515).

3.4.1. Special-status Plants

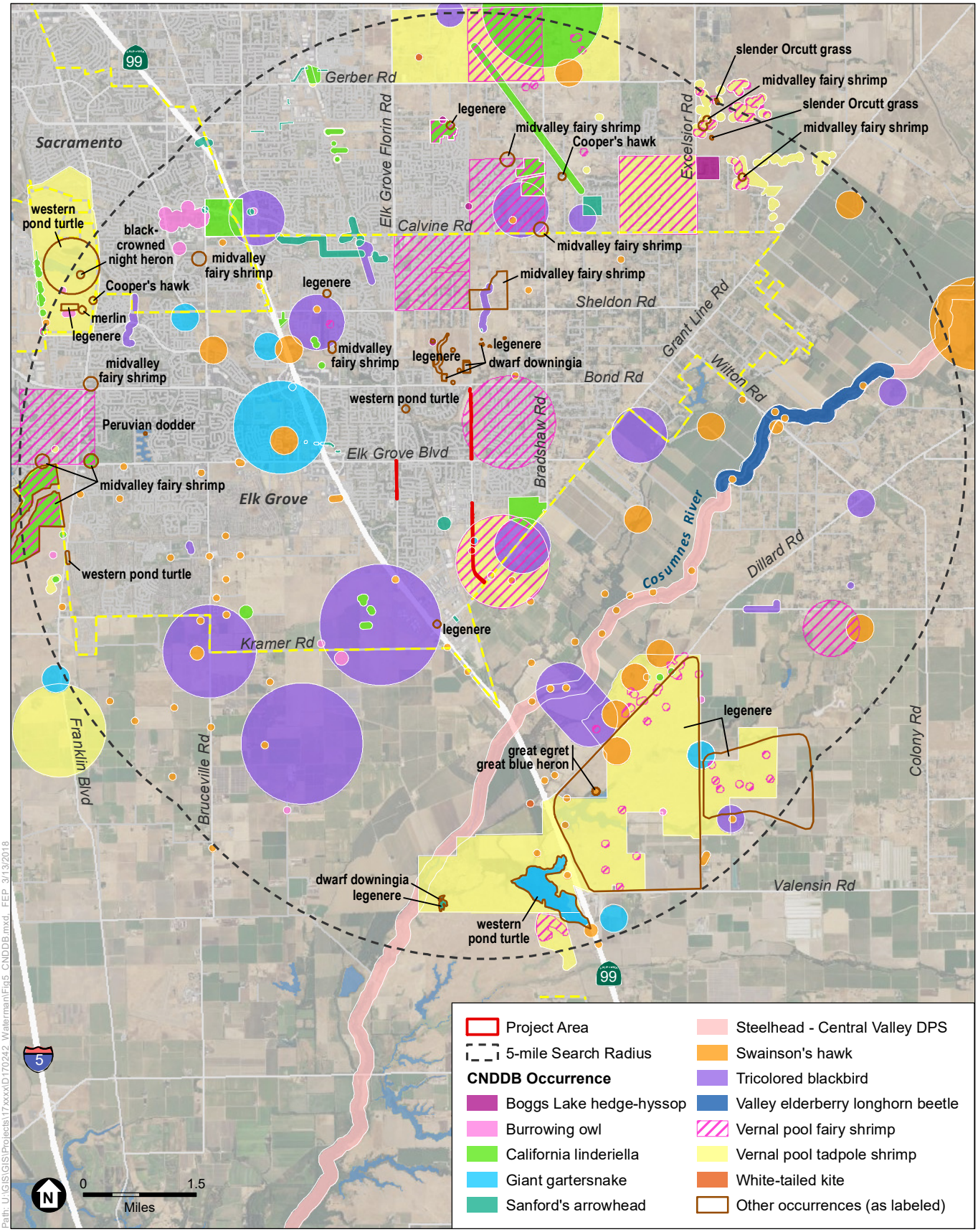
During the pre-field investigation, 20 special-status plant species were identified as having potential to occur in the vicinity of the Project (Table 3-3, Figure 5). Of the 20 special-status plant species listed in Table 3-3, 13 were determined to not have potential to occur in the BSA or have the potential to be affected by Project construction because: 1) the BSA lacks suitable habitat, or 2) the BSA is outside the species' known range. The remaining seven special-status plant species

have suitable habitat within the BSA, but not within the PIA. Rationale for presence or absence and likelihood of occurrence within the BSA for special-status plants is provided in Table 3-3.

3.4.2. Special-status Wildlife

Based on the review of existing information including a search of the CNDDB, USFWS, and NMFS species lists, and species distribution and habitat requirements data, 26 special-status wildlife species were identified during the pre-field review as occurring or having the potential to occur within the BSA. The listing status, preferred habitat, and potential for occurrence in the BSA for each of these species are provided in Table 3-4.

Of the 26 special-status wildlife species listed in Table 3-4, 17 species were determined to not have potential to occur within the BSA, because: 1) the BSA lacks suitable habitat, or 2) the BSA is outside the species' known range). There is habitat within the BSA for the remaining nine species. Vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), western spadefoot (*Spea hammondii*), western pond turtle (*Emys marmorata*), giant garter snake (*Thamnophis gigas*), tricolored blackbird (*Aeglaius tricolor*), burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), and white-tailed kite (*Elanus leucurus*) were determined to be potentially present within the BSA and have potential to be affected by the Project. These species are addressed in Chapter 4 of this NES. Rationale for presence or absence and likelihood of occurrence in the BSA for special-status wildlife is provided in Table 3-4. Figure 5 shows CNDDB results within five miles of the BSA (CDFW 2019).



SOURCE: USDA, 2016; CDFW, 2018; ESA, 2018

Elk Grove Arterial Roads Rehabilitation Project

Figure 5
CNDDB Occurrences

ESA

Table 3-3. Special-status Plant Species with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1] Federal/ State/CNPS	Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Survey Results/Rationale[2]
Watershield *Brasenia schreberi*	--/--/2B.3	Butte, El Dorado, Fresno, Kern, Lake, Lassen, Mendocino, Nevada, Plumas, Sacramento, Shasta, Siskiyou, San Joaquin, Sutter, Tehama, Tulare, and Tuolumne counties.	Marshes and swamps (freshwater). 100 – 7,200 feet.	June - September	Habitat Absent	Absent	No suitable habitat within the BSA. There is a single CNDDB occurrence approximately 7.6 miles southwest of the BSA.
Bristly sedge *Carex comosa*	--/--/2B.1	Contra Costa, Lake, Mendocino, Sacramento, San Bernardino, Santa Cruz, San Francisco, Shasta, San Joaquin, and Sonoma counties.	Coastal prairie, marshes and swamps (lake margins), and valley and foothill grasslands. 0 – 2050 feet.	May - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are six CNDDB occurrences within 10 miles of the BSA, the nearest approximately 6.7 miles west of the BSA.
Bolander's water-hemlock *Cicuta maculata* var. *bolanderi*	--/--/2B.1	Contra Costa, Marin, Sacramento, Santa Barbara, and Solano counties.	Marshes (coastal, freshwater or brackish). 0 – 650 feet.	July - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.
Peruvian dodder *Cuscuta obtusiflora* var. *glandulosa*	--/--/2B.2	Butte, Los Angeles, Merced, San Bernardino, Sonoma and Sutter counties.	Marshes and swamps (freshwater). 50 – 900 feet.	July - October	Habitat Absent	Absent	No suitable habitat within the BSA. There is a single CNDDB occurrence approximately 3.6 miles west of the BSA.
Dwarf downingia *Downingia pusilla*	--/--/2B.2	Southern Sacramento Valley, northern San Joaquin Valley, and southern North Coast Ranges.	Vernal pools in valley and foothill grasslands. 3 – 1,460 feet.	March - May	Habitat Present	Potentially Present	Suitable habitat (vernal pools) within the BSA, but not within the PIA. There are two CNDDB occurrences within 0.2 miles of the BSA and two additional occurrences within 10 miles.
Bogg's Lake hedge hyssop *Gratiola heterosepala*	--/SE/1B.2	Fresno, Lake, Lassen, Madera, Merced, Modoc, Placer, Sacramento, Shasta, Siskiyou, San Joaquin, Solano, Sonoma, and Tehama counties.	Clay soil in marshes and swamps (lake margins) and vernal pools. 0 – 7,800 feet.	April - August	Habitat Present	Potentially Present	Suitable habitat (vernal pools) within the BSA, but not within the PIA. There is one known CNDDB occurrence approximately 0.7 miles north of BSA, and five other occurrences within 10 miles.
Woolly rose-mallow *Hibiscus lasiocarpos* var. *occidentalis*	--/--/1B.2	Butte, Contra Costa, Colusa, Glenn, Sacramento, San Joaquin, Solano, Sutter, and Yolo counties.	Often in riprap on sides of levees in marshes and swamps (freshwater). 0 – 390 feet.	June - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are 10 CNDDB occurrences within 10 miles of the BSA, the nearest approximately 6.4 miles west of the BSA.

Table 3-3. Special-status Plant Species with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1] Federal/ State/CNPS	Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Survey Results/Rationale[2]
Northern California black walnut *Juglans hindsii*	--/--/1B.1	Contra Costa, Napa, Sacramento, Solano, and Yolo counties.	Riparian forest and riparian woodland. 0 – 1,450 feet.	April - May	Habitat Present	Potentially Present	Suitable habitat (riparian woodland) within the BSA, but not within the PIA. There is a single CNDDB occurrence approximately 7.5 miles west of the BSA.
Ahart's dwarf rush *Juncus leiospermus* var. *ahartii*	--/--/1B.2	Sacramento Valley in Butte, Calaveras, Placer, Sacramento, Tehama, and Yuba counties.	Valley and foothill grassland (mesic). 100 – 750 feet.	March - May	Habitat Present	Potentially Present	Suitable habitat (vernal pools) within the BSA, but not within the PIA. There are two CNDDB occurrences within 10 miles of the BSA, the nearest approximately 9.0 miles northeast of the BSA.
Delta tule pea *Lathyrus jepsonii* var. *jepsonii*	--/--/1B.2	Contra Costa, Napa, Sacramento, San Joaquin, Solano, Sonoma, and Yolo counties.	Freshwater and brackish marshes and swamps. 0 – 15 feet.	May - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.
Legenere *Legenere limosa*	--/--/1B.1	Southern Sacramento Valley, south North Coast Ranges in Alameda, Lake, Monterey, Napa, Placer, Sacramento, Santa Clara, Shasta, San Joaquin, San Mateo, Solano, Sonoma, Stanislaus, Tehama, and Yuba counties.	Vernal pools. 3 – 2,900 feet.	April - June	Habitat Present	Potentially Present	Suitable habitat (vernal pools) within the BSA, but not within the PIA. There are two CNDDB occurrences within 0.5 miles of the BSA and 20 additional occurrences within 10 miles.
Heckard's pepper-grass *Lepidium latipes* var. *heckardii*	--/--/1B.2	Glenn, Merced, Sacramento, Solano, and Yolo counties.	Alkaline flats in valley and foothill grasslands. 7 – 650 feet.	March - May	Habitat Present	Potentially Present	Suitable habitat (seasonal wetlands) within the BSA, but not within the PIA. There are two CNDDB occurrences within 10 miles of the BSA, the nearest approximately 7.0 miles west of the BSA.
Mason's lilaeopsis *Lilaeopsis masonii*	--/SR/1B.1	Alameda, Contra Costa, Marin, Napa, Sacramento, San Joaquin, Solano, and Yolo counties.	Marshes and swamps (freshwater or brackish) and riparian scrub. 0 – 30 feet.	April - November	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.

Table 3-3. Special-status Plant Species with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1] Federal/ State/CNPS	Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Survey Results/Rationale[2]
Delta mudwort *Limosella australis*	--/--/2B.1	Contra Costa, Sacramento, San Joaquin, and Solano counties.	Usually mud banks in marshes and swamps (freshwater or brackish) and riparian scrub. 0 – 10 feet.	May - August	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.
Slender Orcutt grass *Orcuttia tenuis*	FT/SE/1B.1	Northern Sacramento Valley, Pit River Valley; isolated populations in Lake and Sacramento counties.	Often gravelly soil in vernal pools. Species requires prolonged inundation period. Species known from larger pools (>0.2 acre). 115 – 5,800 feet.	May - October	Habitat Absent	Absent	Although the BSA supports vernal pool habitat, the vernal pools in the BSA are not large enough nor do they remain inundated long enough to support this species. There are two CNDDB occurrences within 10 miles of the BSA, the nearest approximately 4.6 miles northeast of the BSA. ***No effect.***
Sacramento Orcutt grass *Orcuttia viscida*	FE/SE/1B.1	Sacramento County.	Vernal pools. Species requires prolonged inundation period. Species known from larger pools (>0.1 acre). 100 to 330 feet.	April - September	Habitat Absent	Absent	Although the BSA supports vernal pool habitat, the vernal pools in the BSA are not large enough nor do they remain inundated long enough to support this species. There are two CNDDB occurrences within 10 miles of the BSA, the nearest approximately 5.8 miles northeast of the BSA. ***No effect.***
Sandford's arrowhead *Sagittaria sanfordii*	--/--/1B.2	Scattered locality throughout the Central Valley and adjacent foothills.	Marshes and swamps (assorted shallow freshwater). 0 – 2,100 feet.	May - November	Habitat Absent	Absent	No suitable habitat within the BSA. There are three CNDDB occurrences within 0.7 miles of the BSA and 28 additional occurrences within 10 miles.
Marsh skullcap *Scutellaria galericulata*	--/--/2B.2	El Dorado, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta and San Joaquin counties.	Lower montane coniferous forest, meadows and seeps (mesic), as well as marshes and swamps. 0 – 6,900 feet.	June - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.
Side-flowering skullcap *Scutellaria lateriflora*	--/--/2B.2	Inyo, Sacramento and San Joaquin counties.	Meadows and seeps (mesic) as well as marshes and swamps. 0 – 1,650 feet.	July - September	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA.

Table 3-3. Special-status Plant Species with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1] Federal/ State/CNPS	Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Survey Results/Rationale[2]
Saline clover *Trifolium hydrophilum*	--/--/1B.2	Alameda, Contra Costa, Lake, Monterey, Napa, Sacramento, San Benito, Santa Clara, Santa Cruz, San Luis Obispo, San Mateo, Solano, Sonoma and Yolo counties.	Marshes and swamps, valley and foothill grassland (mesic, alkaline), and vernal pools. 0 – 985 feet.	April - June	Habitat Present	Potentially Present	Suitable habitat (seasonal wetlands and vernal pools) within the BSA, but not within the PIA. There are five CNDDB occurrences within 10 miles of the BSA, the nearest approximately 6.1 miles west of the BSA.

[1]Status explanations:

-- = no listing.

Federal
FE = listed as endangered under the federal Endangered Species Act.
FT = listed as threatened under the federal Endangered Species Act.

State
SE = listed as endangered under the California Endangered Species Act.
SR = listed as rare under the California Endangered Species Act.
ST = listed as threatened under the California Endangered Species Act.

California Native Plant Society
1B = Rank 1B species: rare, threatened, or endangered in California and elsewhere.
2B = Rank 2B species: rare, threatened, or endangered in California but more common elsewhere.
0.1 = Seriously threatened in California (over 80% of occurrences threatened/high degree and immediacy of threat)
0.2 = Moderately threatened in California (20%-80% occurrences threatened/moderate degree and immediacy of threat)
0.3 = Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat or no current threats known)

[3]Rationale includes an effects determination under the FESA for all federally listed species.

Table 3-4. Special-status Wildlife with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Invertebrates								
Vernal pool fairy shrimp *Branchinecta lynchi*	FT	--	Central Valley, Central and South Coast Ranges from Tehama County to Santa Barbara County; isolated populations also in Riverside County and southern Oregon	Vernal pools and seasonal wetlands; also found in sandstone rock outcrop pools.	November-April for active shrimp, April-November for cysts	Habitat Present	Assumed Present	Suitable habitat (seasonal wetlands and vernal pools) within the BSA, but not within the PIA. Suitable habitat will not be impacted by the Project. USFWS protocol presence/ absence surveys have not been conducted for this species. There are two CNDDB occurrences within the BSA, and 64 additional occurrences within 10 miles. ***No effect.***
Valley elderberry longhorn beetle *Desmocerus californicus dimorphus*	FT	--	Central Valley and surrounding foothills below 1,500 feet elevations	Dependent on elderberry (*Sambucus* sp.) shrubs as a host plant; potential habitat is shrubs with stems 1 inch in diameter within Central Valley.	Year-round for host plant and exit holes	Habitat Absent	Absent	No suitable habitat within the BSA. No elderberry shrubs were observed within the BSA. There are seven CNDDB occurrences within 10 miles of the BSA, the nearest approximately 1.7 miles east of the BSA along the Cosumnes River. ***No effect.***
Vernal pool tadpole shrimp *Lepidurus packardi*	FE	--	Central Valley from Shasta County south to Merced County	Vernal pools, vernal lakes, and other seasonal wetlands.	November-April for active shrimp, April-November for cysts	Habitat Present	Assumed Present	Suitable habitat (seasonal wetlands and vernal pools) within the BSA, but not within the PIA. Suitable habitat will not be impacted by the Project. USFWS protocol presence/ absence surveys have not been conducted for this species. There is one CNDDB occurrence within the BSA, and 73 additional occurrences within 10 miles. ***No effect.***

Table 3-4. Special-status Wildlife with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Amphibians								
California tiger salamander *Ambystoma californiense*	FT	ST	Central Valley, including Sierra Nevada foothills up to 1,500 feet. The Cosumnes River marks the northern boundary of the species' range, with the exception of an isolated in the Dunnigan Hills in northern Yolo County.	Annual grasslands and valley-foothill woodlands; breeds in seasonal wetlands such as vernal pools and swales. Burrows in underground refugia such as small mammal burrows.	January-May (aquatic)	Habitat Present	Absent	Suitable habitat (seasonal wetlands, vernal pools, annual grassland) is present within the BSA. The BSA is outside known species range; project area is north of the Cosumnes River. There are two CNDDB occurrences within 10 miles of the BSA, the nearest approximately 9.3 miles south of the BSA. ***No effect.***
California red-legged frog *Rana draytonii*	FT	ST	Along the coast and coastal mountain ranges of California from Marin County to San Diego County and in the Sierra Nevada from Tehama County to Fresno County.	Permanent and semi-permanent aquatic habitats, such as creeks and ponds with emergent and submergent vegetation; may aestivate in upland burrow during dry periods.	Year-round	Habitat Absent	Absent	No suitable habitat within the BSA. The BSA is not within the known range for the species. There are no CNDDB occurrences within 10 miles of the BSA. ***No effect.***
Western spadefoot *Spea hammondii*	--	SSC	Sierra Nevada foothills, Central Valley, Coast Ranges, coastal counties in southern California.	Shallow streams with riffles and seasonal wetlands, such as vernal pools in annual grasslands and oak woodlands.	January-July (aquatic)	Habitat Present	Potentially Present	Suitable aquatic habitat (seasonal wetlands, vernal pools) is present within the BSA, but not within the PIA. Suitable upland habitat (annual grassland) is present within the BSA and PIA. There are five CNDDB occurrences within 10 miles of the BSA, the nearest approximately 8.5 miles northeast of the BSA.
Reptiles								
Western pond turtle *Emys marmorata*	--	SSC	Populations extend throughout the coast and Central Valley of California.	Ponds, marshes, rivers, streams and irrigation ditches with aquatic vegetation below 6,000 feet in elevation.	Year-round	Habitat Present	Potentially Present	Suitable aquatic habitat is present in Laguna Creek in the BSA. No suitable habitat within the PIA. There are eight CNDDB occurrences within 10 miles of the BSA, the nearest approximately 0.9 miles west of the BSA.

Table 3-4. Special-status Wildlife with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Giant garter snake *Thamnophis gigas*	FT	ST	Central Valley from Fresno County north to the Gridley/Sutter Buttes area; has been extirpated from areas south of Fresno.	Sloughs, canals, and other small waterways where there is a prey base of small fish and amphibians; requires grassy banks and emergent vegetation for basking and areas of high ground protected from flooding during winter. Utilizes upland habitats within 200 feet from aquatic habitats.	April-October	Habitat Present	Potentially Present	Suitable aquatic habitat is present in Laguna Creek in the BSA but not within the PIA. There is no suitable upland habitat in the BSA for this species within 200 feet of suitable aquatic habitat. Suitable habitat will not be impacted by the Project. There are 15 CNDDB occurrences within 10 miles of the BSA, including one within the BSA. ***No effect.***
Birds								
Tricolored blackbird *Agelaius tricolor*	--	SCT, SSC	Largely endemic to California; permanent residents in the Central Valley from Butte County to Kern County; at scattered coastal locations from Marin County south to San Diego County; breeds at scattered locations in Lake, Sonoma, and Solano counties; rare nester in Siskiyou, Modoc, and Lassen counties. Sacramento-San Joaquin Valleys and low foothills of coast ranges and Sierra Nevada.	Nests in dense colonies in emergent marsh vegetation, such as tules and cattails, or upland sites with blackberries, nettles, thistles, and grain fields; nesting habitat must be large enough to support 50 pairs; probably requires water at or near the nesting colony; requires large foraging areas, including marshes, pastures, agricultural wetlands, dairies, and feedlots, where insect prey is abundant.	March-August	Habitat Present (foraging)	Potentially Present (foraging)	Potential foraging habitat within the BSA near Laguna Creek, but no nesting habitat. There are 73 CNDDB occurrences within 10 miles of the BSA, the nearest approximately 0.5 miles north of the BSA
Golden eagle *Aquila chrysaetos*	BGPA	FP	Foothills and mountains throughout California; uncommon nonbreeding visitor to lowlands such as the Central Valley.	Cliffs and escarpments or tall trees for nesting; annual grasslands, chaparral, and oak woodlands with plentiful medium and large-sized mammals for prey.	Year-round	Habitat Absent	Absent	No nesting habitat within the BSA. There is a single CNDDB occurrence approximately 7.1 miles north of the BSA.

Table 3-4. Special-status Wildlife with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Burrowing owl *Athene cunicularia*	--	SSC	Lowlands throughout California, including the Central Valley, northeastern plateau, southeastern deserts, and coastal areas; rare along south coast. Central and southern coastal habitats, and Central Valley.	Open annual grasslands or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Dependent upon burrowing mammals (especially California ground squirrel [*Otospermophilus beecheyi*]) for burrows.	Year-round	Habitat Present	Potentially Present	The annual grassland habitat within the PIA and surrounding BSA provides suitable nesting and foraging habitat for this species. There are 30 CNDDB occurrences within 10 miles of the BSA, the nearest approximately 1.6 miles northwest of the BSA.
Swainson's hawk *Buteo swainsoni*	--	ST	Lower Sacramento and San Joaquin Valleys, the Klamath Basin, and Butte Valley; the state's highest nesting densities occur near Davis and Woodland, Yolo County.	Nests in oaks or cottonwoods in or near riparian habitats; forages in grasslands, irrigated pastures, and grain fields.	March-September	Habitat Present	Potentially Present	Potential nesting and foraging habitat present within the BSA. There is one CNDDB occurrence within the BSA, and 174 additional occurrences within 10 miles.
Western yellow-billed cuckoo *Coccyzus americanus occidentalis*	FT	SE	More common locations include Sacramento River from Red Bluff to Colusa and the South Fork Kern River from Isabella Reservoir to Canebrake Ecological Reserve.	This species is a riparian obligate, nesting in low to moderate elevation riparian woodlands with native broadleaf trees and shrubs that are 20 hectares (50 acres) or more in extent.	May - September	Habitat Absent	Absent	No habitat within the BSA. There is a single CNDDB occurrence approximately 8.7 miles west of the BSA along the Sacramento River. ***No effect.***
White-tailed kite *Elanus leucurus*	--	FP	Lowland areas west of Sierra Nevada from head of Sacramento Valley south, including coastal valleys and foothills to western San Diego County at the Mexico border. Central Valley and low foothills of Sierra Nevada.	Agricultural lands and open stages of most herbaceous habitats. Nests in dense oak, willow, or other tree stands.	Year-round	Habitat Present	Potentially Present	Potential nesting and foraging habitat present within the BSA. There are six CNDDB occurrences within 10 miles of the BSA, the nearest approximately 3.0 miles south of the BSA.

Table 3-4. Special-status Wildlife with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
California black rail *Laterallus jamaicensis coturniculus*	--	ST,FP	Known to occur in Alameda, Butte, Contra Costa, Imperial, Marin, Napa, Nevada, Placer, Riverside, Sacramento, San Bernardino, San Joaquin, San Luis Obispo, San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma, Sutter, and Yuba counties.	Saltwater, brackish, and freshwater marshes.	Year-round	Habitat Absent	Absent	No nesting or foraging habitat within the BSA. There is a single CNDDB occurrence approximately 6.9 miles west of the BSA.
Song sparrow ("Modesto" population) *Melospiza melodia*	--	SSC		Emergent freshwater marshes dominated by tule (*Scirpus* spp., *Schoenoplectus* spp.) and cattail (*Typha* spp.) as well as riparian willow (*Salix* spp.) thickets. Also nest in riparian forests of valley oak (*Quercus lobata*) with a sufficient understory of blackberry (*Rubus* spp.), along vegetated irrigation canals and levees, and in recently planted valley oak restoration sites		Habitat Absent	Absent	No nesting or foraging habitat within the BSA. There are 14 CNDDB occurrences within 10 miles of the BSA, the nearest approximately 7.2 miles west of the BSA.
Purple martin *Progne subis*	--	SSC	Nests in Sacramento County; uncommon or absent elsewhere in the Central Valley; breeds in coastal areas from Del Norte County south to Santa Barbara County; rare in southern California.	Abandoned woodpecker holes in valley oak and cottonwood (*Populus* spp.) forests for nesting; also nests in vertical drainage holes under elevated freeways and highway bridges; open areas required for feeding.	Year-round	Habitat Absent	Absent	No nesting habitat is present in the BSA. There is a single CNDDB occurrence approximately 9.5 miles northwest of the BSA.

Table 3-4. Special-status Wildlife with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Bank swallow *Riparia*	--	ST	The state's largest remaining breeding populations are along the Sacramento River from Tehama County to Sacramento County and along the Feather and lower American Rivers, in the Owens Valley; nesting areas also include the plains east of the Cascade Range south through Lassen County, northern Siskiyou County, and small populations near the coast from San Francisco County to Monterey County.	Nests in bluffs or banks, usually adjacent to water, where the soil consists of sand or sandy loam to allow digging.	Year-round	Habitat Absent	Absent	Not within the species breeding range, and no nesting habitat present within the BSA. There are no CNDDB occurrences within 10 miles of the CNDDB.
Yellow-headed blackbird *Xanthocephalus*	--	SSC	Throughout the Central Valley, and along the eastern side of the Sierra Nevada Mountains. Yearlong distribution follows a limited area along the Sacramento River, though summer range is larger, and incorporates much of the Central Valley.	Freshwater wetlands with dense, emergent vegetation like cattails. Often forage in fields, and winter in large open agricultural areas.	Year-round	Habitat Absent	Absent	No nesting habitat is present in the BSA. There is a single CNDDB occurrence approximately 8.4 miles west of the BSA.
Mammals								
American badger Taxidea taxus	--	SSC	Central Valley and surrounding foothills.	American badgers utilize a variety of open habitats with friable soils and plentiful fossorial mammals. They are generally not tolerant of large scale habitat modification such as intensive agriculture or other human activities.	Year-round	Habitat Absent	Absent	There is no suitable habitat for this species in the PIA or BSA. The urban nature of the BSA precludes this species. There are three CNDDB occurrences within 10 miles of the BSA, the nearest approximately 8.4 miles west of the BSA.

Table 3-4. Special-status Wildlife with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Fish								
Delta Smelt *Hypomesus transpacificus*	FT	SE	Sacramento-San Joaquin Delta and the lower reaches of the two rivers.	Estuarine or brackish waters to 14 parts per thousand (ppt); spawn in shallow brackish water upstream of the mixing zone (zone of saltwater-freshwater interface) where salinity is around 2 ppt.	Year-round	Habitat Absent	Absent	No suitable habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA. ***No effect.***
Central Valley Steelhead *Oncorhynchus mykiss*	FT	--	Sacramento and San Joaquin Rivers and tributaries, Sacramento-San Joaquin Delta, San Francisco Bay.	Cool water with moderate size gravel for spawning and cover for rearing.	Year-round	Habitat Absent	Absent	No suitable spawning or rearing habitat within the BSA. There are two CNDDB occurrences within 10 miles of the BSA associated with the Sacramento and Cosumnes Rivers. ***No effect.***
Central Valley Spring-run Chinook Salmon *Oncorhynchus tshawytscha*	FT	ST	Sacramento and San Joaquin Rivers and tributaries, Sacramento-San Joaquin Delta, San Francisco Bay.	Cool water with moderate size gravel for spawning and cover for rearing.	Year-round	Habitat Absent	Absent	No suitable spawning or rearing habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA. ***No effect.***
Sacramento River Winter-run Chinook Salmon *Oncorhynchus tshawytscha*	FE	SE	Sacramento and San Joaquin Rivers and tributaries, Sacramento-San Joaquin Delta, San Francisco Bay.	Cool water with moderate size gravel for spawning and cover for rearing.	Year-round	Habitat Absent	Absent	No suitable spawning or rearing habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA. ***No effect.***
Central Valley Fall/ Late Fall-run Chinook Salmon *Oncorhynchus tshawytscha*	--	SSC	Sacramento and San Joaquin Rivers and tributaries, Sacramento-San Joaquin Delta, San Francisco Bay.	Cool water with moderate size gravel for spawning and cover for rearing.	Year-round	Habitat Absent	Absent	No suitable spawning or rearing habitat within the BSA. There are no CNDDB occurrences within 10 miles of the BSA. ***No effect.***

Table 3-4. Special-status Wildlife with the Potential to Occur in the Biological Study Area

Common and Scientific Name	Legal Status[1]		Distribution	Habitat Association	Identification Period	Habitat Present/ Absent	Species Present/ Absent	Rationale[2]
	Federal	State						
Longfin Smelt *Spirinchus thaleichthys*	FCT	ST, SSC	Scattered populations of longfin smelt occur along the Pacific coast from Alaska to the San Francisco Estuary. Sacramento-San Joaquin Delta and the lower reaches of the two rivers.	Longfin smelt larvae and small juveniles are rarely found in water warmer than 71.6ºF (22ºC). Competent-swimming young juveniles disperse toward more-saline and deeper-water habitats. Mature longfin smelt require cool-to-cold [less than 60.8ºF (16ºC)] freshwater habitats for spawning.	Year-round	Habitat Absent	Absent	No suitable habitat within the BSA. There is a single CNDDB occurrence within 10 miles of the BSA associated with the Sacramento River. ***No effect.***

Status explanations:

-- = no listing.

Federal
FC = federal candidate for listing under the federal Endangered Species Act.
FE = listed as endangered under the federal Endangered Species Act.
FT = listed as threatened under the federal Endangered Species Act.
BGPA = bald and golden eagle protection act

State
SCT = state candidate for listing as threatened under the California Endangered Species Act.
SE = listed as endangered under the California Endangered Species Act.
SSC = state species of special concern
ST = listed as threatened under the California Endangered Species Act.

[3]Rationale includes an effects determination under the FESA for all federally listed species.

Chapter 4. Results: Biological Resources, Discussion of Impacts and Mitigation

This chapter provides survey results and analyzes the effects of the Project on natural communities, special-status species, and other protected biological resources. Direct effects are those effects generated directly from the Project. Examples of direct effects include direct harm to special-status species during construction, elimination of suitable habitat due to project construction, and degradation of habitats due to construction-related activities. Indirect effects are those effects that are caused by the Project and are later in time. Examples of these types of effects to biological resources include the discharge of contaminants or other material that adversely affect water quality downstream of the project site, an increase in human activity during project operations, and potential growth-inducement effects. For direct effects, areas not expected to return to baseline conditions (e.g., new paved areas) within one year after Project construction were considered permanent impacts. Indirect effects included all areas with potential to be affected (i.e., altered hydrological regimes within wetlands with potential to support special-status species). Figures 6-1 through 6-3 show the areas of direct and indirect effects for the Project.

4.1. Impacts to Terrestrial Habitats

Based on preliminary project design information, it is assumed that portions of all terrestrial habitats identified within the PIA will be directly impacted by the proposed Project. Table 4-1 summarizes the potential impacts to terrestrial habitats in the BSA. Figures 6-1 through 6-3 depict the potential impacts to all habitat types within the PIA.

Table 4-1. Impacts to Terrestrial Habitats within the PIA

Habitat Types	BSA[1] (acres)	Acres Impacted (PIA)
Developed/Ornamental	114.32	16.96
Annual Grassland	82.59	2.34
Agricultural	1.01	0.01
Agricultural Ditch	0.01	0.00
Detention Basin	0.52	0.00

[1]Habitat acreages in the BSA include acreages from the PIA.

A total of 16.96 acres of developed/ornamental habitat, 2.34 acres of annual grassland, and 0.01 acre of agricultural habitat will be impacted by the Project.

4.2. Habitats and Natural Communities of Special Concern

Habitats and natural communities of special concern are those that are regulated by federal, state, or local resource agencies. Within the BSA, riparian habitat (regulated under CFGC) and waters of the U.S. (regulated under the CWA) qualify as natural communities of special concern.

4.2.1. Waters of the U.S. and Riparian Habitat

The vernal pools, vernal swales, seasonal wetlands, and perennial and intermittent channel habitats within the BSA are considered potentially jurisdictional waters of the U.S., and would be regulated under the CWA. Similarly, the riparian habitat in the BSA is considered under the jurisdiction of CDFW and would be regulated under CFGC Sections 1600-1612. However, none of these habitats are present within the PIA, and as a result, the Project will not result in direct impacts to these habitats.

4.2.1.1. SURVEY RESULTS

Based on the results of the May 2018 and January 2019 aquatic resources delineation, the BSA includes four aquatic habitats (vernal pools, vernal swales, seasonal wetlands, and perennial and intermittent channels) that are potentially regulated as waters of the U.S. (Table 4-2). During the field study, observations regarding vegetation, soils, and hydrology were recorded. The PIA does not support any aquatic habitats considered waters of the U.S.

In addition to waters of the U.S., the BSA supports riparian habitat along both banks of Laguna Creek east of Waterman Road in the northern portion of the Waterman Road North site (Table 4-2). The riparian habitat in the BSA is associated with Laguna Creek, but is not considered a water of the U.S. due to a lack of wetland indicators. The PIA does not support any riparian habitat.

Table 4-2. Habitats and Natural Communities of Special Concern within the Project Area

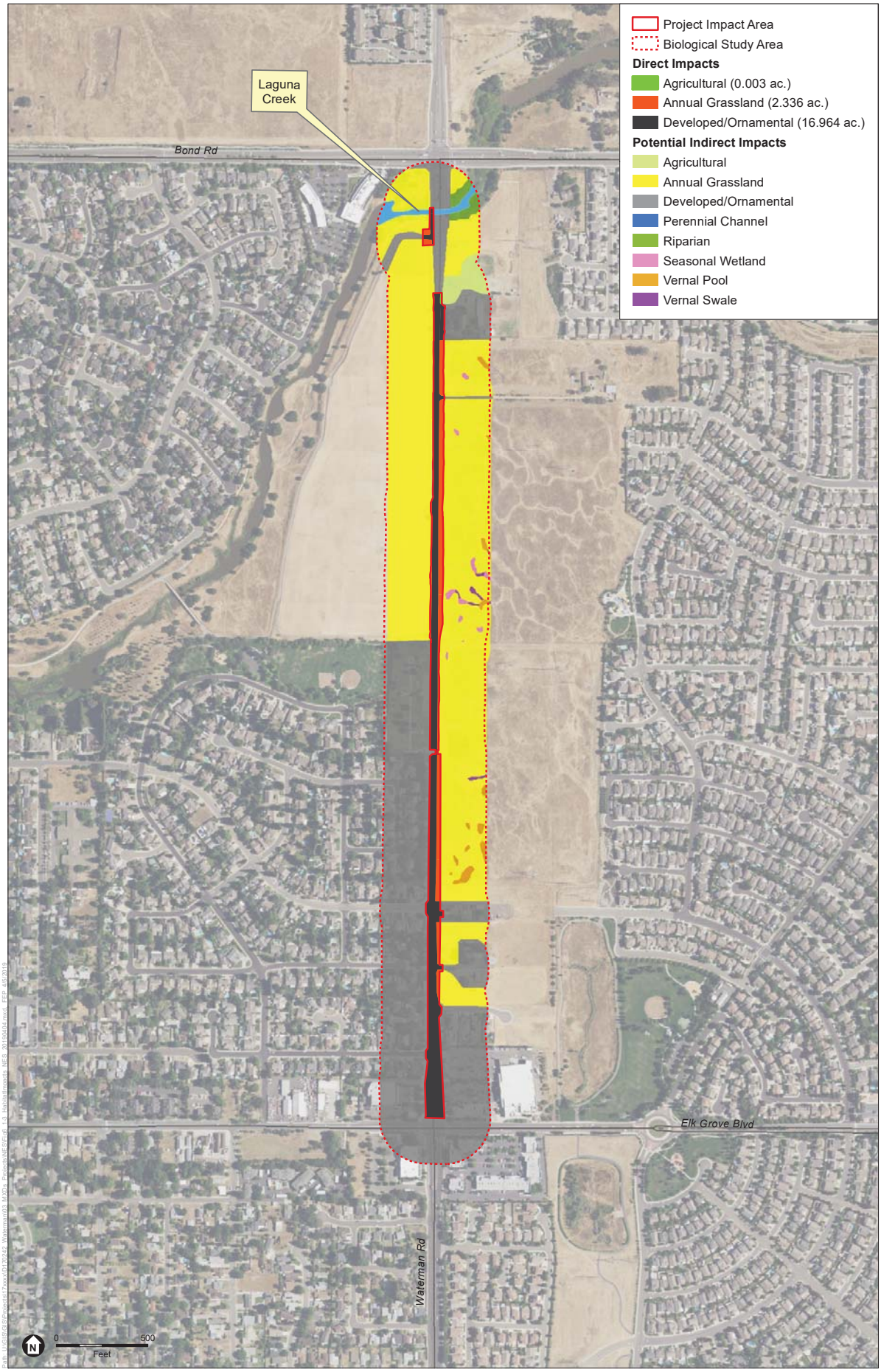
Community Type	BSA (acre)	PIA (acre)
Riparian	0.460	0.000
Waters of the U.S.		
Seasonal Wetland	0.223	0.000
Vernal Pool	0.454	0.000
Vernal Swale	0.119	0.000
Perennial Channel	0.458	0.000
Intermittent Channel	0.343	0.000

SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 6-1
Direct and Indirect Impacts to Vegetation Communities

ESA

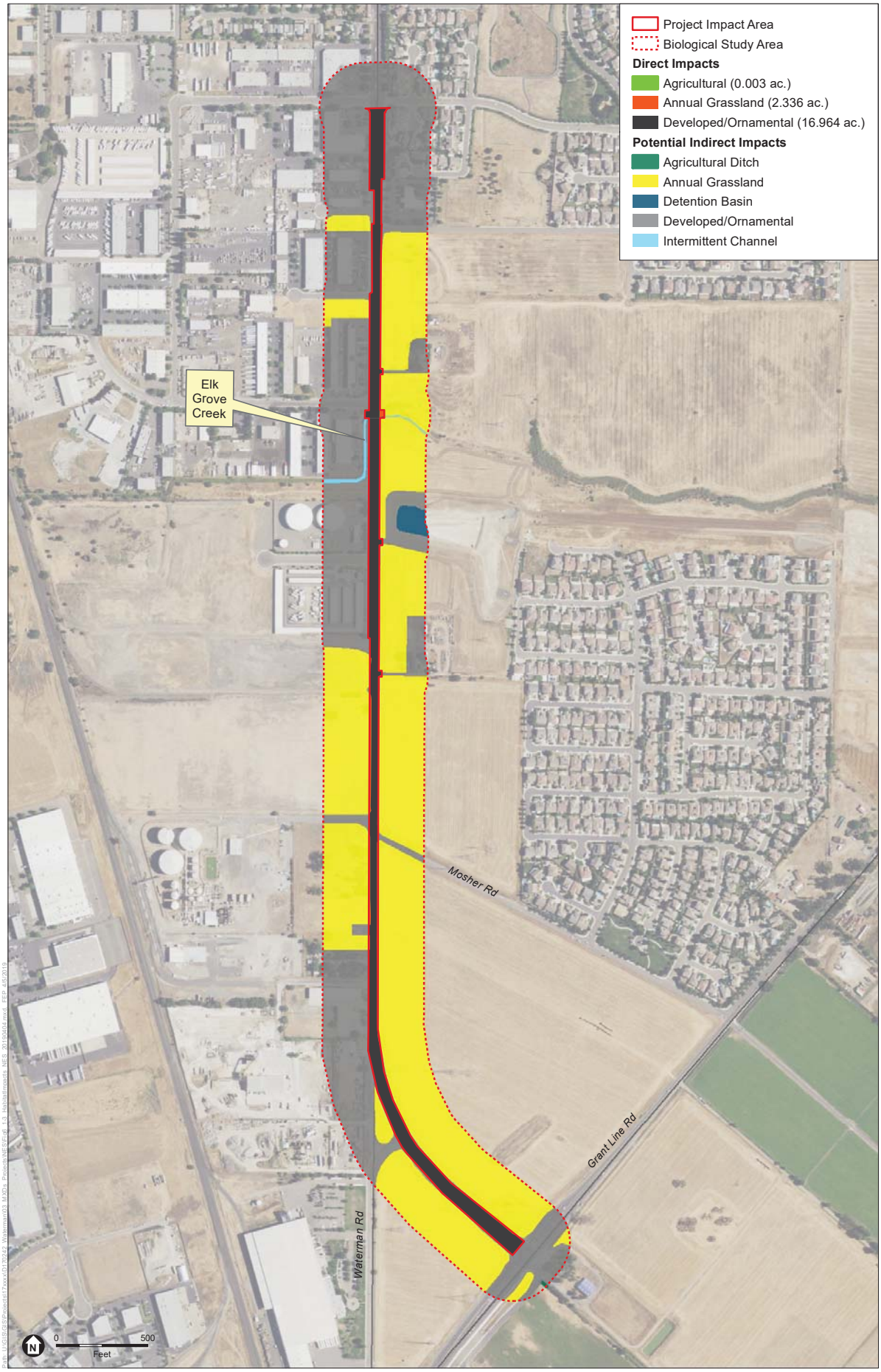


SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 6-2
Direct and Indirect Impacts to Vegetation Communities

ESA



SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 6-3
Direct and Indirect Impacts to Vegetation Communities

ESA

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4.2.1.2. PROJECT IMPACTS

There would be no permanent or temporary direct impacts to waters of the U.S. or riparian habitat within the PIA area. This project would not involve any modification or alteration of Laguna Creek or Elk Grove Creek, as all project construction work would occur outside the jurisdictional boundaries of those features. Proposed project improvements at the crossings of Laguna Creek and Elk Grove Creek are limited to resurfacing of the existing street surface and no work would occur outside the surface of existing bridges.

It is unlikely that the hydrology of the waters of the U.S. within the BSA will be indirectly impacted by the Project. Drainage improvements are limited to adjusting or relocating existing drainage systems components to conform to the proposed improvements. Existing drainage culverts at driveways would be replaced. Significant changes to the drainage system are not anticipated in this Project. Construction related BMPs would be implemented. Any new ditches that will be constructed as part of the Project will mimic the existing hydrology present within the Project area by continuing to isolate waters of the U.S. in the BSA from the roadways by conveying stormwater flows from the roadways into the existing drainage system adjacent to roadways. In this way, waters of the U.S. surrounding the Project area will be unaffected by grading and increases in the amount of impervious surfaces (roadway widening) associated with the Project, because the proposed excavated roadside ditches will function like the existing roadside ditches by continuing to isolate waters of the U.S. in the BSA from stormwater flows from the road.

In addition to the Project design, which is recreating the existing hydrology within the BSA, indirect impacts to waters of the U.S. will be minimized by placing a construction buffer between the edge of the BSA and the outer edge of the excavated ditches (limit of permanent ground disturbance). To accomplish this, all equipment and vehicles will be operated within the outer boundaries of the new ditches. The construction buffer will minimize ground disturbance and the potential for related impacts to water quality and changes to the hydrology of the BSA because no ground disturbance or vehicular travel will occur outside the limits of permanent ground disturbance (i.e., excavated roadside ditches).

4.2.1.3. AVOIDANCE AND MINIMIZATION EFFORTS

The following avoidance and minimization measures shall be implemented prior to and during construction to avoid adverse effects to waters of the U.S. and water quality within and downstream of the BSA.

Avoidance and Minimization Measure (AMM) 1: Conduct Environmental Awareness Training

Before any work occurs in the PIA, including grading and equipment staging, all construction personnel shall participate in an environmental awareness training regarding special-status species and sensitive habitats present in the BSA. If new construction personnel are added to the Project, they must receive the mandatory training before starting work. As part of the training, an environmental awareness handout will be provided to all personnel that describe and illustrates sensitive resources to be avoided during Project construction. This would include avoiding waters of the U.S. outside the PIA.

AMM 2: Install Temporary Barrier Fencing, and/or Flagging to Protect Environmentally Sensitive Habitat Areas

Before any ground-disturbing activity occurs within the PIA, the City shall ensure that temporary orange barrier fencing is installed around the PIA adjacent to sensitive habitat areas to be avoided, as appropriate. Construction personnel and construction activities shall avoid areas outside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality.

The fencing material will consist of temporary plastic mesh-type construction fence (Tensor Polygrid or equivalent) installed between the work area and environmentally sensitive habitat areas (i.e., waters of the U.S., special-status wildlife habitat, active bird nests), as appropriate, and will meet Caltrans standards and specifications. To minimize potential ground disturbance, the base of the fencing will not be buried or keyed-in.

Installation of the barrier fence will occur under the supervision of a qualified biologist. The temporary orange barrier fencing will also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP or Water Pollution Control Plan (WPCP). The fencing shall be shown on the final construction documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer will be established, where no construction activities (i.e., vehicle traffic or equipment operation) will occur outside the outer boundaries of the roadside ditches that will be excavated as part of the Project.

AMM 3: Conduct Periodic Monitoring Visits

A representative from the City will make periodic monitoring visits to construction areas occurring in or adjacent to environmentally sensitive habitat areas. The City will be responsible for ensuring that the contractor maintains the fencing/flagging protecting sensitive biological resources.

Additionally, the City will retain a qualified biologist on-call to assist the City and the construction crew in complying with all Project implementation restrictions and guidelines as needed.

AMM 4: Implement Best Management Practices to Protect Water Quality

The City shall require that the construction contractor implement the following BMPs to protect water quality of waters of the U.S. adjacent to the PIA.

- Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally between April 15 and October 15) when all jurisdictional features (with the exception of Laguna Creek) adjacent to the PIA are anticipated to be dry.
- Install fiber rolls, or other equivalent erosion and sediment control measures between the PIA and waters of the U.S., as necessary, to ensure that construction debris and sediment does not inadvertently enter these features. All areas of exposed soil will be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition, in order to minimize ground disturbance, fiber rolls or other equivalent control measures will not be keyed-in or buried.
- Immediately after Project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix and planting native plants.
- Fiber rolls, or other equivalent erosion and sediment control measures will not be removed from the PIA until vegetation has reestablished within all temporarily-impacted areas to at least 70 percent of pre-Project vegetation cover conditions or better.
- No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of waters of the U.S.
- All machinery used during construction of the Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water.
- Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations.
- Before any ground-disturbing activities, the City shall prepare and implement a SWPPP (as required under the SWRCB's General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]) or a WPCP, as applicable, that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after Project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP will be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat.

The SWPPP shall be prepared with the following objectives: (a) to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the Project; (b) to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction; (c) to outline and provide guidance for BMP monitoring; (d) to identify Project discharge points and receiving waters; (e) to address post-construction BMP implementation and monitoring; and (f) to address sedimentation, siltation, and turbidity.

AMM 5: No Off-road Vehicle or Equipment Activity Outside of Construction Footprint

To reduce the likelihood of soil and vegetation disturbance outside of the PIA, which could impact water quality and hydrology for adjacent waters of the U.S. and special-status-species habitats, no vehicle traffic or heavy equipment activity will occur outside of the PIA/construction buffer, defined as the maximum area of permanent ground disturbance (i.e., area of roadway construction and the new ditches areas of excavation).

4.2.1.4. COMPENSATORY MITIGATION

After the project is approved, the City will apply for any necessary permits from the USACE, CDFW, and the RWQCB. Impacts will be mitigated in accordance with agency requirements outlined in the permits to ensure no net loss of acreage or value to waters of the U.S. With the implementation of avoidance and minimization measures, no compensatory mitigation is anticipated.

4.3. Protected Trees

Many trees provide habitat and food to numerous bird and wildlife species. The City will preserve existing trees when reasonably possible, and has acknowledged the importance of preserving mature trees through adoption of their tree preservation and protection ordinance. Chapter 19.12 (Tree Preservation and Protection) of the City of Elk Grove Municipal Code provides for the preservation of existing trees through both the development review process and subsequent activities such as work within the canopy or within the critical root zone of trees and also provides a process for replacement in instances where preservation is not reasonably possible. The City's tree ordinance protects trees that fall within one or more of four categories: landmark trees (19.12.030), trees of local importance (19.12.040), secured trees (19.12.050), and trees in the right-of-way or on City property (19.12.060). Work on or removal of any of these four types of trees requires prior approval in the form of a Tree Permit from the City.

4.3.1. Survey Results

During surveys conducted on May 3 and 8, 2018, and January 16, 2019, ESA biologists identified numerous trees within the City right-of-way within the BSA and PIA that could qualify for protection by the City's tree protection ordinance. A tree inventory was not conducted. Valley oak (*Quercus lobata*) and interior live oak (*Quercus wislizeni*) were observed within the BSA. These two species are trees of local importance, and are protected by the City under the EGMCTPP 19.12.040.

4.3.2. Project Impacts

The Project would result in permanent, direct impacts to protected trees by removing trees considered protected by the City. These include landmark trees, trees of local importance, secured trees, and any trees in the right-of-way or on City property. Because a tree inventory has not yet been conducted for this project, it is unknown at this time how many trees may be impacted.

4.3.3. Avoidance and Minimization Efforts

AMM 6: Conduct Pre-Construction Tree Survey

Prior to construction, an International Society of Arboriculture Certified Arborist will conduct a tree survey to document all trees within the PIA. The survey will also determine which trees in the PIA will need to be removed, which trees can be protected in place, and which trees could be trimmed rather than removed.

4.3.4. Compensatory Mitigation

4.3.4.1. COMPENSATORY MITIGATION

Implementation of avoidance and minimization efforts described under Section 4.3.3 would minimize the potential negative effects to protected trees. The following compensatory mitigation would compensate for effects to protected trees.

Compensation Measure 1: Mitigate for Impacts to Protected Trees

Mitigation for the removal of protected trees would be required. The City would be responsible for implementing the mitigation and would abide by the measures outlined in Article IV (Mitigation for Tree Loss) of Chapter 19.12 (Tree Preservation and Protection) of the City of Elk Grove Municipal Code. Mitigation would include one of the following options: 1) On-site or off-site replacement; 2) Payment of an in-lieu fee; or 3) credit for existing trees.

4.4. Special-status Plant Species

After completion of the field surveys and review of existing information on special-status plant species in the Project vicinity, it was determined that seven special-status plant species have the

potential to occur within the BSA, including dwarf downingia (*Downingia pusilla*), Bogg's Lake hedge hyssop (*Gratiola heterosepala*), Northern California black walnut (*Juglans hindsii*), Ahart's dwarf rush (*Juncus leiospermus* var. *ahartii*), legenere (*Legenere limosa*), Heckard's pepper-grass (*Lepidium latipes* var. *heckardii*), and saline clover (*Trifolium hydrophilum*). Potential suitable habitats for these species were documented within the BSA, but not within the PIA. Therefore, no impacts are expected to occur to special-status plant species through implementation of the Project. These species will not be discussed further.

4.5. Special-status Wildlife Species

After completion of the field surveys and review of existing information on special-status wildlife in the Project vicinity, it was determined that nine special-status wildlife species have the potential to occur within the BSA. Western pond turtle (*Emys marmorata*) has potential habitat within the BSA, but not within the PIA, so it will not be discussed further. Tricolored blackbird (*Aegelaius tricolor*) has potential foraging habitat but not nesting habitat within the BSA and PIA; impacts to foraging habitat for this species are not discussed further. Seven species, including vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), western spadefoot (*Spea hammondii*), giant garter snake (*Thamnophis gigas*), burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), and white-tailed kite (*Elanus leucurus*) have the potential to occur within the BSA and be impacted by the project. Each of these species is discussed below.

4.5.1. Vernal Pool Fairy Shrimp and Vernal Pool Tadpole Shrimp

4.5.1.1. VERNAL POOL FAIRY SHRIMP

The vernal pool fairy shrimp is designated as a federally threatened species. Vernal pool fairy shrimp has only been a recognized species since 1990 and there is little information on the historical range of the species. However, this species is currently known to occur in a wide range of vernal pool and seasonal wetland habitats in the southern and Central Valley areas of California (USFWS 2005). In California, vernal pool fairy shrimp is found from the vicinity of Red Bluff in Shasta County southward through much of the Central Valley. The southernmost known populations of vernal pool fairy shrimp occur in the Santa Rosa Plateau in Riverside County (Eriksen and Belk 1999). Vernal pool fairy shrimp occupy a variety of different vernal pool habitats, from small, clear, sandstone rock pools to large, turbid, alkaline, grassland valley floor pools. Although the species has been collected from large vernal pools, including one exceeding 25 acres, it tends to occur in smaller pools. It is most frequently found in pools measuring less than 0.05 acre. These are most commonly found in grass or mud bottomed swales, or basalt flow depression pools in unplowed grasslands (USFWS 2005).

Reliant on cold water temperatures with high dissolved oxygen content, this species of fairy shrimp typically emerges after wetlands fill with water from December through February, and typically die-off after water temperatures rise above 75° Fahrenheit. Taking as little as two weeks to complete their life cycle, vernal pool fairy shrimp usually inhabit wetlands with relatively short hydroperiods, laying their resting eggs before their pools dry. Vernal pool fairy shrimp eggs either are dropped to the pool bottom or remain with the mother until the mother dies and sinks. When the pool dries out, so do the eggs. The resting eggs of vernal pool fairy shrimp are able to resist the desiccation and heat of the dry-season until they hatch the following winter. They remain in the dry pool bed until rains and other environmental stimuli hatch the eggs (USFWS 2005). Resting fairy shrimp eggs are commonly referred to as cysts. They are capable of withstanding heat, cold and prolonged desiccation. When the pools refill, some, but not all, of the cysts may hatch. The cyst bank in the soil may contain cysts from several years of breeding.

4.5.1.2. VERNAL POOL TADPOLE SHRIMP

The vernal pool tadpole shrimp is designated as a federally endangered species. Similar to vernal pool fairy shrimp, vernal pool tadpole shrimp inhabit seasonal aquatic habitats such as vernal pools, seasonal wetlands, and playa pools across the Central Valley of California, from Shasta County to northwestern Tulare County. Isolated occurrences have also been reported in Alameda and Contra Costa Counties. Vernal pool tadpole shrimp distribution is highly fragmented (USFWS 2005).

Tolerant of higher water temperatures and lower dissolved oxygen levels, the vernal pool tadpole shrimp typically hatch from January through March, and can persist in temporary aquatic habitats into the late spring. The vernal pool tadpole shrimp inhabits vernal pools containing clear to highly turbid water, ranging in size from 54 square feet in the former Mather Air Force Base area of Sacramento County, to the 89-acre Olcott Lake (vernal playa) at Jepson Prairie.

Taking approximately one month to complete their life cycle, vernal pool tadpole shrimp also lay resting eggs before their pools dry. Vernal pool tadpole shrimp eggs either are dropped to the pool bottom or remain with the mother until the mother dies and sinks. When the pool dries out, so do the eggs. They remain in the dry pool bed until rains and other environmental stimuli result in hatching. Resting eggs are commonly referred to as cysts. They are capable of withstanding heat, cold and prolonged desiccation. When the pools refill, some, but not all, of the cysts may hatch. The cyst bank in the soil may contain cysts from several years of breeding.

4.5.1.3. SURVEY RESULTS

The BSA is not located within Critical Habitat for vernal pool fairy shrimp or vernal pool tadpole shrimp. There are 65 documented CNDDB occurrences of the vernal pool fairy shrimp within

10 miles of the BSA, including two occurrences that overlap the BSA (CDFW 2019) (Figure 5). There are 74 documented CNDDB occurrences of the vernal pool fairy tadpole within 10 miles of the BSA, including one occurrence that overlaps the BSA (CDFW 2019) (Figure 5). Suitable habitat for both these species occurs along the eastern side of the Waterman Road North site (Segments 1 and 2). Potential vernal pool large branchiopod habitat within the BSA includes vernal pools, vernal swales and seasonal wetlands. In lieu of conducting USFWS protocol presence/ absence surveys, the presence of vernal pool fairy shrimp and vernal pool tadpole shrimp is being assumed within suitable habitats in the BSA.

4.5.1.4. PROJECT IMPACTS

Based on preliminary Project design, the Project would not result in direct impacts to vernal pool fairy large branchiopod habitat. Vernal pool large branchiopod impacts are considered "direct impacts" if the project would result in the direct placement of fill into any portion of suitable habitat. There would be no fill of any vernal pool large branchiopod habitat as a result of Project construction.

The Project would also not result in indirect impacts to suitable vernal pool large branchiopod habitat as discussed below. In general, indirect effects can include fragmentation of habitat, altered hydrology, introduction of invasive weeds through soil disturbance, and increased disturbance from noise and artificial light.

Indirect effects for vernal pool large branchiopods were assessed on an individual aquatic feature basis using a micro-watershed analysis approach for all potential vernal pool large branchiopod habitats within 250 feet of the Project area. For each aquatic feature, topography data (two-foot contours) was examined between the edge of the PIA and the edge of the feature. Using this approach, it was determined that in addition to being hydrologically-isolated from Project construction due to the existing/proposed roadside ditches, aquatic features with the following characteristics were considered to not have the potential to be indirectly affected by the Project:

- Features located at a higher elevation than the PIA;
- Features located more than 250 feet from the PIA;
- Features located at the same elevation as the PIA but separated by slope breaks (i.e., changes in elevation greater than 1 foot, including small rises or depressions that would result in isolating a feature from surface water flows); and
- Features located downhill from the PIA but separated by swales or drainages that would intercept surface water flows from the Project area before they could reach the feature.
- Features located east of Segment 2 where surface treatment only is proposed and existing ditches would remain in place.

Conversely, it was determined that if the roadside ditches were not present, features with the following characteristics would have potential to be affected by the Project:

- Features at the same elevation as the PIA with no slope breaks (rises or depressions [excluding vernal pools and seasonal wetlands] greater than 1 foot); or
- Features located at a lower elevation from the PIA with no swales or drainages (including existing and proposed roadside ditches) that would act as a barrier to surface flows by intercepting surface water flows from the PIA.

Figures 7-1 through 7-3 show the indirect impacts analysis for special-status large branchiopod habitats within the BSA and show the methods used for the micro-watershed analysis. Appendix B includes a table summary for each of these aquatic features with a description of their potential to be affected by the Project. A summary of the indirect impact analysis by Segment is included below.

Indirect Effects Segment 1

Suitable vernal pool large branchiopod habitat is located east of Segment 1 (VP 1 through VP 5, VS 1 through VS 6, and SW 1 through SW 10, shown on Figure 7-1 and 7-2). Suitable habitat east of Segment 1 is currently hydrologically isolated from Project roadways (Waterman Road) due to existing roadside ditches, which collect and convey stormwater flows from the roadways and do not drain to suitable habitat to the east. Site topography also contributes to this hydrologic isolation as several of the features are separated from the roadways by rises in topography.

The Project along Segment 1 includes rehabilitation of the existing paved roadway surface and widening of the existing paved roadway to accommodate Class II bicycle lanes within the existing right-of-way. The existing roadside ditches along Segment 1 would be reshaped to better accommodate roadway runoff. Figure 7-4 provides typical cross sections for roadway improvements located west of suitable habitat at similar elevations and downslope of the existing roadway. While some features are downslope of the roadway, the area is generally flat with slopes of approximately 3 percent or less. As shown in the cross sections, new ditches would be constructed to better contain flows and would match up with the existing grade such that hydrology would remain similar to existing conditions.

As an additional effort to further prevent any impacts from occurring to suitable habitat, AMM 7 and 8 will be implemented. Ground disturbing activities will be limited to the dry season unless USFWS authorizes work beyond the dry season. An erosion control barrier will be placed on the outer edge of the new roadside ditch alignment. The barrier will not be keyed into the ground (no trench will be excavated for the barrier), and construction of the ditches will be performed from the road to avoid ground disturbance beyond the new roadside ditch.

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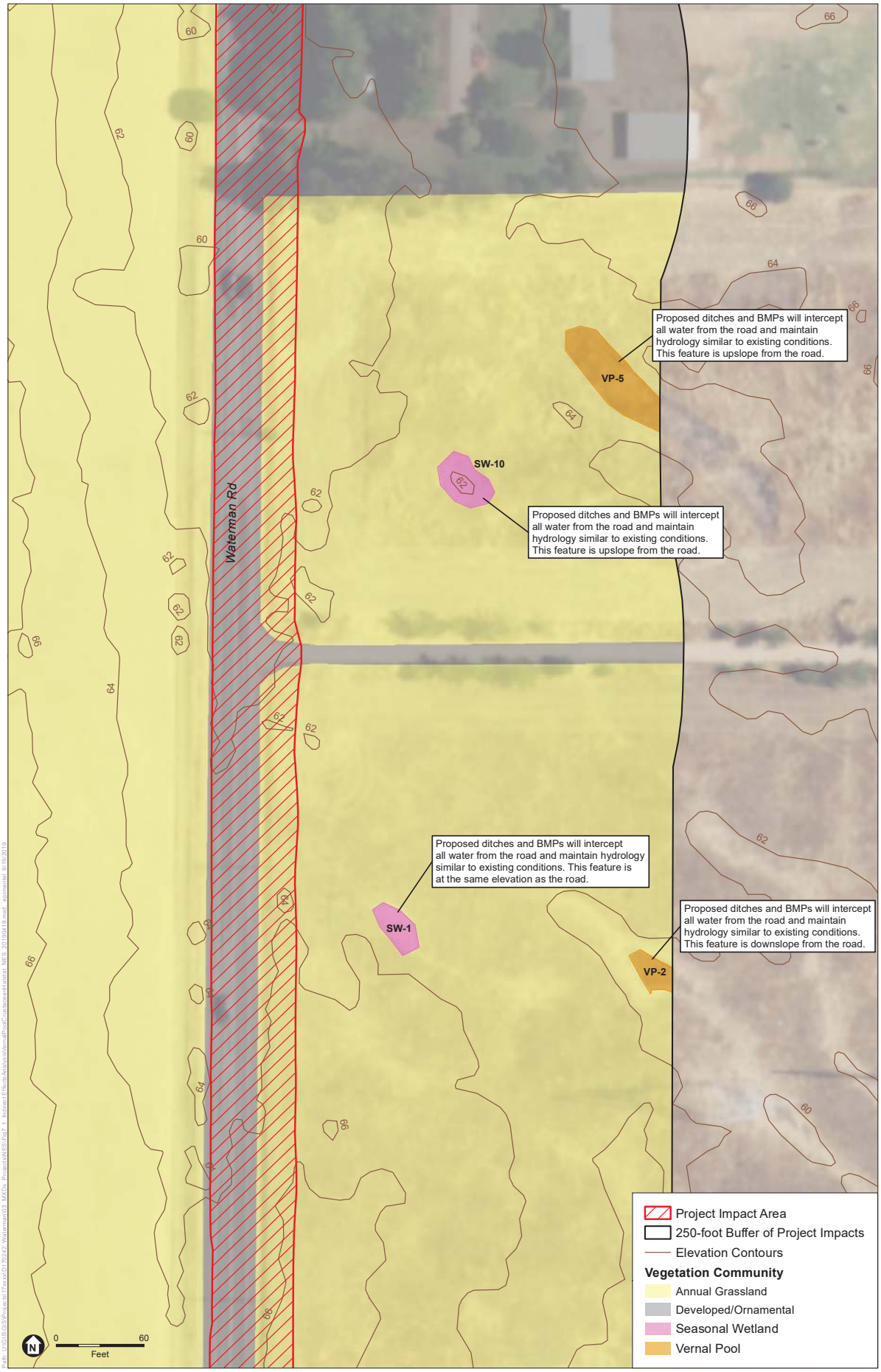
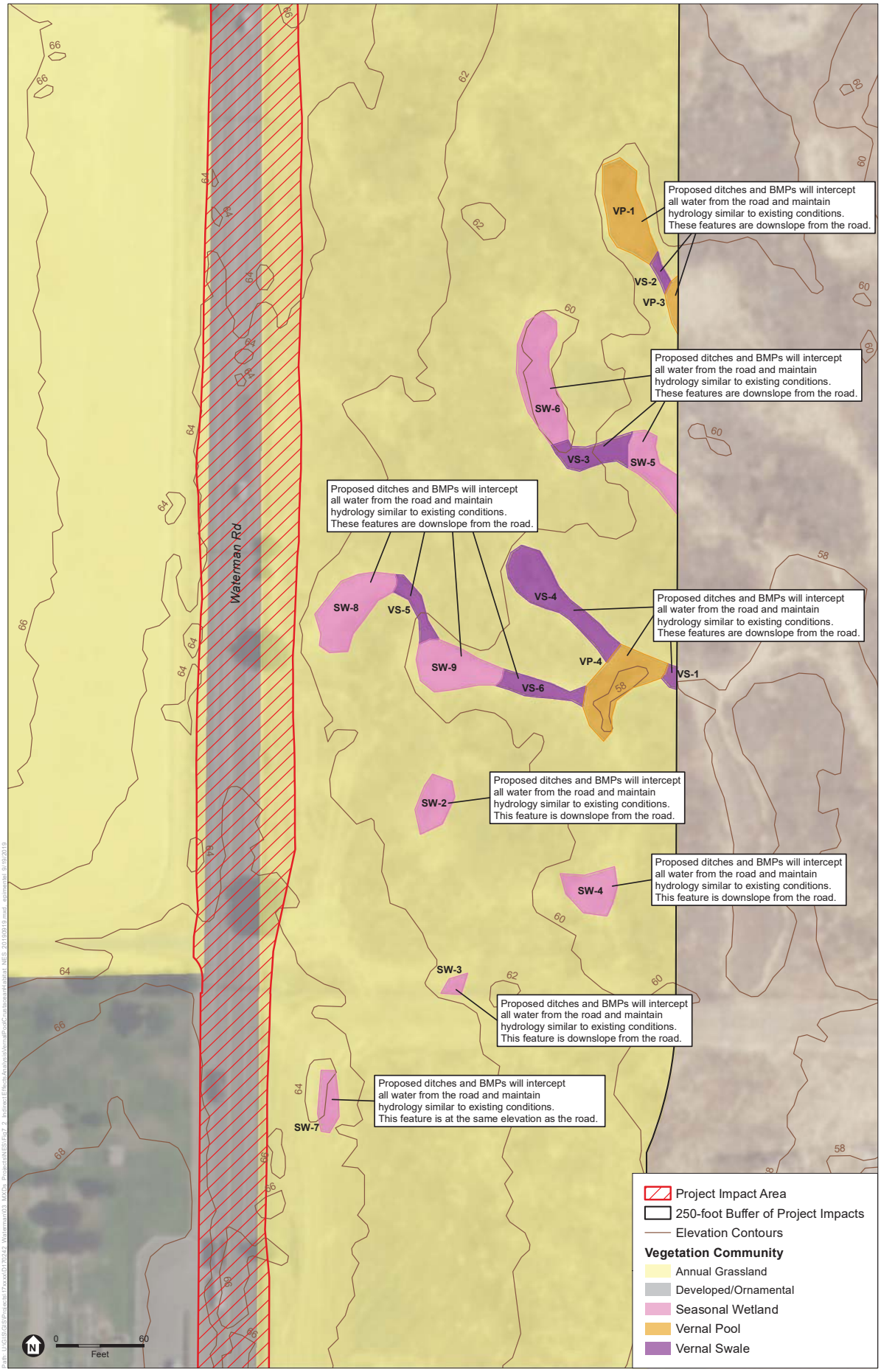


SOURCE: USDA, 2016; Sacramento County, 2015; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 7-1
Indirect Effects Analysis for Vernal Pool Crustacean Habitat

ESA

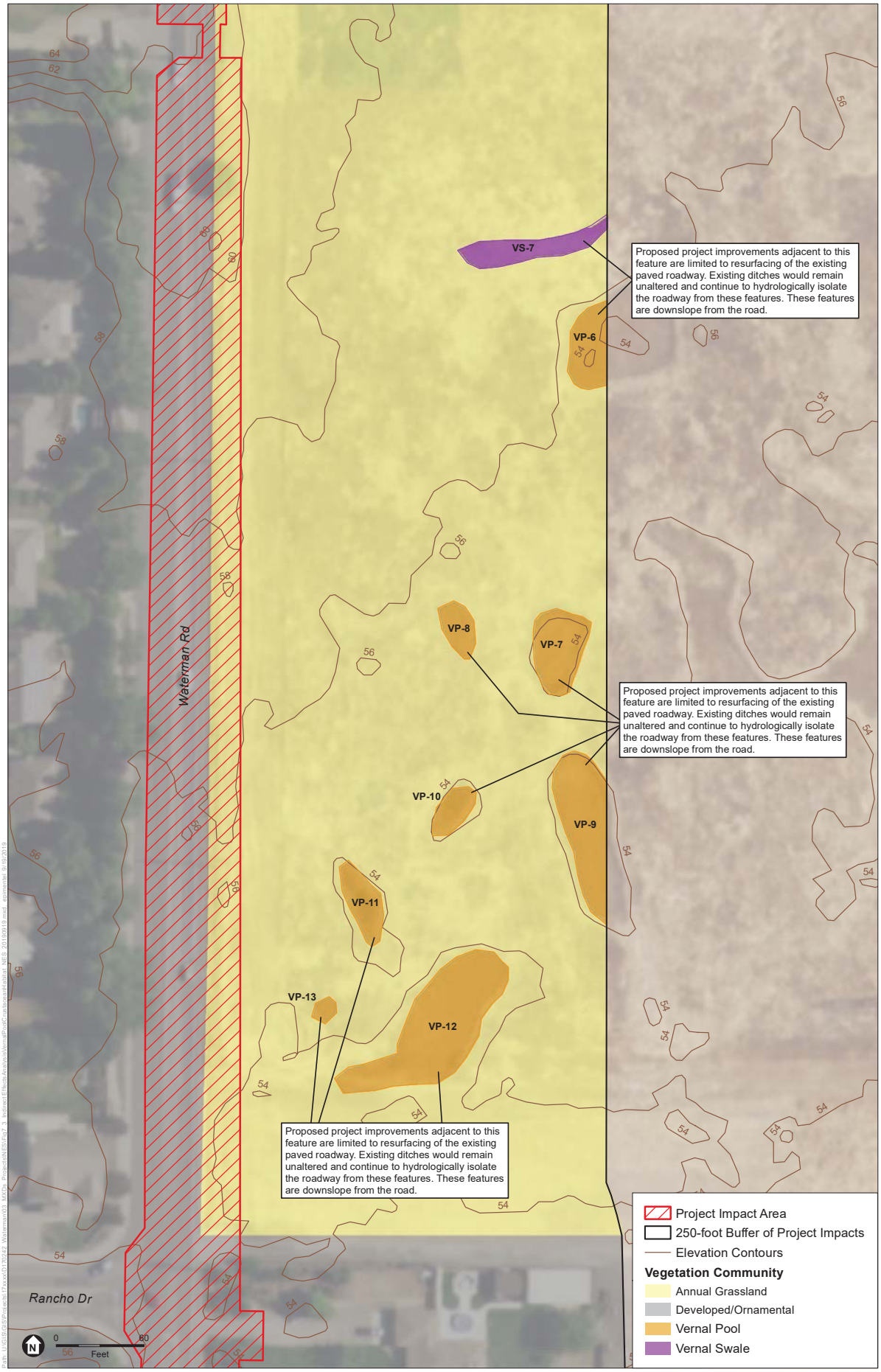


SOURCE: USDA, 2016; Sacramento County, 2015; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 7-2
Indirect Effects Analysis for Vernal Pool Crustacean Habitat

ESA



SOURCE: USDA, 2016; Sacramento County, 2015; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 7-3
Indirect Effects Analysis for Vernal Pool Crustacean Habitat

ESA

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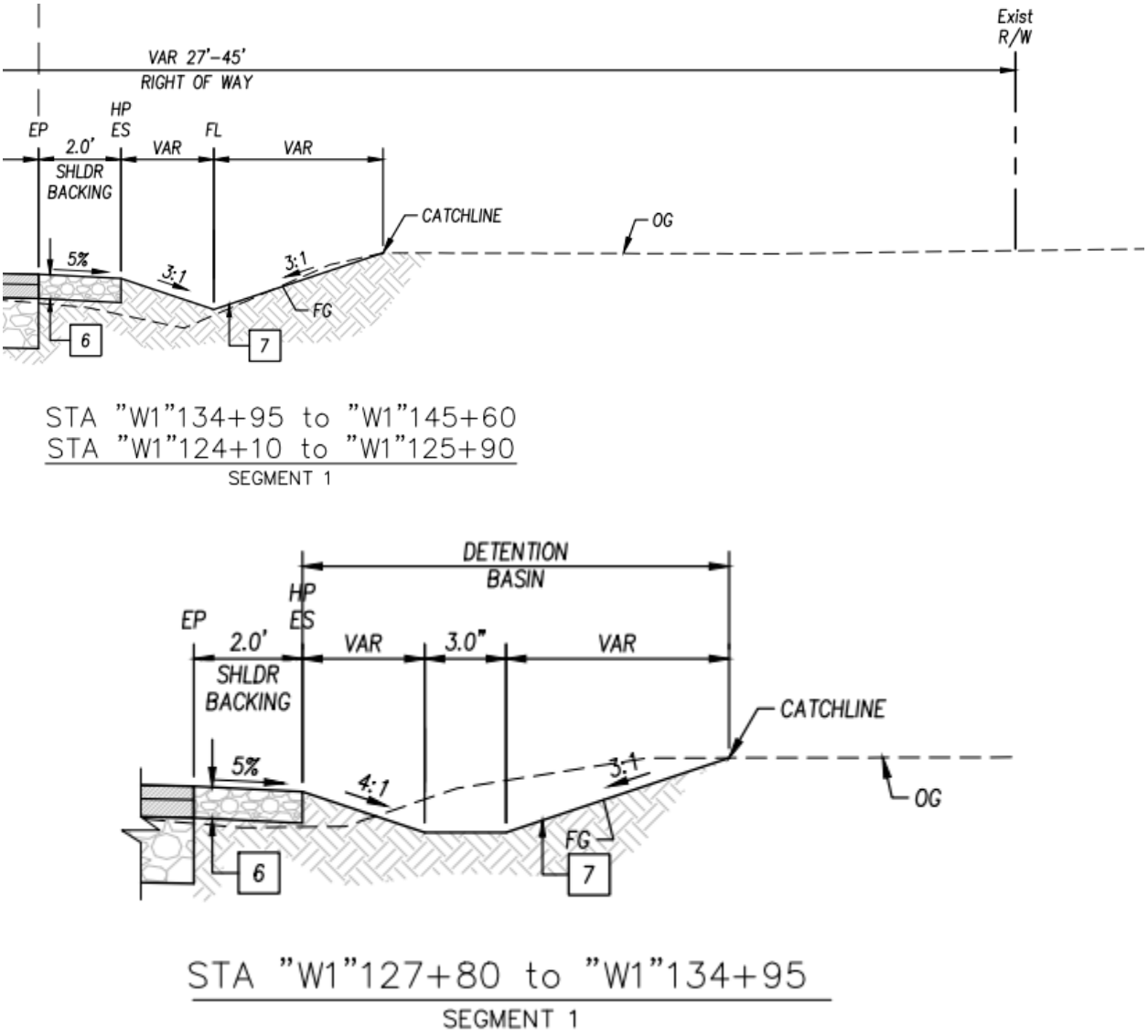

SOURCE: Bennett Engineering Services, 2019.

NOTES: Dashed line/ OG – Original Ground
Solid Line / FG – Finished Grade

Elk Grove Arterial Roads Rehabilitation Project

Figure 7-4.
Typical Project Roadway Cross Sections

The proposed ditches have been designed such that hydrology east of the roadway would remain similar to existing conditions. Reductions in water quality from erosion and siltation during construction would be avoided through the implementation of avoidance and minimization measures (Section 4.5.1.5). Therefore, the Project will have ***no effect*** on vernal pool fairy shrimp and vernal pool tadpole shrimp.

Indirect Effects Segment 2

Suitable vernal pool large branchiopod habitat is located east of Segment 2 (VP 6 through VP 13 and VS 7, shown on Figure 7-3). There are existing roadside ditches along the eastern roadside which collect and convey stormwater flows. These ditches also hydrologically isolate the existing roadway from the habitat to the east. The Project along Segment 2 includes rehabilitation of the existing paved roadway surface. The existing roadside ditches will not be altered and will continue to collect roadway runoff such that the hydrology east of the roadway would remain the same and thus there would be ***no effect*** on vernal pool fairy shrimp and vernal pool tadpole shrimp along Segment 2.

4.5.1.5. AVOIDANCE AND MINIMIZATION EFFORTS

In addition to the avoidance and minimization measures described in Section 4.2.1.3, the following measures shall be implemented prior to construction to avoid and minimize adverse effects on vernal pool large branchiopods.

AMM 7: Restrict Ground-disturbing Activities to the Dry Season (Between April 15 and October 15)

All ground-disturbing activities associated with construction of the Project will be restricted to the dry season (between approximately April 15 and October 15) to avoid the period when special-status species (vernal pool fairy shrimp, vernal pool tadpole shrimp, and western spadefoot) could be breeding. If construction would need to continue past October 15, the City will request an authorization from USFWS to extend the work period.

AMM 8: Implement Erosion Control

An erosion control barrier will be placed on the outer edge of the new roadside ditch alignment along Waterman Road from approximately 700 feet south of Bond Road to Rancho Drive. The barrier will not be keyed into the ground (no trench will be excavated for the barrier), and construction of the ditches will be performed from the road to avoid ground disturbance beyond the new roadside ditch.

4.5.1.6. COMPENSATORY MITIGATION

Implementation of avoidance and minimization efforts described under Sections 4.2.1.3 and 4.5.1.5 would minimize the potential negative effects to vernal pool large branchiopods and potential habitat for the species in the BSA. Therefore, no compensatory mitigation is required.

4.5.2. Western Spadefoot

The western spadefoot is a CDFW Species of Special Concern. The western spadefoot occurs throughout the Central Valley and adjacent foothills (including the Sierra foothills). It also occurs

in the Southern Coast Range from Santa Barbara County to the Mexican border. This species primarily inhabits lowlands, including such features as washes, floodplains of rivers, alluvial fans, playas, and alkali flats. The toad is almost completely terrestrial, entering water only to breed. Preferring areas of short grasses, where soil is sandy or gravelly, it can be found in valley and foothill grasslands, open chaparral, and pine-oak woodlands. Though some surface activity may occur in any month between October and April, it typically becomes surface-active following relatively warm rains in late winter-spring and fall. The western spadefoot breeds in temporary pools, such as vernal pools, or pools in ephemeral waterways. In order for young to successfully metamorphose, breeding pools must lack exotic predators, such as fish, bullfrogs, and crayfishes. Breeding occurs between January and May (Stebbins 2003). Following the breeding season, adults dig underground burrows within friable soils approximately one to three feet deep, and only emerge to breed the following winter. Little is known about the dispersal distance of adult western spadefoot, although they have been observed traveling hundreds of meters away from breeding pools to find suitable areas to burrow.

4.5.2.1. SURVEY RESULTS

Suitable breeding habitat for western spadefoot occurs in vernal pools and seasonal wetlands in and adjacent to the BSA and the annual grassland habitat provides upland habitat. Several records for this species occur approximately 8 to 10 miles northeast of the BSA in the vicinity of Mather Regional Park where this species was observed in 1997 and 2007. An additional occurrence was recorded 10 miles east of the BSA where this species was observed in a stock pond on a private ranch in 2004. These populations of western spadefoot are presumed extant. Western spadefoot were not observed during the May 2018 and January 2019 surveys. Because suitable habitat for the species is present, it is assumed western spadefoot is present in the BSA and PIA.

4.5.2.2. PROJECT IMPACTS

Habitat for western spadefoot (vernal pools, seasonal wetlands, and annual grasslands) is present within the BSA, and annual grassland would be permanently affected by grading related to the road widening, extension of road shoulders, and excavation of roadside ditches. As shown in Table 4-1, the proposed Project will result in permanent impacts to potential hibernacula (i.e., upland) habitat for western spadefoot. Approximately 2.34 acres of annual grassland habitat will be permanently impacted through implementation of the Project. No breeding habitat (seasonal wetland, vernal pools) will be directly impacted by the Project. The proposed Project has the potential to directly impact western spadefoot by causing physical harm to individuals if they are present in the PIA during construction. Western spadefoot individuals could be harmed during construction fill and grading, which could crush burrowing individuals. Reductions in habitat quality could result from hydrological alterations related to grading or through construction of impervious surfaces, which could prevent adults from utilizing the affected habitats for breeding.

Reduction in water quality could also occur from the creation of exposed areas of bare soil, although this would be avoided through the implementation of avoidance and minimization measures (Section 4.2.1.3). Implementation of AMM 1 through 8 (Sections 4.2.1.3 and 4.5.1.5) and 9 (Section 4.5.2.3, see below) would minimize the potential disturbance to western spadefoot and associated habitat. With the application of the avoidance and minimization efforts, the permanent loss of 2.34 acres of upland habitat impacts due Project construction is not expected to adversely affect spadefoot potentially aestivating and/or dispersing through the BSA.

4.5.2.3. AVOIDANCE AND MINIMIZATION EFFORTS

In addition to the avoidance and minimization measures described in 4.2.1.3 and 4.5.1.5, the following measures shall be implemented prior to construction to avoid and minimize take of western spadefoot.

AMM 9: Conduct a Preconstruction Survey for Western Spadefoot

No more than 48 hours prior to construction, preconstruction surveys for western spadefoot shall be conducted within the PIA. If western spadefoot are observed within the PIA, work shall stop until the animal voluntarily leaves the area.

4.5.2.4. COMPENSATORY MITIGATION

Implementation of avoidance and minimization efforts described under Section 4.5.2.3 would reduce the potential to affect western spadefoot individuals and potential habitat for the species in the BSA. Therefore, no compensatory mitigation is required.

4.5.3. Giant Garter Snake

Giant garter snake is a federally- and state-listed threatened species and as such is protected by the FESA and the CESA respectively. Giant garter snake inhabits agricultural wetlands and other waterways such as irrigation and drainage canals, sloughs, ponds, small lakes, low gradient streams, and adjacent uplands in the Central Valley. Through the past direct loss of natural habitat, the giant garter snake relies heavily on rice fields in the Sacramento Valley, but also uses managed marsh areas in Federal National Wildlife Refuges and State Wildlife Areas. Habitat requirements consist of (1) adequate water during the snake's active season (early-spring through mid-fall) to provide food and cover; (2) emergent, herbaceous wetland vegetation, such as cattails (*Typha* spp.) and bulrushes (*Scirpus* spp.), for escape cover and foraging habitat during the active season; (3) grassy banks and openings in waterside vegetation for basking; and (4) higher elevation uplands for cover and refuge from flood waters during the snake's dormant season in the winter. Giant garter snake are typically absent from larger rivers because of lack of suitable habitat and emergent vegetative cover, and from wetlands with sand, gravel, or rock substrates. Riparian woodlands typically do not provide suitable habitat because of excessive shade, lack of basking

sites, and absence of prey populations. Giant garter snake feed primarily on small fishes, tadpoles, and frogs. The giant garter snake inhabits small mammal burrows and other soil crevices above prevailing flood elevations throughout its winter dormancy period. Giant garter snake typically select burrows with sunny exposure along south and west facing slopes.

Giant garter snake is endemic to the Sacramento and San Joaquin valleys where it is found in lowland areas (USFWS 2017). Historically, this species was found throughout the Central Valley from Butte County in the north to Kern County in the south. Currently, giant garter snake is only known to occur in 13 discrete populations in the Sacramento and San Joaquin valleys in Butte, Colusa, Fresno, Glenn, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter, and Yolo counties (USFWS 2017).

The primary factors in the decline of giant garter snake include loss and fragmentation of habitat due to human disturbances such as flood control activities, water pollution, and changes in agricultural and land management practices, as well as natural threats such as predation from introduced species and parasites.

4.5.3.1. SURVEY RESULTS

The BSA is located within the current range of giant garter snake as identified in the Recovery Plan for Giant Garter Snake (USFWS 2017). The BSA is also located within the Cosumnes-Mokelumne Basin Recovery Unit for giant garter snake as identified in the Recovery Plan. There are 15 CNDDB records for giant garter snake within 10 miles of the BSA, including one that overlaps the BSA. This occurrence was recorded in 2002 and is described as being along the east side of Waterman Road at the confluence of a wetland swale and roadside ditch. However, this area was examined during the biological surveys conducted in May 2018 and the described habitat was not observed in the area. The occurrence polygon is more than 1,250 feet from the nearest aquatic feature (Elk Grove Creek, an intermittent channel that is not suitable habitat for giant garter snake). It is assumed this occurrence was a migrating individual and does not represent a persistent population. There are two recorded occurrences from Laguna Creek, approximately 2.9 and 3.9 miles west and downstream of the BSA. Both of these occurrences were originally recorded in 1976. An additional occurrence was recorded from Laguna Creek in 2005 in the Bufferlands area approximately 6.5 miles west and downstream of the BSA.

Potential aquatic habitat for this species within the BSA includes Laguna Creek, Elk Grove Creek, and agricultural ditches. The agricultural ditches are not considered suitable aquatic habitat because the presence of water is highly variable, depending on agricultural demands, and they completely lack emergent vegetation. Elk Grove Creek is not considered suitable aquatic habitat because it lacks water in the summer months, is concrete lined, and does not have emergent

vegetation. Based on these conditions, Laguna Creek is the only aquatic feature in the BSA that may support giant garter snake.

Laguna Creek may be used as foraging, breeding, and aquatic dispersal habitat for the species. Land uses surrounding the segment of Laguna Creek that flows through the BSA are primarily comprised of open space (consisting of annual grassland and riparian woodland) and developed areas (roads). Access to additional suitable foraging habitat such as adjacent wetlands or marshes is very limited in this reach of Laguna Creek; the majority of suitable habitat for the species is located several miles downstream of the BSA. The portion of grasslands along Laguna Creek within the BSA are densely vegetated with herbaceous grasses and lack small mammal burrows. Therefore, giant garter snake is not likely to forage within the BSA. Table 4-3 summarizes the potential habitat for this species within the BSA.

Table 4-3. Potential Giant Garter Snake Habitat within the BSA

Habitat Type	Acres within BSA
Aquatic (Laguna Creek)	0.458

4.5.3.2. PROJECT IMPACTS

No giant garter snakes were observed in the BSA during surveys. No impacts will occur to suitable aquatic habitat (Laguna Creek) for giant garter snake from implementation of the project. The grasslands within 200 feet of Laguna Creek in the BSA do not provide upland habitat given the lack of small mammal burrows. The portion of the proposed Project footprint within 200 feet of Laguna Creek includes a road shoulder and densely vegetated grasslands that lacks small mammal burrows, and does not provide suitable upland habitat for this species. Therefore, no impacts to giant garter snake or their habitat would occur, and the project will have ***no effect*** on this species.

4.5.4. Burrowing Owl

Burrowing owls, a CDFW Species of Special Concern, are often found in open, dry grasslands, agricultural lands, range lands, and desert habitats. They can also inhabit grass, forb, and shrub stages of pinyon and ponderosa pine habitats. Burrowing owls occur at elevations ranging from 200 feet below sea level to over 9,000 feet. In addition to natural habitats, burrowing owls can be found in urban habitats such as at the margins of airports and golf courses and in vacant urban lots.

Burrowing owls nest in ground burrows, often occupying old ground squirrel burrows or badger dens. They are also known to use artificial burrows such as abandoned pipes or culverts. The nesting season for burrowing owls can begin as early as February 1 and continues through August 31. The owl commonly perches on fence posts or on top of mounds outside its burrow. Burrowing

owls forage in adjacent grasslands and other suitable habitats primarily for insects and small mammals, and less often for reptiles, amphibians, and other small birds.

4.5.4.1. SURVEY RESULTS

There are 30 reported occurrences of burrowing owl in CNDDB within 10 miles of the BSA. The closest occurrence is approximately 1.6 miles northwest of the BSA where this species has been reported near the Laguna Boulevard and Highway 99 onramp in grassland habitat as recently as 2007.

Suitable annual grassland habitat is present within the PIA and surrounding BSA, however no burrowing owls or active nests were observed in the BSA during the biological surveys. Some soils within the BSA are sandy and friable and numerous burrows and burrow complexes were noted during the May 2018 and January 2019 surveys. While no soil mounds were visible during the field survey, surrounding fence posts would provide suitable perches above potential nests within the annual grassland habitat. The annual grassland habitat also provides suitable foraging habitat for this species.

4.5.4.2. PROJECT IMPACTS

The proposed Project could potentially impact individual burrowing owls if they occupied the BSA prior to construction. Indirect impacts to nesting birds during construction could extend up to 500 feet from the limits of construction. Potential impacts could include abandonment of nest sites and the mortality of young. The proposed Project could also result in a permanent loss of foraging opportunities for burrowing owl in and adjacent to the PIA during construction. The loss of nesting and/or foraging habitat in and adjacent to the PIA is not expected to significantly impact burrowing owl because these habitats are abundant in the vicinity.

With the implementation of the proposed avoidance and minimization efforts, the Project is not expected to impact burrowing owl nesting. Burrowing owl foraging habitat is abundant in the vicinity of the BSA, and adverse impacts are not anticipated for this species.

4.5.4.3. AVOIDANCE AND MINIMIZATION MEASURES

Implementation of AMM 1 and 3 described in Section 4.2.1.3 and AMM 10, described below, shall be implemented prior to and during construction to avoid take of burrowing owl.

AMM 10: Measures to Protect Burrowing Owl

Prior to construction, pre-construction surveys shall be conducted by a qualified biologist to determine presence/absence of burrowing owls and/or occupied burrows in and within 500 feet of the PIA according to the CDFW's Staff Report on Burrowing Owls (CDFW 2012). A winter survey will be conducted between December 1 and January 31 and a nesting survey will be

conducted between April 15 and July 15. Preconstruction surveys will also be conducted within 30 days prior to construction to ensure that no additional burrowing owls have established territories since the initial surveys. If no burrowing owls are found during any of the surveys, no further mitigation will be necessary. If burrowing owls are found, then the following measures shall be implemented prior to the commencement of construction:

- During the non-breeding season (September 1 through January 31) burrowing owls occupying the BSA should be evicted from the BSA by passive relocation as described in the California Department of Fish and Wildlife's Staff Report on Burrowing Owls (March 2012).
- During the breeding season (February 1 through August 31) occupied burrows shall not be disturbed and shall be provided with a 250-foot protective buffer unless a qualified biologist approved by CDFW verifies through non-invasive means that either: 1) the birds have not begun egg laying, or 2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. Once the fledglings are capable of independent survival, the burrow can be destroyed.
- If a burrowing owl or active nest is discovered before or during construction the biologist shall notify a CDFW representative.
- A worker education and awareness program should be provided to all on-site personnel by a qualified biologist before the commencement of materials staging or ground disturbing activities. The biologist should explain to construction workers how best to avoid impacts to burrowing owl and should include topics on species identification, life history, descriptions, and habitat requirements during various life stages. Handouts, illustrations, photographs, and project mapping showing areas where minimization and avoidance measures can be included as part of this education program. The program will increase the awareness of site workers about existing federal and state laws regarding endangered species as well as increase their compliance with conditions and requirements of resource agencies.

4.5.4.4. COMPENSATORY MITIGATION

Implementation of avoidance and minimization efforts described under Section 4.5.4.3 would ensure that the Project does not result in impacts to burrowing owl. Therefore, no compensatory mitigation is required

4.5.5. Swainson's Hawk

Swainson's hawk is listed as a threatened species under CESA. It is a medium-sized hawk with relatively long, pointed wings and a long, square tail. Swainson's hawks are restricted to portions of the Central Valley and Great Basin regions where suitable nesting and foraging habitat is still available. Swainson's hawks nest in riparian forests, remnant oak woodlands, isolated trees, and roadside trees. They forage primarily in open agricultural habitats, particularly those that optimize

availability of prey (e.g., alfalfa and other hay crops, some row and grain crops), but they also use irrigated pastures and annual grasslands (Estep 1989, England et al. 1997). In summer months, Swainson's hawks primarily eat insects, birds, and small mammals, occasionally taking reptiles, amphibians, and other invertebrates (Brown 1996). Swainson's hawks breed in the Central Valley, occurring in California only during the spring and summer breeding season (generally, March through August), and migrate to Mexico and portions of Central and South America during winter. Swainson's hawks usually arrive in the Central Valley between March 1 and April 1, and migrate south between September and October. Swainson's hawks usually nest in trees adjacent to suitable foraging habitat.

4.5.5.1. SURVEY RESULTS

No Swainson's hawks were observed within the BSA during the May 2018 and January 2019 field surveys. Potential Swainson's hawk nesting habitat is present within the riparian trees along Laguna Creek at the northern end of the BSA and additional nesting habitat is found along Laguna Creek within 0.25 mile of the BSA. This species could also utilize roadside trees throughout the BSA. The nearest Swainson's hawk nesting record is within the BSA along in the Waterman Road South site, where a nest was recorded in 2003 on the west side of Waterman Road at the Mosher Road intersection (CDFW 2019). The BSA supports grassland habitat and agricultural fields that provide suitable foraging areas for Swainson's hawk.

4.5.5.2. PROJECT IMPACTS

A total of 2.34 acres of annual grassland, which could be utilized by Swainson's hawk as foraging habitat, will be permanently impacted by the Project. However, this amount of habitat is relatively small in comparison to the amount of annual grasslands within the BSA and the general region. For this reason, it is not expected to have a substantial effect on any Swainson's hawk that could potentially utilize annual grasslands in the BSA for foraging.

Noise associated with construction activities involving heavy equipment operation that occurs during the breeding season (generally between February 1 and August 31) could disturb nesting Swainson's hawk if an active nest is located near these activities. Within urban areas, CDFW considers 0.25 mile to be a sufficient buffer to avoid disturbance of nesting Swainson's hawks (CDFW 1994). Any disturbance that causes Swainson's hawk nest abandonment and subsequent loss of eggs or developing young at active nests located near the Project area would violate the CESA; CFGC Sections 2800, 3503, and 3503.5; and the MBTA.

The proposed project could potentially impact individual Swainson's hawks if they began nesting within 0.25 miles of the BSA prior to construction. Potential impacts could include abandonment of nest sites and the mortality of young. In addition to known Swainson's hawk nest areas, potential

nesting habitats and nesting sites are present within 0.25 mile of the BSA and could be used by Swainson's hawks. Because the BSA occurs within an urban area subject to ongoing noise disturbances and human presence, any Swainson's hawks nesting in this area would likely be habituated to these existing disturbances. Based on the existing level of disturbance/noise in the Project vicinity, and limited ground disturbance associated with the Project, the Project is not likely to result in adverse effects (nest abandonment and/or death of developing Swainson's hawk eggs or young) to nesting Swainson's hawk if appropriate avoidance measures are implemented.

4.5.5.3. AVOIDANCE AND MINIMIZATION EFFORTS

Implementation of AMM 1 and 3 described in Section 4.2.1.3 and AMM 11, described below, shall be implemented prior to and during construction to avoid take of nesting Swainson's hawk.

AMM 11: Conduct a Preconstruction Nesting Migratory Bird and Raptor Survey and Establish No-disturbance Buffers, if Necessary

If construction (including equipment staging and tree removal) will occur during the breeding season for migratory birds and raptors (generally between February 1 and August 31), the City shall retain a qualified biologist to conduct a preconstruction nesting bird and raptor survey before the onset of construction activities. The preconstruction nesting bird and raptor surveys shall be conducted between February 1 and August 31 within suitable habitat at the Project area. Surveys for raptors nests should also extend 250 feet from the Project area to ensure that nesting raptors are not indirectly affected by construction noise. The survey shall be conducted no more than 30 days before the initiation of construction activities. If no active nests are detected during the survey, no additional mitigation is required and construction can proceed.

If migratory birds or raptors are found to be nesting in or adjacent to the Project area, a 250-foot no-disturbance buffer shall be established around raptor nests and a 50-foot buffer around non-raptor nests to avoid disturbance of the nest area and to avoid take. The buffer shall be maintained around the nest area until the end of the breeding season or until a qualified biologist determines that, the young have fledged and are foraging on their own. The extent of these buffers shall be determined by the biologist (coordinating with the CDFW) and shall depend on the species identified, level of noise or construction disturbance, line of sight between the nest and the disturbance, ambient levels of noise and other disturbances, and other topographical or artificial barriers.

4.5.5.4. COMPENSATORY MITIGATION

Implementation of avoidance and minimization efforts described under Section 4.5.5.3 would ensure that the Project does not result in take of Swainson's hawk. Approximately 2.34 acres of potential Swainson’s hawk foraging habitat will be permanently impacted during road widening.

The following compensatory mitigation would be required to compensate for the removal of Swainson's hawk foraging habitat.

Compensation Measure 2: Preserve CDFW-approved Foraging Habitat for Swainson's Hawk at a 1:1 Ratio for Permanent Impacts or Submit Payment of a Swainson's Hawk Impact Mitigation Fee to the City of Elk Grove.

To compensate for permanent loss of Swainson's hawk foraging habitat, the Project shall follow the City's Swainson's Hawk Mitigation Fee program. Per the program, approved property must be acquired, or a mitigation fee paid to the City prior to the start of construction, as described in Chapter 16.130 of the Elk Grove Municipal Code (City 2018b) or City's existing bank.

4.5.6. Other Nesting Migratory Birds and Raptors

Other migratory birds and raptors could nest within and surrounding the BSA on the ground, within trees, or on the undersides of bridges. The breeding season for most birds and raptors within the Project region is generally from February 1 to August 31. The occupied nests and eggs of these birds are protected by federal and state laws, including MBTA and CFGC Sections 3503 and 3503.5.

4.5.6.1. Survey Results

The PIA and BSA have the potential to support nesting raptors and migratory birds on suitable nest trees or nesting sites. Migratory birds and raptors that could potentially nest within or adjacent to the BSA include white-tailed kite, American kestrel (*Falco sparverius*), California towhee (*Melozone crissalis*), red-tailed hawk (*Buteo jamaicensis*), northern harrier (*Circus cyaneus*), turkey vulture (*Cathartes aura*), American robin (*Turdus migratorius*), killdeer (*Charadrius vociferus*), mourning dove (*Zenaida macroura*), northern mockingbird (*Mimus polyglottos*), western meadowlark (*Sturnella neglecta*), and western scrub-jay (*Aphelocoma californica*).

4.5.6.2. Project Impacts

Noise associated with construction activities involving heavy equipment operation that occurs during the breeding season (generally between February 1 and August 31) could disturb nesting migratory birds and raptors if an active nest is located near these activities. Any disturbance that causes migratory bird or raptor nest abandonment and subsequent loss of eggs or developing young at active nests located at or near the Project area would violate CFGC Sections 3503 or 3503.5 and the MBTA.

4.5.6.3. Avoidance and Minimization Efforts

Implementation of AMM 1, 3, and 11 described in Sections 4.2.1.3 and 4.5.5.3 shall be implemented prior to and during construction to avoid take of nesting migratory birds and raptors.

4.5.6.4. COMPENSATORY MITIGATION

Implementation of avoidance and minimization efforts described under Section 4.5.6.3 would ensure that the Project does not result in take of migratory birds and raptors. Therefore, no compensatory mitigation is required.

4.6. Cumulative Effects

The following sections detail how the Project and future projects in the area will avoid contributing to cumulative effects to biological resources in the vicinity of the Project area through implementation of avoidance and minimization efforts and compensation measures.

4.6.1. Waters of the U.S.

The construction of future projects in the City may result in impacts to waters of the U.S.; however, impacts to waters of the U.S. resulting from individual projects will be required to be mitigated for by creating and/or preserving waters of the U.S. elsewhere to achieve no net loss. Implementation of AMM 1 through 5, 7, and 8 would ensure that the Project does not contribute to cumulative effects to waters of the U.S. Similarly, implementation of separate avoidance and minimization efforts and compensation measures for future projects would ensure that these future projects would not contribute to cumulative effects on waters of the U.S.

4.6.2. Protected Trees

The Project would result in a permanent, direct impacts to protected trees by removing any trees considered protected by the City under the Tree Preservation and Protection Code, and additional trees may be removed during construction of future cumulative projects. Implementation of AMM 6 and compensation measure 1 would ensure that the Project does not contribute to cumulative effects to protected trees. Through adoption of the City's tree protection ordinance, future projects in the area would be required to fully mitigate for the removal of protected trees; therefore, this Project and future projects would not contribute to cumulative effects to protected trees.

4.6.3. Vernal Pool Fairy Shrimp and Vernal Pool Tadpole Shrimp

Construction of future projects in the City may result in direct and indirect effects to habitat for vernal pool crustaceans including vernal pool fairy shrimp and vernal pool tadpole shrimp. As part of the Project, implementation of AMM 1 through 5, 7, and 8 would minimize the potential indirect effects to vernal pool fairy shrimp and vernal pool tadpole shrimp habitat. Therefore, the Project would not contribute to cumulative effects to vernal pool fairy shrimp and vernal pool tadpole shrimp. In addition, the avoidance and minimization efforts and compensatory measures implemented as part of future projects would ensure that those projects do not contribute to cumulative effects to vernal pool fairy shrimp and vernal pool tadpole shrimp.

4.6.4. Western Spadefoot

Western spadefoot utilizes the same habitat types as vernal pool fairy shrimp and vernal pool tadpole shrimp, and has the potential to be similarly affected through the loss of these aquatic plant communities during Project construction and the construction of future projects. Implementation of AMM 1 through 5, 7 through 9 will ensure that the Project does not contribute to cumulative effects to western spadefoot and its habitat. Similarly, mitigation for effects to vernal pool fairy shrimp and vernal pool tadpole shrimp habitat, as part of future projects, would ensure that future projects would not contribute to cumulative effects to western spadefoot.

4.6.5. Giant Garter Snake

Construction of future projects in the City may result in direct and indirect effects to habitat for giant garter snake. The Project would have no effect on giant garter snake, and therefore, the Project would not contribute to cumulative effects to giant garter snake. In addition, the avoidance and minimization efforts and compensatory measures implemented as part of future projects would ensure that those projects do not contribute to cumulative effects to giant garter snake.

4.6.6. Burrowing Owl

Construction of future projects in the City may result in direct and indirect effects to habitat for burrowing owl. As part of the Project, implementation of AMM 1 through 5 and 10 would reduce project effects resulting from construction of the proposed project to burrowing owl. Therefore, the Project would not contribute to cumulative effects to burrowing owl. In addition, the avoidance and minimization efforts and compensatory measures implemented as part of future projects would ensure that those projects do not contribute to cumulative effects to burrowing owl.

4.6.7. Swainson's Hawk

As part of the Project and future projects, annual grassland will be permanently lost, reducing Swainson's hawk foraging habitat in the local area. Implementation of AMM 1 through 5 and 11 and compensation measure 2 will ensure that the Project will not contribute to cumulative effects to Swainson's hawk. Similarly, implementation of avoidance and minimization efforts and compensatory mitigation required for future projects will ensure that these projects will not contribute to cumulative effects to Swainson's hawk.

4.6.8. Other Nesting Migratory Birds and Raptors

The Project will result in the removal of trees and other potential nesting habitats for migratory birds and raptors, potentially impacting nesting migratory birds and raptors. Implementation of AMM 1 through 5 and 11 would ensure that the Project would not result in take of migratory birds or raptors, or occupied nests with eggs or young. In addition, mitigation for the removal of

protected trees will result in future additional nesting habitat for migratory birds and raptors. Therefore, this Project will not contribute to cumulative effects to nesting migratory birds or raptors. Similarly, implementation of avoidance and minimization efforts and mitigation for the removal of protected trees will ensure that future projects do not contribute to cumulative effects to nesting migratory birds or raptors.

Chapter 5. Results: Permits and Technical Studies for Special Laws or Conditions

5.1. Federal Endangered Species Act Consultation Summary

To date, there has been no FESA consultation with USFWS for the Project. A Biological Assessment will be submitted to USFWS to initiate Section 7 consultation if it is determined that there are potential effects to federally listed species.

5.2. Federal Fisheries and Essential Fish Habitat Consultation Summary

To date, there has been no FESA consultation with NMFS for the Project. Environmental Science Associates obtained an "unofficial" list of potential fish species and essential fish habitat (EFH) with potential to occur in the Elk Grove USGS 7.5-minute quadrangle from NMFS on March 23, 2018 (updated April 4, 2019). EFH is defined as "those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity."

The NMFS results indicated potential for chinook salmon EFH within the Elk Grove USGS 7.5-minute quadrangle as well as the potential for central valley spring-run chinook, Sacramento River winter-run chinook salmon, and California central valley steelhead. While the BSA is located within the Elk Grove USGS 7.5-minute quadrangle that has designated EFH, there are no waterways (creeks, rivers) within the BSA that meet the criteria for EFH. Using the NMFS habitat conservation EFH mapper and the data query tool to review the exact location of the BSA, no EFH is identified within or adjacent to the BSA (NMFS 2018b); therefore, the Project will not adversely affect EFH. Because the Project will not result in effects to habitat for anadromous fish species, including EFH, consultation with NMFS will not be required.

5.3. California Endangered Species Act Consultation Summary

To date, there has been no CESA consultation with CDFW for the Project. The PIA includes 2.34 acres of Swainson's hawk foraging habitat that would be permanently impacted. Pursuant to the City's Swainson's hawk ordinance, if the City chooses to mitigate for impacts to Swainson's hawk foraging habitat through the purchase of lands to be set aside for preservation, the CDFW will be consulted to determine if the proposed mitigation property contains suitable foraging habitat for Swainson's hawk. If the City pursues other mitigation options, including contributing to the City's in-lieu fee program or purchase of mitigation credits, CDFW will not need to be consulted.

5.4. Wetlands and Other Waters Coordination Summary

To date, there has been no CWA coordination with the USACE, RWQCB, or SWRCB for the Project. As currently designed, the Project will not directly impact waters of the U.S., so no CWA Section 404 permit is expected to be required. The City will apply for and obtain all applicable permits prior to Project construction.

5.5. Invasive Species

Construction would occur along the existing paved road within a disturbed corridor. The BSA is surrounded by development and disturbed areas that support many non-native invasive plants. Implementation of the Project is not expected to result in the introduction, establishment, and spread of new invasive weeds into Sacramento County. Therefore, no coordination with the Sacramento County Agricultural Commissioner's office is required.

Chapter 6. References

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Appendix A Species Lists (CDFW, USFWS, NMFS, CNPS)

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Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Elk Grove (3812143) OR Carmichael (3812153) OR Buffalo Creek (3812152) OR Sloughhouse (3812142) OR Clay (3812132) OR Galt (3812133) OR Bruceville (3812134) OR Florin (3812144) OR Sacramento East (3812154))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Accipiter cooperii Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Threatened	G2G3	S1S2	SSC
Ambystoma californiense California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
Andrena blennospermatis Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	G2	S2	
Aquila chrysaetos golden eagle	ABNKC22010	None	None	G5	S3	FP
Arctostaphylos edmundsii Little Sur manzanita	PDERI04260	None	None	G2	S2	1B.2
Arctostaphylos hookeri ssp. hookeri Hooker's manzanita	PDERI040J1	None	None	G3T2	S2	1B.2
Ardea alba great egret	ABNGA04040	None	None	G5	S4	
Ardea herodias great blue heron	ABNGA04010	None	None	G5	S4	
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
Branchinecta mesovallensis midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
Brasenia schreberi watershield	PDCAB01010	None	None	G5	S3	2B.3
Buteo regalis ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
Buteo swainsoni Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
Carex comosa bristly sedge	PMCYP032Y0	None	None	G5	S2	2B.1
Central Maritime Chaparral Central Maritime Chaparral	CTT37C20CA	None	None	G2	S2.2	
Cicuta maculata var. bolanderi Bolander's water-hemlock	PDAPI0M051	None	None	G5T4T5	S2?	2B.1

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Clarkia jolonensis Jolon clarkia	PDONA050L0	None	None	G2	S2	1B.2
Coastal and Valley Freshwater Marsh Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Cordylanthus rigidus ssp. littoralis seaside bird's-beak	PDSCR0J0P2	None	Endangered	G5T2	S2	1B.1
Corynorhinus townsendii Townsend's big-eared bat	AMACC08010	None	None	G3G4	S2	SSC
Cuscuta obtusiflora var. glandulosa Peruvian dodder	PDCUS01111	None	None	G5T4?	SH	2B.2
Danaus plexippus pop. 1 monarch - California overwintering population	IILEPP2012	None	None	G4T2T3	S2S3	
Delphinium hutchinsoniae Hutchinson's larkspur	PDRAN0B0V0	None	None	G2	S2	1B.2
Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S2	
Downingia pusilla dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2
Dumontia oregonensis hairy water flea	ICBRA23010	None	None	G1G3	S1	
Elanus leucurus white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
Elderberry Savanna Elderberry Savanna	CTT63440CA	None	None	G2	S2.1	
Emys marmorata western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Eriogonum nortonii Pinnacles buckwheat	PDPGN08470	None	None	G2	S2	1B.3
Erysimum ammophilum sand-loving wallflower	PDBRA16010	None	None	G2	S2	1B.2
Euphilotes enoptes smithi Smith's blue butterfly	IILEPG2026	Endangered	None	G5T1T2	S1S2	
Falco columbarius merlin	ABNKD06030	None	None	G5	S3S4	WL
Gratiola heterosepala Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	G2	S2	1B.2
Great Valley Mixed Riparian Forest Great Valley Mixed Riparian Forest	CTT61420CA	None	None	G2	S2.2	
Great Valley Valley Oak Riparian Forest Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	G1	S1.1	

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Hibiscus lasiocarpos var. occidentalis woolly rose-mallow	PDMAL0H0R3	None	None	G5T3	S3	1B.2
Hydrochara rickseckeri Ricksecker's water scavenger beetle	IICOL5V010	None	None	G2?	S2?	
Juncus leiospermus var. ahartii Ahart's dwarf rush	PMJUN011L1	None	None	G2T1	S1	1B.2
Laterallus jamaicensis coturniculus California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP
Lathyrus jepsonii var. jepsonii Delta tule pea	PDFAB250D2	None	None	G5T2	S2	1B.2
Legenere limosa legenere	PDCAM0C010	None	None	G2	S2	1B.1
Lepidium latipes var. heckardii Heckard's pepper-grass	PDBRA1M0K1	None	None	G4T1	S1	1B.2
Lepidurus packardi vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G4	S3S4	
Lilaeopsis masonii Mason's lilaeopsis	PDAPI19030	None	Rare	G2	S2	1B.1
Limosella australis Delta mudwort	PDSCR10030	None	None	G4G5	S2	2B.1
Linderiella occidentalis California linderiella	ICBRA06010	None	None	G2G3	S2S3	
Melospiza melodia song sparrow ("Modesto" population)	ABPBXA3010	None	None	G5	S3?	SSC
Monterey Pine Forest Monterey Pine Forest	CTT83130CA	None	None	G1	S1.1	
Northern Hardpan Vernal Pool Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
Nycticorax nycticorax black-crowned night heron	ABNGA11010	None	None	G5	S4	
Oceanodroma homochroa ashy storm-petrel	ABNDC04030	None	None	G2	S2	SSC
Oncorhynchus mykiss irideus pop. 11 steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
Oncorhynchus mykiss irideus pop. 9 steelhead - south-central California coast DPS	AFCHA0209H	Threatened	None	G5T2Q	S2	
Orcuttia tenuis slender Orcutt grass	PMPOA4G050	Threatened	Endangered	G2	S2	1B.1
Orcuttia viscida Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	G1	S1	1B.1
Phalacrocorax auritus double-crested cormorant	ABNFD01020	None	None	G5	S4	WL

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Pinus radiata Monterey pine	PGPIN040V0	None	None	G1	S1	1B.1
Piperia yadonii Yadon's rein orchid	PMORC1X070	Endangered	None	G1	S1	1B.1
Pogonichthys macrolepidotus Sacramento splittail	AFCJB34020	None	None	GNR	S3	SSC
Progne subis purple martin	ABPAU01010	None	None	G5	S3	SSC
Rana boylii foothill yellow-legged frog	AAABH01050	None	Candidate Threatened	G3	S3	SSC
Rana draytonii California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
Riparia riparia bank swallow	ABPAU08010	None	Threatened	G5	S2	
Rosa pinetorum pine rose	PDROS1J0W0	None	None	G2	S2	1B.2
Sagittaria sanfordii Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
Scutellaria galericulata marsh skullcap	PDLAM1U0J0	None	None	G5	S2	2B.2
Scutellaria lateriflora side-flowering skullcap	PDLAM1U0Q0	None	None	G5	S2	2B.2
Sidalcea malachroides maple-leaved checkerbloom	PDMAL110E0	None	None	G3	S3	4.2
Spea hammondii western spadefoot	AAABF02020	None	None	G3	S3	SSC
Spirinchus thaleichthys longfin smelt	AFCHB03010	Candidate	Threatened	G5	S1	
Taxidea taxus American badger	AMAJF04010	None	None	G5	S3	SSC
Thamnophis gigas giant gartersnake	ARADB36150	Threatened	Threatened	G2	S2	
Tortula californica California screw moss	NBMUS7L090	None	None	G2G3	S2S3	1B.2
Trifolium hydrophilum saline clover	PDFAB400R5	None	None	G2	S2	1B.2
Valley Oak Woodland Valley Oak Woodland	CTT71130CA	None	None	G3	S2.1	
Xanthocephalus xanthocephalus yellow-headed blackbird	ABPBXB3010	None	None	G5	S3	SSC

Record Count: 80

IPaC Information for Planning and Consultation **U.S. Fish & Wildlife Service**

Last login October 04, 2019 08:02 AM MDT

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

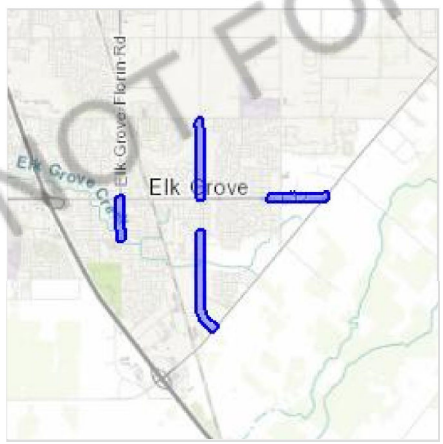
Project information

NAME

Arterial Roads Rehabilitation and Bicycle Lane Improvements Project

LOCATION

Sacramento County, California



DESCRIPTION

Road
reparis

Local office

Sacramento Fish And Wildlife Office

(916) 414-6600
(916) 414-6713

Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species

[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information.
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Reptiles

NAME	STATUS
Giant Garter Snake Thamnophis gigas No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog Rana draytonii There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/2891	Threatened
California Tiger Salamander Ambystoma californiense There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/2076	Threatened

Fishes

NAME	STATUS
Delta Smelt Hypomesus transpacificus There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/321	Threatened

Insects

NAME	STATUS
Valley Elderberry Longhorn Beetle Desmocerus californicus dimorphus There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/7850	Threatened

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp Branchinecta lynchi There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/498	Threatened

Vernal Pool Tadpole Shrimp Lepidurus packardi There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/2246	Endangered

Flowering Plants

NAME	STATUS
Sacramento Orcutt Grass Orcuttia viscida There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/5507	Endangered
Slender Orcutt Grass Orcuttia tenuis There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/1063	Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act [1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php

- Nationwide conservation measures for birds
  http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Jan 1 to Aug 31
Burrowing Owl Athene cunicularia This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9737	Breeds Mar 15 to Aug 31

Common Yellowthroat Geothlypis trichas sinuosa
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/2084
Breeds May 20 to Jul 31

Golden Eagle Aquila chrysaetos
This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/1680
Breeds Jan 1 to Aug 31

Long-billed Curlew Numenius americanus
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/5511
Breeds elsewhere

Nuttall's Woodpecker Picoides nuttallii
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/9410
Breeds Apr 1 to Jul 20

Oak Titmouse Baeolophus inornatus
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9656
Breeds Mar 15 to Jul 15

Rufous Hummingbird selasphorus rufus
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/8002
Breeds elsewhere

Song Sparrow Melospiza melodia
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
Breeds Feb 20 to Sep 5

Spotted Towhee Pipilo maculatus clementae
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/4243
Breeds Apr 15 to Jul 20

Tricolored Blackbird Agelaius tricolor
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/3910
Breeds Mar 15 to Aug 10

Whimbrel *Numenius phaeopus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9483	Breeds elsewhere
Wrentit *Chamaea fasciata* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 10
Yellow-billed Magpie *Pica nuttalli* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9726	Breeds Apr 1 to Jul 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its

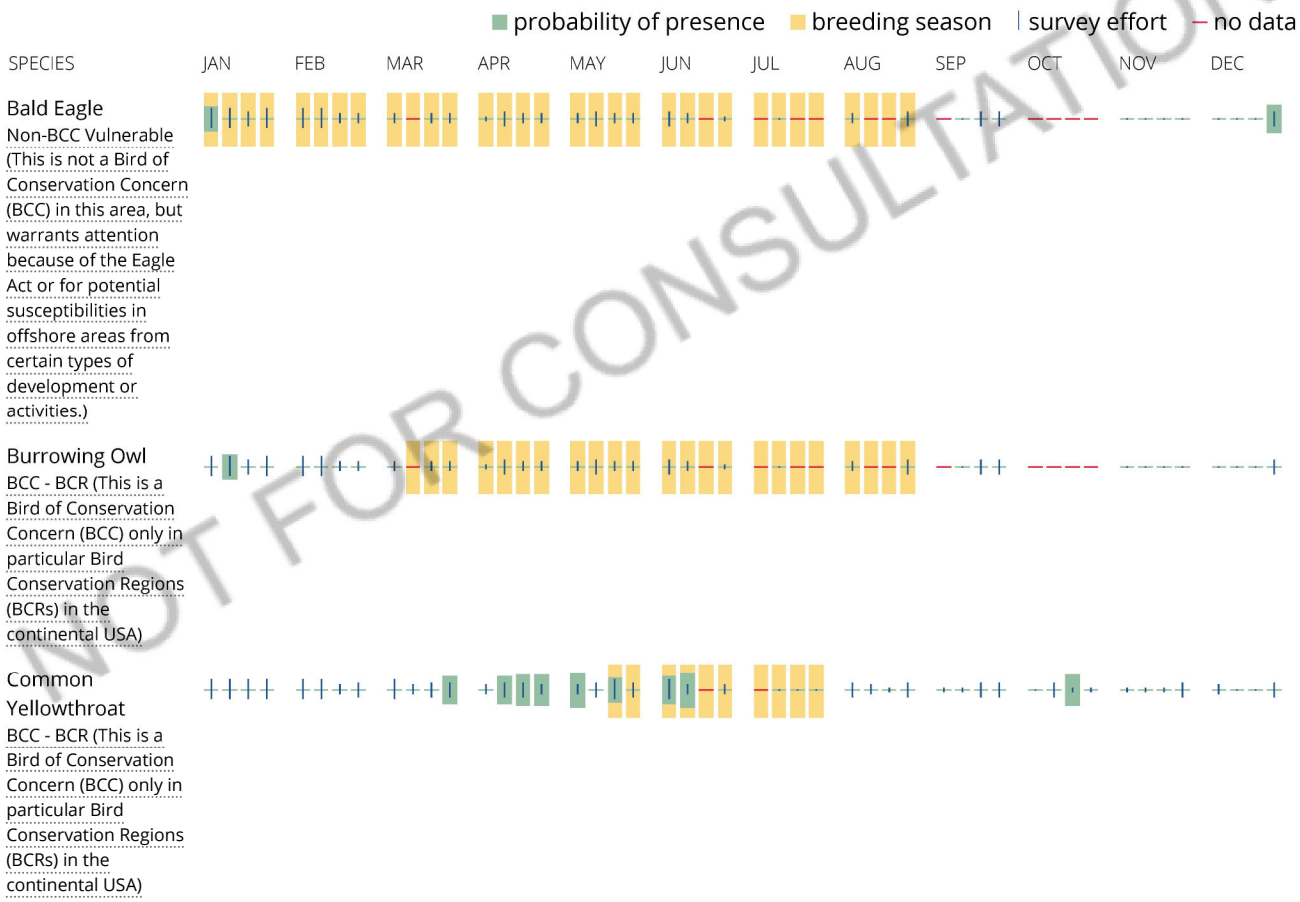
entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

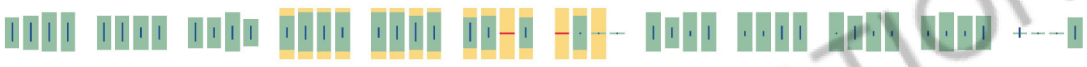
Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



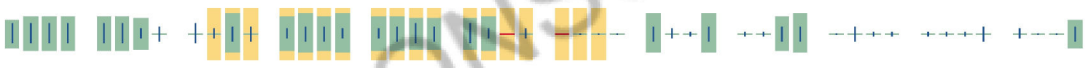
Golden Eagle
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Long-billed Curlew
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Nuttall's Woodpecker
BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



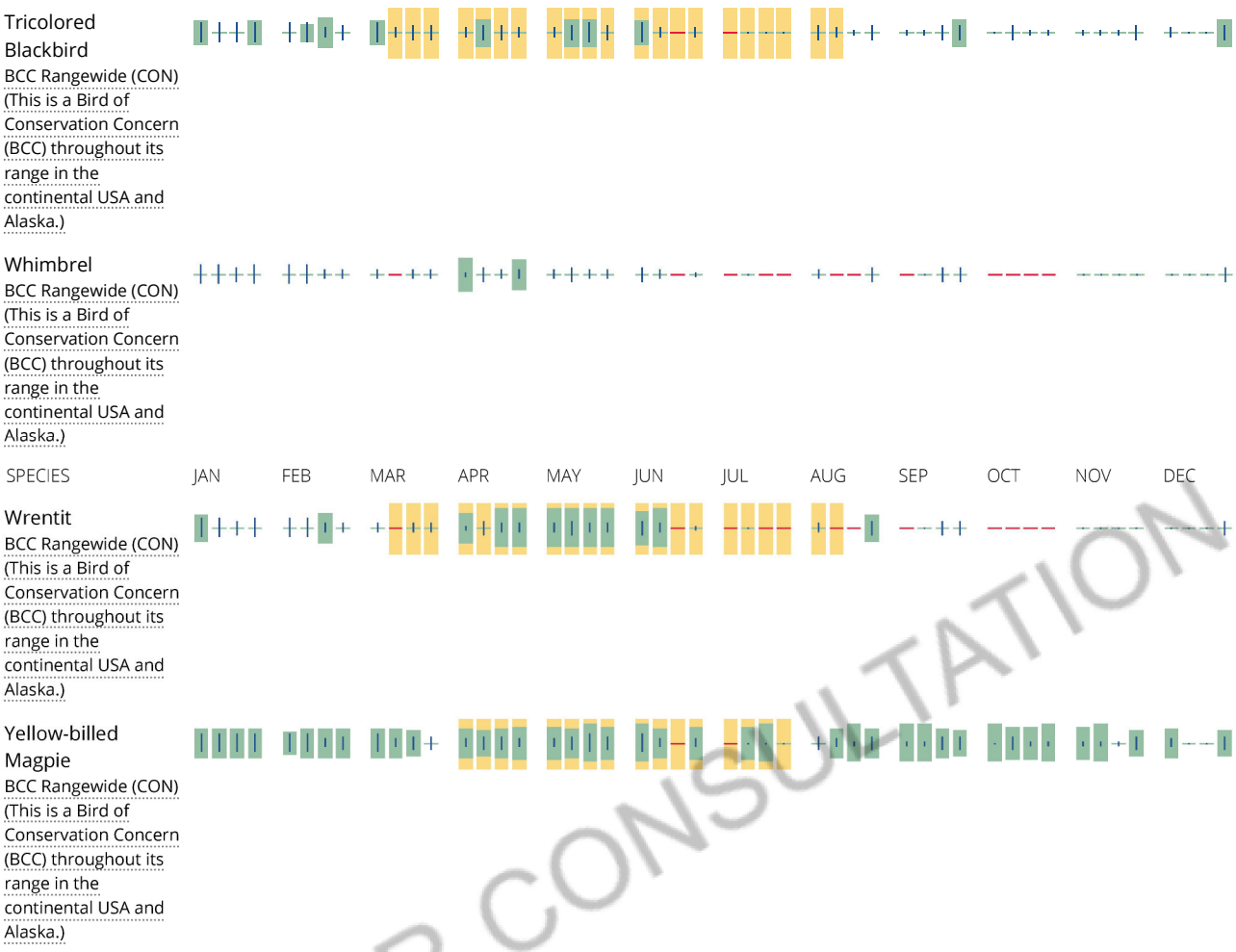
Oak Titmouse
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Rufous Hummingbird
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Song Sparrow
BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)

Spotted Towhee
BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following *resources:* The Cornell Lab of Ornithology All About Birds *Bird Guide*, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

PEM1C
PEM1A

FRESHWATER POND

PUBHh
PUBHx

RIVERINE

R4SBCx
R4SBC

A full description for each wetland code can be found at the National Wetlands Inventory website

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Species List - Intersection of USGS Topographic Quadrangles with NOAA Fisheries ESA Listed Species, Critical Habitat, Essential Fish Habitat, and MMPA Species Data

November 2016

X = Present on the Quadrangle		**ESA ANADROMOUS FISH** (E) = Endangered, (T) = Threatened												**ESA ANADROMOUS FISH CRITICAL HABITAT**										**ESA MARINE INVERTEBRATES**		**ESA MARINE INVERT. CRITICAL HABITAT**
		COHO		CHINOOK			STEELHEAD					Eulachon (T)	Southern DPS Green Sturgeon (T)	COHO		CHINOOK			STEELHEAD					Eulachon	Southern DPS Green Sturgeon	Black Abalone (E)	White Abalone (E)	Black Abalone
Quad Name	Quad Number	SONCC (T)	CCC (E)	CC (T)	CVSR (T)	SRWR (E)	NC (T)	CCC (T)	SCCC (T)	SC (E)	CCV (T)			SONCC	CCC	CC	CVSR	SRWR	NC	CCC	SCCC	SC	CCV					
Bruceville	38121-C4				X	X					X		X										X		X			
Buffalo Creek	38121-E2				X	X					X																	
Carmichael	38121-E3				X	X					X												X					
Clay	38121-C2										X																	
Elk Grove	38121-D3				X	X					X																	
Florin	38121-D4				X	X					X																	
Galt	38121-C3				X						X																	
Sacramento East	38121-E4				X	X					X		X				X						X		X			
Sloughhouse	38121-D2				X						X																	

Species List - Intersection of USGS Topographic Quadrangles with NOAA Fisheries ESA Listed Species, Critical Habitat, Essential Fish Habitat, and MMPA Species Data

November 2016

X = Present on the Quadrangle		ESA SEA TURTLES				ESA WHALES	ESA PINNIPEDS	ESA PINNIPEDS CRITICAL HABITAT	ESSENTIAL FISH HABITAT				MMPA SPECIES	
		East Pacific Green Sea Turtle (T)	Olive Ridley Sea Turtle (T/E)	Leatherback Sea Turtle (E)	North Pacific Loggerhead Sea Turtle (E)	Whales (see list below)	Guadalupe Fur Seal (T)	Steller Sea Lion	SALMON		Groundfish	Coastal Pelagic	Highly Migratory Species	MMPA Cetaceans (see "MMPA Species" tab for list)	MMPA Pinnipeds (see "MMPA Species" tab for list)
Quad Name	Quad Number								Coho	Chinook					
Bruceville	38121-C4									X	X				
Buffalo Creek	38121-E2									X					
Carmichael	38121-E3									X					
Clay	38121-C2									X					
Elk Grove	38121-D3									X					
Florin	38121-D4									X					
Galt	38121-C3									X					
Sacramento East	38121-E4									X	X				
Sloughhouse	38121-D2									X					

Blue Whale (E)

Fin Whale (E)

Humpback Whale (E)

Southern Resident Killer Whale (E)

North Pacific Right Whale (E)

Sei Whale (E)

Sperm Whale (E)

CNPS California Native Plant Society

Inventory of Rare and Endangered Plants

*The database used to provide updates to the Online Inventory is under construction. View updates and changes made since May 2019 here.

Plant List

24 matches found. *Click on scientific name for details*

Search Criteria

Found in Quads 3812154, 3812153, 3812152, 3812144, 3812143, 3812142, 3812134 3812133 and 3812132;

Modify Search Criteria Export to Excel Modify Columns Modify Sort Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Brasenia schreberi	watershield	Cabombaceae	perennial rhizomatous herb (aquatic)	Jun-Sep	2B.3	S3	G5
Brodiaea rosea ssp. vallicola	valley brodiaea	Themidaceae	perennial bulbiferous herb	Apr-May (Jun)	4.2	S3	G5T3
Carex comosa	bristly sedge	Cyperaceae	perennial rhizomatous herb	May-Sep	2B.1	S2	G5
Centromadia parryi ssp. rudis	Parry's rough tarplant	Asteraceae	annual herb	May-Oct	4.2	S3	G3T3
Cicuta maculata var. bolanderi	Bolander's water-hemlock	Apiaceae	perennial herb	Jul-Sep	2B.1	S2?	G5T4T5
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	Convolvulaceae	annual vine (parasitic)	Jul-Oct	2B.2	SH	G5T4?
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	Mar-May	2B.2	S2	GU
Gratiola heterosepala	Boggs Lake hedge-hyssop	Plantaginaceae	annual herb	Apr-Aug	1B.2	S2	G2
Hesperevax caulescens	hogwallow starfish	Asteraceae	annual herb	Mar-Jun	4.2	S3	G3
Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	Malvaceae	perennial rhizomatous herb (emergent)	Jun-Sep	1B.2	S3	G5T3
Juglans hindsii	Northern California black walnut	Juglandaceae	perennial deciduous tree	Apr-May	1B.1	S1	G1
		Juncaceae	annual herb	Mar-May	1B.2	S1	G2T1

Juncus leiospermus var. ahartii	Ahart's dwarf rush						
Lasthenia ferrisiae	Ferris' goldfields	Asteraceae	annual herb	Feb-May	4.2	S3	G3
Lathyrus jepsonii var. jepsonii	Delta tule pea	Fabaceae	perennial herb	May-Jul (Aug-Sep)	1B.2	S2	G5T2
Legenere limosa	legenere	Campanulaceae	annual herb	Apr-Jun	1B.1	S2	G2
Lepidium latipes var. heckardii	Heckard's pepper-grass	Brassicaceae	annual herb	Mar-May	1B.2	S1	G4T1
Lilaeopsis masonii	Mason's lilaeopsis	Apiaceae	perennial rhizomatous herb	Apr-Nov	1B.1	S2	G2
Navarretia eriocephala	hoary navarretia	Polemoniaceae	annual herb	May-Jun	4.3	S4?	G4?
Orcuttia tenuis	slender Orcutt grass	Poaceae	annual herb	May-Sep (Oct)	1B.1	S2	G2
Orcuttia viscida	Sacramento Orcutt grass	Poaceae	annual herb	Apr-Jul (Sep)	1B.1	S1	G1
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Oct (Nov)	1B.2	S3	G3
Scutellaria galericulata	marsh skullcap	Lamiaceae	perennial rhizomatous herb	Jun-Sep	2B.2	S2	G5
Scutellaria lateriflora	side-flowering skullcap	Lamiaceae	perennial rhizomatous herb	Jul-Sep	2B.2	S2	G5
Trifolium hydrophilum	saline clover	Fabaceae	annual herb	Apr-Jun	1B.2	S2	G2

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Appendix B Indirect Effects Analysis Results

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Results of Indirect Effects Analysis

Wetland Information			Impacted (Y/N)		Justification/Notes
ID	Type	Size (Acres)	Direct	Indirect	
SW-1	Seasonal Wetland	0.014	No	No	Proposed ditches and BMPs will intercept all water from the road and maintain hydrology similar to existing conditions. This feature is at the same elevation as the road.
SW-2	Seasonal Wetland	0.017	No	No	Proposed ditches and BMPs will intercept all water from the road and maintain hydrology similar to existing conditions. These features are downslope from the road (slopes of 3 percent or less).
SW-3	Seasonal Wetland	0.004	No	No	
SW-4	Seasonal Wetland	0.020	No	No	
SW-5	Seasonal Wetland	0.021	No	No	
SW-6	Seasonal Wetland	0.044	No	No	
SW-7	Seasonal Wetland	0.011	No	No	Proposed ditches and BMPs will intercept all water from the road and maintain hydrology similar to existing conditions. This feature is at the same elevation as the road.
SW-8	Seasonal Wetland	0.038	No	No	Proposed ditches and BMPs will intercept all water from the road and maintain hydrology similar to existing conditions. These features are downslope from the road (slopes of 3 percent or less).
SW-9	Seasonal Wetland	0.033	No	No	
SW-10	Seasonal Wetland	0.021	No	No	Proposed ditches and BMPs will intercept all water from the road and maintain hydrology similar to existing conditions. This feature is at the same elevation as the road.
VP-1	Vernal Pool	0.037	No	No	Proposed ditches and BMPs will intercept all water from the road and maintain hydrology similar to existing conditions. These features are downslope from the road (slopes of 3 percent or less).
VP-2	Vernal Pool	0.021	No	No	
VP-3	Vernal Pool	0.005	No	No	
VP-4	Vernal Pool	0.038	No	No	
VP-5	Vernal Pool	0.048	No	No	Proposed ditches and BMPs will intercept all water from the road and maintain hydrology similar to existing conditions. This feature is upslope from the road.
VP-6	Vernal Pool	0.030	No	No	Proposed project improvements west of these features are limited to rehabilitation of the existing paved roadway surface. Existing ditches between the roadway and these features would remain unaltered and continue to hydrologically isolate the roadway from these features. These features are downslope from the road (slopes of 3 percent or less).
VP-7	Vernal Pool	0.039	No	No	
VP-8	Vernal Pool	0.015	No	No	
VP-9	Vernal Pool	0.064	No	No	
VP-10	Vernal Pool	0.015	No	No	
VP-11	Vernal Pool	0.022	No	No	
VP-12	Vernal Pool	0.115	No	No	
VP-13	Vernal Pool	0.005	No	No	

Wetland Information			Impacted (Y/N)		Justification/Notes
ID	**Type**	**Size (Acres)**	**Direct**	**Indirect**	
VS-1	Vernal Swale	0.003	No	No	Proposed ditches and BMPs will intercept all water from the road and maintain hydrology similar to existing conditions. This feature is downslope from the road (slopes of 3 percent or less).
VS-2	Vernal Swale	0.003	No	No	
VS-3	Vernal Swale	0.018	No	No	
VS-4	Vernal Swale	0.039	No	No	
VS-5	Vernal Swale	0.010	No	No	
VS-6	Vernal Swale	0.014	No	No	
VS-7	Vernal Swale	0.032	No	No	Proposed project improvements west of this feature are limited to rehabilitation of the existing paved roadway surface. Existing ditches between the roadway and this feature would remain unaltered and continue to hydrologically isolate the roadway from this feature. This feature is downslope from the road (slopes of 3 percent or less).

Appendix E

Aquatic Resources Delineation Report

ESA

Draft

ARTERIAL ROADS REHABILITATION AND BICYCLE LANE IMPROVEMENTS PROJECT (WPR014)

Aquatic Resources Delineation Report
Caltrans District 3
RPSTPL 5479 (060)

Prepared for
City of Elk Grove

April 2019

Draft

ARTERIAL ROADS REHABILITATION AND BICYCLE LANE IMPROVEMENTS PROJECT (WPR014)

Aquatic Resources Delineation Report
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Prepared for
City of Elk Grove

April 2019

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ARTERIAL ROADS REHABILITATION AND BICYCLE LANE IMPROVEMENTS PROJECT

Aquatic Resources Delineation Report

Introduction

This report has been prepared to document the results and conclusions of an aquatic resources delineation field survey conducted for the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (Project) study area in May 2018 and January 2019. The study area is comprised of three sites encompassing a total of approximately 200.5 acres of land located within the City of Elk Grove, in Sacramento County (**Figures 1** and **2**). On behalf of the City of Elk Grove (City), Environmental Science Associates (ESA) investigated the extent of aquatic resources within the Project study area subject to regulation under Section 404 of the Clean Water Act (CWA).

The aquatic resources delineation concludes that there are 1.597 acres of aquatic resources in the Project study area. These include:

- 0.223 acre of seasonal wetland;
- 0.454 acre of vernal pool;
- 0.119 acre of vernal swale;
- 0.458 acre of perennial channel; and
- 0.343 acre of intermittent channel.

This report documents aquatic resources within the Project study area using the best professional judgment of ESA investigators. All conclusions presented should be considered preliminary and subject to change pending official review and verification in writing by U.S. Army Corps of Engineers (USACE).

Responsible Parties

The responsible party and point of contact for regulatory permitting is:

Kristin Parsons, Project Manager
City of Elk Grove Public Works Department
8401 Laguna Palms Way
Elk Grove, CA 95758
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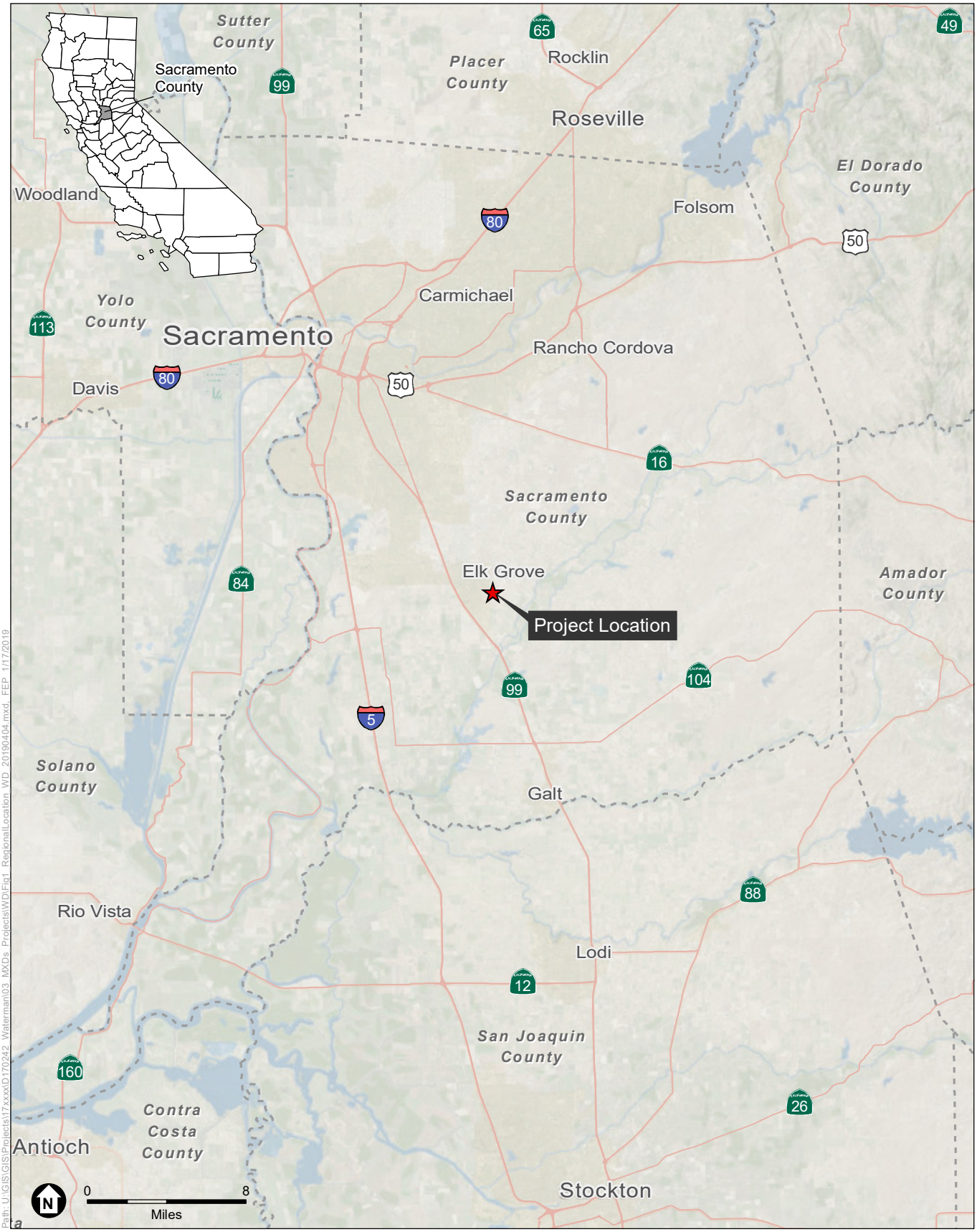
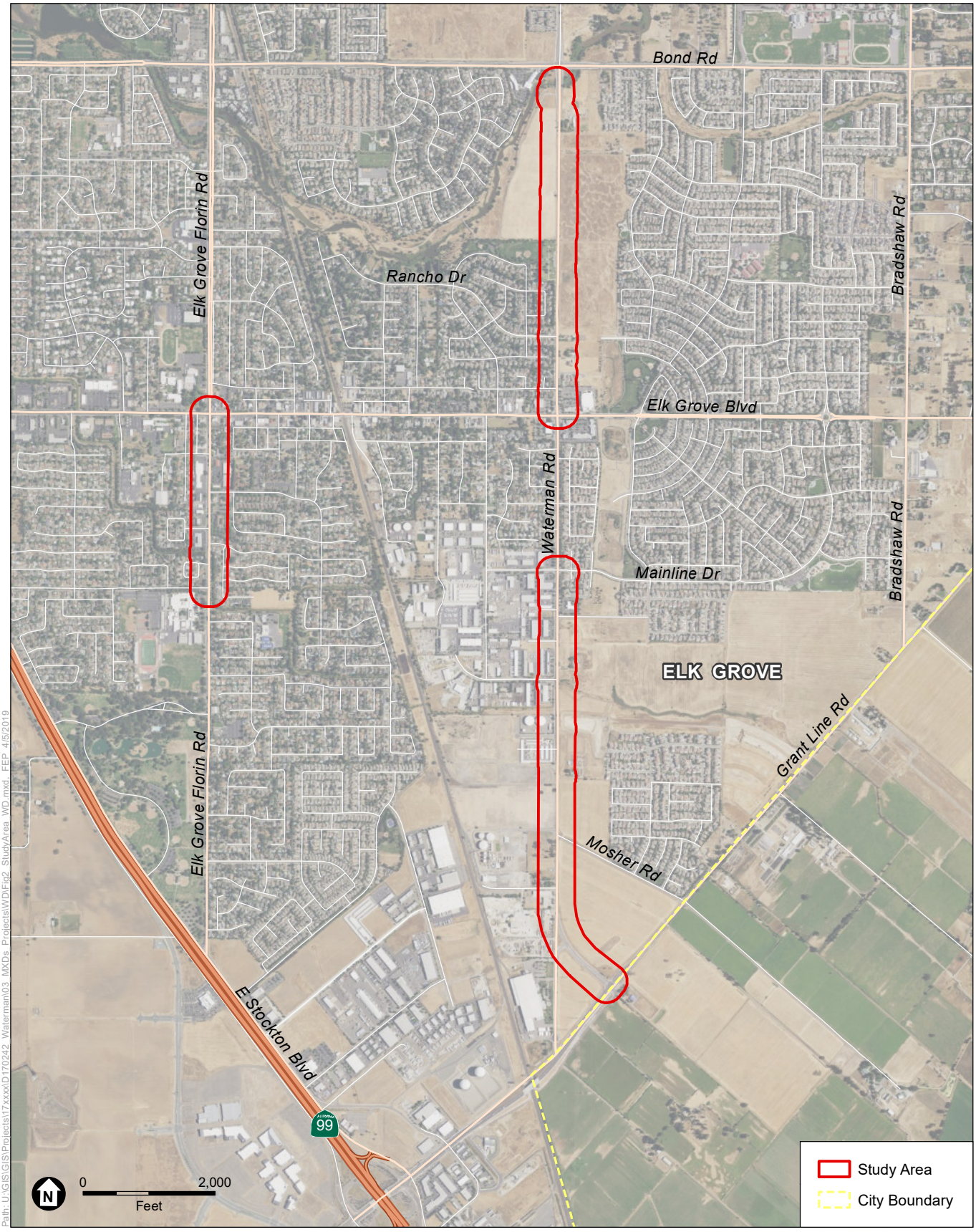


SOURCE: ESRI, 2018; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 1
Regional Location

ESA



SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2
Study Area

ESA

Directions to the Waterman Road North site from Sacramento:

- Take CA-99 S
- Take exit 287 for Bond Road; turn left onto Bond Road
- Turn right onto Waterman Road

Purpose

The purpose of this investigation is to describe and delineate all wetlands and other waters of the U.S. within the study area that may be subject to Section 404 of the Clean Water Act. Information from this report may be used in preparing permit applications for future actions proposed in the study area. This report is intended to be reviewed by the USACE to verify their jurisdiction over wetlands and other waters of the U.S. in the study area.

Setting

Study Area

The study area is within the city limits of the City of Elk Grove, which is located in southeastern Sacramento County. The study area is comprised of three distinct project sites, encompassing a total of approximately 200.5 acres. The three sites include: (1) Waterman Road North; (2) Waterman Road South; and (3) Elk Grove Florin Road. The study area is located on the Elk Grove, CA 7.5' U.S. Geological Survey (USGS) Quadrangle. It falls within portions of Section 36 T7N R5E; Section 01 T6N R5E; Sections 31 and 32 T7N R6E; Sections 5, 6, 7, and 8 T6N R6E.

Regionally, the study area is located in the central portion of the southern Sacramento Valley, within the Sacramento Valley floristic province of the Great Central Valley (Baldwin et al., 2012). Historically, this region supported extensive marshes, riparian woodlands intermixed with oak woodland, vernal pools, and grasslands. Intensive agricultural and urban development has resulted in substantial changes to and conversions of these habitats. The remaining native vegetative communities exist now as isolated remnant patches within urban and agricultural landscapes. The study area is located within the eastern portion of the City of Elk Grove. Land uses within and adjacent to the study area consists of a mix of agriculture, open space/public parks, low- to high-density residential, commercial, and industrial. Within the study area, many areas appear to have been historically graded or otherwise disturbed.

The study area is situated on the broad, flat alluvial plain of the Sacramento River, and terrain is generally flat. Elevations of the study area range from approximately 44 to 71 feet above mean sea level. Climate is typically hot and sub-humid. Data from the Western Regional Climate Center for the Sacramento Executive Airport weather station indicates that average annual precipitation is 17.24 inches. The average maximum annual temperature is 73.6 degrees (F) and average minimum annual temperature is 48.1 degrees (F) (Western Regional Climate Center, 2018).

Soils

The *Custom Soil Resource Report for Sacramento County, California* (NRCS, 2019; included as **Appendix A**) shows 11 soil units occurring within the study area (**Table 1**). Three of these 11 soil units contain main components that are listed on the national hydric soils list for Sacramento County, California (NRCS, 2019). Six additional soil units contain minor components that are listed as hydric, but the main component is not hydric. A brief description of the soil map is provided below.

- **Bruella sandy loam, 0 to 2 percent slopes**, is not listed as hydric by the Natural Resources Conservation Service (NRCS) (NRCS, 2019). Included in this map are small inclusions of Kimball, Sanjoaquin, and Xerarents soils. The map unit composition is 85 percent Bruella and similar soils and 15 percent minor components. This unit consists of well drained sandy loam alluvial soils. Mapped areas are on terraces.
- **Dumps** is not listed as hydric by the NRCS (NRCS, 2019). A description of this soil unit is not available.
- **Durixeralfs, 0 to 1 percent slopes**, is listed as hydric by the NRCS (NRCS, 2019). Included in this map unit are small inclusions of Galt, Redding, Xerarents, and Unnamed, very shallow loamy soils. The Galt inclusion is listed as hydric by the NRCS, but the main Durixeralfs and similar soils are not. The map unit composition is 80 percent Durixeralfs and similar soils and 20 percent minor components. This unit consists of moderately drained clay loam alluvial soils. Mapped areas are on terraces.
- **Galt Clay, leveled, 0 to 1 percent slopes,** is listed as hydric by the NRCS (NRCS, 2019). Included in this map unit are small inclusions of Clear Lake, San Joaquin, Urban land, Unames, overburden/hardpan, and unnamed, rarely flooded soils. The main Galt component and Clear lake inclusion are both listed as hydric by the NRCS. The map unit composition is 85 percent Galt and similar soils and 15 percent minor components. This unit consists of moderately drained clay alluvial soils. Mapped areas are on terraces.
- **Galt clay, 0 to 1 percent slopes, MLRA 17**, is listed hydric by the NRCS (NRCS, 2019). Included in this map unit are small inclusions of Clear lake, Dierssen, and San Joaquin soils. The main Galt component and Clear Lake inclusion are both listed as hydric by the NRCS. The map unit composition is 85 percent Galt and similar soils and 15 percent minor components. This unit consists of somewhat poorly drained clay soils. Mapped areas are on basin floors on fan remnants.
- **Redding gravelly loam, 0 to 8 percent slopes, MLRA 17**, is listed as hydric by the NRCS (NRCS, 2019). Included in this map unit are small inclusions of Keyes, Corning, and Unnamed, ponded soils. The Unnamed, ponded soil is listed as hydric by the NRCS, but the main Redding gravelly loam soil is not. The map unit composition is 85 percent Redding and similar soils and 15 percent minor components. This unit consists of moderately drained gravelly loam alluvial soils. Mapped areas are on fan remnants.
- **San Joaquin silt loam, leveled, 0 to 1 percent slopes**, is listed as hydric by the NRCS (NRCS, 2019). Included in this map unit are small inclusions of Bruella, Durixeralfs, Galt, Hedge, Kimball, Xerarents, and Unnamed, rarely flooded soils. The Galt inclusion is listed as hydric by the NRCS, but the main San Joaquin silt loam is not. The map unit composition is 85 percent San Joaquin and similar soils and 15 percent minor components. This unit consists of moderately well drained silt loam alluvial soils. Mapped areas are on terraces.

- **San Joaquin silt loam, 0 to 3 percent slopes**, is listed as hydric by the NRCS (NRCS, 2019). Included in this map unit are small inclusions of Galt, Bruella, Hedge, Kimball, and Unnamed, rarely flooded soils. The Galt inclusion is listed as hydric by the NRCS, but the main San Joaquin silt loam is not. The map unit composition is 85 percent San Joaquin and similar soils and 15 percent minor components. This unit consists of moderately well drained silt loam alluvial soils. Mapped areas are on terraces.

- **San Joaquin-Galt complex, leveled, 0 to 1 percent slopes**, is listed as hydric by the NRCS (NRCS, 2019). Included in this map unit are small inclusions of Clear Lake, Durixeralfs, Xerarents, Kimball, and Unnames, rarely flooded soils. The Clear Lake inclusion is listed as hydric by the NRCS, as well as one of the main components, Galt. The map unit composition is 45 percent San Joaquin and similar soils, 40 percent Galt and similar soils, and 15 percent minor components. This unit consists of moderately well drained silty clay loam alluvium soils. Mapped areas are on terraces.

- **San Joaquin-Urban land complex, 0 to 2 percent slopes**, is listed as hydric by the NRCS (NRCS, 2019). Included in this map unit are small inclusions of Clear lake, Galt, Bruella, Kimball, Durxeralfs, and Xerarents soils. The Clear lake and Galt inclusions are listed as hydric by the NRCS, but neither of the two main components. The map unit composition is 50 percent San Joaquin and similar soils, 35 percent Urban land, and 15 percent minor components. This unit consist of moderately well drained loamy alluvial soils. Mapped areas are on terraces.

- **San Joaquin-Xerarents complex, leveled, 0 to 1 percent slopes**, is listed as hydric by the NRCS (NRCS, 2019). Included in this map unit are small inclusions of Clear lake, Columbia, Galt, Sailboat, Durixeralfs, Kimball, and Unnamed, rarely flooded soils. The Clear Lake, Columbia, Galt, and Sailboat inclusions are listed as hydric, but neither of the two main components are. The map unit composition is 25 percent San Joaquin and similar soils, 40 percent Xerarents and similar soils, and 15 percent minor components. This unit consists of moderately well to well drained loamy alluvial soils. Mapped areas are on terraces.

TABLE 1
STUDY AREA SOIL UNITS

Soil Unit	Location	Hydric
111: Bruella sandy loam, 0 to 2 percent slopes	S	N
136: Dumps	Waterman Rd N	N
137: Durixeralfs, 0 to 1 percent slopes	Waterman Rd N; Waterman Rd S	Y*
151: Galt clay, leveled, 0 to 1 percent slopes	Waterman Rd S	Y
152: Galt clay, 0 to 1 percent slopes, MLRA 17	Waterman Rd S	Y
198: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17	Waterman Rd N; Waterman Rd S	Y*
213: San Joaquin silt loam, leveled, 0 to 1 percent slopes	Waterman Rd N; Waterman Rd S; Elk Grove Florin Rd	Y*
214: San Joaquin silt loam, 0 to 3 percent slopes	Waterman Rd S; Elk Grove Florin Rd	Y*
217: San Joaquin-Galt complex, leveled, 0 to 1 percent slopes	Waterman Rd S	Y
219: San Joaquin-Urban land complex, 0 to 2 percent slopes	Elk Grove Florin Rd	Y*
221: San Joaquin-Xerarents complex, leveled, 0 to 1 percent slopes	Waterman Rd S	Y*

NOTE:
* Soil unit contains minor component(s) that is (are) hydric, but the major component of the soil unit is not hydric.

SOURCE: NRCS, 2019

Hydrology

Surface waters in the study area are part of the Morrison Creek Stream Group, and include Laguna Creek and tributaries. Deer Creek is southeast of the study area, parallel to the Cosumnes River. However, all of the drainages in the study area drain into the Morrison Creek Stream Group, then eventually into the Sacramento River. Most of the study area is located in the Laguna Creek watershed (Hydrologic Unit Code [HUC] 180201630403), which is part of the Lower Sacramento Subbasin (HUC 18020163). The southern section of the Waterman Road South site is in the Lower Deer Creek watershed (HUC 180400130803). Laguna Creek, the main creek that flows through the City of Elk Grove, has been altered by development. There have been channels, levees, and culverts installed to alleviate the possibility of flooding, as well as to accommodated different development scenarios.

Vegetation

Plant communities are assemblages of plant species that occur together in the same area, and are defined by species composition and relative abundance. There were seven vegetation communities identified within the study area. Upland plant communities within the study area include annual grassland, riparian, developed/ornamental and agricultural. Plant communities and habitats associated with aquatic settings include seasonal wetland, vernal swale, and vernal pool. Aquatic communities were classified using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin Classification) (Federal Geographic Data Committee, 2013). The characteristics of aquatic plant communities and habitats are described briefly below and in more detail in Section 4.1.

Upland Plant Communities and Habitats

Agricultural

Agricultural lands occur interspersed with rural residential areas in the study area. This vegetation community consists of pastures (comprised of annual grassland species), fallow fields, and areas used for row crops, primarily strawberries (*Fragaria × ananassa)*, with dirt/gravel strips around the field edges for vehicle access. In addition to the agricultural crops identified within this habitat, plant species include non-native annual grasses, prickly lettuce (*Lactuca serriola*), yellow star-thistle (*Centaurea solstitialis*), and field bindweed (*Convolvulus arvensis*).

Annual Grassland

This vegetation community, along with developed/ornamental, comprises the majority of the study area, and is interspersed with large sections of developed/ornamental vegetation community and numerous wetland habitats. Dominant plant species include non-native grasses such as soft chess (*Bromus hordeaceus*), medusa head grass (*Elymus caput-medusae*), wild oat (*Avena fatua*), Italian ryegrass (*Festuca perennis*), foxtail barley (*Hordeum murinum*), and rat-tail six-weeks fescue (*Festuca myuros*); non-native weedy herbaceous species including long-beak stork's-bill (*Erodium botrys*), rose clover (*Trifolium hirtum*), smooth cat's ear (*Hypochaeris glabra*), spring

vetch (*Vicia sativa*), and yellow star-thistle; and native herbaceous species such as brodiaea (*Brodiaea* sp.) and spikeweed (*Centromadia fitchii*).

Developed/Ornamental

This vegetation community includes all paved roads, driveways, buildings, and unpaved shoulders as well as landscaped areas including public parks. Vegetation within this community is dominated by non-native ornamentals, including Brazilian pepper tree (*Schinus terebinthifolius*), ornamental pines *(Pinus* sp.), lily of the Nile (*Agapanthus africanus*), Italian cypress (*Cupressus sempervirens*), oleander (*Nerium oleander*), sweet gum (*Liquidambar styraciflua*), and callery pear (*Pyrus calleryana*). Within private yards along the study area roadways much of the vegetation consists of regularly mowed annual grasses.

Riparian

This habitat was identified along both banks of Laguna Creek east of Waterman Road in the northern portion of the Waterman Road North site. The riparian bands are bounded by annual grassland to the north and south and are bisected by Laguna Creek. Overstory species observed within this habitat include valley oak (*Quercus lobata*) and willow (*Salix* sp). The understory is predominantly Himalayan blackberry (*Rubus armeniacus*). The riparian habitat in the study area is associated with Laguna Creek, but is not considered a water of the U.S. due to a lack of wetland indicators.

Aquatic Plant Communities and Habitats

Seasonal Wetland

Seasonal wetlands are interspersed through the annual grassland habitat east of Waterman Road in the Waterman Road North site. Vegetation in the seasonal wetlands along Waterman Road is dominated by Italian ryegrass, lesser hawkbit (*Leontodon saxatilis*), Mediterranean barley (*Hordeum marinum* ssp. *gussoneanum*), toad rush (*Juncus bufonius*), and hyssop loosestrife (*Lythrum hyssopifolia*). There was no surface water in the seasonal wetlands along Waterman Road at the time of the field survey.

Vernal Swale

Since swales convey rather than pond water like seasonal wetlands, they are dominated by hydrophytic (water loving) plants typical of wetlands with relatively short hydroperiods including Italian ryegrass and Mediterranean barley. The swales in the study area do not support a prevalence of vernal pool indicator plant species, although they are often found in close associated with vernal pools.

Vernal Pool

Vernal pools are interspersed with annual grassland west of Waterman Road in the Waterman Road North site. Vegetation is dominated by common spike rush, annual hairgrass (*Deschampsia danthonioides*), Italian ryegrass, Carter's buttercup (*Ranunculus bonariensis*), coyote thistle

(*Eryngium castrense*), woolly marbles (*Psilocarphus brevissimus*), and vernal pool popcorn-flower (*Plagiobothrys stipitatus*).

Riverine

Riverine habitats are distinguished by intermittent or continually running water, and occur in association with a variety of terrestrial habitats. Laguna Creek, a perennially flowing channel, is the dominant riverine habitat feature within the study area. In addition to Laguna Creek, Elk Grove Creek crosses the Waterman Road South and Elk Grove Florin Road study areas, and a number of agricultural drainage ditches occur in the study area. Laguna Creek supports sporadic occurrences of freshwater emergent wetland species within the ordinary high water mark (OHWM) such as common cattail (*Typha latifolia*) and sedge (*Carex* sp.). In the study area, Elk Grove Creek has been channelized and is concrete lined, likely for flood control purposes. Some ruderal weedy species were observed growing within the OHWM of Elk Grove Creek. The agricultural ditches are for the most part unvegetated, with ruderal weedy species observed on the banks of the ditches, outside of the OHWM.

Methodology

Regulatory Setting

2015 Clean Water Rule

In 2015, the U.S. Army Corps of Engineers (USACE) and the Environmental Protection Agency (EPA) issued the Clean Water Rule detailing the process for determining Clean Water Act (CWA) jurisdiction over waters of the United States (WOTUS). The rule is currently in effect in California and 21 other states. The 2015 Clean Water Rule includes a detailed process for determining which areas may be subject to jurisdiction under the Clean Water Act, and broadly classifies features into three categories: those that are jurisdictional by rule (Category A below), those that excluded by rule (Category C below) and those features that require a "significant nexus test" (Category B below).

The significant nexus test includes consideration of hydrologic and ecologic factors. For circumstances such as those described in Category B below, the significant nexus test would take into account physical indicators of flow (evidence of an ordinary high water mark [OHWM]), if a hydrologic connection to a Traditionally Navigable Water (TNW) exists, and if the aquatic functions of the water body have a significant effect (more than speculative or insubstantial) on the chemical, physical, and biological integrity of a TNW. The USACE and EPA will apply the significant nexus standard to assess the flow characteristics and functions of a potential WOTUS to determine if it significantly affects the chemical, physical, and biological integrity of the downstream TNW.

2015 Clean Water Rule Key Points Summary

(A) The USACE and EPA will assert jurisdiction over the following waters (jurisdictional by rule):

- TNWs.
- Interstate waters and wetlands.
- Territorial seas.
- Impoundments of waters (reservoirs, etc.).
- Tributaries with the following attributes:
  - Contributes flow to a TNW.
  - Contain bed, banks, and ordinary high water mark.
  - Can be natural, man-altered, or man-made.
  - Can have constructed breaks (culverts, pipes, etc.) or natural breaks.
- Waters "adjacent" to TNW and their tributaries, including:
  - Waters that are bordering, contiguous, or neighboring a TNW, interstate water, territorial sea, impoundment or tributary. Includes waters separated from other ''waters of the United States'' by constructed dikes or barriers, natural river berms, beach dunes or similar.
  - Waters within 100 feet of the OHWM of a TNW, interstate water, territorial sea, impoundment or tributary.
  - Waters within the 100-year floodplain and within 1,500 feet of a TNW, interstate water, territorial sea, impoundment or tributary.
  - Waters within 1,500 feet of the high tide line or OHWM of a TNW or territorial sea.

(B) The USACE and EPA will decide jurisdiction over the following waters based on a fact-specific analysis to determine whether they have a significant nexus with a TNW unless excluded by rule (significant nexus test):

- Vernal pools that have a significant nexus to a TNW or territorial sea.
- Waters within the 100-year floodplain of a TNW, interstate water or territorial sea.
- Waters within 4,000 feet of the high tide line or OHWM of a TNW, interstate water, territorial sea, impoundment or tributary.

(C) The USACE and EPA will not assert jurisdiction over the following features (excluded by rule):

- Waste treatment facilities including basins and percolation ponds.
- Prior converted cropland.

- The following types of ditches:
  - Ephemeral ditches that are not a relocated tributary or excavated in a tributary.
  - Intermittent ditches that are not a relocated tributary, excavated in a tributary, or drain wetlands.
  - Ditches that do not flow, either directly or through another water, into a TNW, interstate waters, territorial sea.
- Artificially irrigated areas that would revert to upland.
- Artificial, constructed lakes and ponds created in dry land such as stock watering ponds, irrigation ponds, settling basins, fields flooded for rice growing, cooling ponds
- Swimming pools or reflecting pools in dry land.
- Small ornamental waters created in dry land.
- Water-filled depressions created in dry land from mining or construction activities including pits for fill, sand, or gravel.
- Erosional features including gullies and rills that are not tributaries, non-wetland swales and constructed grass waterways.
- Puddles.
- Groundwater.
- Stormwater control features created in dry land.
- Wastewater recycling structures created in dry land including detention and retention basins, groundwater recharge basins, percolation ponds and water distributary structures.

Significant Nexus

The EPA and the USACE have defined the significant nexus standard as follows:

1. A significant nexus analysis assesses the flow characteristics and functions of the tributary itself and the functions performed by all wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of downstream traditional navigable waters;

2. Significant nexus includes consideration of hydrologic and ecologic factors including:
   a. Volume, duration, and frequency of flow, including consideration of certain physical characteristics of the tributary,
   b. Proximity to the traditional navigable water,
   c. Size of the watershed,
   d. Average annual rainfall,
   e. Average annual winter snow pack,

f. Potential of tributaries to carry pollutants and flood waters to traditional navigable waters,

g. Provision of aquatic habitat that supports a traditional navigable water,

h. Potential of wetlands to trap and filter pollutants or store flood waters, and

i. Maintenance of water quality in traditional navigable waters.

Field Survey Methods

The aquatic resources delineation was conducted within the study area by ESA biologists Joshua Boldt and Joseph Sanders on May 3 and 8, 2018, and January 16, 2019. During the surveys, the biologists walked the study area where entry was permitted, surveying for all potential waters of the U.S. Prior to field surveys, satellite imagery and air photos were analyzed to locate potential features. There were a number of locations within the study area that were not accessible to biologists during the field surveys including most private properties throughout the study area. Biologists used a combination of aerial interpretation and binoculars to survey habitat within these locations.

The delineation used the "Routine Determination Method" as described in the *1987 Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987), hereafter called the "1987 Manual." The 1987 Manual was used in conjunction with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (USACE, 2008a), hereafter called the "Arid West Supplement." For areas where the 1987 Manual and the Arid West Supplement differ, the Arid West Supplement was followed. In addition, the *Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE, 2008b) was referenced to assist in identifying the lateral limits of the stream channels in the study area.

Prior to field surveys, wetland spatial data was obtained from the USACE Six County Aquatic Resource Inventory (SCARI) (USACE, 2011). The boundaries of these features were then examined in the field to determine if they were present in the study area. Additional aquatic features in the study area not identified in the USACE SCARI that were potentially jurisdictional were mapped in the field using a handheld GPS unit with sub-meter accuracy. These aquatic features were classified based on their biological communities and hydroperiods.

Three positive parameters must normally be present for an area to be considered a wetland: 1) a dominance of wetland vegetation, 2) presence of hydric soils, and 3) presence of wetland hydrology. Presence or absence of positive indicators for wetland vegetation, soils, and hydrology was assessed per the 1987 Manual and Arid West Supplement guidelines. Data points were taken within suspected wetlands and a paired point taken (where needed) in nearby uplands. Data points were recorded on Arid West wetland determination data forms, which are provided as **Appendix B**.

At each data point, a visual assessment of the dominant plant species within a 6-foot radius was made. Dominant species were assessed using the recommended "50/20" rule per the Arid West

Supplement. Plants were identified to species using *The Jepson Manual: Vascular Plants of California, second edition* (Baldwin et al., 2012). The *National Wetland Plant List: 2016 Wetland Ratings* (Lichvar et al., 2016) was used to determine the wetland indicator status of all plants. Soils at each data point were characterized by color, texture, organic matter accumulation, and the presence or absence of hydric soil indicators. Color was described using the *Munsell Soil Color Book* (Munsell Color, 2015). Presence of wetland hydrology was determined at each data point by presence of one or more of the primary and/or secondary indicators, per guidance of the Arid West Supplement.

For "other waters of the U.S." to be considered jurisdictional, these features must exhibit a defined bed and bank and an ordinary high water mark (OHWM). Drainages with obvious bed and banks and OHWM were characterized by noting vegetation, geomorphology (e.g., incision) and hydrologic characteristics, and by measuring representative channel bank cross-sections to obtain OHWM. Representative channel cross-section OHWM was recorded in the field and used to map stream channels in GIS, along with high-resolution aerial photographs and detailed topographic data.

Mapping and Acreage Calculations

All features, including sample points, wetland boundaries, and channel courses were recorded using a global positioning system (GPS) with sub-meter accuracy where access was permitted and potential waters in inaccessible areas were mapped using aerial photographs. In the office, data from sample points and wetland boundaries were downloaded from the GPS unit and mapped using GIS software on an overlay of both topography and geo-referenced aerial photography. GPS-determined wetland boundaries and data points were visually confirmed. Acreage of wetland and waters of the U.S. polygons, and the length of linear features were determined using ArcGIS.

Results

The aquatic resources delineation identified approximately 1.591 acres of aquatic resources within the study area that may be subject to regulation under Section 404 of the CWA. Aquatic resources within the study area consist of palustrine habitat including seasonal wetland, vernal pool, and vernal swale along with intermittent and perennial channel habitats. Aquatic community and habitat were classified using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin Classification) (Federal Geographic Data Committee, 2013). Details of the aquatic resources within the study area are presented in **Table 2** and described below. **Figures 3-1** through **3-5** show the location and extent of the aquatic resources within the study area. The Aquatic Resources Spreadsheet is provided in **Appendix C** Study area photographs are provided in **Appendix D**.

TABLE 2
AQUATIC RESOURCES WITHIN THE PROJECT STUDY AREA

Map ID	Wetland Type – Cowardin Classification	Total Acres
Wetlands		
Seasonal Wetland		
SW-1	Seasonal Wetland (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.014
SW-2	Seasonal Wetland (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.017
SW-3	Seasonal Wetland (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.004
SW-4	Seasonal Wetland (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.020
SW-5	Seasonal Wetland (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.021
SW-6	Seasonal Wetland (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.044
SW-7	Seasonal Wetland (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.011
SW-8	Seasonal Wetland (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.038
SW-9	Seasonal Wetland (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.033
SW-10	Seasonal Wetland (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.021
	Seasonal Wetland Total:	**0.223**
Vernal Pool		
VP-1	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.037
VP-2	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.021
VP-3	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.005
VP-4	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.038
VP-5	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.048
VP-6	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.030
VP-7	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.039
VP-8	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.015
VP-9	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.064
VP-10	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.015
VP-11	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.022
VP-12	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.115
VP-13	Vernal Pool (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.005
	Vernal Pool Total:	**0.454**
Vernal Swale		
VS-1	Vernal Swale (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.003
VS-2	Vernal Swale (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.003
VS-3	Vernal Swale (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.018
VS-4	Vernal Swale (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.039
VS-5	Vernal Swale (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.010
VS-6	Vernal Swale (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.014
VS-7	Vernal Swale (Isolated) – Palustrine Emergent Wetland (Seasonally Flooded)	0.032
	Swale Total:	**0.119**

TABLE 2
AQUATIC RESOURCES WITHIN THE PROJECT STUDY AREA

Map ID	Wetland Type – Cowardin Classification	Total Acres
Other Waters of the U.S.		
Perennial Channel		
R-1 (Laguna Creek)	Perennial Channel – Riverine Perennial	0.458
	Perennial Channel Total:	**0.458**
Intermittent Channel		
R-2 (Elk Grove Creek)	Intermittent Channel – Riverine Intermittent	0.186
R-6 (Elk Grove Creek)	Intermittent Channel – Riverine Intermittent	0.157
	Intermittent Channel Total:	**0.343**
	Total Area of Jurisdictional Features:	**1.597**

SOURCE: ESA, 2019

Wetlands

Seasonal Wetland/Palustrine Emergent Wetland (Seasonally Flooded)

Seasonal wetlands are ephemeral wetlands that pond water or remain saturated for extended periods during a portion of the year, often throughout the wet season, then dry up in spring or early summer. The seasonal wetlands within the study area are classified as *Palustrine Emergent Wetland (Seasonally Flooded)* using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin Classification) (Federal Geographic Data Committee, 2013). Within the study area seasonal wetlands occur in depressions or low areas within annual grassland habitat with concentrations along the east side of Waterman Road in the Waterman Road North study area (photos 2 and 4 in Appendix D). Vegetation in the seasonal wetlands along Waterman Road is dominated by Italian ryegrass (*Festuca perennis*, FAC[1]), lesser hawkbit (*Leontodon saxatilis*, FACU), Mediterranean barley (*Hordeum marinum* ssp. *gussoneanum*, FAC), and toad rush (*Juncus bufonius*, FACW). There was no surface water in the seasonal wetlands along Waterman Road at the time of the field survey. Sample points 1 and 6 reflect the conditions observed in the seasonal wetlands along Waterman Road North during the field investigation and the surrounding upland areas are represented by sample points 2, 3, 4, 5, and 7.

Ten seasonal wetlands (0.223 acre) were identified in the study area (SW-1 through SW-10). As discussed above, there was no surface water or water table present at the time of the delineation in the Waterman Road North seasonal wetlands. However, drainage patterns (sample point 1), biotic crust (sample point 6), and oxidized rhizospheres along living roots (sample points 1 and 6) were the primary indicators of wetland hydrology in these wetlands, and both sites exhibited soils with

[1] FAC = facultative (occurs in wetlands and non-wetlands); FACW = facultative wetland (usually occurs in wetlands, but may occur in non-wetlands); OBL = obligate wetland (almost always occurs in wetlands under natural conditions)

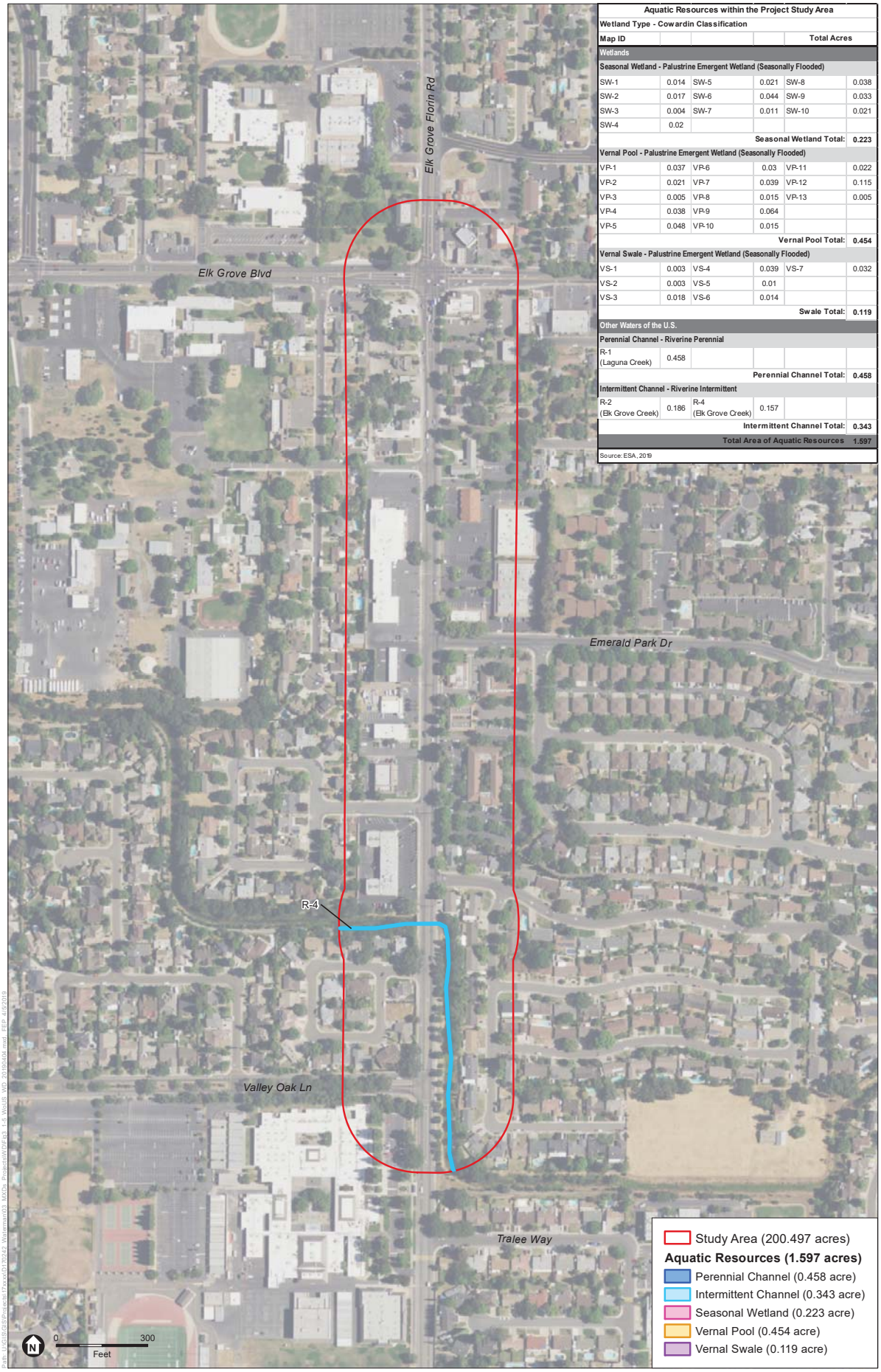
a depleted matrix and substantial redoximorphic concentrations starting within the upper 12 inches of the soil. These seasonal wetlands do not have a significant nexus to a TNW and are isolated aquatic features. Isolated wetlands are not considered waters of the U.S.

Vernal Pool/Palustrine Emergent Wetland (Seasonally Flooded)

Vernal pools are a second type of ephemeral wetlands within the study area. Vernal pools within the study area are classified as *Palustrine Emergent Wetlands (Seasonally Flooded)* using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin Classification) (Federal Geographic Data Committee, 2013). This wetland type is characterized by shallow depressions that pond water throughout the winter and spring due to a restrictive soil layer that acts as a barrier preventing water percolation to deeper soil layers. Vernal pools are found within a larger grassland vegetation community and typically collect rainwater runoff from the adjacent upland areas. The pools are very different from the nearby upland grasslands both in their topography and soil characteristics as well as with regard to species composition. The annual cycle of inundation and drying of vernal pools has facilitated the evolution of plant species uniquely adapted to these conditions. Vernal pools are interspersed with annual grassland west of Waterman Road in the Waterman Road North site. Vegetation is dominated by common spike rush (*Eleocharis macrostachya*, FACW), annual hairgrass (*Deschampsia danthonioides*, FACW), Italian ryegrass, Carter's buttercup (*Ranunculus bonariensis*, OBL), coyote thistle (*Eryngium castrense*, OBL), woolly marbles (*Psilocarphus brevissimus*, FACW), and vernal pool popcorn-flower (*Plagiobothrys stipitatus*, FACW).

Thirteen vernal pools (0.454 acre) were identified in the study area (VP-1 through VP-13). Sample points 8 and 9 reflect the conditions observed in the vernal pools during the field investigation and the surrounding upland areas are represented by sample points 2, 3, 4, 5, and 7. Soils exhibited a depleted matrix either throughout the 0-18-inch profile or at least within the surface four inches and prominent redoximorphic concentrations were common in the matrix, starting near the soil surface. Oxidized rhizospheres were present along living roots within the surface 2-4 inches for all of the vernal pool soils observed. In addition, a biotic crust was observed in some pools. Water was observed ponding within the larger vernal pools during the field surveys. These vernal pools do not have a significant nexus to a TNW and are isolated aquatic features. Isolated wetlands are not considered waters of the U.S.

The vernal pool complexes are connected by swales that tend to be more shallow and narrow than the pools. The vernal pool wetland type is differentiated from the seasonal wetland type based on species composition and hydrology. Typical vernal pool species are absent from seasonal wetlands and vice versa. Ponded water in the vernal pools arrives exclusively from rainfall while seasonal wetlands receive runoff from adjacent agricultural fields as a primary water source. Representative photos of vernal pools are photos 6, 7, and 8 of Appendix D.



Aquatic Resources within the Project Study Area					
Wetland Type - Cowardin Classification					
Map ID					Total Acres
Wetlands					
Seasonal Wetland - Palustrine Emergent Wetland (Seasonally Flooded)					
SW-1	0.014	SW-5	0.021	SW-8	0.038
SW-2	0.017	SW-6	0.044	SW-9	0.033
SW-3	0.004	SW-7	0.011	SW-10	0.021
SW-4	0.02				
				Seasonal Wetland Total:	0.223
Vernal Pool - Palustrine Emergent Wetland (Seasonally Flooded)					
VP-1	0.037	VP-6	0.03	VP-11	0.022
VP-2	0.021	VP-7	0.039	VP-12	0.115
VP-3	0.005	VP-8	0.015	VP-13	0.005
VP-4	0.038	VP-9	0.064		
VP-5	0.048	VP-10	0.015		
				Vernal Pool Total:	0.454
Vernal Swale - Palustrine Emergent Wetland (Seasonally Flooded)					
VS-1	0.003	VS-4	0.039	VS-7	0.032
VS-2	0.003	VS-5	0.01		
VS-3	0.018	VS-6	0.014		
				Swale Total:	0.119
Other Waters of the U.S.					
Perennial Channel - Riverine Perennial					
R-1 (Laguna Creek)	0.458				
				Perennial Channel Total:	0.458
Intermittent Channel - Riverine Intermittent					
R-2 (Elk Grove Creek)	0.186	R-4 (Elk Grove Creek)	0.157		
				Intermittent Channel Total:	0.343
				Total Area of Aquatic Resources	1.597

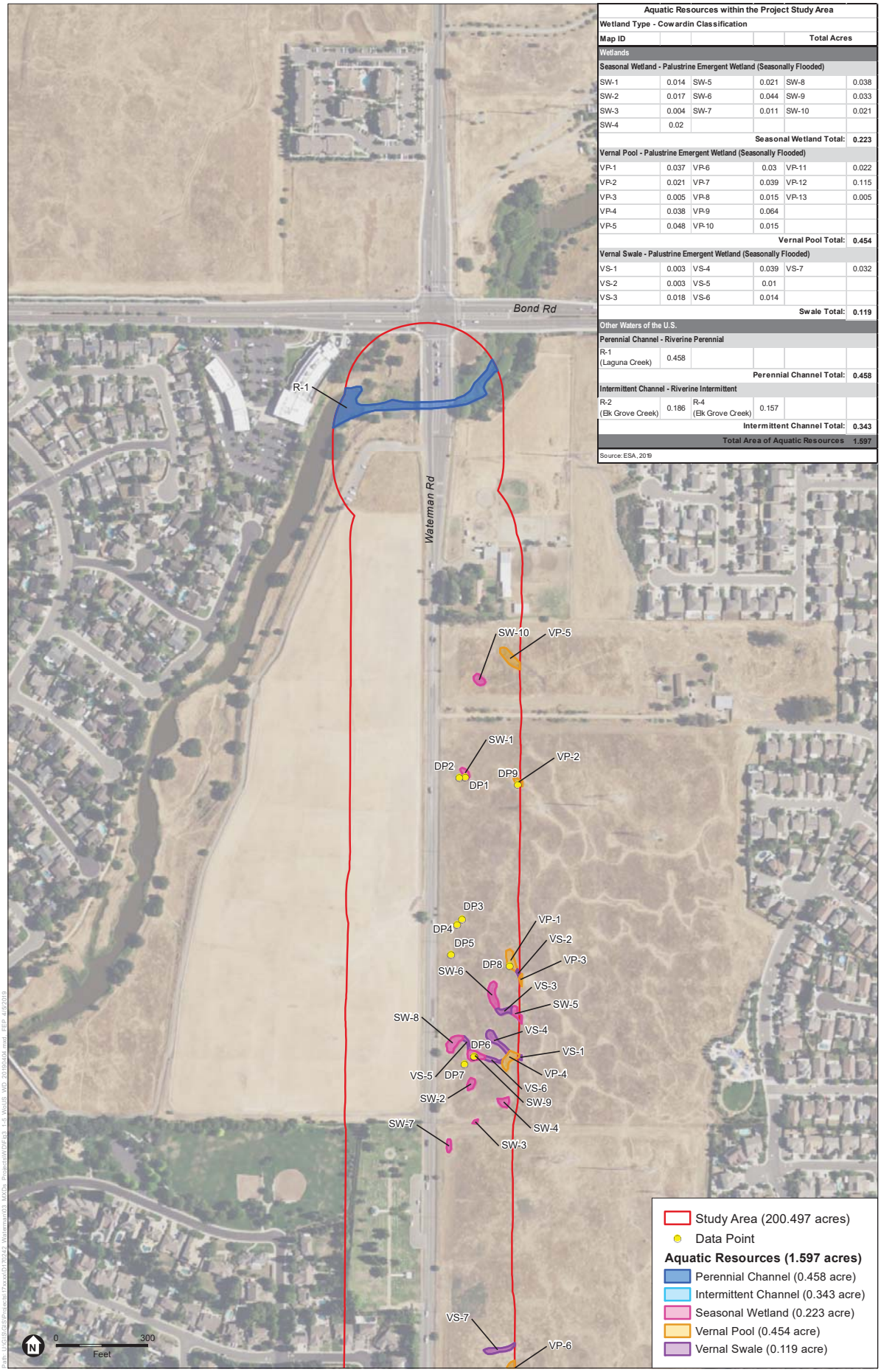
Source: ESA, 2019

SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3-1
Aquatic Resources Delineation Map

ESA



Aquatic Resources within the Project Study Area

Wetland Type - Cowardin Classification

Map ID					Total Acres
Wetlands					
Seasonal Wetland - Palustrine Emergent Wetland (Seasonally Flooded)					
SW-1	0.014	SW-5	0.021	SW-8	0.038
SW-2	0.017	SW-6	0.044	SW-9	0.033
SW-3	0.004	SW-7	0.011	SW-10	0.021
SW-4	0.02				
				Seasonal Wetland Total:	**0.223**
Vernal Pool - Palustrine Emergent Wetland (Seasonally Flooded)					
VP-1	0.037	VP-6	0.03	VP-11	0.022
VP-2	0.021	VP-7	0.039	VP-12	0.115
VP-3	0.005	VP-8	0.015	VP-13	0.005
VP-4	0.038	VP-9	0.064		
VP-5	0.048	VP-10	0.015		
				Vernal Pool Total:	**0.454**
Vernal Swale - Palustrine Emergent Wetland (Seasonally Flooded)					
VS-1	0.003	VS-4	0.039	VS-7	0.032
VS-2	0.003	VS-5	0.01		
VS-3	0.018	VS-6	0.014		
				Swale Total:	**0.119**
Other Waters of the U.S.					
Perennial Channel - Riverine Perennial					
R-1 (Laguna Creek)	0.458				
				Perennial Channel Total:	**0.458**
Intermittent Channel - Riverine Intermittent					
R-2 (Elk Grove Creek)	0.186	R-4 (Elk Grove Creek)	0.157		
				Intermittent Channel Total:	**0.343**
				Total Area of Aquatic Resources	**1.597**

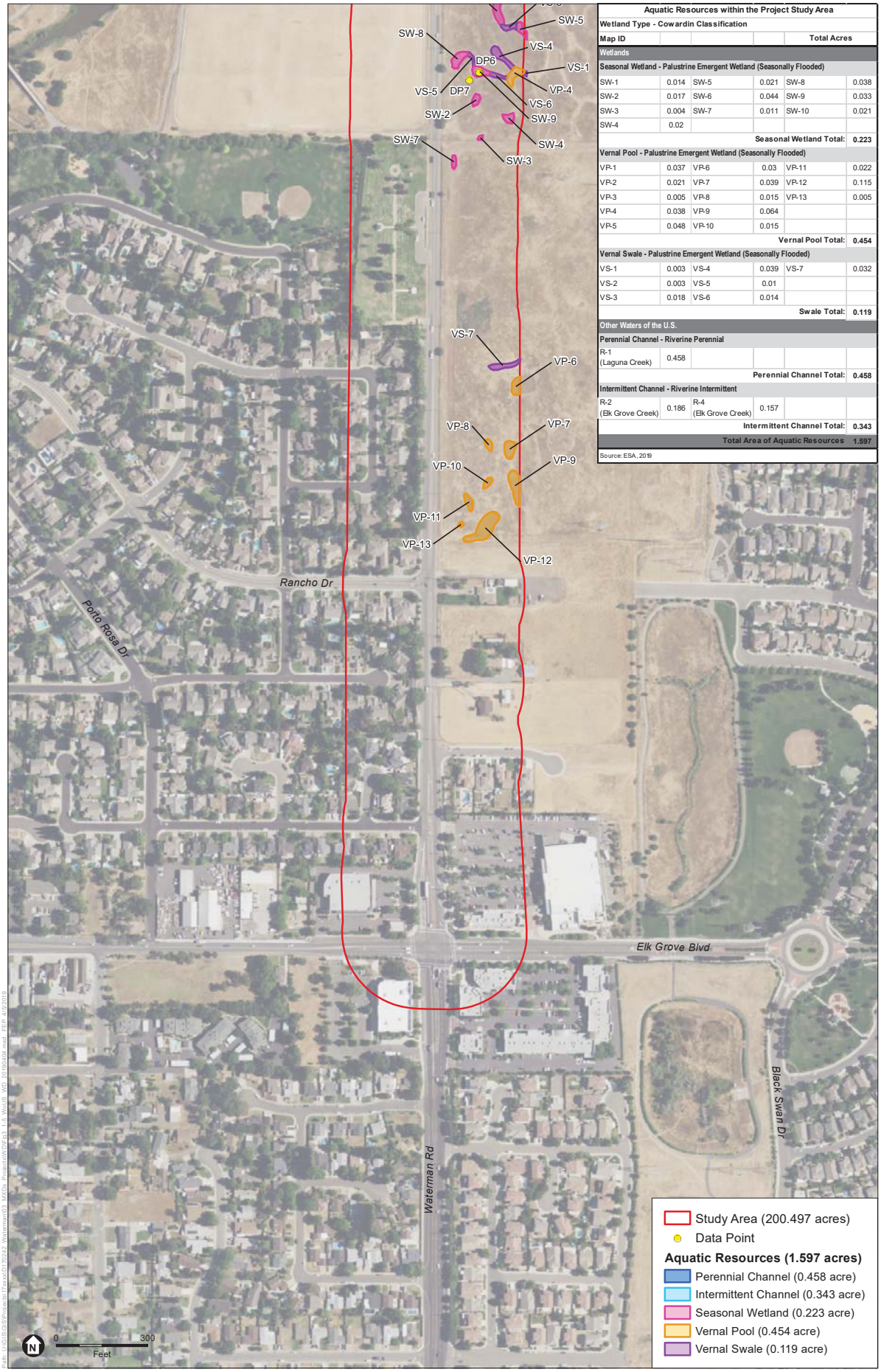
Source: ESA, 2019

SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3-2
Aquatic Resources Delineation Map

ESA



Aquatic Resources within the Project Study Area					
Wetland Type - Cowardin Classification					
Map ID					Total Acres
Wetlands					
Seasonal Wetland - Palustrine Emergent Wetland (Seasonally Flooded)					
SW-1	0.014	SW-5	0.021	SW-8	0.038
SW-2	0.017	SW-6	0.044	SW-9	0.033
SW-3	0.004	SW-7	0.011	SW-10	0.021
SW-4	0.02				
				Seasonal Wetland Total:	0.223
Vernal Pool - Palustrine Emergent Wetland (Seasonally Flooded)					
VP-1	0.037	VP-6	0.03	VP-11	0.022
VP-2	0.021	VP-7	0.039	VP-12	0.115
VP-3	0.005	VP-8	0.015	VP-13	0.005
VP-4	0.038	VP-9	0.064		
VP-5	0.048	VP-10	0.015		
				Vernal Pool Total:	0.454
Vernal Swale - Palustrine Emergent Wetland (Seasonally Flooded)					
VS-1	0.003	VS-4	0.039	VS-7	0.032
VS-2	0.003	VS-5	0.01		
VS-3	0.018	VS-6	0.014		
				Swale Total:	0.119
Other Waters of the U.S.					
Perennial Channel - Riverine Perennial					
R-1 (Laguna Creek)	0.458				
				Perennial Channel Total:	0.458
Intermittent Channel - Riverine Intermittent					
R-2 (Elk Grove Creek)	0.186	R-4 (Elk Grove Creek)	0.157		
				Intermittent Channel Total:	0.343
				Total Area of Aquatic Resources	1.597

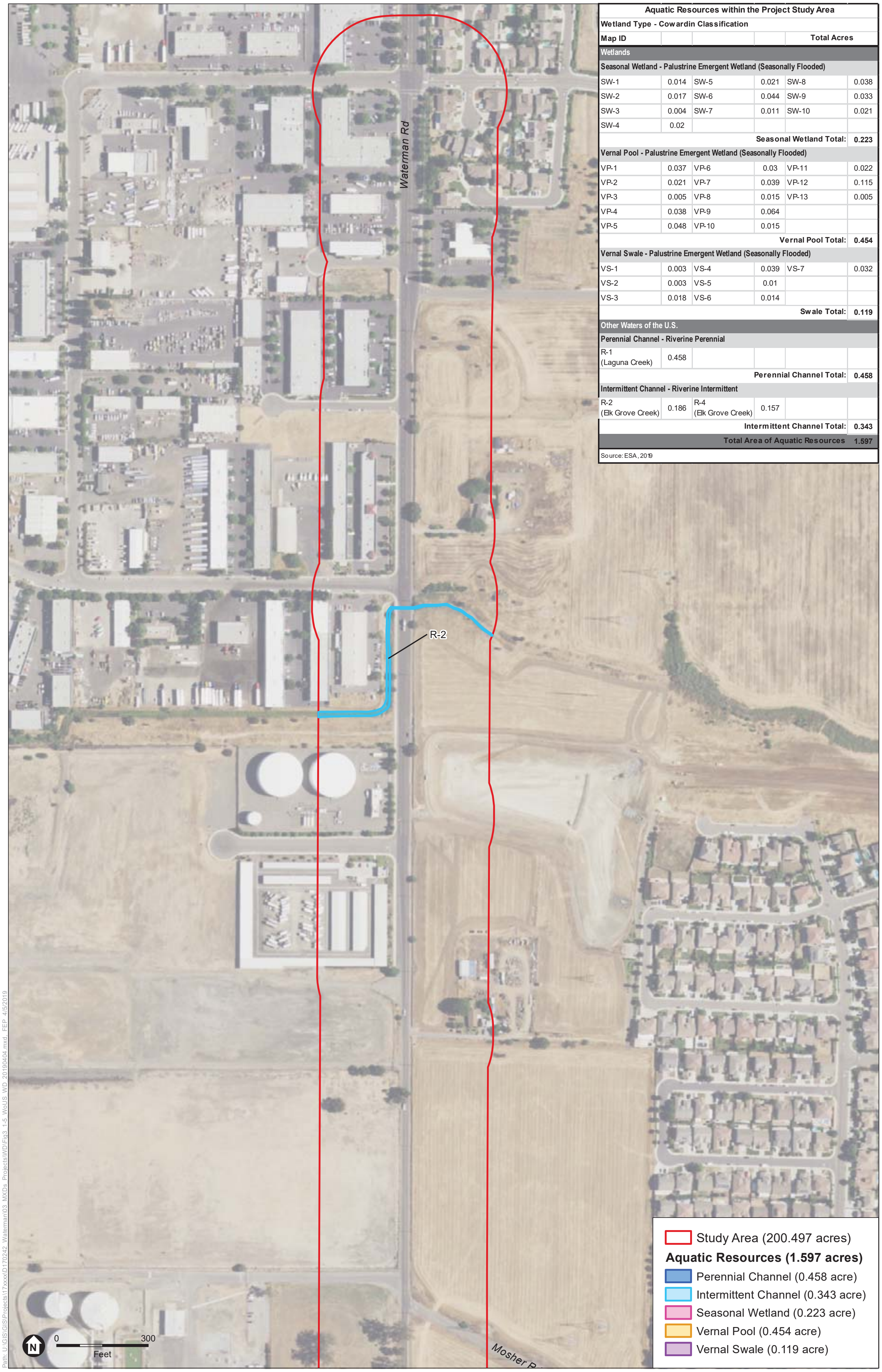
Source: ESA, 2019

SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3-3
Aquatic Resources Delineation Map

ESA



Aquatic Resources within the Project Study Area

Wetland Type - Cowardin Classification					
Map ID				**Total Acres**	
Wetlands					
Seasonal Wetland - Palustrine Emergent Wetland (Seasonally Flooded)					
SW-1	0.014	SW-5	0.021	SW-8	0.038
SW-2	0.017	SW-6	0.044	SW-9	0.033
SW-3	0.004	SW-7	0.011	SW-10	0.021
SW-4	0.02				
				Seasonal Wetland Total:	**0.223**
Vernal Pool - Palustrine Emergent Wetland (Seasonally Flooded)					
VP-1	0.037	VP-6	0.03	VP-11	0.022
VP-2	0.021	VP-7	0.039	VP-12	0.115
VP-3	0.005	VP-8	0.015	VP-13	0.005
VP-4	0.038	VP-9	0.064		
VP-5	0.048	VP-10	0.015		
				Vernal Pool Total:	**0.454**
Vernal Swale - Palustrine Emergent Wetland (Seasonally Flooded)					
VS-1	0.003	VS-4	0.039	VS-7	0.032
VS-2	0.003	VS-5	0.01		
VS-3	0.018	VS-6	0.014		
				Swale Total:	**0.119**
Other Waters of the U.S.					
Perennial Channel - Riverine Perennial					
R-1 (Laguna Creek)	0.458				
				Perennial Channel Total:	**0.458**
Intermittent Channel - Riverine Intermittent					
R-2 (Elk Grove Creek)	0.186	R-4 (Elk Grove Creek)	0.157		
				Intermittent Channel Total:	**0.343**
				Total Area of Aquatic Resources	**1.597**

Source: ESA, 2019

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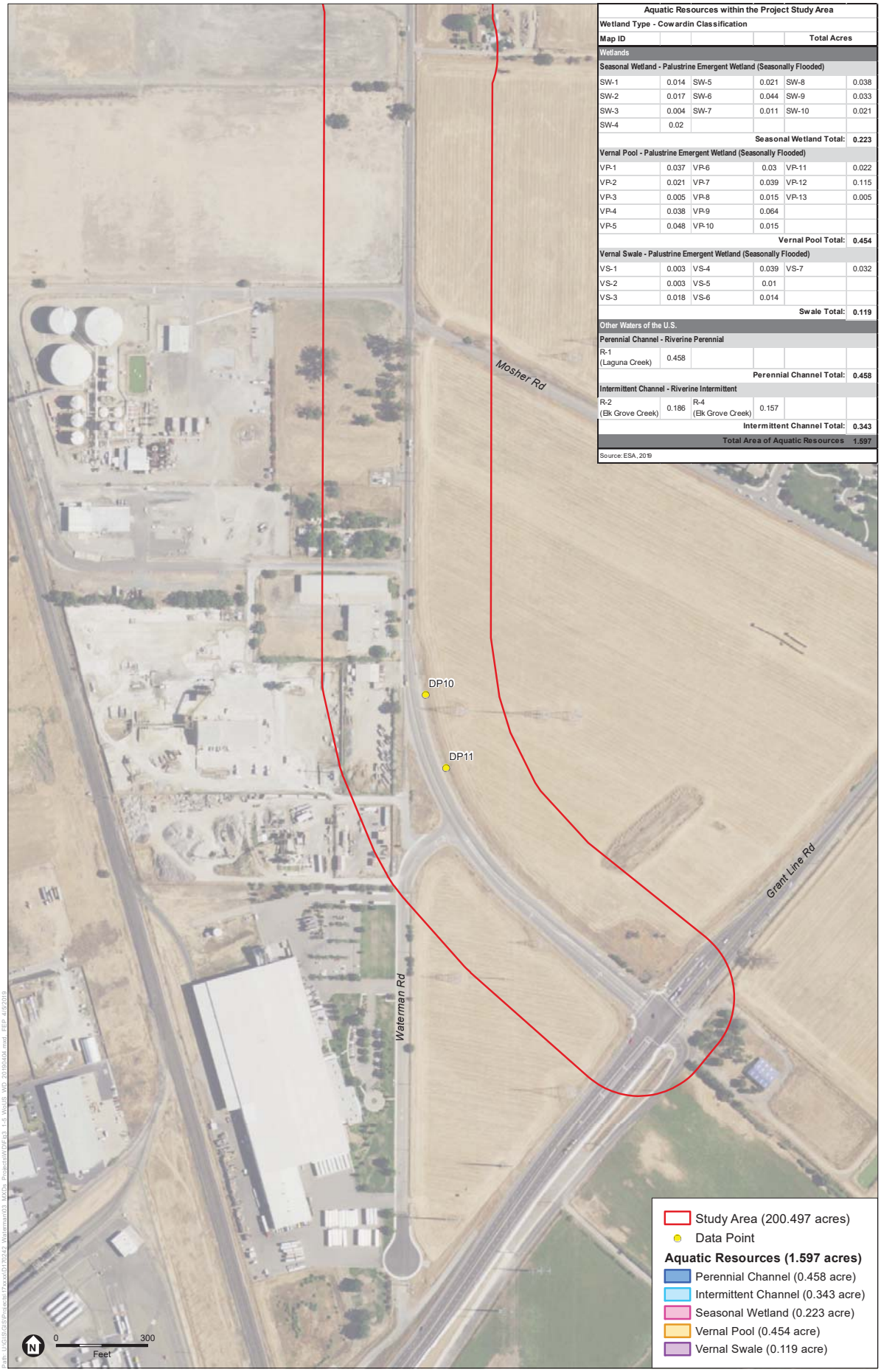
SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3-4
Aquatic Resources Delineation Map

ESA



Aquatic Resources within the Project Study Area					
Wetland Type - Cowardin Classification					
Map ID					Total Acres
Wetlands					
Seasonal Wetland - Palustrine Emergent Wetland (Seasonally Flooded)					
SW-1	0.014	SW-5	0.021	SW-8	0.038
SW-2	0.017	SW-6	0.044	SW-9	0.033
SW-3	0.004	SW-7	0.011	SW-10	0.021
SW-4	0.02				
				Seasonal Wetland Total:	**0.223**
Vernal Pool - Palustrine Emergent Wetland (Seasonally Flooded)					
VP-1	0.037	VP-6	0.03	VP-11	0.022
VP-2	0.021	VP-7	0.039	VP-12	0.115
VP-3	0.005	VP-8	0.015	VP-13	0.005
VP-4	0.038	VP-9	0.064		
VP-5	0.048	VP-10	0.015		
				Vernal Pool Total:	**0.454**
Vernal Swale - Palustrine Emergent Wetland (Seasonally Flooded)					
VS-1	0.003	VS-4	0.039	VS-7	0.032
VS-2	0.003	VS-5	0.01		
VS-3	0.018	VS-6	0.014		
				Swale Total:	**0.119**
Other Waters of the U.S.					
Perennial Channel - Riverine Perennial					
R-1 (Laguna Creek)	0.458				
				Perennial Channel Total:	**0.458**
Intermittent Channel - Riverine Intermittent					
R-2 (Elk Grove Creek)	0.186	R-4 (Elk Grove Creek)	0.157		
				Intermittent Channel Total:	**0.343**
				Total Area of Aquatic Resources	**1.597**

Source: ESA, 2019

Path: U:\GIS\GIS\Projects\17xxxx\D170242 Waterman\03 MXDs Projects\WDFig3 1-5 WoUS WD 20190404.mxd FEP 4/9/2019

SOURCE: USDA, 2016; ESRI, 2012; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 3-5
Aquatic Resources Delineation Map

ESA

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Vernal Swale/Palustrine Emergent Wetland (Seasonally Flooded)

Swales within the study area are classified as *Palustrine Emergent Wetland (Seasonally Flooded)* using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin Classification) (Federal Geographic Data Committee, 2013). Since swales convey, rather than pond water like seasonal wetlands, they are dominated by hydrophytic (water loving) plants typical of wetlands with relatively short hydroperiods including Italian ryegrass and Mediterranean barley. Seven vernal swales (0.119 acre) were identified in the study area (VS-1 through VS-7). These vernal swales do not have a significant nexus to a TNW and are isolated aquatic features. Isolated wetlands are not considered waters of the U.S.

Other Waters of the U.S.

Perennial Channel/Riverine Perennial

Perennial channels are classified as "riverine perennial" using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin Classification) (Federal Geographic Data Committee, 2013). A perennial channel is a stream, or stream portion, that flows continuously during the calendar year. Riverine perennial habitat within the study area occurs in the form of Laguna Creek (R-1), comprising a total of approximately 0.458 acres. Larger riverine features such as perennial drainages may support riparian habitat along the banks and freshwater emergent wetland vegetation often occurs within the OHWM of the channel. The gradient in both channels is low and water velocity is generally slow and the substrate consists mainly of sand and mud. Laguna Creek supports sporadic occurrences of freshwater emergent wetland species within the OHWM such as common cattail (*Typha latifolia,* OBL) and sedge (*Carex* sp.*,* OBL). Photos of Laguna Creek are provided in Appendix D (Photo 1).

Intermittent Channel/Riverine Intermittent

Intermittent channels are classified as "riverine intermittent" using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin Classification) (Federal Geographic Data Committee, 2013). An intermittent channel has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow. The study area contains two intermittent channels (R-2 and R-6) comprising approximately 0.343 acre. Intermittent channels in the study area include Elk Grove Creek (R-2 and R-6). In the study area, Elk Grove Creek has been channelized and is concrete lined, likely for flood control purposes. Some ruderal weedy species were observed growing within the OHWM of Elk Grove Creek. Photos of Elk Grove Creek are provided in Appendix D (Photo 9).

Conclusions

A total of 1.597 acres of aquatic features occur within the 200.5-acre study area. This report documents the boundary delineation for these aquatic features and best professional judgment of ESA investigators. All conclusions presented should be considered preliminary and subject to change pending official review by the USACE.

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Appendix A
NRCS Soil Report

United States Department of Agriculture

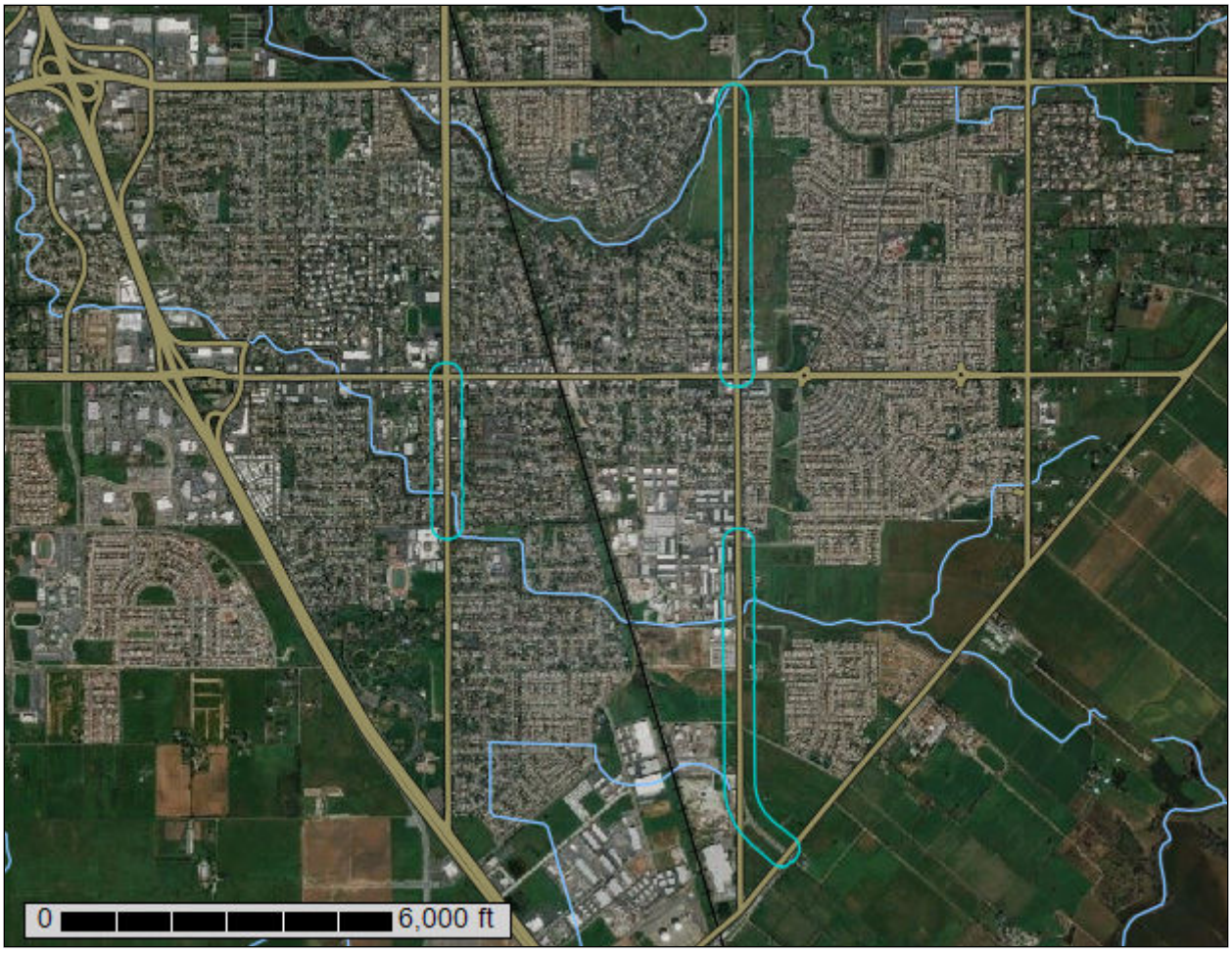
NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Sacramento County, California

Waterman Arterial Roads Project



April 8, 2019

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

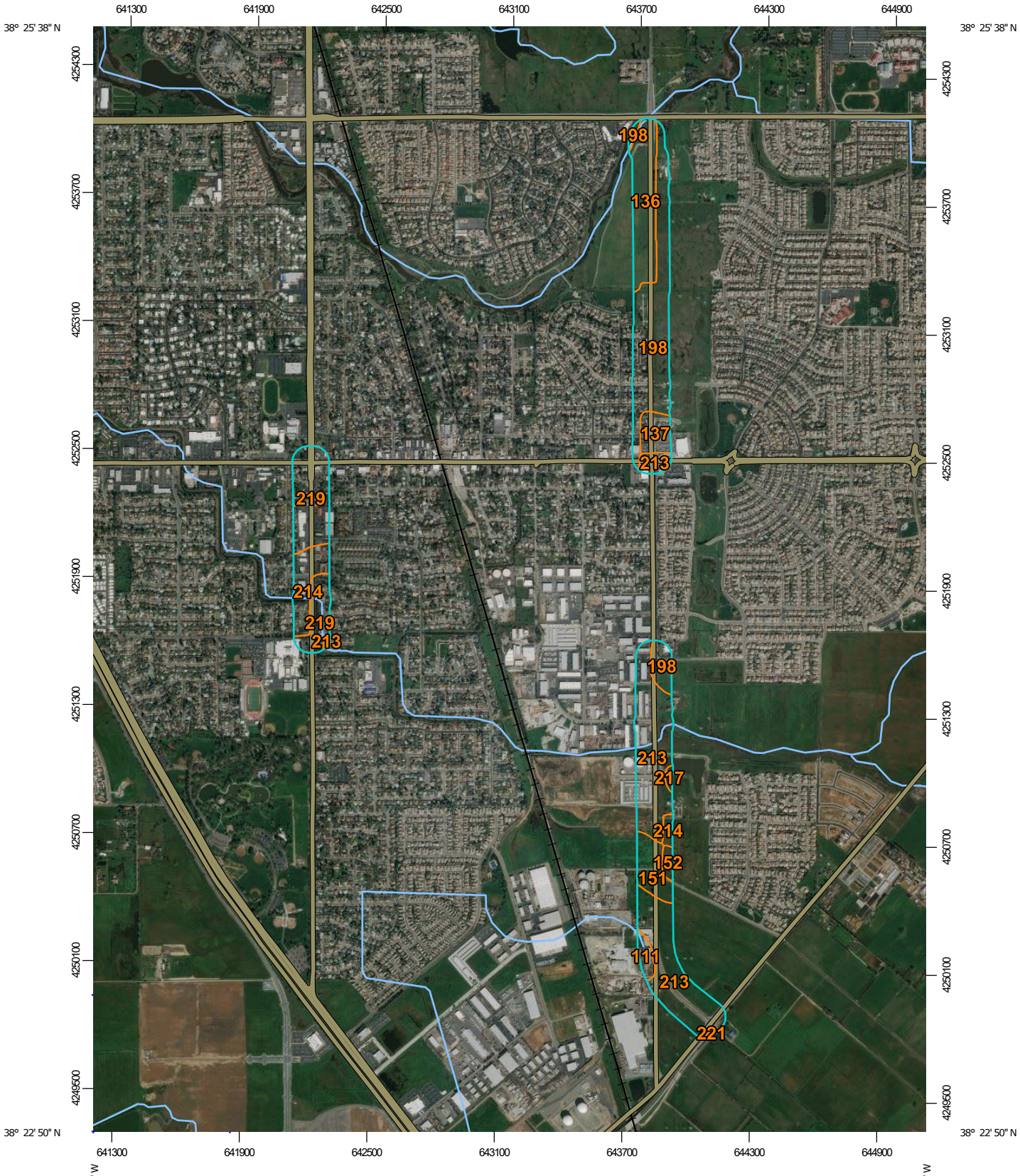
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:25,300 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 350 700 1400 2100

Feet: 0 1000 2000 4000 6000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 17, Sep 14, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 12, 2016—Mar 28, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
111	Bruella sandy loam, 0 to 2 percent slopes	3.0	1.6%
136	Dumps	20.8	10.9%
137	Durixeralfs, 0 to 1 percent slopes	6.5	3.4%
151	Galt clay, leveled, 0 to 1 percent slopes	9.2	4.8%
152	Galt clay, 0 to 1 percent slopes, MLRA 17	1.8	0.9%
198	Redding gravelly loam, 0 to 8 percent slopes, MLRA 17	44.1	23.1%
213	San Joaquin silt loam, leveled, 0 to 1 percent slopes	63.3	33.2%
214	San Joaquin silt loam, 0 to 3 percent slopes	12.5	6.5%
217	San Joaquin-Galt complex, leveled, 0 to 1 percent slopes	0.8	0.4%
219	San Joaquin-Urban land complex, 0 to 2 percent slopes	28.5	14.9%
221	San Joaquin-Xerarents complex, leveled, 0 to 1 percent slopes	0.3	0.2%
Totals for Area of Interest		**190.9**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion

of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Sacramento County, California

111—Bruella sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hhlk
Elevation: 30 to 150 feet
Mean annual precipitation: 15 to 22 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Bruella and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bruella

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 18 inches: sandy loam
H2 - 18 to 42 inches: sandy clay loam
H3 - 42 to 61 inches: sandy clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): 1
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Kimball

Percent of map unit: 5 percent
Hydric soil rating: No

San joaquin
Percent of map unit: 5 percent
Hydric soil rating: No

Xerarents
Percent of map unit: 5 percent
Hydric soil rating: No

136—Dumps

Map Unit Composition
Dumps: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dumps

Setting
Down-slope shape: Linear
Across-slope shape: Linear

Typical profile
H1 - 0 to 60 inches: variable

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydric soil rating: No

137—Durixeralfs, 0 to 1 percent slopes

Map Unit Setting
National map unit symbol: hhmd
Elevation: 20 to 150 feet
Mean annual precipitation: 10 to 20 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition
Durixeralfs and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Durixeralfs

Setting
Landform: Terraces
Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 6 inches: clay
H2 - 6 to 20 inches: clay loam
H3 - 20 to 60 inches: indurated

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 20 to 60 inches to duripan
Natural drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Galt

Percent of map unit: 6 percent
Landform: Terraces
Hydric soil rating: Yes

Redding

Percent of map unit: 6 percent
Hydric soil rating: No

Xerarents

Percent of map unit: 6 percent
Hydric soil rating: No

Unnamed, very shallow loamy

Percent of map unit: 2 percent
Hydric soil rating: No

151—Galt clay, leveled, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: hhmv
Elevation: 10 to 150 feet
Mean annual precipitation: 14 to 18 inches
Mean annual air temperature: 59 to 64 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Galt and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Galt

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 13 inches: clay
H2 - 13 to 32 inches: clay
H3 - 32 to 60 inches: cemented

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 32 to 60 inches to duripan
Natural drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 1 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: D
Hydric soil rating: Yes

Minor Components

Clear lake
Percent of map unit: 4 percent
Landform: Basin floors
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

San joaquin
Percent of map unit: 4 percent
Hydric soil rating: No

Urban land
Percent of map unit: 3 percent
Hydric soil rating: No

Unnamed, overburden/hardpan
Percent of map unit: 2 percent
Hydric soil rating: No

Unnamed, rarely flooded
Percent of map unit: 2 percent
Hydric soil rating: No

152—Galt clay, 0 to 1 percent slopes, MLRA 17

Map Unit Setting
National map unit symbol: 2w8cj
Elevation: 10 to 140 feet
Mean annual precipitation: 12 to 21 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Farmland of statewide importance

Map Unit Composition
Galt and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Galt

Setting
Landform: Basin floors on fan remnants
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Clayey alluvium derived from igneous, metamorphic and sedimentary rock over cemented alluvium derived from igneous, metamorphic and sedimentary rock

Typical profile

A - 0 to 5 inches: clay
Bss1 - 5 to 13 inches: clay
Bss2 - 13 to 22 inches: clay
Bss3 - 22 to 32 inches: clay
2Bkqm - 32 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 20 to 40 inches to duripan
Natural drainage class: Somewhat poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: About 5 to 32 inches
Frequency of flooding: Rare
Frequency of ponding: Frequent
Calcium carbonate, maximum in profile: 2 percent
Salinity, maximum in profile: Nonsaline (0.2 to 0.5 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: D
Ecological site: CLAYEY (R017XD001CA)
Hydric soil rating: Yes

Minor Components

Clear lake

Percent of map unit: 5 percent
Landform: Basin floors
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Dierssen

Percent of map unit: 5 percent
Hydric soil rating: No

San joaquin

Percent of map unit: 5 percent
Hydric soil rating: No

198—Redding gravelly loam, 0 to 8 percent slopes, MLRA 17

Map Unit Setting

National map unit symbol: 2w8bl
Elevation: 20 to 420 feet

Mean annual precipitation: 19 to 28 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 230 to 320 days
Farmland classification: Not prime farmland

Map Unit Composition

Redding and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Redding

Setting

Landform: Fan remnants
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread, riser
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy alluvium derived from igneous, metamorphic and sedimentary rock over clayey alluvium derived from igneous, metamorphic and sedimentary rock over cemented alluvium derived from igneous, metamorphic and sedimentary rock

Typical profile

A1 - 0 to 8 inches: gravelly loam
A2 - 8 to 15 inches: gravelly loam
A3 - 15 to 19 inches: gravelly loam
Bt - 19 to 22 inches: clay
2Bqm1 - 22 to 24 inches: cemented gravelly material
2Bqm2 - 24 to 35 inches: cemented gravelly material

Properties and qualities

Slope: 0 to 8 percent
Depth to restrictive feature: About 19 inches to abrupt textural change; 20 to 39 inches to duripan
Natural drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)
Depth to water table: About 15 to 39 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.2 to 0.5 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0
Available water storage in profile: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Ecological site: GRAVELLY LOAM (R015XD090CA)
Hydric soil rating: No

Minor Components

Keyes

Percent of map unit: 10 percent
Landform: Depressions

Hydric soil rating: No

Corning

Percent of map unit: 3 percent
Hydric soil rating: No

Unnamed, ponded

Percent of map unit: 2 percent
Landform: Fan remnants
Microfeatures of landform position: Vernal pools
Hydric soil rating: Yes

213—San Joaquin silt loam, leveled, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: hhpv
Elevation: 20 to 500 feet
Mean annual precipitation: 10 to 22 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

San joaquin and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 23 inches: silt loam
H2 - 23 to 28 inches: clay loam
H3 - 28 to 54 inches: indurated
H4 - 54 to 60 inches: stratified sandy loam to loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: About 23 inches to abrupt textural change; 28 to 54 inches to duripan
Natural drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Bruella

Percent of map unit: 3 percent
Hydric soil rating: No

Durixeralfs

Percent of map unit: 3 percent
Hydric soil rating: No

Galt

Percent of map unit: 2 percent
Landform: Depressions
Hydric soil rating: Yes

Hedge

Percent of map unit: 2 percent
Hydric soil rating: No

Kimball

Percent of map unit: 2 percent
Hydric soil rating: No

Xerarents

Percent of map unit: 2 percent
Hydric soil rating: No

Unnamed, rarely flooded

Percent of map unit: 1 percent
Hydric soil rating: No

214—San Joaquin silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: hhpw
Elevation: 20 to 500 feet
Mean annual precipitation: 10 to 22 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

San joaquin and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 23 inches: silt loam
H2 - 23 to 28 inches: clay loam
H3 - 28 to 54 inches: indurated
H4 - 54 to 60 inches: stratified sandy loam to loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: About 23 inches to abrupt textural change; 28 to 54 inches to duripan
Natural drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: C
Ecological site: LOAMY (R017XD045CA)
Hydric soil rating: No

Minor Components

Galt

Percent of map unit: 4 percent
Landform: Depressions
Hydric soil rating: Yes

Bruella

Percent of map unit: 4 percent
Hydric soil rating: No

Hedge

Percent of map unit: 3 percent
Hydric soil rating: No

Kimball
Percent of map unit: 3 percent
Hydric soil rating: No

Unnamed, rarely flooded
Percent of map unit: 1 percent
Hydric soil rating: No

217—San Joaquin-Galt complex, leveled, 0 to 1 percent slopes

Map Unit Setting
National map unit symbol: hhpz
Elevation: 20 to 500 feet
Mean annual precipitation: 10 to 22 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Farmland of statewide importance

Map Unit Composition
San joaquin and similar soils: 45 percent
Galt and similar soils: 40 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting
Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile
H1 - 0 to 15 inches: silt loam
H2 - 15 to 20 inches: clay loam
H3 - 20 to 46 inches: indurated
H4 - 46 to 60 inches: stratified sandy loam to loam

Properties and qualities
Slope: 0 to 1 percent
Depth to restrictive feature: About 15 inches to abrupt textural change; 20 to 46 inches to duripan
Natural drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None

Frequency of ponding: None
Available water storage in profile: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: D
Hydric soil rating: No

Description of Galt

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 6 inches: silt loam
H2 - 6 to 19 inches: clay
H3 - 19 to 38 inches: clay
H4 - 38 to 60 inches: cemented

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 38 to 60 inches to duripan
Natural drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: D
Hydric soil rating: Yes

Minor Components

Clear lake

Percent of map unit: 4 percent
Landform: Basin floors
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Durixeralfs

Percent of map unit: 4 percent
Hydric soil rating: No

Xerarents
Percent of map unit: 4 percent
Hydric soil rating: No

Kimball
Percent of map unit: 2 percent
Hydric soil rating: No

Unnamed, rarely flooded
Percent of map unit: 1 percent
Hydric soil rating: No

219—San Joaquin-Urban land complex, 0 to 2 percent slopes

Map Unit Setting
National map unit symbol: hhq1
Elevation: 20 to 500 feet
Mean annual precipitation: 10 to 22 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition
San joaquin and similar soils: 50 percent
Urban land: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting
Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile
H1 - 0 to 23 inches: silt loam
H2 - 23 to 28 inches: clay loam
H3 - 28 to 54 inches: indurated
H4 - 54 to 60 inches: stratified sandy loam to loam

Properties and qualities
Slope: 0 to 2 percent
Depth to restrictive feature: About 23 inches to abrupt textural change; 28 to 54 inches to duripan
Natural drainage class: Moderately well drained
Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: C
Hydric soil rating: No

Description of Urban Land

Typical profile

H1 - 0 to 6 inches: variable

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydric soil rating: No

Minor Components

Clear lake

Percent of map unit: 4 percent
Landform: Basin floors
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Galt

Percent of map unit: 3 percent
Landform: Terraces
Hydric soil rating: Yes

Bruella

Percent of map unit: 3 percent
Hydric soil rating: No

Kimball

Percent of map unit: 3 percent
Hydric soil rating: No

Durixeralfs

Percent of map unit: 1 percent
Hydric soil rating: No

Xerarents

Percent of map unit: 1 percent
Hydric soil rating: No

221—San Joaquin-Xerarents complex, leveled, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: hhq3
Elevation: 0 to 2,500 feet
Mean annual precipitation: 10 to 22 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

San joaquin and similar soils: 45 percent
Xerarents and similar soils: 40 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 23 inches: silt loam
H2 - 23 to 28 inches: clay loam
H3 - 28 to 54 inches: indurated
H4 - 54 to 60 inches: stratified sandy loam to loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: About 23 inches to abrupt textural change; 28 to 54 inches to duripan
Natural drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: C

Hydric soil rating: No

Description of Xerarents

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 60 inches: variable

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 0.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydric soil rating: No

Minor Components

Clear lake

Percent of map unit: 3 percent
Landform: Basin floors
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Columbia

Percent of map unit: 3 percent
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Galt

Percent of map unit: 2 percent
Landform: Terraces
Hydric soil rating: Yes

Sailboat

Percent of map unit: 2 percent
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Durixeralfs

Percent of map unit: 2 percent

Hydric soil rating: No

Kimball

Percent of map unit: 2 percent
Hydric soil rating: No

Unnamed, rarely flooded

Percent of map unit: 1 percent
Hydric soil rating: No

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Appendix B

Wetland Delineation Data Sheets

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project | City/County: Elk Grove/Sacramento | Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: DP-1

Investigator(s): Joshua Boldt, Joseph Sanders | Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain | Local relief (concave, convex, none): depression | Slope (%):

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks: Small depression seasonal wetland.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Festuca perennis*	85	Yes	FAC
2. *Briza minor*	10	No	FAC
3. *Triteleia hyacinthina*	2	No	FAC
4. *Rumex crispus*	2	No	FAC
5. *Leontodon saxatilis*	1	No	FACU
6.			
7.			
8.			
Total Cover:	100%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	99	x 3 =	297
FACU species	1	x 4 =	4
UPL species		x 5 =	0
Column Totals:	100 (A)		301 (B)

Prevalence Index = B/A = 3.01

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [ ] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: Weakly hydrophytic plant community. Plant community clearly different from surrounding uplands.

SOIL

Sampling Point: DP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-6	10 YR 3/2	65	5 YR 5/8	35	RM	M	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☒ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: cobbles

Depth (inches): 6

Hydric Soil Present? Yes ◉ No ○

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☒ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☒ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Data point taken during dry season. Saturation likely during wet season and is visilbe on aerial photos.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project | City/County: Elk Grove/Sacramento | Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: DP-2

Investigator(s): Joshua Boldt, Joseph Sanders | Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain | Local relief (concave, convex, none): none | Slope (%):

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks: Upland point for DP-1

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Elymus caput-medusae*	45	Yes	Not Listed
2. *Erodium botrys*	15	No	FACU
3. *Festuca perennis*	10	No	FAC
4. *Vicia villosa*	25	Yes	Not Listed
5. *Triteleia hyacinthina*	5	No	FAC
6.			
7.			
8.			
Total Cover:	100%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	15	x 3 =	45
FACU species	15	x 4 =	60
UPL species	70	x 5 =	350
Column Totals:	100 (A)		455 (B)

Prevalence Index = B/A = 4.55

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks:

SOIL

Sampling Point: DP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-6	10 YR 3/6	70	5 YR 5/8	30	RM	M	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: cobbles

Depth (inches): 6

Hydric Soil Present? Yes ○ No ◉

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ○ Depth (inches):

Water Table Present? Yes ○ No ○ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ○ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project | City/County: Elk Grove/Sacramento | Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: DP-3

Investigator(s): Joshua Boldt, Joseph Sanders | Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain | Local relief (concave, convex, none): minor depression | Slope (%):

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No ( )
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Festuca perennis*	65	Yes	FAC
2. *Bromus hordeaceus*	30	Yes	FACU
3. *Triteleia hyacinthina*	2	No	FAC
4. *Vicia villosa*	2	No	Not Listed
5.			
6.			
7.			
8.			
Total Cover:	99 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	67	x 3 =	201
FACU species	30	x 4 =	120
UPL species	2	x 5 =	10
Column Totals:	99 (A)		331 (B)

Prevalence Index = B/A = 3.34

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: Vegetation community is a mix of upland and weakly hydrophytic species.

SOIL

Sampling Point: DP-3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-6	10 YR 4/6	60	5 YR 5/8	40	RM	M	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: cobbles

Depth (inches): 6

Hydric Soil Present? Yes ○ No ◉

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project City/County: Elk Grove/Sacramento Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove State: CA Sampling Point: DP-4

Investigator(s): Joshua Boldt, Joseph Sanders Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain Local relief (concave, convex, none): Slope (%):

Subregion (LRR): C - Mediterranean California Lat: Long: Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Bromus hordeaceus*	30	Yes	FACU
2. *Avena fatua*	20	Yes	Not Listed
3. *Bromus diandrus*	10	No	Not Listed
4. *Festuca myuros*	30	Yes	FACU
5. *Erodyum botrys*	5	No	FACU
6. *Vicia villosa*	5	No	Not Listed
7.			
8.			
Total Cover:	100%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	65	x 4 =	260
UPL species	35	x 5 =	175
Column Totals:	100 (A)		435 (B)

Prevalence Index = B/A = 4.35

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks:

SOIL

Sampling Point: DP-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-8	10 YR 4/4	60	5 YR 5/8	40	RM	M	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: cobbles

Depth (inches): 8

Hydric Soil Present? Yes ○ No ◉

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ○ Depth (inches):

Water Table Present? Yes ○ No ○ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ○ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project | City/County: Elk Grove/Sacramento | Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: DP-

Investigator(s): Joshua Boldt, Joseph Sanders | Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain | Local relief (concave, convex, none): minor depression | Slope (%):

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Festuca perennis*	65	Yes	FAC
2. *Bromus hordeaceus*	30	Yes	FACU
3. *Triteleia hyacinthina*	2	No	FAC
4. *Erodium botrys*	2	No	FACU
5. *Vicia villosa*	1	No	Not Listed
6.			
7.			
8.			
Total Cover:	100%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	67	x 3 =	201
FACU species	32	x 4 =	128
UPL species	1	x 5 =	5
Column Totals:	100 (A)		334 (B)

Prevalence Index = B/A = 3.34

Hydrophytic Vegetation Indicators:

- [ ] Dominance Test is >50%
- [ ] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks:

SOIL

Sampling Point: DP-

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-8	10 YR 5/4	70	2.5 YR 4/8	30	RM	M	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: cobbles

Depth (inches): 8

Hydric Soil Present? Yes ○ No ◉

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ○ Depth (inches):

Water Table Present? Yes ○ No ○ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ○ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project | City/County: Elk Grove/Sacramento | Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: DP-6

Investigator(s): Joshua Boldt, Joseph Sanders | Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain | Local relief (concave, convex, none): depression | Slope (%):

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes ( ) No ( )
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Festuca perennis*	90	Yes	FAC
2. *Rumex crispus*	2	No	FAC
3. *Hordeum marinum*	5	No	FAC
4. *Triteleia hyacinthina*	2	No	FAC
5.			
6.			
7.			
8.			
Total Cover:	99 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	99	x 3 =	297
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	99 (A)		297 (B)

Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: Vegetation community dominated by weakly hydrophytic species.

SOIL

Sampling Point: DP-6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-7	10 YR 4/2	85	5 YR 5/8	15	D	M	clay loam	
7-14	10 YR 3/1	90	7.5 YR 5/8	10	C	PL	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☒ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☒ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☒ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project | City/County: Elk Grove/Sacramento | Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: DP-7

Investigator(s): Joshua Boldt, Joseph Sanders | Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain | Local relief (concave, convex, none): none | Slope (%):

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks: Upland point for DP-6.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Bromus hordeaceus*	55	Yes	FACU
2. *Avena fatua*	20	Yes	Not Listed
3. *Bromus diandrus*	20	Yes	Not Listed
4. *Erodium botrys*	5	No	FACU
5.			
6.			
7.			
8.			
Total Cover:	100%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	60	x 4 =	240
UPL species	40	x 5 =	200
Column Totals:	100 (A)		440 (B)

Prevalence Index = B/A = 4.40

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks:

SOIL

Sampling Point: DP-7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-5	10 YR 5//8	75	7.5 YR 5/8	25	RM	M	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project | City/County: Elk Grove/Sacramento | Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: DP-8

Investigator(s): Joshua Boldt, Joseph Sanders | Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain | Local relief (concave, convex, none): depression | Slope (%):

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Festuca perennis*	80	Yes	FAC
2. *Eryngium castrense*	4	No	OBL
3. *Ranunculus muricatus*	5	No	FACW
4. *Hordeum marinum*	5	No	FAC
5. *Triteleia hyacinthina*	2	No	FAC
6.			
7.			
8.			
Total Cover:	96 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 4 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	4	x 1 =	4
FACW species	5	x 2 =	10
FAC species	87	x 3 =	261
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	96 (A)		275 (B)

Prevalence Index = B/A = 2.86

Hydrophytic Vegetation Indicators:

- [x] Dominance Test is >50%
- [x] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks:

SOIL

Sampling Point: DP-8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-14	10 YR 4/3	60	7.5 YR 5/8	28	RM	RC	clay loam	
0-14			10YR 2/1	10	C	M		
0-14			7.5 YR 5/8	2	C	PL		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☒ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☒ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☒ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☒ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project City/County: Elk Grove/Sacramento Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove State: CA Sampling Point: DP-9

Investigator(s): Joshua Boldt, Joseph Sanders Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain Local relief (concave, convex, none): depression Slope (%):

Subregion (LRR): C - Mediterranean California Lat: Long: Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Lasthenia fremontii*	50	Yes	OBL
2. *Eryngium castrense*	20	Yes	OBL
3. *Plagiobothrys stipitatus micranthus*	5	No	FACW
4. *Hordeum marinum*	10	No	FAC
5.			
6.			
7.			
8.			
Total Cover:	85 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 15 % % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	70	x 1 =	70
FACW species	5	x 2 =	10
FAC species	10	x 3 =	30
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	85 (A)		110 (B)

Prevalence Index = B/A = 1.29

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks:

SOIL

Sampling Point: DP-9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-8	10 Yr 3/2	65	5 YR 4/6	30	RM	M	clay loam	
0-8			5 YR 4/6	5	C	PL		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☒ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: cobbles

Depth (inches): 8

Hydric Soil Present? Yes ◉ No ○

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☒ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☒ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☒ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project | City/County: Elk Grove/Sacramento | Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: DP-10

Investigator(s): Joshua Boldt, Joseph Sanders | Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain | Local relief (concave, convex, none): swale | Slope (%):

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks: Roadside swale with some hydrophytic vegetation

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Festuca perennis*	50	Yes	FAC
2. *Bromus hordeaceus*	20	Yes	FACU
3. *Triteleia hyacinthina*	5	No	FAC
4. *Polygonum aviculare*	5	No	FAC
5.			
6.			
7.			
8.			
Total Cover:	80 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 20 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	60	x 3 =	180
FACU species	20	x 4 =	80
UPL species		x 5 =	0
Column Totals:	80 (A)		260 (B)

Prevalence Index = B/A = 3.25

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks:

SOIL

Sampling Point: DP-10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-14	7.5 YR 4/4	100					clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: Soil profile is homegenous. DP adjacent to Waterman Road. Soils likely disturbed during road construction.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ○ Depth (inches):

Water Table Present? Yes ○ No ○ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ○ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Arterial Roads Rehabilitation Project | City/County: Elk Grove/Sacramento | Sampling Date: May 3, 2018

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: DP-11

Investigator(s): Joshua Boldt, Joseph Sanders | Section, Township, Range: 32, T 17N, R 6E

Landform (hillslope, terrace, etc.): alluvial plain | Local relief (concave, convex, none): swale | Slope (%):

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum:

Soil Map Unit Name: Redding gravelly loam, 0 to 8 percent slopes, MLRA 17 | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Festuca perennis*	5	Yes	FAC
2. *Hordeum marinum*	10	Yes	FAC
3. *Polygonum aviculare*	2	No	FAC
4.			
5.			
6.			
7.			
8.			
Total Cover:	17 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 83 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	17	x 3 =	51
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	17 (A)		51 (B)

Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: Mostly unvegetated swale.

SOIL

Sampling Point: DP-11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-12	7.5 YR 4/4	100					clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: Soil profile is homogenous. DP is adjacent to Waterman Road. Soils likely disturbed during road construction.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Appendix C

Aquatic Resources Spreadsheet

Waters_Name	State	Cowardin_Cod	HGM_Code	Meas_Type	Amount	Units	Waters_Type	Latitude	Longitude
SW-1	CALIFORNIA	PEM		Area	0.014	ACRE	ISOLATE	38.41949462310	-121.35282162100
SW-2	CALIFORNIA	PEM		Area	0.017	ACRE	ISOLATE	38.41669822380	-121.35271682900
SW-3	CALIFORNIA	PEM		Area	0.004	ACRE	ISOLATE	38.41635763280	-121.35266287700
SW-4	CALIFORNIA	PEM		Area	0.02	ACRE	ISOLATE	38.41653712110	-121.35233900800
SW-5	CALIFORNIA	PEM		Area	0.021	ACRE	ISOLATE	38.41733414150	-121.35220729300
SW-6	CALIFORNIA	PEM		Area	0.044	ACRE	ISOLATE	38.41749693900	-121.35247390100
SW-7	CALIFORNIA	PEM		Area	0.011	ACRE	ISOLATE	38.41613817040	-121.35296244700
SW-8	CALIFORNIA	PEM		Area	0.038	ACRE	ISOLATE	38.41706244490	-121.35292050000
SW-9	CALIFORNIA	PEM		Area	0.033	ACRE	ISOLATE	38.41695292190	-121.35267534100
SW-10	CALIFORNIA	PEM		Area	0.021	ACRE	ISOLATE	38.42033250590	-121.35267274100
VP-1	CALIFORNIA	PEM		Area	0.037	ACRE	ISOLATE	38.41781190630	-121.35227430000
VP-2	CALIFORNIA	PEM		Area	0.021	ACRE	ISOLATE	38.41941775410	-121.35221184300
VP-3	CALIFORNIA	PEM		Area	0.005	ACRE	ISOLATE	38.41764204270	-121.35215996400
VP-4	CALIFORNIA	PEM		Area	0.038	ACRE	ISOLATE	38.41692290300	-121.35228299900
VP-5	CALIFORNIA	PEM		Area	0.048	ACRE	ISOLATE	38.42053176430	-121.35232129000
VP-6	CALIFORNIA	PEM		Area	0.03	ACRE	ISOLATE	38.41412181290	-121.35222494000
VP-7	CALIFORNIA	PEM		Area	0.039	ACRE	ISOLATE	38.41355864590	-121.35229066000
VP-8	CALIFORNIA	PEM		Area	0.015	ACRE	ISOLATE	38.41359534090	-121.35253088800
VP-9	CALIFORNIA	PEM		Area	0.064	ACRE	ISOLATE	38.41323035110	-121.35222432400
VP-10	CALIFORNIA	PEM		Area	0.015	ACRE	ISOLATE	38.41325323040	-121.35253809000
VP-11	CALIFORNIA	PEM		Area	0.022	ACRE	ISOLATE	38.41307911430	-121.35275146600
VP-12	CALIFORNIA	PEM		Area	0.115	ACRE	ISOLATE	38.41284825030	-121.35257205700
VP-13	CALIFORNIA	PEM		Area	0.005	ACRE	ISOLATE	38.41287658440	-121.35283945500
VS-1	CALIFORNIA	PEM		Area	0.003	ACRE	ISOLATE	38.41694009170	-121.35215668800
VS-2	CALIFORNIA	PEM		Area	0.003	ACRE	ISOLATE	38.41769654160	-121.35219106100
VS-3	CALIFORNIA	PEM		Area	0.018	ACRE	ISOLATE	38.41735729670	-121.35234626300
VS-4	CALIFORNIA	PEM		Area	0.039	ACRE	ISOLATE	38.41708830900	-121.35243706900
VS-5	CALIFORNIA	PEM		Area	0.01	ACRE	ISOLATE	38.41706527050	-121.35276593100
VS-6	CALIFORNIA	PEM		Area	0.014	ACRE	ISOLATE	38.41691608670	-121.35247098500
VS-7	CALIFORNIA	PEM		Area	0.032	ACRE	ISOLATE	38.41430946950	-121.35236862900
R-1 (Laguna Creek)	CALIFORNIA	R2		Area	0.458	ACRE	RPW	38.42283910580	-121.35353057600
R-2 (Elk Grove Creek)	CALIFORNIA	R4		Area	0.186	ACRE	NRPW	38.39726749960	-121.35325371000
R-6 (Elk Grove Creek)	CALIFORNIA	R4		Area	0.157	ACRE	NRPW	38.40237449850	-121.37142589600

Appendix D
Study Area Photographs

Arterial Roads Project.170242

Photo 1
Laguna Creek. May 3, 2018

Arterial Roads Project. 170242

Photo 2
Sampling Point DP-1 (SW-1). May 3, 2018

Arterial Roads Project. 170242

Photo 3
Sampling Point DP-2 (Upland). May 3, 2018

Arterial Roads Project. 170242

Photo 4
Sampling Point DP-6 (SW-8). May 3, 2018

Arterial Roads Project. 170242

Photo 5
Sampling Point DP-7 (Upland). May 3, 2018

Arterial Roads Project. 170242

Photo 6
VP-3. May 3, 2018

Arterial Roads Project. 170242

Photo 7
VP-2. May 3, 2018

Arterial Roads Project. 170242

Photo 8
Sampling Point DP-9 (VP-2). May 3, 2018

Arterial Roads Project. 170242

Photo 9
Elk Grove Creek. May 3, 2018

Appendix F
Initial Site Assessment

ESA

Elk Grove Arterial Roads Rehabilitation Project

Initial Site Assessment

Elk Grove Arterial Roads Rehabilitation Project
Elk Grove, California
Federal Project No. RPSTPL 5479(060)

March 2019

Caltrans

CITY OF ELK GROVE
PROUD HERITAGE. BRIGHT FUTURE.

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Initial Site Assessment

Elk Grove Arterial Roads Rehabilitation Project
Elk Grove, California
Federal Project No. RPSTPL 5479(060)

March 2019

STATE OF CALIFORNIA
Department of Transportation

Approved by: _____ Date: _____
Kevin M. Bewsey, PE
CIP Program Manager
City of Elk Grove
Department of Public Works

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Elk Grove Arterial Roads Rehabilitation Project Initial Site Assessment

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SECTION 1.0
Executive Summary

This Initial Site Assessment (ISA) was conducted on behalf of the City of Elk Grove for the Arterial Roads Rehabilitation Project located on eight road segments in the City of Elk Grove in Sacramento County, California. The Arterial Roads Rehabilitation Project include pavement widening, pavement rehabilitation or surface treatment (as deemed necessary) on segments of Waterman Road, Elk Grove Florin Road, and Elk Grove Boulevard, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in Eastern Elk Grove. The road base will result in less than 24 inches of excavation with the exception of some utility trenching that may be to 4 feet below grade. The excavations will not reach groundwater at 80 to 90 feet below to ground surface. The project will take place on the nine sections of roads as listed below:

- **Segment 1**: Waterman Road from approximately 700 feet south of Bond Road to 850 feet north of Rancho Drive
- **Segment 2**: Waterman Road from approximately 850 feet north of Rancho Drive to Elk Grove Boulevard
- **Segment 3**: Waterman Road from approximately 80 feet north of Dino/Mainline Drive to Kent Street
- **Segment 4**: Waterman Road from Kent Street to approximately 400 feet south of Brinkman Court
- **Segment 5**: Waterman Road from approximately 400 feet south of Brinkman Court to Mosher Road
- **Segment 6**: Waterman Road from Mosher Road to approximately 1000 feet south of Mosher Road
- **Segment 7**: Waterman Road from approximately 1000 feet south of Mosher Road to Grant Line Road
- **Segment 8**: Elk Grove Florin Road from Elk Grove Boulevard to Valley Oak Lane

Segments 1, 5, and 6 will rehabilitate pavement and widen shoulders to accommodate a Class 2 Bike Lane in both directions. Segments 2, 3, 4, 7, and 8 will have pavement rehabilitation or surface treatment, and restriping to provide a Class 2 Bike Lane in both directions. Construction of the project may occur in phases, depending on funding or other factors impacting schedule.

The segments requiring pavement rehabilitation are of a condition that further deterioration would likely result in costlier replacement of pavement in the future. Further, the selected segments are shown in the City of Elk Grove's 2014 Bicycle, Pedestrian, and Trails Master Plan as having future Class 2 bike lanes. Implementation of the project will extend the useful life of the pavement, improve ride quality for both motorists and cyclists, and will fill in gaps in the existing Class 2 bike lane network in East Elk Grove, especially along Waterman Road.

This ISA identifies Recognized Environmental Conditions (RECs) for the project site that may adversely affect roadway construction or right-of-way acquisition. This ISA was conducted in general conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E 1527-13, which describes the standard practice for conducting assessments. This ISA includes a summary of the site reconnaissance conducted on June 21, 2018, a review of environmental databases, and a review of historical data sources. A REC is defined by ASTM Practice E 1527-13 as: "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

The project site consists of eight road segments, none of which appear on any of the searched regulatory agency records. Segment 1 is adjacent to a closed landfill that has contaminated groundwater; however, the depth to groundwater is more than 80 feet and construction activities along this segment would occur at limited depths and would not encounter groundwater. A service station that previously underwent cleanup due to a fuel leak is located adjacent to and north of Segment 8; however, the depth to groundwater was over 90 feet in 2006 and construction activities along this segment would not encounter groundwater. Various other sites have records of past minor releases that have been cleaned up and the cases closed by regulatory agencies. Various businesses that use hazardous materials are located along the segments, but none are listed on regulatory records as having violations or hazardous materials releases. In addition, all of the listed facilities are set back from the road segments and therefore are unlikely to affect soil in the road segments. Some of the road segments have dirt shoulders or ditches without sidewalks or gutters. Some trash was observed in the ditches and shoulder areas; however, no containers, staining indicative of chemical releases, or stressed vegetation was observed. The trash and debris are considered a *de minimus* condition because the materials can be recycled or disposed of at any Class III (non-hazardous materials) landfill. Therefore, this ISA did not identify any known RECs.

Although not an ASTM 1527 Phase I assessment consideration, it should be noted that limited portions of Segments 1 and 8 are located within the 100-year flood zone. Construction activities would need to account for any changes that would affect the existing floodway configurations. In addition, various underground utilities were noted along the sides of most road segments. Construction activities will need to account for these utilities.

In addition, soil along the sides of the subject roadways may have concentrations of aerially deposited lead above action levels and will require investigation as part of the Preliminary Site Assessment (PSI) to be conducted for this project.

SECTION 2.0
Introduction

2.1 Purpose, Standards, and Definitions

Environmental Science Associates (ESA) conducted this Initial Site Assessment (ISA) for the Arterial Roads Rehabilitation Project located in the City of Elk Grove in Sacramento County, California.

This ISA was conducted in accordance with ESA's scope of work with Bennett Engineering Services dated March 5, 2018, and subsequent scope authorizations dated December 12, 2018 and January 15, 2019. In addition, this ISA uses relevant guidance from the Caltrans *Standard Environmental Reference, Volume 1 Guidance for Compliance, Section 3 Topics, Chapter 10 - Hazardous Materials, Hazardous Waste, and Contamination, Initial Site Assessment*, last updated March 25, 2016, and the American Society of Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E1527-13). This ISA is focused on and limited to identifying potential contamination sources or issues at or within 1/8-mile of the project site because of the limited footprint of the proposed project activities.

Three types of Recognized Environmental Conditions (RECs) are defined by the ASTM E1527-13, as listed below. The term Recognized Environmental Conditions (REC) means:

> "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

In addition, the updated ASTM E1527-13 defined the two additional categories cited below.

The term Historical Recognized Environmental Conditions (HREC) means:

> "A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Initial Site Assessment is conducted (for example, if there

> has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Initial Site Assessment is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition."

For a past REC to be considered an HREC it must:

- Have already been remediated (or meet current standards without remediation);
- Not require use restrictions or engineering controls (e.g., cap, subslab depressurization system); and
- Meet current standards.

If the REC has use restrictions or engineering controls (e.g., cap, subslab depressurization system), then the REC may be designated as a Controlled Recognized Environmental Condition (CREC), as defined below. Unlike HRECs, a CREC will be listed in the conclusions section of the Phase I assessment, along with other RECs. The purpose of this new category is to bring continuing obligations such as use restrictions, maintenance requirements, reporting requirements to the forefront. The term Controlled Recognized Environmental Conditions (CREC) means:

> "A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Initial Site Assessment report, and as a recognized environmental condition in the conclusions section of the Initial Site Assessment report."

RECs, HRECs, and CRECs are not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

2.2 Scope of Services

The following sections describe ESA's work scope:

Section 2, *Introduction, Standards, and Definitions*, includes a discussion of the purpose for performing the ISA; the standards and definitions used for the ISA; and the significant assumptions and limitations.

Section 3, *Site Description*, compiles information concerning the location, current and proposed use, a description of any structures and improvements at the time of ESA's assessment, and adjoining property uses.

Section 4, *Records Review and Site Reconnaissance*, includes ESA's review of the Cortese List databases available from the federal, state, and local regulatory agencies regarding hazardous materials use, storage, or disposal at or adjacent to the bridge. Applicable information is summarized and copies of relevant documents are included in the appendices of this report. Historical aerial photographs and topographic maps are reviewed for indications of historical environmental conditions. In addition, the Site Reconnaissance, describing ESA's observations during reconnaissance of the project area, was keyed to sites identified during the records review. The methodology used and limiting conditions are described herein.

Section 5, *Findings and Opinions*, presents ESA's findings and professional opinions regarding the information contained in this report. It provides ESA's conclusions regarding the presence of RECs, HRECs, and CRECs connected with the bridge and data gaps, if any, that could affect the recognition of RECs.

Section 6, *Report Authors and Signatures*, provides the signatures of the qualified personnel that conducted this assessment.

Section 7, *References*, is a summary of the resources used to compile this report that are not already included in the Appendices.

No interviews of site owners were conducted for this assessment because the site is a road owned by the City of Elk Grove and does not have any operations that would use hazardous materials. Instead, this ISA relied on the Preliminary Environmental Study (PES) prepared for this project (City of Elk Grove, 2018).

2.3 Limitations and Exceptions

No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs, HRECs, and CRECs in connection with a property. Conformance of this limited ISA with ASTM E1527-13 reduces, but does not eliminate, uncertainty regarding the potential for RECs, HRECs, and CRECs in connection with the subject property. While ESA has made every effort to discover and interpret available information regarding the bridge within the time available, some potential always remains for undiscovered contamination to be present. ESA's report is a best-efforts collection and interpretation of available information, and cannot be considered wholly conclusive. This report and the associated work were provided in accordance with the principles and practices generally employed by the local environmental consulting profession. This is in lieu of all warranties, expressed or implied. No other warranty is expressed or implied.

This limited ISA is based primarily on a database review and a site reconnaissance of accessible areas. This limited ISA does not include "non-scope issues" as specified by ASTM E1527-13, such as invasive[1] surveys for the presence of the following items on or in the vicinity of the subject property: asbestos-containing materials, poly-chlorinated biphenyls (PCBs), radon, indoor air quality, lead-based paint analysis, lead in drinking water, regulatory compliance, and high voltage lines.

The conclusions presented are professional opinions based solely upon indicated data described in this report, visual site and vicinity observations, and the interpretation of the available historical information and documents reviewed, as described in this report. Unless ESA has actual knowledge to the contrary, information obtained from interviews or provided to ESA is assumed to be correct and complete. ESA does not assume any liability for information that was misrepresented to ESA by others or for items not visible, accessible, or present on or at the bridge during the time of the site reconnaissance. The conclusions are intended exclusively for the purpose outlined herein and the site location and project indicated. Any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of the user.

Opinions and recommendations presented herein apply to the site conditions existing at the time of this limited ISA and cannot necessarily apply to site changes of which ESA is not aware and has not had the opportunity to evaluate. Changes in the conditions of the bridge may occur with time due to natural processes or the works of man on the property or adjacent properties. Changes in applicable standards may also occur as a result of legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond ESA's control. Opinions and judgments expressed herein are based on ESA's understanding and interpretation of current regulatory standards, and should not be construed as legal opinions.

[1] Invasive surveys include sampling of materials.

SECTION 3.0
Site Description

3.1 General Setting and Location

The Arterial Roads Rehabilitation Project consists of road reconstruction and rehabilitation of nine road segments in the City of Elk Grove in Sacramento County, California (**Figures 1 and 2a**), all designated as minor arterial roads per California Road System (CRS) maps (Caltrans, 2017). The area is a mix of residential, rural, and commercial/retail land uses.

3.2 Project Description

The Arterial Roads Rehabilitation Project will include pavement widening, pavement rehabilitation or surface treatment (as deemed necessary) on segments of Waterman Road, Elk Grove Florin Road, and Elk Grove Boulevard, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in Eastern Elk Grove. The road base will result in less than 24 inches of excavation with the exception of some utility trenching that may be to 4 feet below grade. The excavations will not reach groundwater at 80 to 90 feet below to ground surface. The project will take place on the eight sections of roads shown on **Figures 2a through 2d** and listed below.

The project will include pavement rehabilitation or surface treatment (as deemed necessary) on segments of Waterman Road, Elk Grove Florin Road, and Elk Grove Boulevard, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in Eastern Elk Grove. The project will take place on the following segments:

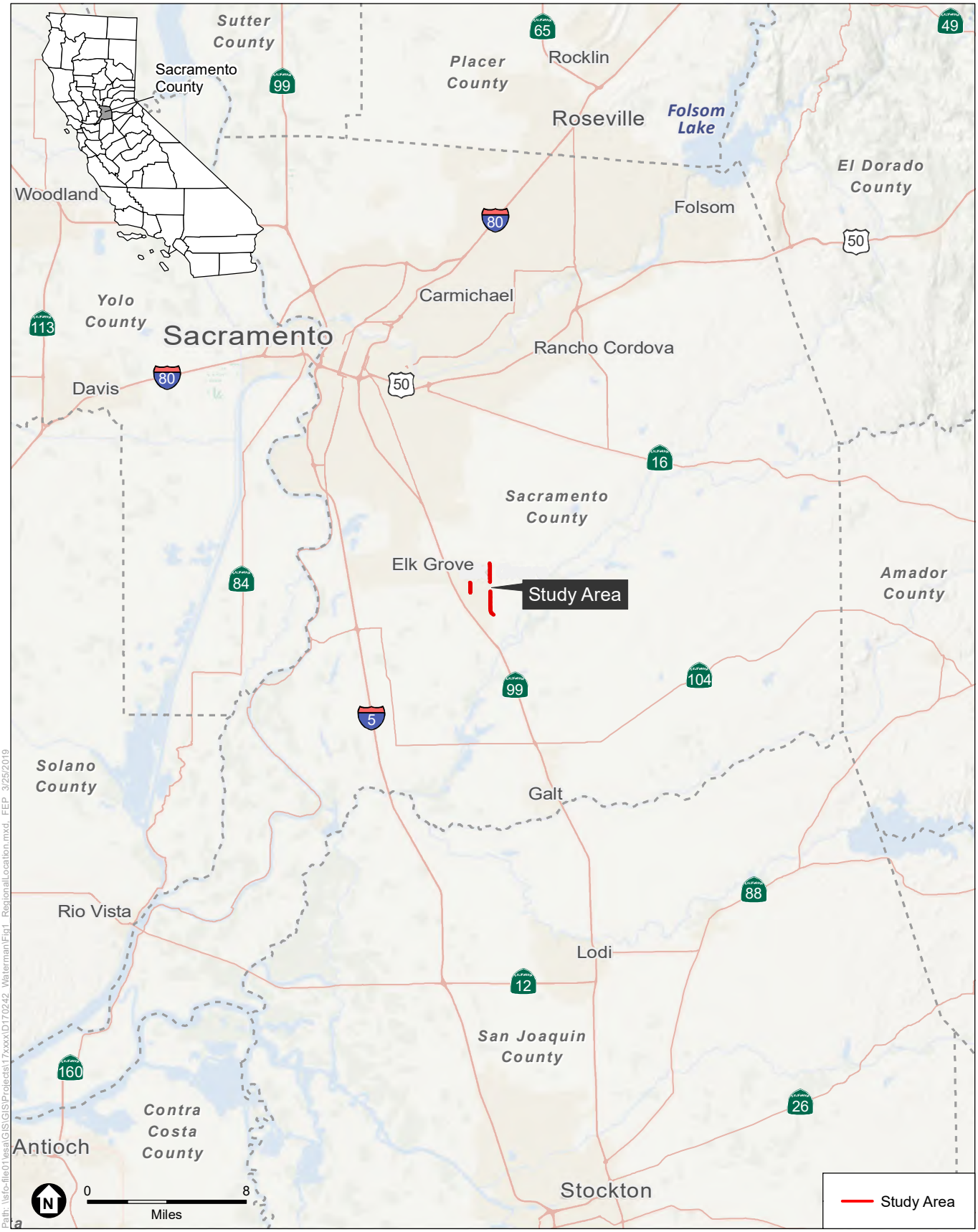
- **Segment 1**: Waterman Road from approximately 700 feet south of Bond Road to 850 feet north of Rancho Drive
- **Segment 2**: Waterman Road from approximately 850 feet north of Rancho Drive to Elk Grove Boulevard
- **Segment 3**: Waterman Road from approximately 80 feet north of Dino/Mainline Drive to Kent Street
- **Segment 4**: Waterman Road from Kent Street to approximately 400 feet south of Brinkman Court
- **Segment 5**: Waterman Road from approximately 400 feet south of Brinkman Court to Mosher Road
- **Segment 6**: Waterman Road from Mosher Road to approximately 1000 feet south of Mosher Road

- **Segment 7**: Waterman Road from approximately 1000 feet south of Mosher Road to Grant Line Road
- **Segment 8**: Elk Grove Florin Road from Elk Grove Boulevard to Valley Oak Lane

Segments 1, 5, and 6 will rehabilitate pavement and widen shoulders to accommodate a Class 2 Bike Lane in both directions. Segments 2, 3, 4, 7, and 8 will have pavement rehabilitation or surface treatment, and restriping to provide a Class 2 Bike Lane in both directions. Construction of the project may occur in phases, depending on funding or other factors impacting schedule.

3.3 Project Need

The segments requiring pavement rehabilitation are of a condition that further deterioration would likely result in costlier replacement of pavement in the future. Further, the selected segments are shown in the City of Elk Grove's 2014 Bicycle, Pedestrian, and Trails Master Plan as having future Class 2 bike lanes. Implementation of the project will extend the useful life of the pavement, improve ride quality for both motorists and cyclists, and will fill in gaps in the existing Class 2 bike lane network in East Elk Grove, especially along Waterman Road.

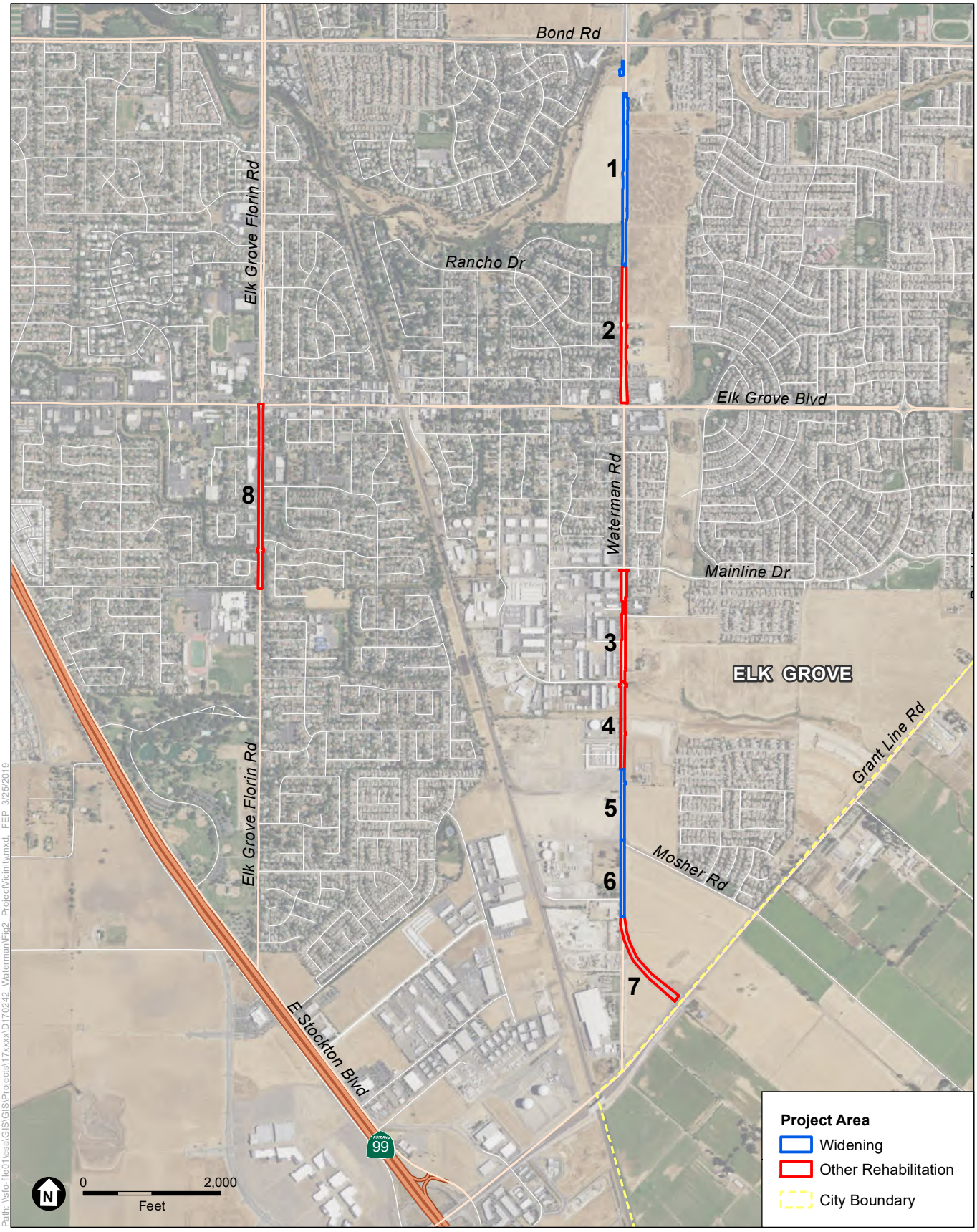


SOURCE: Esri, 2015; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 1
Regional Location

ESA

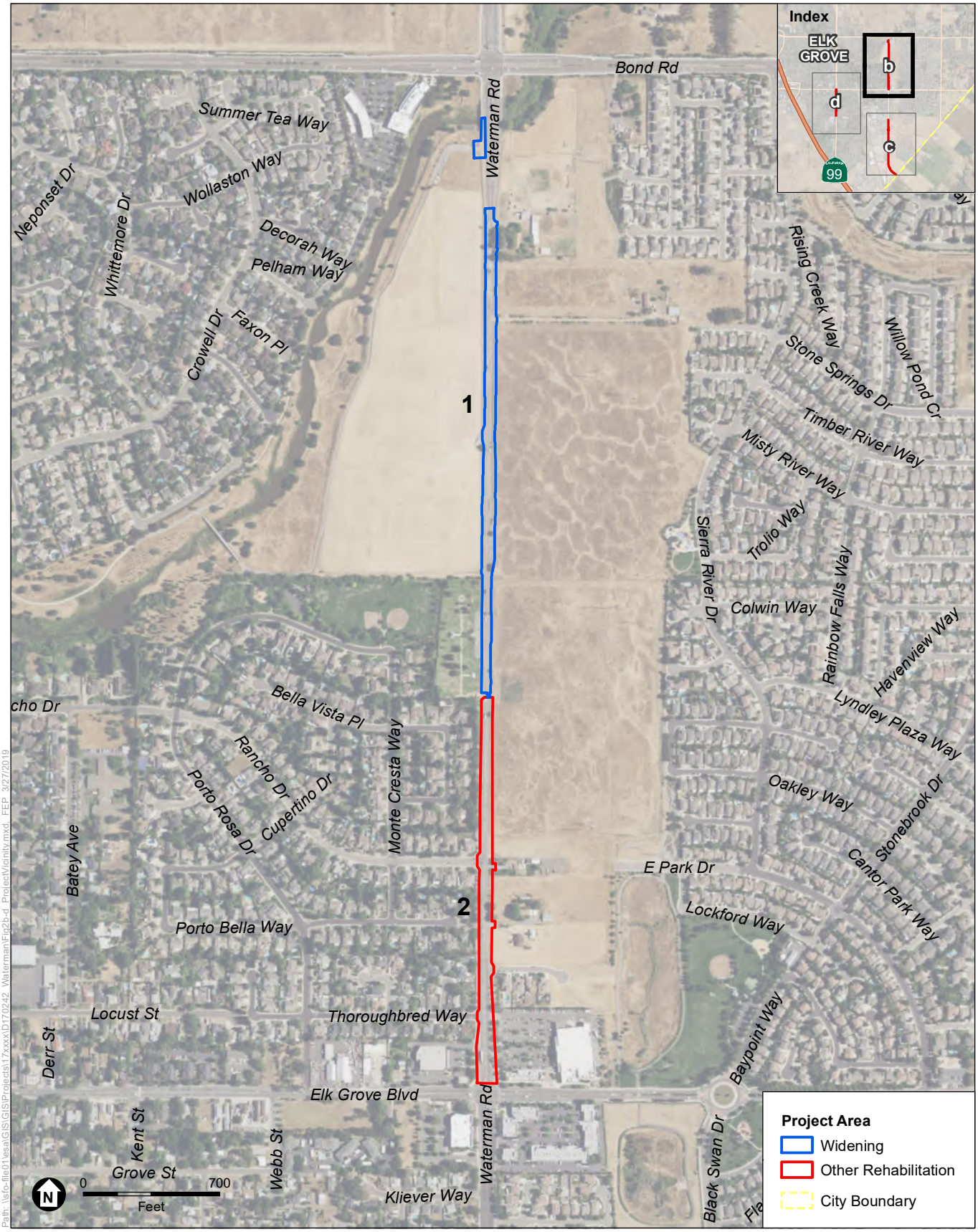


SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2a
Project Vicinity

ESA

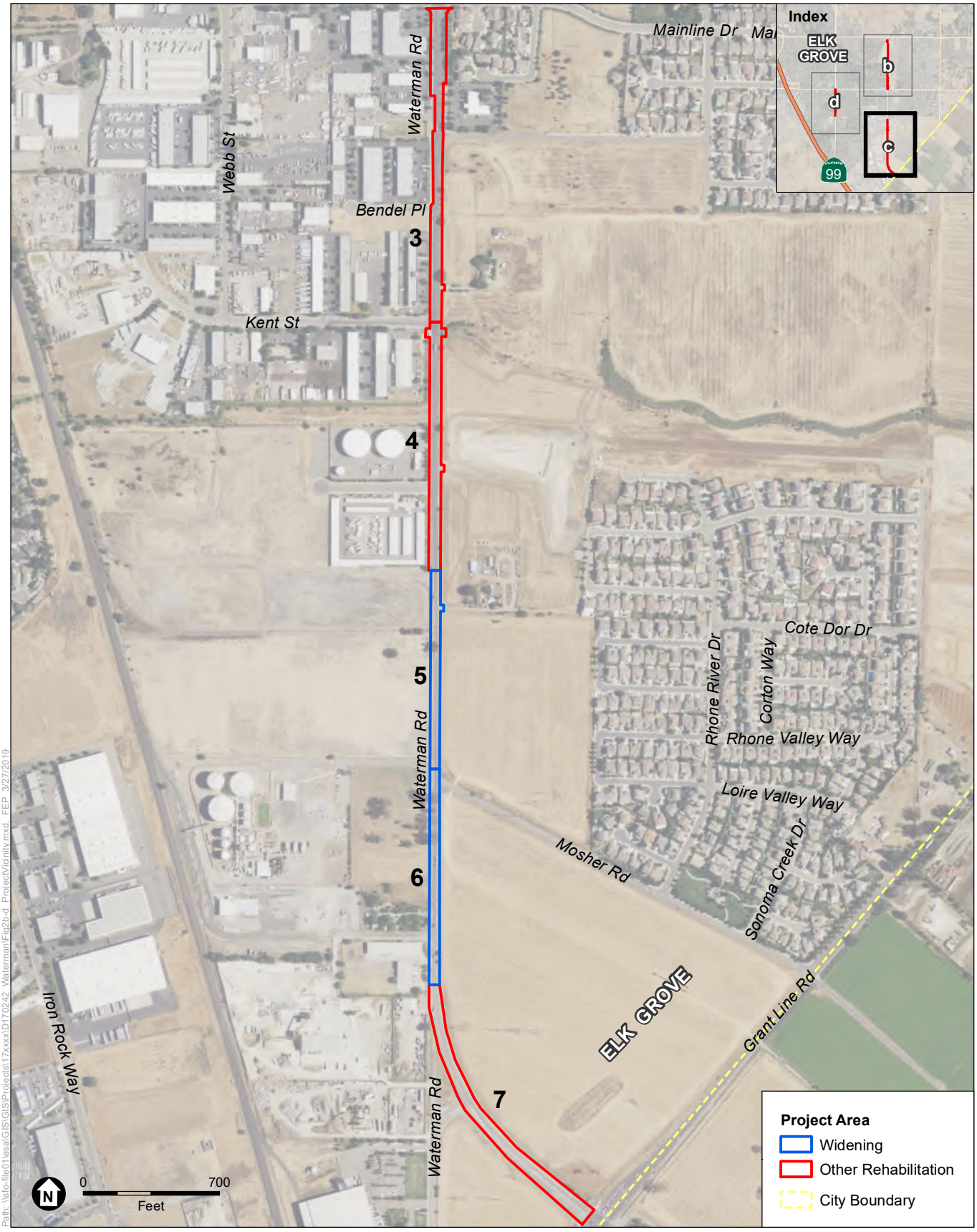


SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2b
Project Vicinity

ESA

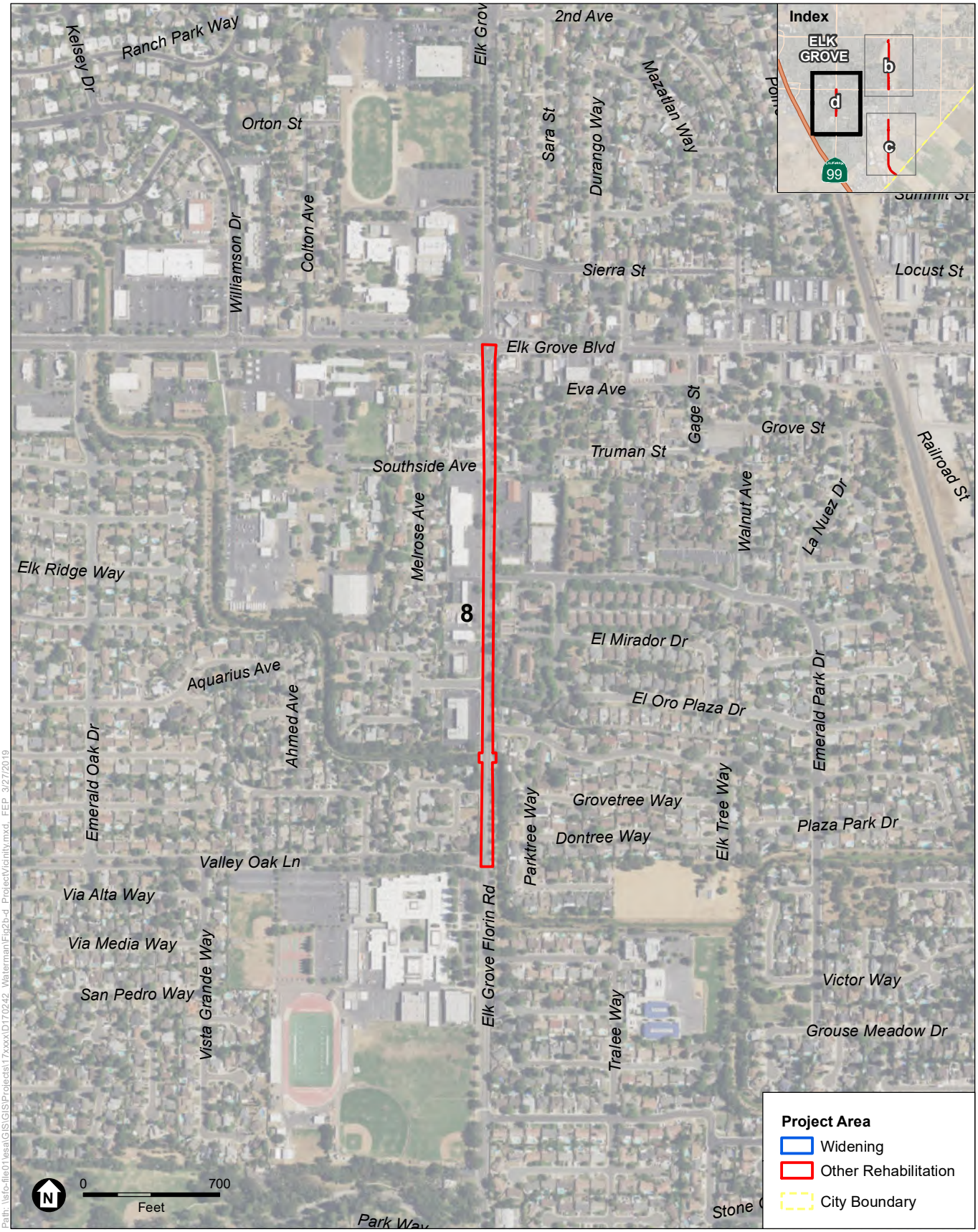


SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2c
Project Vicinity

ESA



SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2d
Project Vicinity

ESA

SECTION 4.0
Records Review and Site Reconnaissance

The purpose of the records review is to obtain and examine records that could help to evaluate potential RECs, HRECs, and CRECs in connection with the proposed project. This section documents the database records search and evaluation of other records that were conducted, and describes the physical setting of the bridge and its immediate area.

4.1 Results of Database Search and Site Reconnaissance

Federal, state, and local regulatory agencies publish databases of businesses and properties that handle hazardous materials or hazardous waste, including those properties with a known release of hazardous substances to soil and/or groundwater. In California, the list of databases is known as the Cortese List, although some of the lists that were a part of the Cortese List are no longer maintained. ESA contracted with a commercial database service to perform the search of regulatory agency records for listings within the appropriate ASTM Standard minimum search distance. The regulatory records search report is provided in Appendix A. Note that the database search service request form map does not allow for searching separate road segments. To acquire full coverage, the request connected the nine segments together to ensure all potential listings were captured. Consequently, numerous sites that are not located along the road segments were also included in the Radius Report in Appendix A. These non-relevant locations were not considered in this ISA since they would not be able to affect the road segments proposed for improvements. In addition, ESA accessed the State Water Resources Control Board (SWRCB) GeoTracker and Department of Toxic Substances Control (DTSC) EnviroStor websites for updated listings and additional details.

The project site consists of eight road segments, none of which appear on any of the searched records for RECs. Numerous sites are listed within 1/8-mile of the project area with a number of sites adjacent to or passing beneath the road segments. Given the nature of the project with work limited to just the roadway, only those sites immediately adjacent to the roadway would have the potential to affect the project. All of the listed sites have been cleaned up to the satisfaction of regulatory agencies, meaning no further action is required, with the landfill discussed below under ongoing monitoring and landfill gas control activities. As discussed below, the available information indicates that residual contamination from these sites is not expected to extend into the roadway segments. The more significant sites and their status are included in the site reconnaissance discussed below, organized from Segment 1 to Segment 8. Certain sites of interest (e.g., the former landfill along Segment 1 and

the service station adjacent to Segment 8) were visually inspected during the site reconnaissance conducted on June 21, 2018, and their regulatory records further researched.

Segment 1: Waterman Road

Segment 1 on Waterman Road extends from just south of Bond Road to the southern edge of the Hilltop Cemetery. A shown on Figure 2b and in the photographs below, most of the adjacent areas are open fields. At the north end is a bridge over Laguna Creek. The depth to surface water in the slough was over ten feet, indicating the road construction activities would not be expected to encounter groundwater.

The closed Elk Grove Landfill is located along the west side of the road south of the bridge (Sacramento County, 2018; RWQCB, 2014). The landfill is a closed 37-acre Class III (non-hazardous waste) solid waste disposal site that began accepting waste about 1961, was deactivated in 1978, received final closure in 1992, and currently has a landfill gas control system operated since 1993. Prior to the landfill, the site was part of a larger property owned by the Department of Defense (DOD) as the Mather Auxiliary Field #5 from 1942 to 1944 (RWQCB, 2013). The DOD had planned to construct an auxiliary airport at the location but never proceeded with the project. The review of aerial photographs in the next section indicates that the landfill and Waterman Road co-existed but the landfill did not extend into Waterman Road. Some groundwater contaminated with volatile organic compounds associated with the landfill extend to beneath some of Segment 1. However, the depth to groundwater in 2017 was over 80 feet below the ground surface for all wells for the entire year. Therefore, construction activities would not be able to reach groundwater.

Segment 1 does not have sidewalks, curbs, and gutters. Rainwater flows to the shoulders and infiltrates into the ground. Occasional pieces of trash were observed. Indications of numerous underground utilities were observed beneath the shoulder areas. No chemical containers, stained soil, or stressed vegetation was observed on either side of Segment 1.

Segment 2: Waterman Road

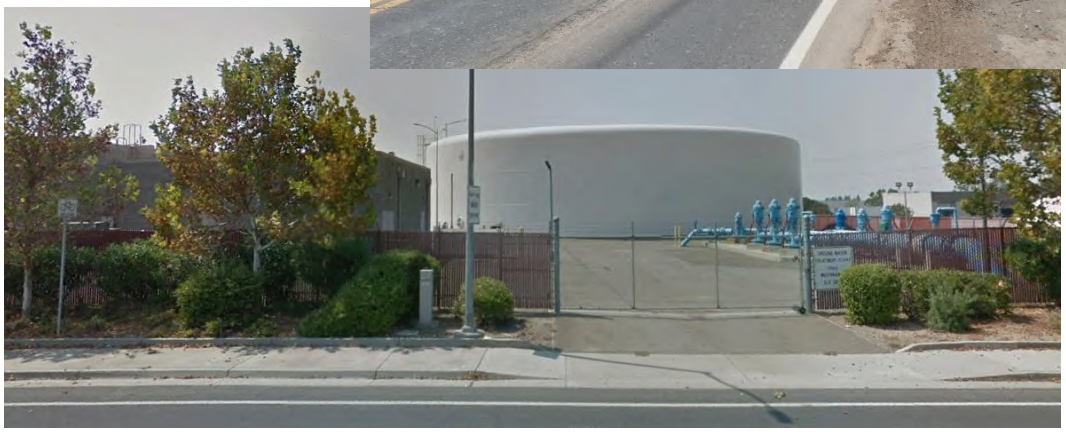
Segment 2 on Waterman Road extends from the southern edge of the Hilltop Cemetery to Elk Grove Boulevard (see Figure 2b). Sidewalks, curbs, and gutters are present along the west side fronting the adjacent residential areas, but not the east side along open fields until reaching Cruz Court. The southernmost extent has commercial businesses, but no service stations or other significant chemical-using businesses. Rainwater on the east side flows to the shoulders and infiltrates into the ground. Rainwater on the west side flows to storm drains and into the stormwater system. Occasional pieces of trash were observed. Indications of underground utilities were observed beneath the shoulder and sidewalk areas. No chemical containers, stained soil, or stressed vegetation was observed on either side of Segment 2.

Segment 3: Waterman Road

Segment 3 on Waterman Road extends from Dino/Mainline Drive to Kent Street (see Figure 2c). Sidewalks, curbs, and gutters are present along the west side, but not the east side from Charolais Way south to Kent Street. Sidewalks, curbs, and gutters are present along the both sides from Dino/Mainline Drive to Charolais Way. Commercial businesses mostly providing automotive maintenance and parts are along the west side but are set well back from the road by parking areas and landscaping. Rainwater on the east side flows to the shoulders and ditches and infiltrates into the ground. Rainwater on the west side flows to storm drains and into the stormwater system. Occasional pieces of trash were observed. Indications of underground utilities were observed beneath the shoulder and sidewalk areas. No chemical containers, stained soil, or stressed vegetation was observed on either side of Segment 3.

Segment 4: Waterman Road

Segment 4 on Waterman Road extends from Kent Street to halfway between Brinkman Court and Webb Street (see Figure 2c). Sidewalks, curbs, and gutters are present along the west side, but not the east side. Rainwater on the east side flows to the shoulders and ditches and infiltrates into the ground. Rainwater on the west side flows to storm drains into the stormwater system. Commercial businesses and the East Elk Grove Water Treatment Plant are located along the west side but are set well back from the road by parking areas and landscaping. A pond likely associated with the treatment plant is on the east side but set well back from the road. The former Kingsford Charcoal Plant is listed as a leaking underground storage tank (LUST) site that was cleaned up as of 1996; the site was issued a no further action letter (GeoSearch, 2018). The former LUST was set well back from the road. Occasional pieces of trash were observed. Indications of underground utilities were observed beneath the shoulder and sidewalk areas. No chemical containers, stained soil, or stressed vegetation was observed along Segment 4.



Segments 5 and 6: Waterman Road

Segments 5 and 6 on Waterman Road extend from halfway between Brinkman Court and Webb Street to where Waterman Road curves to the southeast (see Figures 1 and 2c). Sidewalks, curbs, and gutters are not present along Segments 5 and 6. Rainwater flows to the shoulders and ditches and infiltrates into the ground. Occasional pieces of trash were observed. Indications of underground utilities were observed beneath the shoulder areas. An electrical substation is present along the west side but has no visible indications of transformer oil leaks. An asphalt plant is on the west side of Segment 6 but is set well back from the road. The plant had a LUST cleaned up and closed as of 1986. No chemical containers, stained soil, or stressed vegetation was observed on either side of Segments 5 or 6.

Segment 7: Waterman Road

Segment 7 on Waterman Road curves from the southern end of Waterman Road to Grant Line Road (see Figure 2c). Sidewalks, curbs, and gutters are not present along Segment 7. Rainwater flows to the shoulders and ditches and infiltrates into the ground. Most of both sides of this segment are open fields. Some industries are present along the west side, including an aggregate processing facility, but are set back from the road. Occasional pieces of trash were observed. Indications of underground utilities were observed beneath the shoulder and sidewalk areas. No chemical containers, stained soil, or stressed vegetation was observed on either side of Segment 7.

Segment 8: Elk Grove Florin Road

Segment 8 on Elk Grove Florin Road extends from Elk Grove Boulevard to Valley Oak Lane (see Figure 2d). Sidewalks, curbs, and gutters are present along both sides of this segment but have a mix of configurations. Most of the segment is fronted by various commercial businesses mostly set back from the road by parking or landscaping. A few residences are also present. A high school is present at the southwest end of the segment.

Rainwater flows to storm drains and into the stormwater system. An unlined flood control channel is present along the east side at the southern portion of the segment and crosses under Segment 8 between Plaza Park Drive and Cadura Circle. Occasional pieces of trash were observed. Underground utilities were noted beneath the sidewalk areas. No chemical containers, stained soil, or stressed vegetation was observed on either side of Segment 8.

A Shell service station is located on the northeast corner of Elk Grove Florin Road and Elk Grove Road north of Segment 8. This station is listed as a former LUST site (Cambria, 2006). However, soil and groundwater contamination has been cleaned up and the regulatory agency closed this case. The depths to groundwater in site monitoring wells were all over 90 feet below the ground surface and construction activities would not be able to reach groundwater.

Photographs along this segment are provided below and on the next page.


Valley Oak

Summary

All of the hazardous materials sites listed in the regulatory agency records were sites that used hazardous materials but either had no recorded violations or releases, or were sites that have been cleaned up to the satisfaction of the regulatory agencies. The listed sites are all set back from the road segments and the depth to groundwater is well below the anticipated depths of proposed construction activities. No chemical containers, stained soil, or stressed vegetation was observed during the site reconnaissance.

4.2 Other Records Reviewed

The regulatory agency records search also provides historical aerial photographs, historical topographic maps, fire insurance maps, and city directories for review. The results of the review of these other records are discussed below.

Historical Aerial Photographs. The records search includes historical aerial photographs for the years 1937, 1952, 1961, 1967, 1977, 1987, 1993, 1998, 2003, 2004, 2005, 2006, 2010, 2012, 2014, and 2016, all included in Appendix B.

Waterman Road – Segments 1 through 7

The 1937 aerial photograph shows most of Waterman Road bordered by open fields or agricultural fields. Occasional residences are present along the road. At the northern end of Segment 1, Waterman Road has a diagonal bridge across Laguna Creek, which is a bit north of its current alignment. Some unimproved roads, other grading, and small structures are visible along the west side of Segments 1 and 2 but the use is unclear. At the southern end of Waterman Road, the curved road section of the current Segment 7 has not yet been constructed.

The 1952 and 1961 aerial photographs are similar to the 1937 aerial photograph. The west side of Segments 3 through 6 show some development that appears to be either farming structures and equipment or of industrial use.

The 1967 aerial photograph is of better quality. The Elk Grove Landfill is visible along the west side of Segment 1, replacing the earlier dirt roads and grading of uncertain use. The dirt roads, grading, and structures along Segment 2 are still present. A property filled with vehicles and/or equipment is visible just west of the northern portioin of Segment 7.

The 1977 aerial photograph is of poor quality. The landfill along Segment 1 has expanded. The current Alon Asphalt Company facility (formerly known as World Asphalt at 10146 Waterman Road) is visible west of Segment 6 but well off the road.

The 1987 aerial photograph is of poor quality. At the northern end of Segment 1, Laguna Creek has been rerouted and the current bridge is present. The southern end of Segment 2 shows new development of unclear use. Additional industrial development is present along the west side of Segment 6.

The 1993 aerial photograph shows the landfill has been closed and capped. Extensive residential development has occurred along the west side of Segment 2. New streets have been laid out along

Segment 3 with some new industrial or commercial buildings, along most of the surrounding use is still agricultural.

The 1998 aerial photograph shows completion of the residential development along the west side of Segment 2.

The 2003 aerial photograph is largely unchanged from 1998.

The 2004 aerial photograph shows the present-day cemetary along the wstern side of Segment 2 and the present day commercial development at the northeast corner of Waterman Road and Elk Grove Boulevard.

The 2005 through 2010 aerial photographs show no significant changes from the previous aerial photograph.

The 2012 aerial photographs shows the curved section of Waterman Road in Segment 7 has been constructed to connect with Grant Line Road.

The 2014 and 2016 aerial photographs show no significant changes from the previous aerial photograph.

Elk Grove – Florin Road – Segment 8

The 1937 aerial photograph shows both sides of Segment 8 to be in agricultural use with a few individual structures that are likely residences or barns.

The 1952 aerial photograph shows additional structures at the intersection Elk Grove Florin Road with Elk Grove Boulevard. The structures appear to be residential but may also have been in commercial use.

The 1961 aerial photograph shows additional development along northwest side of the segment, consistent with residential development.

The 1967 aerial photograph shows residential development along the southeast side of the segment. The high school is present at the southwest portion of the segment. The structures along the northwest portion of the segment are varied in size and appear to be of commercial or possibly small industrial use.

The 1977 aerial photograph shows continuing development in the area with some agricultural use continuing along the south west portion of the segment.

The 1987 aerial photograph is of poor quality. Both sides of the segment have been competely developed. The mix of building sizes indicates commercial and possibly small industrial use. The site reconnaisance indicated a few residences are still present.

The 1993 through 2016 aerial photographs show no significant changes from the previous aerial photograph.

Aerially Deposited Lead. As noted in the review of aerial photographs above, the roads of the subject project have existed since before 1937. This means the roads have existed throughout the

time period during which lead was used in gasoline from the 1920s through the 1970s (US EPA, 1985). The use of lead in gasoline, as well as other uses, is known to have resulted in increased concentrations of what is referred to as aerially deposited lead in soil along roadways. Given the time frame, soil along the sides of the subject roadways may have concentrations of lead above action levels.

Historical Topographic Maps. The records search includes historical topographic maps for the years 1894, 1909, 1941, 1952, 1953, 1968, 1975, 1980, and 2012, included in Appendix B.

The 1894 topographic map shows the City of Elk Grove limited to the intersection with the railroad, west of the project segments. Elk Grove Boulevard is present; Waterman Road and Elk Grove – Florin Road are not shown and may not have existed in 1894.

The 1909 topographic map is limited to the area west of Elk Grove-Florin Road and shows no development.

The 1941 topographic map shows Elk Grove and the surrounding area as more developed and all nine road segments exist excpet for the curved Segment 7. A few structures are shown along all segments. At the north end of Segment 1 on Waterman Road are three circle symbols with an "x" with longer lower legs over circles with dots; these represent "located or landmark object" (e.g., windmill) and are not water, oil, or natural gas wells.

The 1952 topographic map is a closer in view showing Elk Grove and the surrounding area as more developed. The cemetary along the northern portion of Waterman Road (Segment 2) is present. Most of the areas along the road segments are shown as mostly undeveloped. One powerline is shown parallel and east of Waterman Road.

The 1953 topographic map is limited to the area west of Elk Grove-Florin Road and shows no development.

The 1968 topographic maps show additional development along Elk Grove Boulevard and some on Elk Grove-Florin Road. Union High School is present at the southern end of Elk Grove-Florin Road (Segment 8) with additional development along this segment. Three powerlines are shown parallel and east of Waterman Road.

The 1975 topographic maps show additional development in the area with some development along Waterman Road along Segment 6 (e.g., the power substation). Most of the areas along Waterman Road and Elk Grove Boulevard are still largely undeveloped.

The 1979 topographic map shows additional development in the area with more development along Waterman Road along Segments 3, 4, 5, and 6, and more residences along Elk Grove Boulevard.

The 1980 topographic map is limited to the area west of Elk Grove-Florin Road and shows additional development that appears to be residential.

The 2012 topographic maps show the area as currently developed except for the curved section at the south end of Waterman Road (Segment 7).

Fire Insurance Maps. Fire insurance maps were available for 1884, 1895, 1905, 1912, 1926, and 1941, and are provided in Appendix B. However, the areas covered are for older areas of Elk Grove that do not cover any of the project's nine road segments.

City Directories. The records search includes city directories with a focus on Elk Grove Florin Road (Segment 8), the more developed portion of the project site, and included in Appendix B. There are no directories available prior to 1970. The directories were reviewed for listings that would indicate chemical useage. The majority of the listings are for individuals, listings that would not indicate chemical use, or for retail/commercial businesses that would not be expected to use substantial quanitities of chemicals. Listings that suggest possible substantial chemical use are discussed below.

- 9716 Elk Grove Florin Road – Sherwin Williams (1994 to present) – This site is a retail outlet for paint and not a manufacturing facility. Therefore, this site is unlikely to have affected soil in the proposed road construction area.

- 9720 Elk Grove Florin Road - Big O Tires (1990 to 2016) – This site is currently the Elk Grove Tire Pros, an automotive repair shop that includes hydraulic lifts for vehicles. In addition to tire repair and replacement, this shop conducts oil changes and brake repairs and therefore uses hazardous materials and generates hazardous waste. However, the the front of the shop is set back 75 feet from the existing sidewalk by a parking and landscaping area and the facility has no listed violations. Therefore, this site is unlikely to have affected soil in the proposed road construction area.

- 9734 Elk Grove Florin Road – Desert Cleaners (2007 but not 2011 through 2016) – This listing is in the same building as the Moonlight Cleaners discussed below and is assumed to be the same facility.

- 9738 Elk Grove Florin Road – Ken's Mobile RV Repair (2007 to 2011) – This business is no longer located at the indicated address. The building is a commercial structure and does not include bays for vehicle repair. Ken's Mobile RV Repair is now listed on the internet by phone number and a P.O. box number. It appears that they were previously located in one of the rooms in this building. Their website indicates they come to wherever your vehicle is and do the repairs there. Therefore, this business is unlikely to have affected soil in the proposed road construction area.

- 9754 Elk Grove Florin Road – Moonlight Cleaners (1994 to present) – The sign on the door states that the cleaning is "done on premises" and therefore this facility uses hazardous materials and generates hazardous waste in the form of dry cleaning solvents (i.e., perchloroethene). However, the front of the cleaners building is set back 60 feet from the existing sidewalk by a parking and landscaping area and the facility has no listed violations. Therefore, this site is unlikely to have affected soil in the proposed road construction area.

- 9754 Elk Grove Florin Road – Stephen Anthony Photography (2016 listing) – This business is not listed on the business sign for this building and it is uncertain if this business occupies

some smaller portion of the facility. The business does have a website and specializes in wedding photography. Given the nature of this business, they might use small quantities of photographic chemicals, although most present-day photography is entirely digital. However, even if they do use chemicals, the front of this building is set back 60 feet from the existing sidewalk by a parking and landscaping area and the business has no listed violations. Therefore, this business is unlikely to have affected soil in the proposed road construction area.

4.3 Physical Setting

The following sections provide information about the physical setting of the project site obtained from published reports and maps, as referenced. Geotechnical information is not a required element of ASTM E1527-13 Phase I assessments and is not included in this ISA.

Topography and Flood Zone. The nine segments are located in the Elk Grove, California, 7.5 Minute Quadrangle at elevations ranging from about 45 to 65 feet above mean sea level (GeoSearch, 2018). The overall topographic relief is flat with a gradual slope to the west. Areas within the 100-year flood zone were checked using the Federal Emergency Management Agency (FEMA, 2018). Sections located within the 100-year flood zone include the portion of Laguna Creek that passes under the bridge at the northern end of Segment 1 and the portion of Elk Grove Creek that passes under Elk Grove – Florin Road in a floodway channel under Segment 8 between Plaza Park Drive and Cadura Circle. Appendix B includes the FEMA maps of these sections.

Geology and Seismicity. The project site lies within the Great Valley geomorphic province of California, which is an alluvial plain about 50 miles wide and 400 miles long in the central part of California. The Great Valley is a trough in which sediments have been deposited almost continuously from the Jurassic Era (about 160 million years ago) to recent time. No active faults or Alquist-Priolo fault zones are designated in the area. Faults mapped as an Alquist-Priolo fault are active faults with movement within the last 11,000 years (Holocene time) (Bryant and Hart, 2007). The Elk Grove area is underlain by the Arroyo Seco Gravel to about 20 feet and then the Laguna Formation comprised of clayey sand and gravel with some silty clays and thin sandy beds to at least 180 feet below the ground surface (Sacramento County, 2018).

SECTION 5.0
Findings and Opinions

5.1 Findings and Opinions

Relevant federal, state, and local regulatory agency lists for sites at or near the project site were reviewed. The eight road segments were not identified in any of the database search results or by the regulatory agencies. Some sites adjacent to the road segments were listed for prior cleanup actions that have been completed. Segment 1 is adjacent to a closed landfill that has contaminated groundwater; however, the depth to groundwater is more than 80 feet and construction activities along this segment would not encounter groundwater associated with the landfill. A service station that previously underwent cleanup due to a fuel leak is located adjacent and north of Segment 8; however, the depth to groundwater was over 90 feet in 2006 and construction activities along this segment would not encounter groundwater associated with the service station cleanup. Various other sites have records of past minor releases that have been cleaned up and the cases closed by regulatory agencies. Various businesses that use hazardous materials are located along the segments but none are listed on regulatory records as having violations or hazardous materials releases. In addition, all of the listed facilities are set back from the road segments. Given the setback distances and the depth to groundwater of at least 80 feet, it is unlikely that any of the listed sites would be able to affect soil conditions in the road segments.

The site reconnaissance did not observe any RECs and verified that previous sites with cleanup actions are set back from the road. Some of the road segments have dirt shoulders or ditches without sidewalks or gutters. Some trash was observed in the ditches and shoulder areas; however, no containers, staining indicative of chemical releases, or stressed vegetation was observed. The trash and debris are considered a *de minimus* condition because the materials can be recycled or disposed of at any Class III (non-hazardous materials) landfill.

Therefore, this ISA did not identify any known RECs and no environmental issues are anticipated during construction activities.

Although not an ASTM 1527 Phase I assessment consideration, it should be noted limited portions of Segments 1 and 8 are located within the 100-year flood zone. Construction activities would need to account for any changes that would affect the existing floodway configurations. In addition, various underground utilities were noted along the sides of most road segments. Construction activities will need to account for these utilities.

In addition, as noted in the review of aerial photographs, soil along the sides of the subject roadways may have concentrations of lead above action levels. Caltrans and the DTSC have developed guidance for evaluating and addressing aerially deposited lead at http://www.dot.ca.gov/env/hazwaste/adl.html. The investigation for aerially deposited lead would be included in the Preliminary Site Assessment (PSI) conducted for this project.

5.2 Data Gaps

ESA attempted to obtain reasonably ascertainable information regarding the bridge and the surrounding environs within the limited scope of work. There were no data gaps identified that could affect the identification of RECs, HRECs, or CRECs at the parcels.

SECTION 6.0
Report Authors and Qualifications

This section includes qualification statements of the environmental professionals responsible for conducting the Phase I assessment and preparing this report.

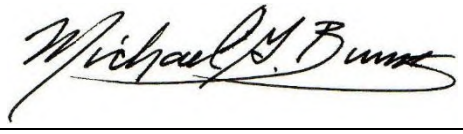
Mr. Michael Burns, PG, CEG, CHG, of ESA conducted the data review for the bridge, conducted the site reconnaissance, and prepared the Initial Site Assessment report. Mr. Burns has over 30 years of experience in environmental site investigations, characterizations, and assessments, including Initial Site Assessments.

The work conducted and the report written by Mr. Burns was reviewed by Mr. Luke Evans. Mr. Evans has 20 years of experience in environmental site investigations, characterizations, and assessments, including Initial Site Assessments.

Mr. Burns declares that, to the best of his professional knowledge and belief, he meets the definition of Environmental Professional as defined in 40 CFR §312.10. Mr. Evans declares that, to the best of his professional knowledge and belief, he meets the definition of Environmental Professional as defined in 40 CFR §312.10.

Mr. Burns has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of this property. With the assistance of Mr. Evans, he has developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

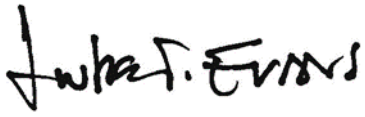
Principal Analyst/Reviewer:



March 26, 2019

Michael G. Burns, PG #4532

Senior Reviewer:



March 26, 2019

Luke Evans, Program Manager

SECTION 7.0
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US EPA, 1985, *Lead Poisoning: A Historical Perspective*, May

APPENDIX A

Regulatory Records Radius Report

GeoSearch
On time. On target. In touch.™

Radius Report

NEW: *GeoLens by Geosearch*

Target Property:

Elk Grove ISA
Elk Grove Blvd
Elk Grove, Sacramento County, California 95624

Prepared For:

Environmental Science Assoc-San Francisco

Order #: 110314
Job #: 243489
Project #: D170242
PO #: D270242-29
Date: 06/21/2018

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Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR ï¿½312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal,state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR ï¿½312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Summary

Target Property Information

Elk Grove ISA
Elk Grove Blvd
Elk Grove, California 95624

Coordinates
Corridor

USGS Quadrangle
Elk Grove, CA

Geographic Coverage Information

County/Parish: Sacramento (CA)
ZipCode(s):
Elk Grove CA: 95624, 95757, 95758

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSCA	1	1	TP/AP
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR09	7	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR09	3	0	0.1250
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	0	0	0.5000
NATIONAL PRIORITIES LIST	NPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	0	0	1.0000

SUB-TOTAL		11	1	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	0	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR09	0	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
FACILITY REGISTRY SYSTEM	FRSCA	10	0	TP/AP
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR09	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR09	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR09	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	0	0	TP/AP
ALTERNATIVE FUELING STATIONS	ALTFUELS	2	0	0.2500
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	2	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	0	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000
SUB-TOTAL		14	0	

Database Summary

STATE (CA) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
DTSC DEED RESTRICTIONS	DTSCDR	0	0	TP/AP
ABOVE GROUND STORAGE TANKS	ABST	4	0	0.2500
ABOVEGROUND STORAGE TANKS PRIOR TO JANUARY 2008	AST2007	4	0	0.2500
HISTORICAL UNDERGROUND STORAGE TANKS	HISTUST	14	1	0.2500
STATEWIDE ENVIRONMENTAL EVALUATION AND PLANNING SYSTEM	SWEEPS	13	1	0.2500
UNDERGROUND STORAGE TANKS	USTCUPA	6	0	0.2500
BROWNFIELD SITES	BF	0	0	0.5000
CALSITES DATABASE	CALSITES	0	0	0.5000
GEOTRACKER CLEANUP SITES	CLEANUPSITES	15	0	0.5000
LEAKING UNDERGROUND STORAGE TANKS	LUST	13	0	0.5000
SOLID WASTE INFORMATION SYSTEM SITES	SWIS	1	0	0.5000
VOLUNTARY CLEANUP PROGRAM	VCP	0	0	0.5000
ENVIROSTOR CLEANUP SITES	ENVIROSTOR	7	0	1.0000
ENVIROSTOR PERMITTED AND CORRECTIVE ACTION SITES	ENVIROSTORPCA	0	0	1.0000

SUB-TOTAL		77	2	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
CALIFORNIA HAZARDOUS MATERIAL INCIDENT REPORT SYSTEM	CHMIRS	10	1	TP/AP
CLANDESTINE DRUG LABS	CDL	0	0	TP/AP
EMISSIONS INVENTORY DATA	EMI	0	0	TP/AP
HAZARDOUS WASTE TANNER SUMMARY	HWTS	14	0	TP/AP
LAND DISPOSAL SITES	LDS	1	0	TP/AP
MILITARY CLEANUP SITES	MCS	1	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM FACILITIES	NPDES	5	0	TP/AP
RECORDED ENVIRONMENTAL CLEANUP LIENS	LIENS	0	0	TP/AP
CALIFORNIA MEDICAL WASTE MANAGEMENT PROGRAM FACILITY LIST	MWMP	0	0	0.2500
DTSC REGISTERED HAZARDOUS WASTE TRANSPORTERS	DTSCHWT	0	0	0.2500
DRY CLEANER FACILITIES	CLEANER	8	0	0.2500
MINES LISTING	MINES	0	0	0.2500

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
SPILLS, LEAKS, INVESTIGATION & CLEANUP RECOVERY LISTING	SLIC	2	0	0.2500
CORTESE LIST	CORTESE	0	0	0.5000
EXPEDITED REMOVAL ACTION PROGRAM SITES	ERAP	0	0	0.5000
HISTORICAL CORTESE LIST	HISTCORTESE	14	0	0.5000
LISTING OF CERTIFIED DROPOFF, COLLECTION, AND COMMUNITY SERVICE PROGRAMS	DROP	2	0	0.5000
LISTING OF CERTIFIED PROCESSORS	PROC	0	0	0.5000
NO FURTHER ACTION DETERMINATION	NFA	0	0	0.5000
RECYCLING CENTERS	SWRCY	7	0	0.5000
REFERRED TO ANOTHER LOCAL OR STATE AGENCY	REF	0	0	0.5000
SITES NEEDING FURTHER EVALUATION	NFE	0	0	0.5000
WASTE MANAGEMENT UNIT DATABASE	WMUDS	1	0	0.5000
TOXIC PITS CLEANUP ACT SITES	TOXPITS	0	0	1.0000

SUB-TOTAL		65	1	

Database Summary

LOCAL LISTING

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
SACRAMENTO COUNTY HAZARDOUS MATERIALS SITES	SCHMS	17	0	TP/AP
SACRAMENTO COUNTY TOXIC CASE LIST	SCTL	15	0	0.5000
SUB-TOTAL		32	0	

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR09	0	0	0.2500
ILLEGAL DUMP SITES ON THE TORRES MARTINEZ RESERVATION	TORRESDUMPSITES	0	0	0.5000
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR09	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	

TOTAL		199	4	

Database Radius Summary

FEDERAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	0	NS	NS	NS	NS	NS	0
BRS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
ECHOR09	0.0200	0	NS	NS	NS	NS	NS	0
ERNSCA	**0.0200**	**1**	**NS**	**NS**	**NS**	**NS**	**NS**	**1**
FRSCA	0.0200	10	NS	NS	NS	NS	NS	10
HMIRSR09	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	0	NS	NS	NS	NS	NS	0
ICISNPDES	0.0200	0	NS	NS	NS	NS	NS	0
LUCIS	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDESR09	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR09	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
RCRAGR09	**0.1250**	**0**	**7**	**NS**	**NS**	**NS**	**NS**	**7**
RCRANGR09	**0.1250**	**0**	**3**	**NS**	**NS**	**NS**	**NS**	**3**
ALTFUELS	0.2500	0	1	1	NS	NS	NS	2
FEMAUST	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
HISTPST	0.2500	0	0	0	NS	NS	NS	0
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	0	0	2	NS	NS	NS	2
MSHA	0.2500	0	0	0	NS	NS	NS	0
BF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
DNPL	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
NLRRCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SEMS	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SEMSARCH	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SMCRA	0.5000	0	0	0	0	NS	NS	0
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
NMS	1.0000	0	0	0	0	0	NS	0
NPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
PNPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRASUBC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		11	11	3	0	0	0	25

Database Radius Summary

STATE (CA) LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
CDL	0.0200	0	NS	NS	NS	NS	NS	0
CHMIRS	0.0200	10	NS	NS	NS	NS	NS	10
DTSCDR	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
EMI	0.0200	0	NS	NS	NS	NS	NS	0
HWTS	0.0200	14	NS	NS	NS	NS	NS	14
LDS	0.0200	1	NS	NS	NS	NS	NS	1
LIENS	0.0200	0	NS	NS	NS	NS	NS	0
MCS	0.0200	1	NS	NS	NS	NS	NS	1
NPDES	0.0200	5	NS	NS	NS	NS	NS	5
ABST	**0.2500**	**0**	**2**	**2**	**NS**	**NS**	**NS**	**4**
AST2007	**0.2500**	**0**	**2**	**2**	**NS**	**NS**	**NS**	**4**
CLEANER	0.2500	3	3	2	NS	NS	NS	8
DTSCHWT	0.2500	0	0	0	NS	NS	NS	0
HISTUST	**0.2500**	**4**	**6**	**4**	**NS**	**NS**	**NS**	**14**
MINES	0.2500	0	0	0	NS	NS	NS	0
MWMP	0.2500	0	0	0	NS	NS	NS	0
SLIC	0.2500	1	0	1	NS	NS	NS	2
SWEEPS	**0.2500**	**6**	**4**	**3**	**NS**	**NS**	**NS**	**13**
USTCUPA	**0.2500**	**0**	**4**	**2**	**NS**	**NS**	**NS**	**6**
BF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
CALSITES	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
CLEANUPSITES	**0.5000**	**6**	**6**	**3**	**0**	**NS**	**NS**	**15**
CORTESE	0.5000	0	0	0	0	NS	NS	0
DROP	0.5000	1	0	0	1	NS	NS	2
ERAP	0.5000	0	0	0	0	NS	NS	0
HISTCORTESE	0.5000	4	6	4	0	NS	NS	14
LUST	**0.5000**	**4**	**6**	**3**	**0**	**NS**	**NS**	**13**
NFA	0.5000	0	0	0	0	NS	NS	0
NFE	0.5000	0	0	0	0	NS	NS	0
PROC	0.5000	0	0	0	0	NS	NS	0
REF	0.5000	0	0	0	0	NS	NS	0
SWIS	**0.5000**	**1**	**0**	**0**	**0**	**NS**	**NS**	**1**
SWRCY	0.5000	0	3	1	3	NS	NS	7
VCP	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
WMUDS	0.5000	1	0	0	0	NS	NS	1

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
ENVIROSTOR	**1.0000**	**1**	**0**	**1**	**1**	**4**	**NS**	**7**
ENVIROSTORPCA	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
TOXPITS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		63	42	28	5	4	0	142

Database Radius Summary

LOCAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SCHMS	0.0200	17	NS	NS	NS	NS	NS	17
SCTL	0.5000	4	7	4	0	NS	NS	15
SUB-TOTAL		21	7	4	0	0	0	32

Database Radius Summary

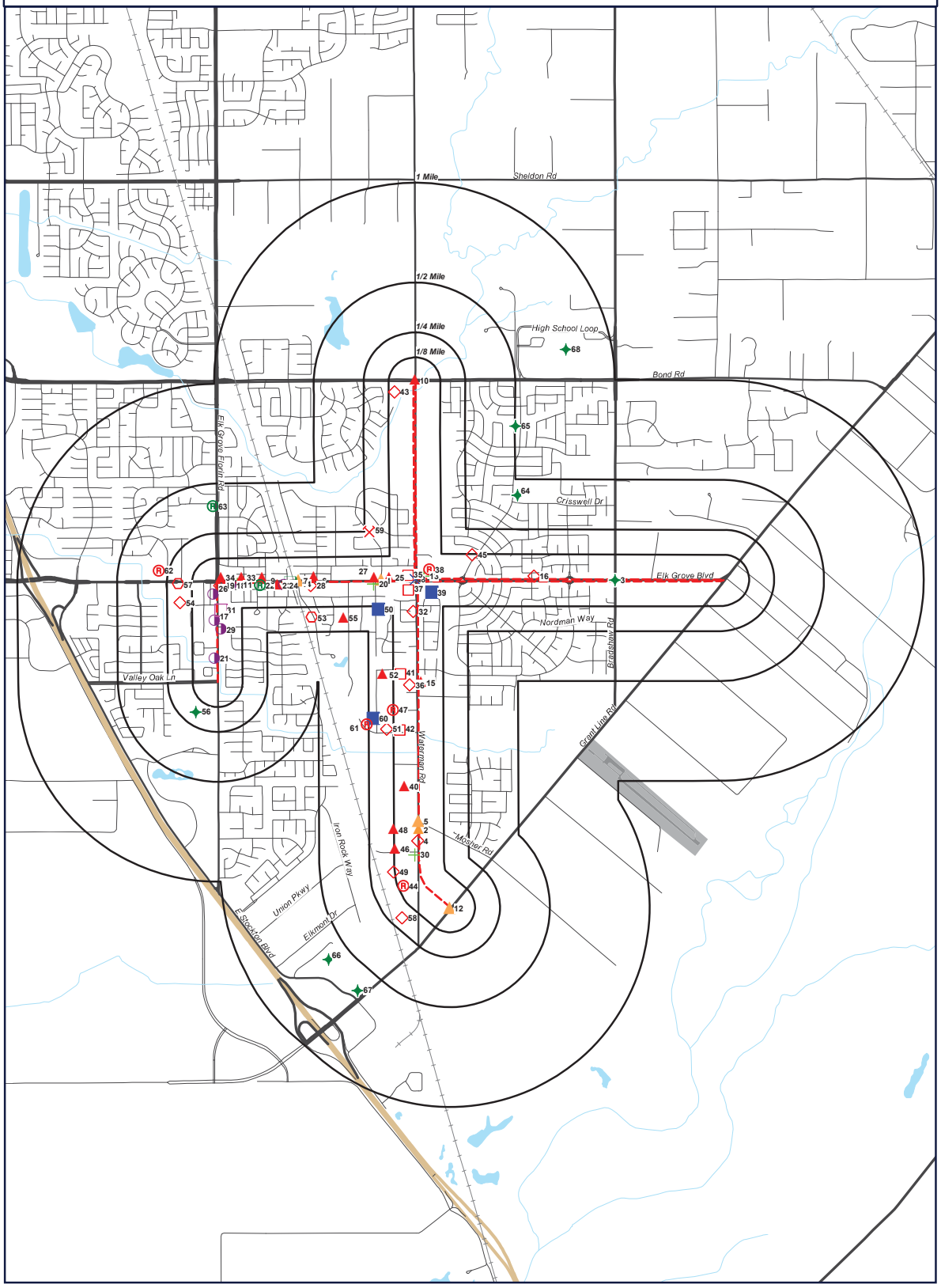
TRIBAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR09	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
LUSTR09	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODINDIAN	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
TORRESDUMPSITES	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
INDIANRES	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0
TOTAL		95	60	35	5	4	0	199

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

RADIUS MAP



Target Property (TP)

- CHMIRS
- ENVIROSTOR
- SWEEPS
- CLEANUPSITES
- ERNSCA
- SCHMS
- FRSCA
- HWTS
- DROP
- RCRANGR09
- AST2007
- RCRAGR09
- ABST
- SWRCY
- CLEANER
- USTCUPA
- HISTCORTESE
- MRDS

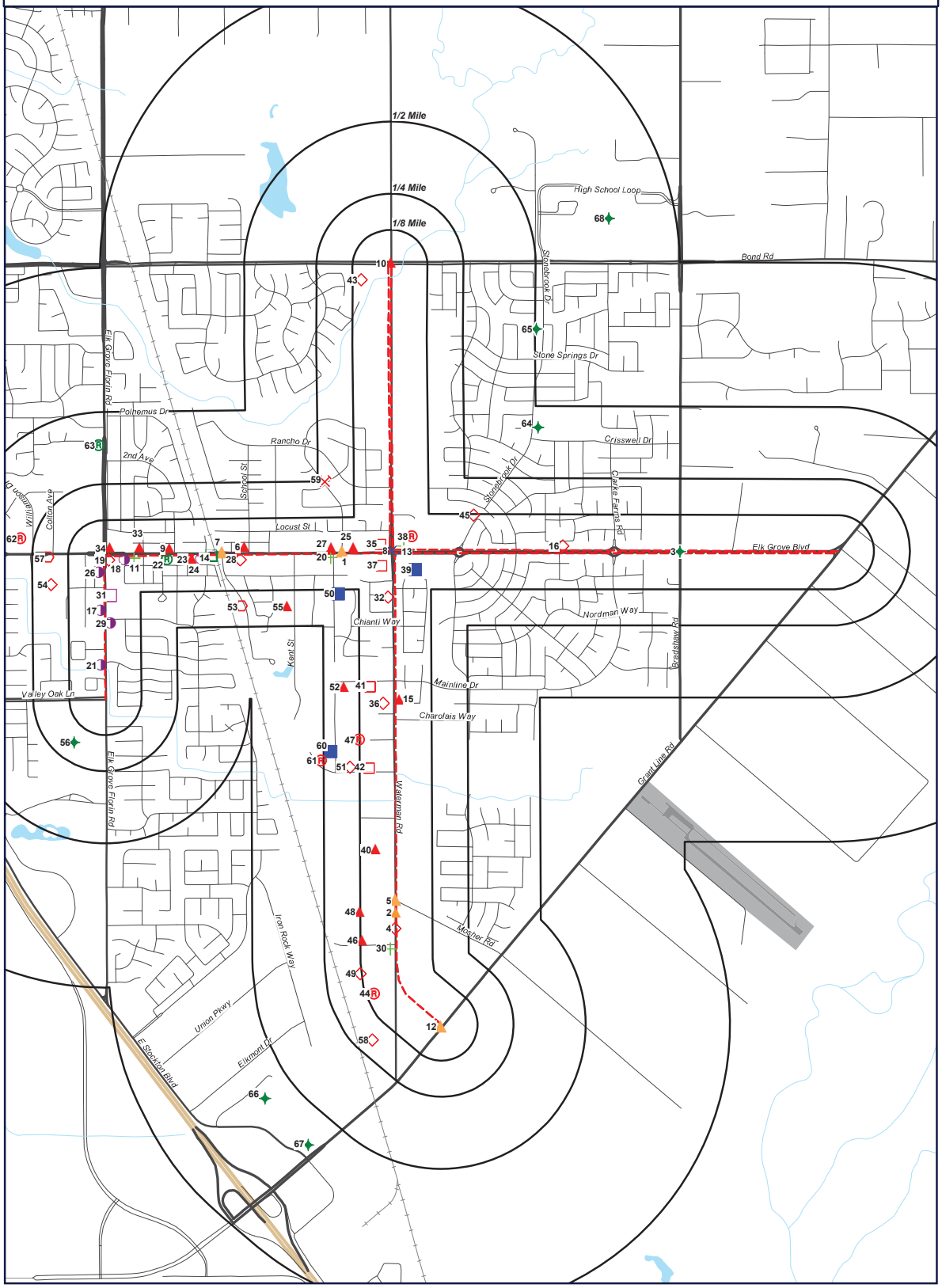
Elk Grove ISA
Elk Grove Blvd
Elk Grove, California
95624

N W E S

0' 1300' 2600' 3900'

SCALE: 1" = 2600'

RADIUS MAP



Target Property (TP)

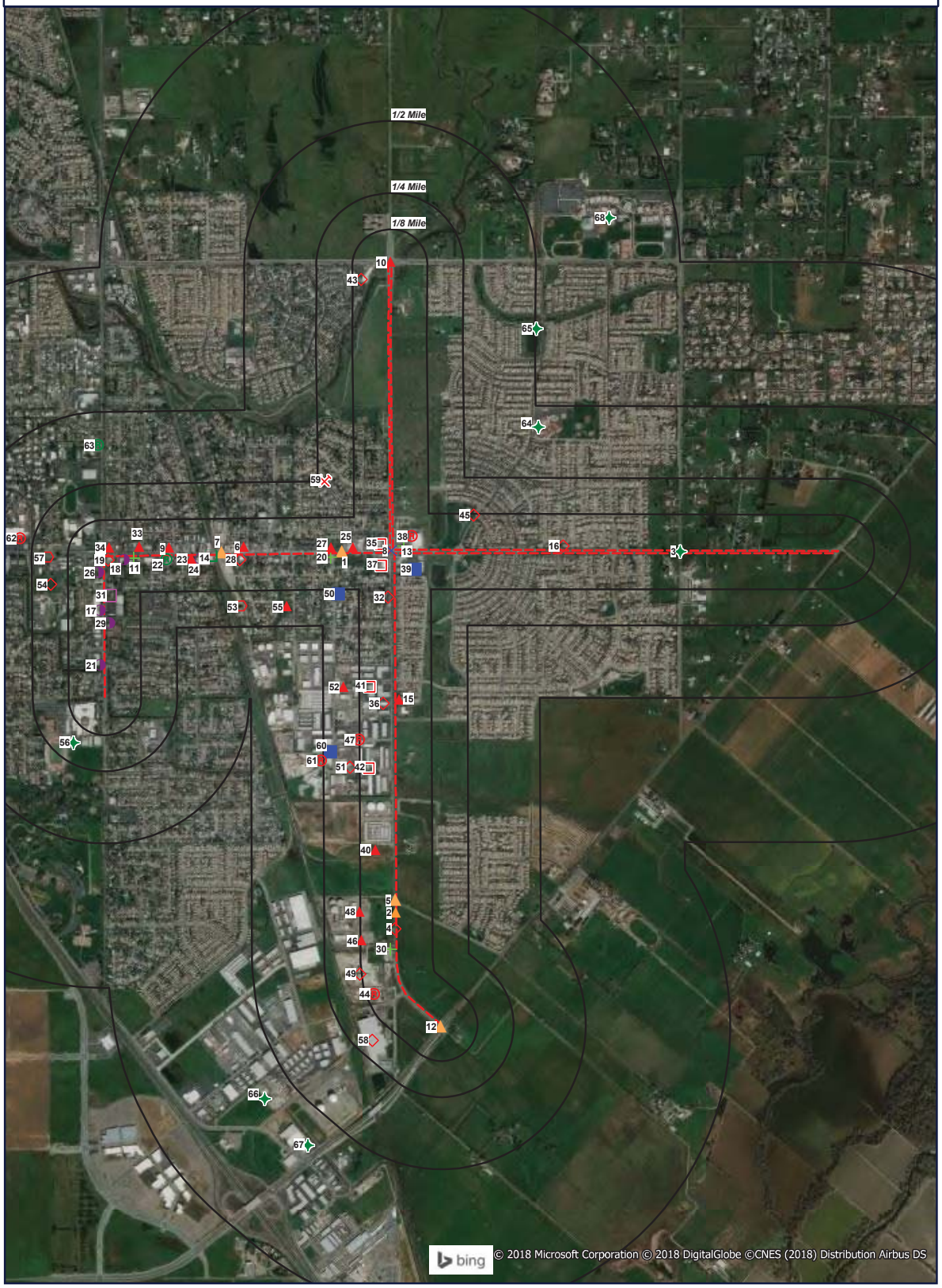
CHMIRS	DROP	HISTCORTESE	
ENVIROSTOR	RCRANGR09	MRDS	
SWEEPS	AST2007		
CLEANUPSITES	RCRAGR09		
ERNSCA	ABST		
SCHMS	SWRCY		
FRSCA	CLEANER		
HWTS	USTCUPA		

Elk Grove ISA
Elk Grove Blvd
Elk Grove, California
95624

N W E S

0' 900' 1800' 2700'
SCALE: 1" = 1800'

ORTHOPHOTO MAP



Target Property (TP)

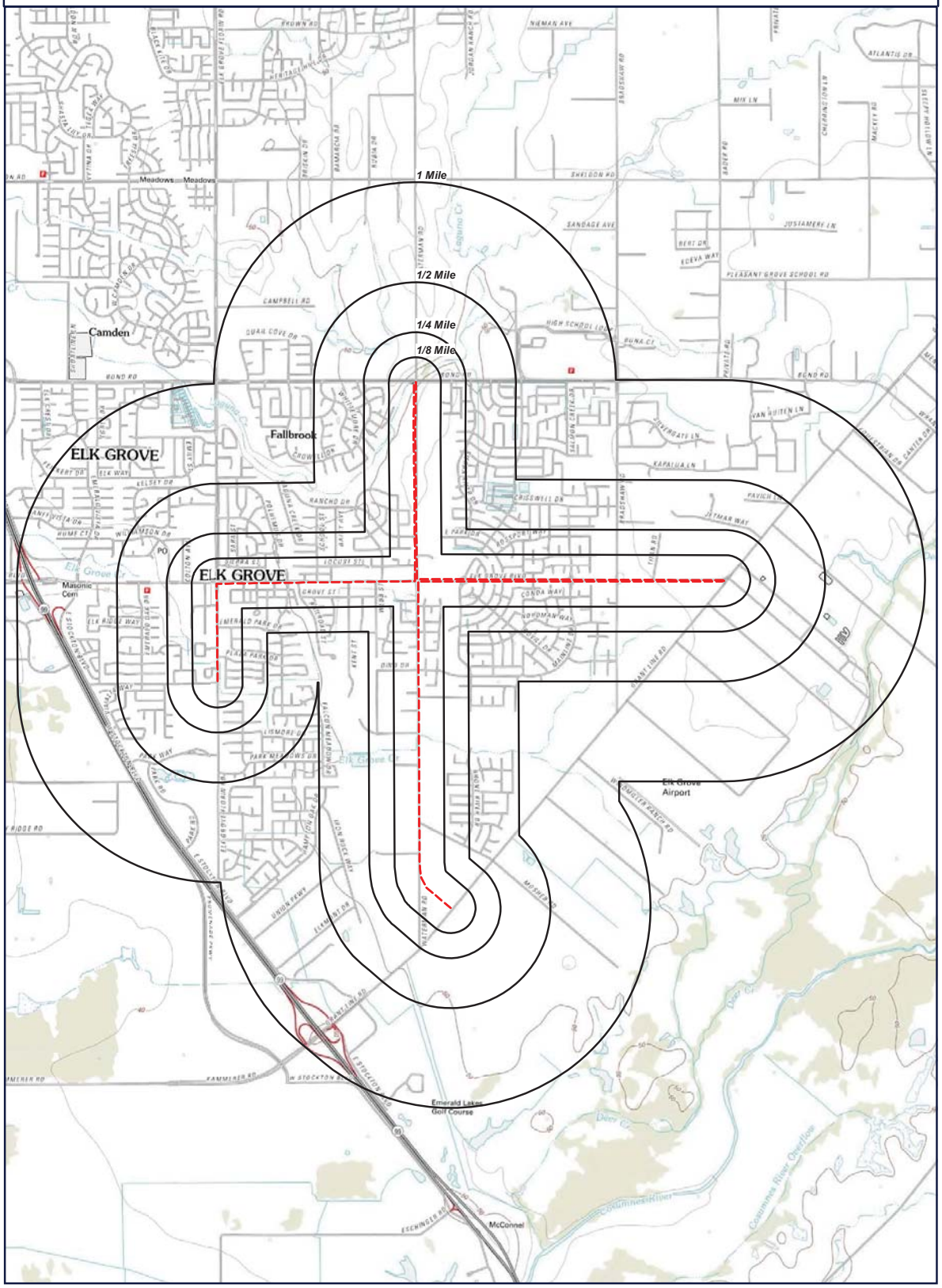
- CHMIRS
- ENVIROSTOR
- SWEEPS
- CLEANUPSITES
- ERNSCA
- SCHMS
- FRSCA
- HWTS
- DROP
- RCRANGR09
- AST2007
- RCRAGR09
- ABST
- SWRCY
- CLEANER
- USTCUPA
- HISTCORTESE
- MRDS

Quadrangle(s): Elk Grove
Elk Grove ISA
Elk Grove Blvd
Elk Grove, California
95624

N W E S

0' 900' 1800' 2700'
SCALE: 1" = 1800'

TOPOGRAPHIC MAP



Quadrangle(s): Elk Grove
Source: USGS, 03/08/2012
Elk Grove ISA
Elk Grove Blvd
Elk Grove, California
95624

N
W E
S

0' 1300' 2600' 3900'
SCALE: 1" = 2600'

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
1	CHMIRS	04-5716	0.001 mi. N (5 ft.)		ELK GROVE BLVD AT PORTO ROSA DR., ELK GROVE, CA	27
1	CHMIRS	04-5759	0.001 mi. N (5 ft.)		ELK GROVE BLVD AT PORTO ROSA RD., ELK GROVE, CA	28
2	CHMIRS	10-6335	0.003 mi. W (16 ft.)		10092 WATERMAN ROAD, ELK GROVE, CA 95624	29
3	***ENVIROSTOR***	***60001032***	***0.003 mi. S (16 ft.)***	***ELK GROVE MONTESSORI***	***BRADSHAW ROAD AND ELK GROVE BOULEVARD, ELK GROVE, CA 95624***	***30***
3	NPDES	2493120428	0.003 mi. S (16 ft.)	ELK GROVE MONTESSORI SCHOOL	BRADSHAW ROAD AND ELK GROVE BLVD, ELK GROVE, CA 95624	31
4	***HISTUST***	***00029482***	***0.004 mi. W (21 ft.)***	***THE KINGSFORD COMPANY***	***10100 WATERMAN ROAD, ELK GROVE, CA 95624***	***32***
4	***SWEEPS***	***A34-000-3284***	***0.004 mi. W (21 ft.)***	***THE KINGSFORD COMPANY***	***10100 WATERMAN RD, ELK GROVE, CA 95624***	***35***
5	CHMIRS	01-2799	0.004 mi. W (21 ft.)		WATERMAN RD. AND MOSHER RD, ELK GROVE, CA 95828	36
6	CHMIRS	04-6256	0.004 mi. N (21 ft.)		ELK GROVE AT SCHOOL, ELK GROVE, CA	37
6	***CLEANUPSITES***	***T0606701004***	***0.025 mi. N (132 ft.)***	***ELK GROVE PAINT AND WALLPAPER***	***9097 ELK GROVE BLVD, ELK GROVE, CA 95624***	***38***
6	HISTCORTESE	341179COR	0.025 mi. N (132 ft.)	ELK GROVE PAINT AND WALLP	9097 ELK GROVE, ELK GROVE, CA 95624	41
6	HWTS	CAD982045353	0.02 mi. N (106 ft.)	LEWIS AUTO SERVICE	9095 ELK GROVE BLVD, ELK GROVE, CA 95624	42
6	***LUST***	***T0606701004***	***0.025 mi. N (132 ft.)***	***ELK GROVE PAINT AND WALLPAPER***	***9097 ELK GROVE BLVD, ELK GROVE, CA 95624***	***44***
6	SCHMS	1287080093	0.02 mi. N (106 ft.)	LEWIS AUTO SERVICE	9095 ELK GROVE BLVD, ELK GROVE, CA 95624	45
6	SCHMS	2385683108	0.02 mi. N (106 ft.)	LEWISAUTO SERVICE	9095 ELK GROVE BLVD, ELK GROVE, CA 95624	46
6	SCTL	RO0000376	0.025 mi. N (132 ft.)	ELK GROVE PAINT & WALLPAPER	9097 ELK GROVE BLVD, ELK GROVE, CA	47
7	CHMIRS	99-4409	0.004 mi. N (21 ft.)		S ELK GROVE BLVD AT RAILROAD ST, ELK GROVE, CA	48
7	CLEANER	CAL000262004	0.012 mi. S (63 ft.)	ELK GROVE MOWER & SAW	9056 ELK GROVE BLVD, ELK GROVE, CA 95624	49
7	SCHMS	1152813129	0.012 mi. S (63 ft.)	MEYERS LAWNMOWER	9056 ELK GROVE BLVD, ELK GROVE, CA 95624	50
8	***ERNSCA***	***302896***	***0.005 mi. E (26 ft.)***		***ELK GROVE BLVD BETWEEN WATERMAN & PORTER ROSA, ELK GROVE, CA 95624***	***51***
9	ALTFUELS	34271	0.023 mi. N (121 ft.)	PACIFIC FUEL	8999 ELK GROVE BLVD, ELK GROVE, CA 95624	52
9	CHMIRS	06-6970	0.007 mi. N (37 ft.)		N OF ELK GROVE BLVD AND 2ND AVE, ELK GROVE, CA	53
9	***CLEANUPSITES***	***T0606700425***	***0.023 mi. N (121 ft.)***	***UNOCAL #4829***	***8999 ELK GROVE BLVD, ELK GROVE, CA 95624***	***54***
9	HISTCORTESE	340507COR	0.023 mi. N (121 ft.)	UNOCAL #4829	8999 ELK GROVE, ELK GROVE, CA 95624	55
9	***HISTUST***	***0001FC9C***	***0.023 mi. N (121 ft.)***	***685 CENTRAL OFFICE***	***8985 ELK GROVE BLVD, ELK GROVE, CA 95624***	***56***

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
9	***HISTUST***	***00029505***	***0.023 mi. N (121 ft.)***	***UNION OIL SS 4829***	***8999 ELK GROVE BLVD, ELK GROVE, CA 95624***	***69***
9	***LUST***	***T0606700425***	***0.023 mi. N (121 ft.)***	***UNOCAL #4829***	***8999 ELK GROVE BLVD, ELK GROVE, CA 95624***	***72***
9	SCTL	RO0000375	0.01 mi. S (53 ft.)	ARCO	9000 ELK GROVE BLVD, ELK GROVE, CA	73
9	***SWEEPS***	***A34-000-3251***	***0.023 mi. N (121 ft.)***	***UNION OIL SS# 4829***	***8999 ELK GROVE BLVD, ELK GROVE, CA 95624***	***74***
9	***USTCUPA***	***2771666736***	***0.023 mi. N (121 ft.)***	***PACIFIC FUEL & AUTO SERVICE INC***	***8999 ELK GROVE BLVD, ELK GROVE, CA 95624***	***75***
9	***USTCUPA***	***925737637***	***0.023 mi. N (121 ft.)***	***COMPLETE PERFORMANCE INC***	***8999 ELK GROVE BLVD STE A, ELK GROVE, CA 95624***	***76***
10	***CLEANUPSITES***	***L10008601447***	***0.01 mi. NNW (53 ft.)***	***ELK GROVE CLASS III LANDFILL***	***WATERMAN & BOND, ELK GROVE, CA***	***77***
10	***CLEANUPSITES***	***T10000004731***	***0.007 mi. NNW (37 ft.)***	***MATHER AIR FORCE BASE - FORMER ELK GROVE - MATHER AUXILIARY***	***BOND ROAD, ELK GROVE, CA 95624***	***78***
10	FRSCA	110066407034	0.007 mi. NNW (37 ft.)	MATHER AIR FORCE BASE - FORMER ELK GROVE - MATHER AUXILIARY	BOND ROAD, ELK GROVE, CA 95624	80
10	LDS	L10008601447LDS	0.01 mi. NNW (53 ft.)	ELK GROVE CLASS III LANDFILL	WATERMAN & BOND, ELK GROVE, CA	81
10	MCS	T10000004731 MCS	0.007 mi. NNW (37 ft.)	MATHER AIR FORCE BASE - FORMER ELK GROVE - MATHER AUXILIARY	BOND ROAD, ELK GROVE, CA 95624	82
10	NPDES	114157444	0.01 mi. NNW (53 ft.)	ELK GROVE LANDFILL	SOUTHWEST CORNER OF WATERMAN AND BOND ROAD, ELK GROVE, CA 95624	84
10	NPDES	4165348626	0.01 mi. NNW (53 ft.)	ELK GROVE LANDFILL	SOUTHWEST CORNER OF WATERMAN AND BOND ROAD, ELK GROVE, CA 95624	85
10	SLIC	SLT5SA033522	0.01 mi. NNW (53 ft.)	ELK GROVE LANDFILL	9260 WATERMAN ROAD, ELK GROVE, CA 95624	86
10	***SWIS***	***34-AA-0004SWIS***	***0.01 mi. NNW (53 ft.)***	***ELK GROVE DISPOSAL SITE***	***CORNER OF WATERMAN & BOND ROADS, ELK GROVE, CA 95624***	***87***
10	WMUDS	5B340315001	0.01 mi. NNW (53 ft.)	ELK GROVE CLASS III LANDFILL	CORNER OF WATERMAN & BOND RD, ELK GROVE, CA	88
11	SCHMS	3878652837	0.009 mi. S (48 ft.)	MCCAULEY POOL AND SPA	8940 ELK GROVE BLVD, ELK GROVE, CA 95624	89
12	CHMIRS	00-2910	0.01 mi. SSW (53 ft.)		GRANTLINE AND WATERMAN ROAD, ELK GROVE, CA	90
12	CHMIRS	01-0272	0.01 mi. SSW (53 ft.)		GRANT LINE RD. AT WATERMAN RD., ELK GROVE, CA	91
12	CHMIRS	05-1939	0.01 mi. SSW (53 ft.)		GRANT LINE RD AT WATERMAN, ELK GROVE, CA	92
12	NPDES	1413589603	0.01 mi. SSW (53 ft.)	SFPP LINE SECTION 9 RELOCATION PROJECT	GRANT LINE ROAD AND WATERMAN ROAD, ELK GROVE, CA 95624	93

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
12	NPDES	4010592828	0.01 mi. SW (53 ft.)	WATERMAN RE ALIGNMENT PROJECT	400 E WATERMAN RD GRANT LINE INTERSECTION, ELK GROVE, CA 95624	94
13	SCHMS	663961002	0.011 mi. N (58 ft.)	SWANSONS CLEANERS	9385 ELK GROVE BLVD STE 300, ELK GROVE, CA 95624	95
14	FRSCA	110065774978	0.012 mi. S (63 ft.)	CLEAN ENERGY - 9050 ELK GROVE	9050 ELK GROVE BLVD, ELK GROVE, CA 95624	96
15	***CLEANUPSITES***	***T0606791922***	***0.013 mi. E (69 ft.)***	***RESIDENCE***	***9800 WATERMAN, ELK GROVE, CA 95624***	***97***
15	FRSCA	110066410280	0.013 mi. E (69 ft.)	RESIDENCE	9800 WATERMAN, ELK GROVE, CA 95624	98
15	***LUST***	***T0606791922***	***0.013 mi. E (69 ft.)***	***RESIDENCE***	***9800 WATERMAN, ELK GROVE, CA 95624***	***99***
15	SCTL	RO0001466	0.013 mi. E (69 ft.)	RESIDENCE	9800 WATERMAN RD, ELK GROVE, CA	100
16	***HISTUST***	***0001FD6F***	***0.014 mi. N (74 ft.)***	***ELK GROVE MEAT CO***	***9501 ELK GROVE BLVD, ELK GROVE, CA 95624***	***101***
16	HWTS	CAC002101056	0.014 mi. N (74 ft.)	EAST PARK ELK GROVE	9501 ELK GROVE BLVD, ELK GROVE, CA 95624	103
16	***SWEEPS***	***I34-000-8658***	***0.014 mi. N (74 ft.)***	***ELK GROVE MEAT CO***	***9501 ELK GROVE BLVD, ELK GROVE, CA 95624***	***104***
17	HWTS	CAC001024688	0.014 mi. W (74 ft.)	JADE PLACE	9672 ELK GROVE-FLORIN RD, ELK GROVE, CA 95624	105
17	HWTS	CAC002573822	0.014 mi. W (74 ft.)	JACKSON PROPERTIES INC	9692 ELK GROVE FLORIN RD, ELK GROVE, CA 95624	106
17	SCHMS	3467549177	0.014 mi. W (74 ft.)	NAPA AUTO PARTS	9670 ELK GROVE FLORIN RD, ELK GROVE, CA 95624	107
18	FRSCA	110066508577	0.014 mi. S (74 ft.)	GOODYEAR AUTO SERVICE CENTER	8922 ELK GROVE BLVD, ELK GROVE, CA 95624	108
18	HWTS	CAL000266295	0.014 mi. S (74 ft.)	GOODYEAR AUTO SERVICE CENTER #9250	8922 ELK GROVE BLVD, ELK GROVE, CA 95624	109
18	SCHMS	3116253011	0.014 mi. S (74 ft.)	GOODYEAR AUTO SERVICE CENTER	8922 ELK GROVE BLVD, ELK GROVE, CA 95624	114
19	HISTCORTESE	340948COR	0.014 mi. S (74 ft.)	REGAL SS (FORMER)	8900 ELK GROVE, ELK GROVE, CA 95624	115
19	***HISTUST***	***0002960F***	***0.014 mi. S (74 ft.)***	***REGAL STATION 601***	***8900 ELK GROVE BLVD, ELK GROVE, CA 95624***	***116***
19	***SWEEPS***	***I34-000-12291***	***0.014 mi. S (74 ft.)***	***REGAL STATION #601***	***8900 ELK GROVE BLVD, ELK GROVE, CA 95624***	***119***
20	FRSCA	110066548891	0.015 mi. S (79 ft.)	ULTRA TRUCK WORKSNA INC	9208 ELK GROVE BLVD, ELK GROVE, CA 95624	120
20	SCHMS	4164918008	0.015 mi. S (79 ft.)	ULTRA TRUCK WORKS, INC	9208 ELK GROVE BLVD, ELK GROVE, CA 95624	121
21	CLEANER	CAL000177840	0.015 mi. W (79 ft.)	MOONLIGHT CLEANERS	9754 ELK GROVE FLORIN RD, ELK GROVE, CA 95624	122
21	CLEANER	CAL000417960	0.015 mi. W (79 ft.)	MOONLIGHT CLEANERS	9754 ELK GROVE FLORIN RD, ELK GROVE, CA 95624	123
21	FRSCA	110066594411	0.015 mi. W (79 ft.)	MOONLIGHT CLEANERS	9754 ELK GROVE FLORIN RD, ELK GROVE, CA 95624	124

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
21	HWTS	CAL000177840	0.015 mi. W (79 ft.)	MOONLIGHT CLEANERS	9754 ELK GROVE FLORIN RD, ELK GROVE, CA 95624	125
21	SCHMS	928281135	0.015 mi. W (79 ft.)	MOONLIGHT CLEANERS	9754 ELK GROVE FLORIN RD, ELK GROVE, CA 95624	131
22	DROP	DP0370	0.015 mi. S (79 ft.)	ELK GROVE UNITED METHODIST CHURCH	8986 ELK GROVE BLVD, ELK GROVE, CA 95624	132
23	***CLEANUPSITES***	***T0606700546***	***0.016 mi. S (84 ft.)***	***HORNING PROPERTY***	***9020 ELK GROVE BLVD, ELK GROVE, CA 95624***	***133***
23	FRSCA	110066073242	0.016 mi. S (84 ft.)	HORNING PROPERTY	9020 ELK GROVE BLVD, ELK GROVE, CA 95624	135
23	HISTCORTESE	340641COR	0.016 mi. S (84 ft.)	HORNING PROPERTY	9020 ELK GROVE, ELK GROVE, CA 95624	136
23	HWTS	CAC002591899	0.016 mi. S (84 ft.)	KEN & LAURIE PODESTA-DANIELS	9020 ELK GROVE BLVD, ELK GROVE, CA 95624	137
23	***LUST***	***T0606700546***	***0.016 mi. S (84 ft.)***	***HORNING PROPERTY***	***9020 ELK GROVE BLVD, ELK GROVE, CA 95624***	***138***
23	SCHMS	3846395982	0.016 mi. S (84 ft.)	THE CAR DOC	9020 ELK GROVE BLVD, ELK GROVE, CA 95624	139
23	SCTL	RO0001587	0.016 mi. S (84 ft.)	PODESTA-DANIELS	9020 ELK GROVE BLVD, ELK GROVE, CA	140
23	***SWEEPS***	***I34-000-92109***	***0.016 mi. S (84 ft.)***	***TED & SUSAN HORNING***	***9020 ELK GROVE BLVD, ELK GROVE, CA 95624***	***141***
24	HWTS	CAD982346413	0.016 mi. S (84 ft.)	CAMBELLS AUTO PARTS	9036 ELK GROVE BLVD, ELK GROVE, CA 95624	142
24	SCHMS	1659304623	0.016 mi. S (84 ft.)	CAMPBELL'S AUTO PARTS	9036 ELK GROVE BLVD, ELK GROVE, CA 95624	143
24	SCHMS	4133466715	0.016 mi. S (84 ft.)	CAMPBELL'SAUTO PARTS	9036 ELK GROVE BLVD, ELK GROVE, CA 95624	144
25	***CLEANUPSITES***	***T0606700774***	***0.017 mi. N (90 ft.)***	***HARCROW PROPERTY***	***9251 ELK GROVE BLVD, ELK GROVE, CA 95624***	***145***
25	FRSCA	110065774683	0.017 mi. N (90 ft.)	AUTO SOLUTIONS BY SINGLE	9253 ELK GROVE BLVD, ELK GROVE, CA 95624	146
25	FRSCA	110066296671	0.017 mi. N (90 ft.)	HARCROW PROPERTY	9251 ELK GROVE BLVD, ELK GROVE, CA 95624	147
25	HISTCORTESE	340935COR	0.017 mi. N (90 ft.)	HARCROW PROPERTY	9251 ELK GROVE, ELK GROVE, CA 95624	148
25	HWTS	CAL000170522	0.017 mi. N (90 ft.)	UNITED RENTALS	9251 ELK GROVE BLVD, ELK GROVE, CA 95624	149
25	HWTS	CAL000209667	0.017 mi. N (90 ft.)	UNITED RENTALS INC #655	9251 ELK GROVE BLVD, ELK GROVE, CA 95624	150
25	HWTS	CAL000272839	0.017 mi. N (90 ft.)	AUTOMOTIVE SOLUTION BY SINGLE INC	9253 ELK GROVE BLVD, ELK GROVE, CA 95624	151
25	***LUST***	***T0606700774***	***0.017 mi. N (90 ft.)***	***HARCROW PROPERTY***	***9251 ELK GROVE BLVD, ELK GROVE, CA 95624***	***152***
25	SCHMS	2979064436	0.017 mi. N (90 ft.)	AUTO SOLUTIONS BY SINGLE	9253 ELK GROVE BLVD, ELK GROVE, CA 95624	153
25	SCHMS	3377540196	0.017 mi. N (90 ft.)	ANY-EVENT PARTY RENTALS	9251 ELK GROVE BLVD, ELK GROVE, CA 95624	154
25	SCTL	RO0000377	0.017 mi. N (90 ft.)	ELK GROVE EQUIPMENT	9251 ELK GROVE BLVD, ELK GROVE, CA	155

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
26	HWTS	CAL000092366	0.019 mi. W (100 ft.)	DR ERIC J KNUTSON DDS	9628 ELK GROVE-FLORIN RD, ELK GROVE, CA 95624	156
26	HWTS	CAL000139380	0.017 mi. W (90 ft.)	KENTON KIASER DDS	9620 ELK GROVE-FLORIN RD, ELK GROVE, CA 95624	158
26	SCHMS	1503711805	0.017 mi. W (90 ft.)	KENTON E KIASER DDS	9620 ELK GROVE-FLORIN RD, ELK GROVE, CA 95624	159
27	***CLEANUPSITES***	***T0606700579***	***0.018 mi. N (95 ft.)***	***ARCO #5696***	***9215 ELK GROVE BLVD, ELK GROVE, CA 95624***	***160***
27	FRSCA	110066471115	0.018 mi. N (95 ft.)	ARCO #5696	9215 ELK GROVE BLVD, ELK GROVE, CA 95624	161
27	HISTCORTESE	340678COR	0.018 mi. N (95 ft.)	ARCO #5696	9215 ELK GROVE, ELK GROVE, CA	162
27	***LUST***	***T0606700579***	***0.018 mi. N (95 ft.)***	***ARCO #5696***	***9215 ELK GROVE BLVD, ELK GROVE, CA 95624***	***163***
27	***SWEEPS***	***A34-000-20839***	***0.018 mi. N (95 ft.)***	***ARCO FACILITY #5695***	***9215 ELK GROVE RD, ELK GROVE, CA 95624***	***164***
28	***HISTUST***	***0001FD76***	***0.019 mi. S (100 ft.)***	***ELK GROVE WATER WORKS-MAINT D***	***9086 (REAR) ELK GROVE BLVD, ELK GROVE, CA 95624***	***165***
28	***SWEEPS***	***A34-000-33216***	***0.019 mi. S (100 ft.)***	***ELK GROVE WATER WORKS-MAINT. D***	***9086 REAR ELK GROVE BLVD, ELK GROVE, CA 95624***	***166***
29	HWTS	CAL920884886	0.019 mi. E (100 ft.)	COURTYARD CHIROPRACTIC	8920 EMERALD PARK DR., ELK GROVE, CA 95624	167
29	SCHMS	3140378274	0.019 mi. E (100 ft.)	COURTYARD CHIROPRACTIC	8920 EMERALD PARK DR, #C, ELK GROVE, CA 95624	169
30	SCHMS	2243204227	0.02 mi. W (106 ft.)	COMPLETE AUTO REPAIR	10200 WATERMAN RD, #K, ELK GROVE, CA 95624	170
31	***RCRANGR09***	***CAD067810564***	***0.021 mi. E (111 ft.)***	***INDEPENDENT DISPOSAL SERVICE***	***9655 ELK GROVE FLORIN RD #5, ELK GROVE, CA 95624***	***171***
32	***AST2007***	***786747095***	***0.023 mi. W (121 ft.)***	***EAST ELK GROVE WTP (WT-2)***	***9660 WATERMAN ROAD, ELK GROVE, CA 95624***	***173***
33	***CLEANUPSITES***	***T0606700897***	***0.027 mi. N (143 ft.)***	***CIRCLE-K (FORMER)***	***8949 ELK GROVE BLVD, ELK GROVE, CA 95624***	***174***
33	HISTCORTESE	341071COR	0.027 mi. N (143 ft.)	CIRCLE-K (FORMER)	8949 ELK GROVE, ELK GROVE, CA 95624	175
33	***HISTUST***	***0001FC94***	***0.027 mi. N (143 ft.)***	***CIRCLE K 1325***	***8949 ELK GROVE BLVD, ELK GROVE, CA 95624***	***176***
33	***LUST***	***T0606700897***	***0.027 mi. N (143 ft.)***	***CIRCLE-K (FORMER)***	***8949 ELK GROVE BLVD, ELK GROVE, CA 95624***	***178***
33	***RCRANGR09***	***CAD981680788***	***0.027 mi. N (143 ft.)***	***CIRCLE K STORE #1325***	***8949 ELK GROVE BLVD, ELK GROVE, CA 95624***	***179***
33	SCTL	RO0000374	0.027 mi. N (143 ft.)	FORMER CIRCLE K	8949 ELK GROVE BLVD, ELK GROVE, CA	180
33	***SWEEPS***	***A34-000-13826***	***0.027 mi. N (143 ft.)***	***CIRCLE K #1325***	***8949 ELK GROVE BLVD, ELK GROVE, CA 95624***	***181***
34	***CLEANUPSITES***	***T0606701041***	***0.027 mi. N (143 ft.)***	***SHELL SS***	***8901 ELK GROVE BLVD, ELK GROVE, CA 95624***	***182***
34	HISTCORTESE	341216COR	0.027 mi. N (143 ft.)	SHELL SS	8901 ELK GROVE, ELK GROVE, CA 95624	185
34	***HISTUST***	***0001FE0F***	***0.027 mi. N (143 ft.)***	***SHELL ELK GROVE AUTO CARE***	***8901 ELK GROVE BLVD, ELK GROVE BLVD, CA 95624***	***186***

Located Sites Summary

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Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
34	***HISTUST***	***000293B0***	***0.027 mi. N (143 ft.)***	***SP OPERATOR***	***8901 ELK GROVE BLVD, ELK GROVE, CA 95624***	***189***
34	***LUST***	***T0606701041***	***0.027 mi. N (143 ft.)***	***SHELL SS***	***8901 ELK GROVE BLVD, ELK GROVE, CA 95624***	***191***
34	***RCRAGR09***	***CAD981459910***	***0.027 mi. N (143 ft.)***	***SHELL OIL CO***	***8901 ELK GROVE, ELK GROVE, CA 95624***	***192***
34	***RCRANGR09***	***CAD980696181***	***0.027 mi. N (143 ft.)***	***SHELL OIL CO SERVICE STATION***	***8901 ELK GROVE BLVD, ELK GROVE, CA 95624***	***193***
34	SCTL	RO0000373	0.027 mi. N (143 ft.)	SHELL OIL	8901 ELK GROVE BLVD, ELK GROVE, CA	194
34	SCTL	RO0001231	0.027 mi. N (143 ft.)	SHELL SERVICE STATION	8901 ELK GROVE BLVD, ELK GROVE, CA	195
34	***SWEEPS***	***A34-000-40199***	***0.027 mi. N (143 ft.)***	***ELK GROVE SHELL***	***8901 ELK GROVE BLVD, ELK GROVE, CA 95624***	***196***
34	***USTCUPA***	***2826316527***	***0.027 mi. N (143 ft.)***	***ELK GROVE SHELL #135254***	***8901 ELK GROVE BLVD, ELK GROVE, CA 95624***	***197***
35	***RCRAGR09***	***CAR000229575***	***0.032 mi. W (169 ft.)***	***CVS PHARMACY #9132***	***9285 ELK GROVE BLVD, ELK GROVE, CA 95624***	***198***
36	***ABST***	***146076***	***0.041 mi. W (216 ft.)***	***RADIAL TIRE OF ELK GROVE***	***9810 WATERMAN RD, ELK GROVE, CA 95624***	***201***
37	***RCRAGR09***	***CAL000380364***	***0.042 mi. S (222 ft.)***	***RITE AID #6494***	***9260 ELK GROVE BLVD, ELK GROVE, CA 95624***	***202***
37	***RCRAGR09***	***CAR000212902***	***0.042 mi. S (222 ft.)***	***RITE AID #6494***	***9260 ELK GROVE BLVD, ELK GROVE, CA 95624***	***204***
38	SWRCY	RC12915	0.045 mi. N (238 ft.)	NEXCYCLE	9435 ELK GROVE BLVD, ELK GROVE, CA 95624	207
39	CLEANER	CAL000308250	0.057 mi. S (301 ft.)	GREEN NATURE CLEANERS INC	9320 ELK GROVE BLVD STE 165, ELK GROVE, CA 95624	208
40	***CLEANUPSITES***	***T0606700284***	***0.072 mi. W (380 ft.)***	***KINGSFORD PROD CO***	***10000 WATERMAN RD, ELK GROVE, CA 95624***	***209***
40	HISTCORTESE	340352COR	0.072 mi. W (380 ft.)	KINGSFORD PROD CO	10000 WATERMAN, ELK GROVE, CA 95624	211
40	***LUST***	***T0606700284***	***0.072 mi. W (380 ft.)***	***KINGSFORD PROD CO***	***10000 WATERMAN RD, ELK GROVE, CA 95624***	***212***
40	SCTL	RO0001140	0.072 mi. W (380 ft.)	KINGSFORD CHARCOAL COMPANY	WATERMAN RD, ELK GROVE, CA	213
40	SCTL	RO0001141	0.072 mi. W (380 ft.)	KINGSFORD CHARCOAL PLANT	WATERMAN RD, ELK GROVE, CA	214
41	CLEANER	CAD983609793	0.09 mi. W (475 ft.)	DRYCLEAN TODAY INC	9731 DINO DR 120, ELK GROVE, CA 95624	215
41	CLEANER	CAL000314732	0.09 mi. W (475 ft.)	RYTINA FINE CLEANERS	9731 DINO DR STE 100, ELK GROVE, CA 95624	216
41	***RCRAGR09***	***CAD983609793***	***0.087 mi. W (459 ft.)***	***DRY CLEAN USA***	***9731 DINO DR 120, ELK GROVE, CA 95624***	***217***
42	***RCRAGR09***	***CAR000044172***	***0.092 mi. W (486 ft.)***	***OFFSET SERVICES INK***	***9911 KENT ST NO 4, ELK GROVE, CA 95624***	***218***
43	***ABST***	***38610***	***0.094 mi. W (496 ft.)***	***ISA: SHERIFF'S SOUTH GARAGE***	***9250 BOND RD, ELK GROVE, CA 95624***	***220***
43	***USTCUPA***	***4204162381***	***0.094 mi. W (496 ft.)***	***ISA: SHERIFF'S SOUTH GARAGE***	***9250 BOND RD, ELK GROVE, CA 95624***	***221***

Located Sites Summary

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Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
44	SWRCY	RC195218.001	0.098 mi. WSW (517 ft.)	RIVER CITY WASTE RECYCLERS	10286 WATERMAN RD, ELK GROVE, CA 95829	222
45	***AST2007***	***2404958669***	***0.119 mi. N (628 ft.)***	***EAST PARK WTP (WF-3)***	***9560 BAYPOINT WAY, ELK GROVE, CA 95624***	***223***
46	***CLEANUPSITES***	***T0606701093***	***0.12 mi. W (634 ft.)***	***WORLD ASPHALT***	***10144 WATERMAN RD, ELK GROVE, CA 95624***	***224***
46	HISTCORTESE	341269COR	0.12 mi. W (634 ft.)	WORLD ASPHALT	10144 WATERMAN, ELK GROVE, CA 95624	226
46	***HISTUST***	***00029641***	***0.12 mi. W (634 ft.)***	***WORLD ASPHALT COMPANY***	***10144 WATERMAN ROAD, ELK GROVE, CA 95624***	***227***
46	***LUST***	***T0606701093***	***0.12 mi. W (634 ft.)***	***WORLD ASPHALT***	***10144 WATERMAN RD, ELK GROVE, CA 95624***	***229***
46	***RCRAGR09***	***CAR000181735***	***0.12 mi. W (634 ft.)***	***HENRY COMPANY***	***10144 WATERMAN ROAD, ELK GROVE, CA 95624***	***230***
46	SCTL	RO0001330	0.12 mi. W (634 ft.)	WORLDASPHALT	10144 WATERMAN RD, ELK GROVE, CA	232
46	***SWEEPS***	***A34-000-14310***	***0.12 mi. W (634 ft.)***	***WORLD ASPHALT COMPANY***	***10144 WATERMAN RD, ELK GROVE, CA 95624***	***233***
46	SWRCY	RC173236.001	0.12 mi. W (634 ft.)	RIVER CITY WASTE RECYCLERS	10144 WATERMAN RD, ELK GROVE, CA 95624	234
47	SWRCY	RC13748	0.126 mi. W (665 ft.)	JA RECYCLING #2	9851 DINO DR, ELK GROVE, CA 95624	235
48	***ABST***	***141652***	***0.128 mi. W (676 ft.)***	***PARAMOUNT PETROLEUM CORPORATION***	***10090 WATERMAN RD, ELK GROVE, CA 95624***	***236***
48	***CLEANUPSITES***	***T0606700036***	***0.128 mi. W (676 ft.)***	***CONOCO ASPHALT TERMINAL***	***10090 WATERMAN RD, ELK GROVE, CA 95624***	***237***
48	HISTCORTESE	340054COR	0.128 mi. W (676 ft.)	CONOCO ASPHALT TERMINAL	10090 WATERMAN, ELK GROVE, CA 95624	238
48	***HISTUST***	***0001FCDE***	***0.128 mi. W (676 ft.)***	***CONOCO BULK PLANT***	***10090 WATERMAN ROAD, ELK GROVE, CA 95624***	***239***
48	***LUST***	***T0606700036***	***0.128 mi. W (676 ft.)***	***CONOCO ASPHALT TERMINAL***	***10090 WATERMAN RD, ELK GROVE, CA 95624***	***242***
48	SCTL	RO0001142	0.128 mi. W (676 ft.)	CONOCO INC-ASPHALT PLANT	10090 WATERMAN RD, ELK GROVE, CA	243
48	SLIC	5-SLIC -170	0.128 mi. W (676 ft.)	CONOCO ASPHALT TERMINAL	10090 WATERMAN ROAD, ELK GROVE, CA 95624	244
49	***AST2007***	***1077399811***	***0.13 mi. W (686 ft.)***	***ELK GROVE PLANT***	***10260 WATERMAN RD., ELK GROVE, CA 95624***	***245***
49	***HISTUST***	***0001FD71***	***0.13 mi. W (686 ft.)***	***ELK GROVE READY - MIX INC***	***10260 WATERMAN ROAD, ELK GROVE, CA 95624***	***246***
49	***SWEEPS***	***A34-000-16240***	***0.13 mi. W (686 ft.)***	***ELK GROVE READY-MIX, INC.***	***10260 WATERMAN RD, ELK GROVE, CA 95624***	***247***
50	CLEANER	CAL000295090	0.142 mi. S (750 ft.)	JEFF WHITE EQUIPMENT REPAIR MOBILE	9653 WEBB ST, ELK GROVE, CA 95624	248
51	***AST2007***	***1868007047***	***0.158 mi. W (834 ft.)***	***JIM DUPZYK CONCRETE PUMPING***	***9883 KENT ST., ELK GROVE, CA 95624***	***249***
52	ALTFUELS	34986	0.172 mi. W (908 ft.)	FERRELLGAS	9765 DINO DR, ELK GROVE, CA 95624	250

Located Sites Summary

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Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
52	***CLEANUPSITES***	***T0606720608***	***0.179 mi. W (945 ft.)***	***FERRELL GAS***	***9765 DINO DRIVE, ELK GROVE, CA 95624***	***251***
52	***HISTUST***	***0001FD6E***	***0.179 mi. W (945 ft.)***	***ELK GROVE GAS AND OIL***	***9765 DINO DRIVE, ELK GROVE, CA 95624***	***253***
52	***LUST***	***T0606720608***	***0.179 mi. W (945 ft.)***	***FERRELL GAS***	***9765 DINO DRIVE, ELK GROVE, CA 95624***	***257***
52	SCTL	RO0001567	0.179 mi. W (945 ft.)	FERRELL GAS	9765 DINO DR, ELK GROVE, CA	258
52	***SWEEPS***	***I34-000-59220***	***0.179 mi. W (945 ft.)***	***ELK GROVE GAS AND OIL***	***9765 DINO DR, ELK GROVE, CA 95624***	***259***
52	***USTCUPA***	***258185639***	***0.179 mi. W (945 ft.)***	***INTERSTATE OIL COMPANY***	***9765 DINO DR, ELK GROVE, CA 95624***	***260***
53	HISTCORTESE	341197COR	0.182 mi. S (961 ft.)	FRED CULLINCINI TRUST	9676 RAILROAD, ELK GROVE, CA 95624	261
54	***HISTUST***	***0001FD72***	***0.183 mi. W (966 ft.)***	***TRANSPORTATION DEPARTMENT***	***8800 ELK GROVE BLVD, ELK GROVE, CA 95624***	***262***
54	SCTL	RO0000371	0.183 mi. W (966 ft.)	ELK GROVE SCHOOL DISTRICT	8800 ELK GROVE BLVD, ELK GROVE, CA	265
54	***SWEEPS***	***A34-000-22742***	***0.183 mi. W (966 ft.)***	***TRANSPORTATION DEPARTMENT***	***8800 ELK GROVE BLVD, ELK GROVE, CA 95624***	***266***
54	***USTCUPA***	***1310433278***	***0.183 mi. W (966 ft.)***	***ELK GROVE UNIFIED SCHOOL DISTRICT***	***8800 ELK GROVE BLVD, ELK GROVE, CA 95624***	***267***
55	***CLEANUPSITES***	***T0606700860***	***0.184 mi. S (972 ft.)***	***CRUMP RESIDENCE***	***9674 KENT ST, ELK GROVE, CA 95624***	***268***
55	HISTCORTESE	341032COR	0.184 mi. S (972 ft.)	CRUMP RESIDENCE	9674 KENT, ELK GROVE, CA 95624	269
55	***LUST***	***T0606700860***	***0.184 mi. S (972 ft.)***	***CRUMP RESIDENCE***	***9674 KENT ST, ELK GROVE, CA 95624***	***270***
55	SCTL	RO0000683	0.184 mi. S (972 ft.)	CRUMP RESIDENCE	9674 KENT ST, ELK GROVE, CA	271
56	***ENVIROSTOR***	***34010005***	***0.186 mi. SW (982 ft.)***	***ELEMENTARY SCHOOL NO. 31***	***BOTHWELL DRIVE/VINTAGE PARK DRIVE, ELK GROVE, CA 95758***	***272***
57	HISTCORTESE	340649COR	0.193 mi. W (1019 ft.)	ELK GROVE UNIFIED SCHOOL	8820/8800 ELK GROVE BLVD, ELK GROVE, CA 95624	273
58	***ABST***	***38390***	***0.196 mi. SW (1035 ft.)***	***INTERNATIONAL PAPER CO***	***10268 WATERMAN RD, ELK GROVE, CA 95624***	***274***
59	MRDS	10077181	0.224 mi. W (1183 ft.)	SACRAMENTO COUNTY PIT	SACRAMENTO COUNTY, ELK GROVE, CA 95624	275
59	MRDS	10188743	0.225 mi. W (1188 ft.)	SACRAMENTO COUNTY PIT	SACRAMENTO COUNTY, ELK GROVE, CA 95624	276
60	CLEANER	CAL000252808	0.225 mi. W (1188 ft.)	B A F O INDUSTRIES INC DBA KIRKLAND & SON	9874 DINO DR STE 1, ELK GROVE, CA 95624	277
61	SWRCY	RC140026.001	0.258 mi. W (1362 ft.)	J A RECYCLING CENTER	9833 KENT ST, ELK GROVE, CA 95624	278
61	SWRCY	RC182242.001	0.258 mi. W (1362 ft.)	VALDEZ RECYCLING	9833 KENT ST, ELK GROVE, CA 95624	279
62	SWRCY	RC6415	0.296 mi. W (1563 ft.)	NEXCYCLE	8787 ELK GROVE BLVD, ELK GROVE, CA 95624	280
63	DROP	DP0382	0.384 mi. N (2028 ft.)	OMOCHUMNES HIGH SCHOOL	9484 ELK GROVE-FLORIN RD, ELK GROVE, CA 95624	281

Located Sites Summary

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Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
64	ENVIROSTOR	34020001	0.44 mi. N (2323 ft.)	EDNA BATEY ELEMENTARY	BRADSHAW ROAD/ELK GROVE BOULEVARD, ELK GROVE, CA 95624	282
65	ENVIROSTOR	80000390	0.505 mi. E (2666 ft.)	ELK GROVE (J09CA0797)	ELK GROVE, CA	283
66	ENVIROSTOR	60001558	0.606 mi. WSW (3200 ft.)	GEORGIA-PACIFIC CHEMICALS	10399 E. STOCKTON BLVD., ELK GROVE, CA 95624	284
67	ENVIROSTOR	71002963	0.617 mi. SW (3258 ft.)	PROTO-TECH IND, INC.	9181 CMD CT #A, ELK GROVE, CA 95624	285
68	ENVIROSTOR	34020002	0.772 mi. E (4076 ft.)	PLEASANT GROVE HI/KATHERINE ALBIANI MID	BOND ROAD/BRADSHAW ROAD, ELK GROVE, CA 95624	286

California Hazardous Material Incident Report System (CHMIRS)

MAP ID# 1 **Distance from Property: 0.001 mi. (5 ft.) N**

INCIDENT INFORMATION

CONTROL #: **04-5716**
NOTIFIED: **11/03/04**
AGENCY: **NORCOMM**
ADMINISTRATION: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT SECONDARY AGENCY**
INCIDENT LOCATION: **ELK GROVE BLVD AT PORTO ROSA DR.**
ELK GROVE, CA
INCIDENT COUNTY: **SACRAMENTO**

SUBSTANCE INFORMATION

SUBSTANCE: **UNK**
QUANTITY: **NOT REPORTED**

INCIDENT DESCRIPTION

SUBSTANCE PER 3RD PARTY IS MILKY LOOKING AND MAY BE LIQUID PLUMBER. ELK GROVE FIRE BATALLION CHIEF RICK HOLMES POSSIBLY ON SCENE PER SAC REG. FIRE. HIS CELL NUMBER IS 916-425-1433. AMOUNT IN DRAIN COULD POSSIBLY BE 2 GALLONS. AS OF THIS TIME, EVERYTH

CONTAINED: **YES**
WATER INVOLVED / WATERWAY: **NOT REPORTED / STORM DRAIN.**
DATE AND TIME: **11/3/2004**
SITE: **ROAD**
INJURIES: **NOT REPORTED**
FATALITIES: **NOT REPORTED**
EVACUATIONS: **NOT REPORTED**
CLEANUP BY: **UNKNOWN**

Back to Report Summary

MAP ID# 1 **Distance from Property: 0.001 mi. (5 ft.) N**

INCIDENT INFORMATION

CONTROL #: **04-5759**
NOTIFIED: **11/04/04**
AGENCY: **SAC, CITY F.D.**
ADMINISTRATION: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT SECONDARY AGENCY**
INCIDENT LOCATION: **ELK GROVE BLVD AT PORTO ROSA RD.**
ELK GROVE, CA
INCIDENT COUNTY: **SACRAMENTO**

SUBSTANCE INFORMATION

SUBSTANCE: **PAINT**
QUANTITY: **NOT REPORTED**

INCIDENT DESCRIPTION

HISTORICAL: RAINFALL ON A FRESHLY PAINTED ROOF CAUSED THE RELEASE.
CONTAINED: **YES**
WATER INVOLVED / WATERWAY: **NOT REPORTED / NEARBY CREEK**
DATE AND TIME: **11/3/2004**
SITE: **ROAD**
INJURIES: **NOT REPORTED**
FATALITIES: **NOT REPORTED**
EVACUATIONS: **NOT REPORTED**
CLEANUP BY: **CONTRACTOR**

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California Hazardous Material Incident Report System (CHMIRS)

MAP ID# 2 **Distance from Property: 0.003 mi. (16 ft.) W**

INCIDENT INFORMATION

CONTROL #: **10-6335**
NOTIFIED: **10/21/10**
AGENCY: **PARAMOUNT PETROLEUM**
ADMINISTRATION: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT SECONDA**
INCIDENT LOCATION: **10092 WATERMAN ROAD**
ELK GROVE, CA 95624
INCIDENT COUNTY: **SACRAMENTO**

SUBSTANCE INFORMATION

SUBSTANCE: **ASPHALT**
QUANTITY: **1**
TYPE: **BBL.(S)**

INCIDENT DESCRIPTION

CONTAINED: **YES**
WATER INVOLVED / WATERWAY: **NO / NOT REPORTED**
DATE AND TIME: **10/21/2010**
SITE: **RAIL ROAD**
INJURIES: **NOT REPORTED**
FATALITIES: **NOT REPORTED**
EVACUATIONS: **NOT REPORTED**
CLEANUP BY: **REPORTING PARTY**

Back to Report Summary

MAP ID# 3 **Distance from Property: 0.003 mi. (16 ft.) S**

SITE INFORMATION

ID #: **60001032** ASSESSOR'S PARCEL #: **NONE SPECIFIED**

URL LINK: CLICK HERE

NAME: **ELK GROVE MONTESSORI**

ADDRESS: **BRADSHAW ROAD AND ELK GROVE BOULEVARD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

SITE SIZE (ACRES): **7.5**

LEAD AGENCY: **SMBRP**

DTSC PROJECT MANAGER: **NOT REPORTED**

DTSC SUPERVISOR: **MARK MALINOWSKI**

DTSC DIVISION BRANCH: **NORTHERN CALIFORNIA SCHOOLS & SANTA SUSANA**

NPL LISTED: **NO** RESTRICTED LAND USE: **NO**

SITE TYPE: **SCHOOL INVESTIGATION**

SITE TYPE DESCRIPTION

SCHOOL: IDENTIFIES PROPOSED AND EXISTING SCHOOL SITES THAT ARE BEING EVALUATED BY DTSC FOR POSSIBLE HAZARDOUS MATERIALS CONTAMINATION. SCHOOL SITES ARE FURTHER DEFINED AS "CLEANUP" (REMEDIAL ACTIONS OCCURRED) OR "EVALUATION" (NO REMEDIAL ACTION OCCURRED) BASED ON COMPLETED ACTIVITIES. ALL PROPOSED SCHOOL SITES THAT WILL RECEIVE STATE FUNDING FOR ACQUISITION OR CONSTRUCTION ARE REQUIRED TO GO THROUGH A RIGOROUS ENVIRONMENTAL REVIEW AND CLEANUP PROCESS UNDER DTSC'S OVERSIGHT.

DTSC's CURRENT INVOLVEMENT AT SITE (as of 03/09/2009)

NO ACTION REQUIRED - IDENTIFIES SITES WHERE A PHASE I ENVIRONMENTAL ASSESSMENT WAS COMPLETED AND RESULTED IN A NO ACTION REQUIRED DETERMINATION

PAST USE/S THAT CAUSED THE CONTAMINATION

NONE

CONFIRMED CONTAMINANTS OF CONCERN

NONE SPECIFIED

Back to Report Summary

National Pollutant Discharge Elimination System Facilities (NPDES)

MAP ID# 3 **Distance from Property: 0.003 mi. (16 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **2493120428**
REGULATORY MEASURE ID: **434849**
NAME: **ELK GROVE MONTESSORI SCHOOL**
ADDRESS: **BRADSHAW ROAD AND ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**
REGION: **5S - CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD FIELD OFFICES IN SACRAMENTO**

FACILITY DETAILS

PROGRAM: **CONSTRUCTION**
REGULATORY MEASURE STATUS: **TERMINATED**
REGULATORY MEASURE TYPE: **ENROLLEE**
ORDER NO: **2009-0009-DWQ**
WDID: **5S34C365734**
NPDES NO: **CAS000002**
ADOPTION DATE: **NOT REPORTED**
EFFECTIVE DATE: **2/26/2013**
EXPIRATION DATE: **NOT REPORTED**
TERMINATION DATE: **5/15/2014**

DISCHARGER INFORMATION

NAME: **CALIFORNIA MONTESSORI PROJECT**
DISCHARGER ADDRESS: **5330 A GIBBONS DR**
CARMICHAEL CALIFORNIA 95608

Back to Report Summary

MAP ID# 4 **Distance from Property: 0.004 mi. (21 ft.) W**

THE KINGSFORD COMPANY, 10100 WATERMAN ROAD, ELK GROVE, CA 95624
UNIQUE ID: **00029482**

*** C07 ***

PAGE 3128 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
THE KINGSFORD COMPANY
1221 BROADWAY OAKLAND CA 94612

II FACILITY

	MAILING ADDRESS	DEALER/FOREMAN/SUPERVISOR	TYPE OF BUSINESS
THE KINGSFORD COMPANY	TOWNSHIP/RANGE/SECTION	TELEPHONE	NO. OF CONTAINERS
10,100 WATERMAN ROAD			
ELK GROVE CA 95624	P.O.BOX X	F.D. KUKLA	MANUFACTURING
	ELK GROVE CA 95624	(916) 685-3925	5
CROSS STREET :			

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: SMITH,TROY (916) 685-3925 NIGHT: SMITH,TROY (916) 685-3925

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000005284001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /1968
C. YEAR INSTALLED : 1968
D. CAPACITY (GALLONS) : 500
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** 007 ***

PAGE 3129 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 2 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000003284002 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: UNKOWN /1979
C. YEAR INSTALLED : 1979
D. CAPACITY (GALLONS) : 2,100
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : NO CONTAINS:

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : GRAVITY PRESSURE
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
INTERNAL INSPECTION 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
NONE

********** OWNER ASSIGNED CONTAINER NUMBER: 3 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000003284003 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: UNKNOWN /1979
C. YEAR INSTALLED : 1979
D. CAPACITY (GALLONS) : 2,100
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : NO CONTAINS:

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : GRAVITY
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
INTERNAL INSPECTION 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
HYDROCARBONS (NO SPECIFICS GIVEN)

*** E07 ***

PAGE 3130 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 4 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000003284004 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /1982
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 10,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : UNKNOWN B. UNDERGROUND PIPING :
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12032 REGULAR MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 5 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000003284005 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : NO IF NO, YEAR OF LAST USE: 1982
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING :
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
NONE 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12032 REGULAR MOTOR VEHICLE FUEL

*** F07 ***

Back to Report Summary

MAP ID# 4 **Distance from Property: 0.004 mi. (21 ft.) W**

FACILITY INFORMATION

FACILITY #: **3284**
BOE: **44-018723**
NAME: **THE KINGSFORD COMPANY**
ADDRESS: **10100 WATERMAN RD**
ELK GROVE, CA 95624

STATUS: **ACTIVE**
JURISDICTION: **SACRAMENTO COUNTY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**

TANK INFORMATION

TANK #: **000001**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **DIESEL**
CAPACITY: **500**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000002**
INSTALLED: **NOT REPORTED**
TANK USE: **UNKNOWN**
CONTENT: **NOT REPORTED**
CAPACITY: **2100**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000003**
INSTALLED: **NOT REPORTED**
TANK USE: **UNKNOWN**
CONTENT: **NOT REPORTED**
CAPACITY: **2100**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000004**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **LEADED**
CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000005**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **LEADED**
CAPACITY: **1000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

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MAP ID# 5 **Distance from Property: 0.004 mi. (21 ft.) W**

INCIDENT INFORMATION

CONTROL #: **01-2799**
NOTIFIED: **05/15/01**
AGENCY: **WESTERN OIL AND SPREADING**
ADMINISTRATION: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT SECONDARY AGENCY**
INCIDENT LOCATION: **WATERMAN RD. AND MOSHER RD**
ELK GROVE, CA 95828
INCIDENT COUNTY: **SACRAMENTO**

SUBSTANCE INFORMATION

SUBSTANCE: **ROAD OIL;;;**
QUANTITY: **1500**
TYPE: **GALS**

INCIDENT DESCRIPTION

A "BOIL-OVER" ON A TRANSPORT TRUCK . SOME MATERIAL ENTERED A DRY DITCH BESIDE THE ROAD BUT IS BEING CLEANED OUT AT THIS TIME.

CONTAINED: **YES**
WATER INVOLVED / WATERWAY: **NO / NOT REPORTED**
DATE AND TIME: **5/15/2001**
SITE: **ROAD**
INJURIES: **NOT REPORTED**
FATALITIES: **NOT REPORTED**
EVACUATIONS: **NOT REPORTED**
CLEANUP BY: **REPORTING PARTY**

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California Hazardous Material Incident Report System (CHMIRS)

MAP ID# 6 **Distance from Property: 0.004 mi. (21 ft.) N**

INCIDENT INFORMATION

CONTROL #: **04-6256**
NOTIFIED: **12/01/04**
AGENCY: **SAC CO. S.O.**
ADMINISTRATION: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT SECONDARY AGENCY**
INCIDENT LOCATION: **ELK GROVE AT SCHOOL**
ELK GROVE, CA
INCIDENT COUNTY: **SACRAMENTO**

SUBSTANCE INFORMATION

SUBSTANCE: **SEWAGE**
QUANTITY: **NOT REPORTED**

INCIDENT DESCRIPTION

TWO SUBJECTS LIVING IN A MOTOR HOME CAUSED THE RELEASE.
CONTAINED: **NO**
WATER INVOLVED / WATERWAY: **NOT REPORTED / NOT REPORTED**
DATE AND TIME: **12/1/2004**
SITE: **ROAD**
INJURIES: **NOT REPORTED**
FATALITIES: **NOT REPORTED**
EVACUATIONS: **NOT REPORTED**
CLEANUP BY: **UNKNOWN**

Back to Report Summary

MAP ID# 6 **Distance from Property: 0.025 mi. (132 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606701004**
URL LINK: CLICK HERE
BUSINESS NAME: **ELK GROVE PAINT AND WALLPAPER**
ADDRESS: **9097 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341179**
STATUS: **COMPLETED - CASE CLOSED 12/29/2010**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
AQUIFER USED FOR DRINKING WATER SUPPLY
SITE HISTORY:
GASOLINE TANKS REMOVED IN 1998. SOIL AND GROUNDWATER CONTAMINATION CONFIRMED BY SITE INVESTIGATION. SITE ASSESSMENT COMPLETED THROUGH DRILLING OF SOIL BORINGS AND GROUNDWATER MONITORING WELL INSTALLATION. GEOCON REMEDIATED SITE USING SOIL VAPOR EXTRACTION. GROUNDWATER CONTAMINANT CONCENTRATIONS DECLINED SIGNIFICANTLY IN RESPONSE TO REMEDIAL EFFORTS. GEOCON PERFORMED A HUMAN-HEALTH-RISK ASSESSMENT TO EVALUATE THE RISK POSED TO BUILIDNG OCCUPANTS BY RESIDUAL CONTAMINATION. ACCEPTABLE RISK PARAMETERS WERE NOT EXCEEDED. ON JULY 19, 2010 SENT EMAIL TO CVRWQCB ASKING FOR CLOSURE CONCURRENCE.

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	01/01/50	LEAK DISCOVERY
OTHER	01/01/50	LEAK REPORTED
REMEDIATION	01/01/50	SOIL VAPOR EXTRACTION (SVE)
ENFORCEMENT	01/28/2011	CLEAN UP FUND - CASE CLOSURE REVIEW SUMMARY REPORT (RSR)
ENFORCEMENT	12/29/2010	CLOSURE/NO FURTHER ACTION LETTER
ENFORCEMENT	07/19/2010	FILE REVIEW
ENFORCEMENT	07/16/2010	FILE REVIEW
RESPONSE	07/13/2010	CLEAN UP FUND - 5-YEAR REVIEW SUMMARY
ENFORCEMENT	06/25/2010	PREPARATION OF AGENDA ITEM
ENFORCEMENT	06/11/2010	FILE REVIEW
ENFORCEMENT	01/27/2009	TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER
ENFORCEMENT	01/15/2009	FILE REVIEW
ENFORCEMENT	11/25/2008	FILE REVIEW
ENFORCEMENT	08/13/2008	FILE REVIEW
ENFORCEMENT	07/29/2008	FILE REVIEW
ENFORCEMENT	05/01/2008	FILE REVIEW
ENFORCEMENT	02/21/2008	TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER
ENFORCEMENT	02/04/2008	FILE REVIEW
ENFORCEMENT	01/30/2008	FILE REVIEW

TYPE OF ACTION:	DATE:	ACTION:
ENFORCEMENT	11/02/2007	FILE REVIEW
ENFORCEMENT	07/26/2007	FILE REVIEW
ENFORCEMENT	05/09/2007	FILE REVIEW
ENFORCEMENT	01/22/2007	FILE REVIEW
ENFORCEMENT	11/30/2006	FILE REVIEW
ENFORCEMENT	08/02/2006	FILE REVIEW
ENFORCEMENT	05/08/2006	TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER
REMEDIATION	04/05/2006	SOIL VAPOR EXTRACTION (SVE)
ENFORCEMENT	03/28/2006	FILE REVIEW
ENFORCEMENT	02/27/2006	FILE REVIEW
ENFORCEMENT	01/24/2006	FILE REVIEW
ENFORCEMENT	12/01/2005	FILE REVIEW
ENFORCEMENT	11/14/2005	FILE REVIEW
ENFORCEMENT	08/15/2005	FILE REVIEW
ENFORCEMENT	05/19/2005	FILE REVIEW
ENFORCEMENT	05/02/2005	* VERBAL COMMUNICATION
ENFORCEMENT	02/04/2005	FILE REVIEW
ENFORCEMENT	11/16/2004	FILE REVIEW
ENFORCEMENT	08/26/2004	FILE REVIEW
ENFORCEMENT	06/08/2004	FILE REVIEW
ENFORCEMENT	05/21/2004	* VERBAL COMMUNICATION
REMEDIATION	04/19/2004	SOIL VAPOR EXTRACTION (SVE)
ENFORCEMENT	02/25/2004	FILE REVIEW
ENFORCEMENT	02/20/2004	FILE REVIEW
ENFORCEMENT	03/18/1998	NOTICE OF RESPONSIBILITY
OTHER	03/16/1998	LEAK REPORTED
OTHER	07/10/1997	LEAK DISCOVERY

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	12/29/2010
OPEN - REMEDIATION	04/19/2004
OPEN - REMEDIATION	03/24/2003
OPEN - CASE BEGIN DATE	06/11/1997
OPEN - SITE ASSESSMENT	06/11/1997

CONTACT DETAILS

ORGANIZATION: **SACRAMENTO COUNTY LOP**
ADDRESS: **10590 ARMSTRONG AVENUE, SUITE A**
CITY: **MATHER**
CONTACT NAME: **CHRISTINE ABAD**
CONTACT TYPE: **LOCAL AGENCY CASEWORKER**
CONTACT PHONE: **9168769830**
EMAIL: **ABADC@SACCOUNTY.NET**
ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**

CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

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Historical Cortese List (HISTCORTESE)

MAP ID# 6 **Distance from Property: 0.025 mi. (132 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **341179COR**

ID#: **341179**

NAME: **ELK GROVE PAINT AND WALLP**

ADDRESS: **9097 ELK GROVE**
ELK GROVE, CA 95624

Back to Report Summary

Hazardous Waste Tanner Summary (HWTS)

MAP ID# 6 **Distance from Property: 0.02 mi. (106 ft.) N**

SITE INFORMATION

EPA ID: **CAD982045353**
NAME: **LEWIS AUTO SERVICE**
COUNTY: **NOT REPORTED**
ADDRESS: **9095 ELK GROVE BLVD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**
ADDRESS: **NOT REPORTED**
NOT REPORTED NOT REPORTED

MANIFEST SUMMARY INFORMATION

YEAR: **2000**
TSD ID: **CAD099452708**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **LOS ANGELES**
WASTE CATEGORY: **AQUEOUS SOLUTION WITH TOTAL ORGANIC RESIDUES LESS THAN 10 PERCENT**
AMOUNT DISPOSED(TONS): **0.4500**
DISPOSAL METHOD: **RECYCLER**

YEAR: **1999**
TSD ID: **CAD042345884**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **0.1459**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **1999**
TSD ID: **CAD042345884**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **OTHER ORGANIC SOLIDS**
AMOUNT DISPOSED(TONS): **0.0000**
DISPOSAL METHOD: **BLANK**

YEAR: **1999**
TSD ID: **CAD099452708**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **LOS ANGELES**
WASTE CATEGORY: **AQUEOUS SOLUTION WITH TOTAL ORGANIC RESIDUES LESS THAN 10 PERCENT**
AMOUNT DISPOSED(TONS): **0.7506**
DISPOSAL METHOD: **RECYCLER**

YEAR: **1998**
TSD ID: **CAD088838222**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CRUZ**
WASTE CATEGORY: **AQUEOUS SOLUTION WITH TOTAL ORGANIC RESIDUES LESS THAN 10 PERCENT**
AMOUNT DISPOSED(TONS): **0.2293**
DISPOSAL METHOD: **RECYCLER**

Hazardous Waste Tanner Summary (HWTS)

YEAR: **1997**
TSD ID: **CAD000088252**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **LOS ANGELES**
WASTE CATEGORY: **OFF-SPECIFICATION, AGED OR SURPLUS ORGANICS**
AMOUNT DISPOSED(TONS): **0.1800**
DISPOSAL METHOD: **TRANSFER STATION**

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 6 **Distance from Property: 0.025 mi. (132 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606701004**
URL LINK: CLICK HERE
BUSINESS NAME: **ELK GROVE PAINT AND WALLPAPER**
ADDRESS: **9097 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341179**
STATUS: **12/29/2010**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
AQUIFER USED FOR DRINKING WATER SUPPLY
SITE HISTORY:
GASOLINE TANKS REMOVED IN 1998. SOIL AND GROUNDWATER CONTAMINATION CONFIRMED BY SITE INVESTIGATION. SITE ASSESSMENT COMPLETED THROUGH DRILLING OF SOIL BORINGS AND GROUNDWATER MONITORING WELL INSTALLATION. GEOCON REMEDIATED SITE USING SOIL VAPOR EXTRACTION. GROUNDWATER CONTAMINANT CONCENTRATIONS DECLINED SIGNIFICANTLY IN RESPONSE TO REMEDIAL EFFORTS. GEOCON PERFORMED A HUMAN-HEALTH-RISK ASSESSMENT TO EVALUATE THE RISK POSED TO BUILIDNG OCCUPANTS BY RESIDUAL CONTAMINATION. ACCEPTABLE RISK PARAMETERS WERE NOT EXCEEDED. ON JULY 19, 2010 SENT EMAIL TO CVRWQCB ASKING FOR CLOSURE CONCURRENCE.

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

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MAP ID# 6 **Distance from Property: 0.02 mi. (106 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **1287080093**
NAME: **LEWIS AUTO SERVICE**
ADDRESS: **9095 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **INACTIVE**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

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MAP ID# 6 **Distance from Property: 0.02 mi. (106 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **2385683108**
NAME: **LEWISAUTO SERVICE**
ADDRESS: **9095 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **INACTIVE**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

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MAP ID# 6 **Distance from Property: 0.025 mi. (132 ft.) N**

SITE INFORMATION

ID#: **RO0000376**

REGIONAL WATER QUALITY BOARD ID: **D509**

NAME: **ELK GROVE PAINT & WALLPAPER**

ADDRESS: **9097 ELK GROVE BLVD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **07/10/1997**

CASE TYPE: **OTHER GROUNDWATER AFFECTED (USES OTHER THAN DRINKING WATER)**

SUBSTANCE: **GASOLINE-AUTOMOTIVE (MOTOR GASOLINE AND ADDITIVES), LEADED & UNLEADED**

REMEDIAL ACTION TAKEN: **NO**

CLOSED CASE: **NOT REPORTED**

CLOSED DATE: **NOT REPORTED**

LEAD AGENCY: **US/COUNTY OF SACRAMENTO**

LEAD STAFF: **ABAD, C.**

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California Hazardous Material Incident Report System (CHMIRS)

MAP ID# 7 **Distance from Property: 0.004 mi. (21 ft.) N**

INCIDENT INFORMATION

CONTROL #: **99-4409**
NOTIFIED: **10/18/99**
AGENCY: **UPRR**
ADMINISTRATION: **NOT REPORTED**
INCIDENT LOCATION: **S ELK GROVE BLVD AT RAILROAD ST**
ELK GROVE, CA
INCIDENT COUNTY: **SACRAMENTO**

SUBSTANCE INFORMATION

SUBSTANCE: **NONE**
QUANTITY: **NOT REPORTED**

INCIDENT DESCRIPTION

TRAIN VS PEDESTRIAN. CIRCUMSTANCES UNKNOWN.
CONTAINED: **YES**
WATER INVOLVED / WATERWAY: **NO / NOT REPORTED**
DATE AND TIME: **10/17/1999**
SITE: **RAIL ROAD**
INJURIES: **NOT REPORTED**
FATALITIES: **NOT REPORTED**
EVACUATIONS: **NOT REPORTED**
CLEANUP BY: **UNKNOWN**

Back to Report Summary

Dry Cleaner Facilities (CLEANER)

MAP ID# 7 **Distance from Property: 0.012 mi. (63 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **CAL000262004**
PERMIT ID: **CAL000262004**
FACILITY NAME: **ELK GROVE MOWER & SAW**
ADDRESS: **9056 ELK GROVE BLVD**
ELK GROVE, CA 95624-0000
COUNTY: **SACRAMENTO**
STATUS: **INACTIVE**
URL LINK: CLICK HERE

FACILITY DETAILS

SIC CODE: **7219**
SIC DESCRIPTION: **LAUNDRY AND GARMENT SERVICES, NOT ELSEWHERE CLASSIFIED**
NAICS CODE: **NOT REPORTED**
SIC DESCRIPTION: **NOT REPORTED**

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MAP ID# 7 **Distance from Property: 0.012 mi. (63 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **1152813129**
NAME: **MEYERS LAWNMOWER**
ADDRESS: **9056 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **NOT REPORTED**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

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MAP ID# 8 **Distance from Property: 0.005 mi. (26 ft.) E**

INCIDENT INFORMATION

GSID#: **302896**
NRC ID#: **302896**
INCIDENT LOCATION: **NOT REPORTED**
INCIDENT ADDRESS: **ELK GROVE BLVD BETWEEN WATERMAN & PORTER ROSA**
ELK GROVE, CA 95624
INCIDENT COUNTY: **SACRAMENTO**

INCIDENT DETAILS

INCIDENT DATE: **8/5/1995 1:00:00 PM**
INCIDENT CAUSE: **DUMPING**
INCIDENT TYPE: **FIXED**
INCIDENT OCCURED/DISCOVERED: **DISCOVERED**
INCIDENT DESCRIPTION: **RP ALSO WORKS ON VEHICLES AND MAY HAVE SPILLED OR DUMPED OIL INTO SOILCALLER SAYS THIS PROBLEM HAS OCCURRED BE4 - CALLER SHARES COMMON FENCE**

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: **UNKNOWN DIVE SHOP**
ADDRESS: **ADDRESS NOT REPORTED**
ELK GROVE CA 95624
RESPONSIBLE COMPANY ORGANIZATION TYPE: **PRIVATE ENTERPRISE**

MATERIALS INVOLVED

CHRIS CODE: **OUN**
MATERIAL REACHED WATER: **YES**
WATER AMOUNT: **UNKNOWN AMOUNT / NOT REPORTED**
MATERIAL RELEASED/AMOUNT: **UNKNOWN OIL / UNKNOWN AMOUNT**

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: **NONE**

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MAP ID# 9 **Distance from Property: 0.023 mi. (121 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **34271**
UNIQUE IDENTIFIER FOR THIS SPECIFIC STATION: **34271**
STATION NAME: **PACIFIC FUEL**
ADDRESS: **8999 ELK GROVE BLVD**
ELK GROVE, CA 95624
INTERSECTION DIRECTIONS: **NOT REPORTED**
STATION PHONE: **916-685-4708**
STATION CURRENT STATUS: **OPEN: THE STATION IS OPEN.**
TYPE OF ALTERNATIVE FUEL THE STATION PROVIDES: **ETHANOL (E85)**
OWNER TYPE: **PRIVATELY OWNED**
FEDERAL AGANCY ID: **NOT REPORTED**
FEDERAL AGENCY NAME: **NOT REPORTED**
DATE THAT THE STATION BEGAN OFFERING THE FUEL: **5/12/2009**
DATE THE STATION'S DETAILS WERE LAST CONFIRMED: **9/6/2017**
TIME THE STATION'S DETAILS WERE LAST UPDATED (ISO 8601 FORMAT).: **2018-01-09 06:50:05 UTC**

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California Hazardous Material Incident Report System (CHMIRS)

MAP ID# 9 **Distance from Property: 0.007 mi. (37 ft.) N**

INCIDENT INFORMATION

CONTROL #: **06-6970**
NOTIFIED: **11/24/06**
AGENCY: **UP RAILROAD**
ADMINISTRATION: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT SECONDARY AGENCY**
INCIDENT LOCATION: **N OF ELK GROVE BLVD AND 2ND AVE**
ELK GROVE, CA
INCIDENT COUNTY: **SACRAMENTO**

SUBSTANCE INFORMATION

SUBSTANCE: **TRAIN VS TRESPASSER**
QUANTITY: **NOT REPORTED**

INCIDENT DESCRIPTION

JUVENILE WAS CLIPPED BY THE AMTRAK TRAIN AND RECEIVED MINOR INJURIES.
CONTAINED: **UNKNOWN**
WATER INVOLVED / WATERWAY: **NOT REPORTED / NOT REPORTED**
DATE AND TIME: **11/24/2006**
SITE: **RAIL ROAD**
INJURIES: **1**
FATALITIES: **NOT REPORTED**
EVACUATIONS: **NOT REPORTED**
CLEANUP BY: **NONE**

Back to Report Summary

MAP ID# 9 **Distance from Property: 0.023 mi. (121 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606700425**
URL LINK: CLICK HERE
BUSINESS NAME: **UNOCAL #4829**
ADDRESS: **8999 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340507**
STATUS: **COMPLETED - CASE CLOSED 03/18/1991**
POTENTIAL CONTAMINATION:
WASTE OIL / MOTOR / HYDRAULIC / LUBRICATING
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	**01/01/50**	**LEAK REPORTED**
OTHER	**03/13/1991**	**LEAK REPORTED**

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**03/18/1991**
OPEN - CASE BEGIN DATE	**03/13/1991**
OPEN - REMEDIATION	**03/13/1991**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

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Historical Cortese List (HISTCORTESE)

MAP ID# 9 **Distance from Property: 0.023 mi. (121 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **340507COR**

ID#: **340507**

NAME: **UNOCAL #4829**

ADDRESS: **8999 ELK GROVE**
ELK GROVE, CA 95624

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MAP ID# 9 **Distance from Property: 0.023 mi. (121 ft.) N**

685 CENTRAL OFFICE, 8985 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **0001FC9C**

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PAGE 822 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
CITIZENS UTILITIES COMPANY OF
1035 PLACER STREET REDDING CA 96001

II FACILITY

	MAILING ADDRESS	DEALER/FOREMAN/SUPERVISOR	TYPE OF BUSINESS
685 CENTRAL OFFICE	TOWNSHIP/RANGE/SECTION	TELEPHONE	NO. OF CONTAINERS
8985 ELK GROVE BLVD,			
ELK GROVE CA 95624	DRAWER 340	J. WRIGHT	TELEPHONE UTILITY
	ELK GROVE CA 95624		
CROSS STREET :		(916) 685-7007	24
SECOND ST.	T6 N/R6 E/S 6		

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: GIELOW, W. L. (916) 685-7007 NIGHT: GIELOW, W. L. (SUSANVILLE OPER ( ) -

********** OWNER ASSIGNED CONTAINER NUMBER: 101 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591001 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING /
C. YEAR INSTALLED : 1974
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICL FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 102 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591002 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING
C. YEAR INSTALLED : 1981
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 104 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591003 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

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CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 522 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591020 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING /
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 601 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591021 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /
C. YEAR INSTALLED : 1975
D. CAPACITY (GALLONS) : 250
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 801 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591022 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING /
C. YEAR INSTALLED : 1981
D. CAPACITY (GALLONS) : 500
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 803 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591023 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: REDDING TANK AND CASING /
C. YEAR INSTALLED : 1978
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

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CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 805 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: CO0000085910Z4 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: REDDING TANK AND CASING /
C. YEAR INSTALLED : 1978
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED
C. WALLING: SINGLE
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 201 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591004 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1976
D. CAPACITY (GALLONS) : 1,500
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED
C. WALLING: SINGLE
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 115A ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591005 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING
C. YEAR INSTALLED : 1979
D. CAPACITY (GALLONS) : 2,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED
C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 115B ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591006 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING /
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 12,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 205 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591007 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING /
C. YEAR INSTALLED : 1980
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : GRAVITY
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** 815 ***

PAGE 826 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 235 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591008 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 238 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591009 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1942
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : NO IF NO, YEAR OF LAST USE: 1978
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** C15 ***

PAGE 827 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 241 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591010 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED
C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 242 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591011 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED
C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** 015 ***

PAGE 828 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 243 A ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591012 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING /
C. YEAR INSTALLED : 1983
D. CAPACITY (GALLONS) : 6,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 243 B ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591013 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING /
C. YEAR INSTALLED : 1983
D. CAPACITY (GALLONS) : 12,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

*** E15 ***

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 245 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591014 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1942
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : NO IF NO, YEAR OF LAST USE: 1978
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 301 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591015 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNI
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** E15 ***

*** F15 ***

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 501 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591016 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING /
C. YEAR INSTALLED : 1950
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 505 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591017 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: OWENS-CORNING /
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : FIBERGLASS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** G15 ***

*** G15 ***

PAGE 831 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 515 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591018 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1975
D. CAPACITY (GALLONS) : 3,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 520 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008591019 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1942
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : NO IF NO, YEAR OF LAST USE: 1978
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** H15 ***

Back to Report Summary

MAP ID# 9 **Distance from Property: 0.023 mi. (121 ft.) N**

UNION OIL SS 4829, 8999 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **00029505**

*** A16 ***

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
UNION OIL CO.
1 CALIFORNIA ST. SUITE 2700 SAN FRANCISCO CA 94111

II FACILITY

	MAILING ADDRESS / TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR / TELEPHONE	TYPE OF BUSINESS / NO. OF CONTAINERS
UNION OIL SS# 4829 8999 ELK GROVE BLVD. ELK GROVE CA 95624	8999 ELK GROVE BLVD. ELK GROVE CA 95624	WAYNE L. CLARK	GASOLINE STATION
CROSS STREET : 2ND		(916) 685-4708	3

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: JAURIGUI,L.J. (415) 956-7600 NIGHT: UNION OIL CO. (415) 561-9322

********** OWNER ASSIGNED CONTAINER NUMBER: 4829-1-1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000003251001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /1967
C. YEAR INSTALLED : 1967
D. CAPACITY (GALLONS) : 10,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED
C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : YES IF YES, YEAR OF MOST RECENT REPAIR: 1980

VII LEAK DETECTION
PIPING LEAK DETECTOR STOCK INVENTORY OTHER 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

*** B16 ***

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICL FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 4829-2-1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000003251002 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /1967
C. YEAR INSTALLED : 1967
D. CAPACITY (GALLONS) : 10,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: PREMIUM

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED
C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : YES IF YES, YEAR OF MOST RECENT REPAIR: 1980

VII LEAK DETECTION
PIPING LEAK DETECTOR STOCK INVENTORY OTHER
0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12033 PREMIUM MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 4829-4-1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000003251003 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 550
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : WASTE
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: WASTE OIL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED
C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : GRAVITY
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY
0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12035 WASTE OIL

*** C16 ***

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000003251004 *********

IV DESCRIPTION
A. CONTAINER TYPE : SUMP
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1967
D. CAPACITY (GALLONS) :
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : WASTE
H. MOTOR VEHICLE FUEL/WASTE OIL : NO CONTAINS:

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 6 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CONCRETE
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : GRAVITY
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
VISUAL

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
OIL AND WATER MIX

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 9 **Distance from Property: 0.023 mi. (121 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606700425**
URL LINK: CLICK HERE
BUSINESS NAME: **UNOCAL #4829**
ADDRESS: **8999 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340507**
STATUS: **03/18/1991**
POTENTIAL CONTAMINATION:
WASTE OIL / MOTOR / HYDRAULIC / LUBRICATING
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

Sacramento County Toxic Case List (SCTL)

MAP ID# 9 **Distance from Property: 0.01 mi. (53 ft.) S**

SITE INFORMATION

ID#: **RO0000375**

REGIONAL WATER QUALITY BOARD ID: **R051**

NAME: **ARCO**

ADDRESS: **9000 ELK GROVE BLVD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **NOT REPORTED**

CASE TYPE: **NOT REPORTED**

SUBSTANCE: **GASOLINE-AUTOMOTIVE (MOTOR GASOLINE AND ADDITIVES), LEADED & UNLEADED**

REMEDIAL ACTION TAKEN: **NO**

CLOSED CASE: **YES**

CLOSED DATE: **NOT REPORTED**

LEAD AGENCY: **US/COUNTY OF SACRAMENTO**

LEAD STAFF: **NONE ASSIGNED, H.**

Back to Report Summary

MAP ID# 9 **Distance from Property: 0.023 mi. (121 ft.) N**

FACILITY INFORMATION

FACILITY #: **3251**
BOE: **44-000051**
NAME: **UNION OIL SS# 4829**
ADDRESS: **8999 ELK GROVE BLVD**
ELK GROVE, CA 95624

STATUS: **ACTIVE**
JURISDICTION: **SACRAMENTO COUNTY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**

TANK INFORMATION

TANK #: **000001**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000002**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000003**
INSTALLED: **NOT REPORTED**
TANK USE: **OIL**
CONTENT: **WASTE OIL**
CAPACITY: **550**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **WASTE**
CONTAINMENT: **NOT REPORTED**

Back to Report Summary

MAP ID# 9 **Distance from Property: 0.023 mi. (121 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **2771666736** FACILITY ID: **FA0008866**

NAME: **PACIFIC FUEL & AUTO SERVICE INC**

ADDRESS: **8999 ELK GROVE BLVD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

FACILITY DETAILS

OTHER FACILITY NAME(S) LISTED FOR THIS SITE: **PACIFIC FUEL & AUTO SERVICE INC**

PERMIT AGENCY: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT**

FACILITY DETAILS LINK: *Click Here*

Back to Report Summary

MAP ID# 9 **Distance from Property: 0.023 mi. (121 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **925737637** FACILITY ID: **FA0043963**

NAME: **COMPLETE PERFORMANCE INC**

ADDRESS: **8999 ELK GROVE BLVD STE A**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

FACILITY DETAILS

OTHER FACILITY NAME(S) LISTED FOR THIS SITE: **COMPLETE PERFORMANCE INC**

PERMIT AGENCY: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT**

FACILITY DETAILS LINK: *Click Here*

Back to Report Summary

MAP ID# 10 **Distance from Property: 0.01 mi. (53 ft.) NNW**

FACILITY INFORMATION

GLOBAL ID: **L10008601447**
URL LINK: CLICK HERE
BUSINESS NAME: **ELK GROVE CLASS III LANDFILL**
ADDRESS: **WATERMAN & BOND**
ELK GROVE, CA
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LAND DISPOSAL SITE**
CASE NUMBER: **5B340315001**
STATUS: **OPEN - CLOSED/WITH MONITORING 01/01/1992**
POTENTIAL CONTAMINATION:
NOT REPORTED
POTENTIAL MEDIA AFFECTED:
NOT REPORTED
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
REMEDIATION	**01/01/50**	**PUMP & TREAT (P&T) GROUNDWATER**
ENFORCEMENT	**07/31/2014**	**WASTE DISCHARGE REQUIREMENTS**
ENFORCEMENT	**07/23/2013**	**STAFF LETTER**
RESPONSE	**04/15/2013**	**CAP/RAP - OTHER REPORT - REGULATOR RESPONDED**
ENFORCEMENT	**01/30/2013**	**STAFF LETTER**
REMEDIATION	**04/01/2002**	**PUMP & TREAT (P&T) GROUNDWATER**

STATUS HISTORY

STATUS:	DATE:
OPEN - CLOSED/WITH MONITORING	**01/01/1992**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **TODD DEL FRATE**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **TDELFRATE@WATERBOARDS.CA.GOV**

Back to Report Summary

MAP ID# 10 **Distance from Property: 0.007 mi. (37 ft.) NNW**

FACILITY INFORMATION

GLOBAL ID: **T10000004731**

URL LINK: CLICK HERE

BUSINESS NAME: **MATHER AIR FORCE BASE - FORMER ELK GROVE - MATHER AUXILIARY FIELD #5**

ADDRESS: **BOND ROAD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **MILITARY CLEANUP SITE**

CASE NUMBER: **NOT REPORTED**

STATUS: **OPEN - INACTIVE 05/01/2013**

POTENTIAL CONTAMINATION:
NOT REPORTED

POTENTIAL MEDIA AFFECTED:
NOT REPORTED

SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
RESPONSE	06/30/2018	DSMOA
RESPONSE	06/30/2018	MEETINGS
RESPONSE	06/30/2018	PROPERTY TRANSFER DOCUMENTS
RESPONSE	06/30/2018	REPORT
RESPONSE	06/30/2018	WORK PLAN
RESPONSE	06/30/2017	MEETINGS
RESPONSE	06/30/2017	REPORT
RESPONSE	10/03/2010	FEASIBILITY STUDY REPORT
RESPONSE	10/03/2010	FINDING OF SUITABILITY TO TRANSFER
RESPONSE	09/29/2010	OTHER REPORT / DOCUMENT
RESPONSE	08/22/2010	FACT SHEETS - PUBLIC PARTICIPATION
RESPONSE	08/07/2010	OPERATION AND MAINTENANCE PLAN/MONITORING REPORT
RESPONSE	07/24/2010	MONITORING REPORT - OTHER
RESPONSE	07/24/2010	OTHER REPORT / DOCUMENT
RESPONSE	07/18/2010	OTHER REPORT / DOCUMENT
RESPONSE	07/13/2010	MONITORING REPORT - OTHER
RESPONSE	07/04/2010	OPERATION AND MAINTENANCE PLAN/MONITORING REPORT
RESPONSE	06/30/2010	MONITORING REPORT - QUARTERLY
RESPONSE	06/06/2010	MONITORING REPORT - OTHER
RESPONSE	06/06/2010	OTHER REPORT / DOCUMENT
RESPONSE	05/18/2010	MONITORING REPORT - ANNUALLY
RESPONSE	05/18/2010	OTHER REPORT / DOCUMENT
RESPONSE	05/11/2010	MONITORING REPORT - ANNUALLY
RESPONSE	05/11/2010	OTHER REPORT / DOCUMENT

TYPE OF ACTION:	DATE:	ACTION:
RESPONSE	**04/04/2010**	**MONITORING REPORT - QUARTERLY**
RESPONSE	**04/04/2010**	**OTHER REPORT / DOCUMENT**
RESPONSE	**03/28/2010**	**OTHER REPORT / DOCUMENT**
RESPONSE	**03/28/2010**	**WELL INSTALLATION WORKPLAN**
RESPONSE	**03/20/2010**	**MONITORING REPORT - QUARTERLY**
RESPONSE	**03/20/2010**	**OPERATION AND MAINTENANCE PLAN/MONITORING REPORT**
RESPONSE	**03/19/2010**	**MONITORING REPORT - QUARTERLY**

STATUS HISTORY

STATUS:	DATE:
OPEN - CASE BEGIN DATE	**05/01/2013**
OPEN - INACTIVE	**05/01/2013**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **ZZZ**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **INFO5@WATERBOARDS.CA.GOV**

Back to Report Summary

Facility Registry System (FRSCA)

MAP ID# 10 **Distance from Property: 0.007 mi. (37 ft.) NNW**

FACILITY INFORMATION

REGISTRY ID: **110066407034**

NAME: **MATHER AIR FORCE BASE - FORMER ELK GROVE - MATHER AUXILIARY FIELD #5**

LOCATION ADDRESS: **BOND ROAD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

EPA REGION: **9**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

MATHER AIR FORCE BASE - FORMER ELK GROVE - MATHER AUXILIARY FIELD #5

PROGRAM/S LISTED FOR THIS FACILITY

CA-ENVIROVIEW - CA-ENVIROVIEW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

MAP ID# 10 **Distance from Property: 0.01 mi. (53 ft.) NNW**

FACILITY INFORMATION

GLOBAL ID: **L10008601447**
URL LINK: CLICK HERE
BUSINESS NAME: **ELK GROVE CLASS III LANDFILL**
ADDRESS: **WATERMAN & BOND**
ELK GROVE, CA
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LAND DISPOSAL SITE**
CASE NUMBER: **5B340315001**
STATUS: **01/01/1992**
POTENTIAL CONTAMINATION:
NOT REPORTED
POTENTIAL MEDIA AFFECTED:
NOT REPORTED
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
REMEDIATION	**01/01/50**	**PUMP & TREAT (P&T) GROUNDWATER**
ENFORCEMENT	**07/31/2014**	**WASTE DISCHARGE REQUIREMENTS**
ENFORCEMENT	**07/23/2013**	**STAFF LETTER**
RESPONSE	**04/15/2013**	**CAP/RAP - OTHER REPORT - REGULATOR RESPONDED**
ENFORCEMENT	**01/30/2013**	**STAFF LETTER**
REMEDIATION	**04/01/2002**	**PUMP & TREAT (P&T) GROUNDWATER**

STATUS HISTORY

STATUS:	DATE:
OPEN - CLOSED/WITH MONITORING	**01/01/1992**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **TODD DEL FRATE**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **TDELFRATE@WATERBOARDS.CA.GOV**

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MAP ID# 10 **Distance from Property: 0.007 mi. (37 ft.) NNW**

FACILITY INFORMATION

GLOBAL ID: **T10000004731**

URL LINK: CLICK HERE

BUSINESS NAME: **MATHER AIR FORCE BASE - FORMER ELK GROVE - MATHER AUXILIARY FIELD #5**

ADDRESS: **BOND ROAD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **MILITARY CLEANUP SITE**

CASE NUMBER: **NOT REPORTED**

STATUS: **5/1/2013**

POTENTIAL CONTAMINATION:
NOT REPORTED

POTENTIAL MEDIA AFFECTED:
NOT REPORTED

SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
RESPONSE	06/30/2018	DSMOA
RESPONSE	06/30/2018	MEETINGS
RESPONSE	06/30/2018	PROPERTY TRANSFER DOCUMENTS
RESPONSE	06/30/2018	REPORT
RESPONSE	06/30/2018	WORK PLAN
RESPONSE	06/30/2017	MEETINGS
RESPONSE	06/30/2017	REPORT
RESPONSE	10/03/2010	FEASIBILITY STUDY REPORT
RESPONSE	10/03/2010	FINDING OF SUITABILITY TO TRANSFER
RESPONSE	09/29/2010	OTHER REPORT / DOCUMENT
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RESPONSE	07/24/2010	MONITORING REPORT - OTHER
RESPONSE	07/24/2010	OTHER REPORT / DOCUMENT
RESPONSE	07/18/2010	OTHER REPORT / DOCUMENT
RESPONSE	07/13/2010	MONITORING REPORT - OTHER
RESPONSE	07/04/2010	OPERATION AND MAINTENANCE PLAN/MONITORING REPORT
RESPONSE	06/30/2010	MONITORING REPORT - QUARTERLY
RESPONSE	06/06/2010	MONITORING REPORT - OTHER
RESPONSE	06/06/2010	OTHER REPORT / DOCUMENT
RESPONSE	05/18/2010	MONITORING REPORT - ANNUALLY
RESPONSE	05/18/2010	OTHER REPORT / DOCUMENT
RESPONSE	05/11/2010	MONITORING REPORT - ANNUALLY
RESPONSE	05/11/2010	OTHER REPORT / DOCUMENT

TYPE OF ACTION:	DATE:	ACTION:
RESPONSE	**04/04/2010**	**MONITORING REPORT - QUARTERLY**
RESPONSE	**04/04/2010**	**OTHER REPORT / DOCUMENT**
RESPONSE	**03/28/2010**	**OTHER REPORT / DOCUMENT**
RESPONSE	**03/28/2010**	**WELL INSTALLATION WORKPLAN**
RESPONSE	**03/20/2010**	**MONITORING REPORT - QUARTERLY**
RESPONSE	**03/20/2010**	**OPERATION AND MAINTENANCE PLAN/MONITORING REPORT**
RESPONSE	**03/19/2010**	**MONITORING REPORT - QUARTERLY**

STATUS HISTORY

STATUS:	DATE:
OPEN - CASE BEGIN DATE	**05/01/2013**
OPEN - INACTIVE	**05/01/2013**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **ZZZ**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **INFO5@WATERBOARDS.CA.GOV**

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National Pollutant Discharge Elimination System Facilities (NPDES)

MAP ID# 10 **Distance from Property: 0.01 mi. (53 ft.) NNW**

FACILITY INFORMATION

GEOSEARCH ID: **114157444**
REGULATORY MEASURE ID: **454831**
NAME: **ELK GROVE LANDFILL**
ADDRESS: **SOUTHWEST CORNER OF WATERMAN AND BOND ROAD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**
REGION: **5S - CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD FIELD OFFICES IN SACRAMENTO**

FACILITY DETAILS

PROGRAM: **CONSTRUCTION**
REGULATORY MEASURE STATUS: **TERMINATED**
REGULATORY MEASURE TYPE: **ENROLLEE**
ORDER NO: **2009-0009-DWQ**
WDID: **5S34C372828**
NPDES NO: **CAS000002**
ADOPTION DATE: **NOT REPORTED**
EFFECTIVE DATE: **5/5/2015**
EXPIRATION DATE: **NOT REPORTED**
TERMINATION DATE: **4/13/2016**

DISCHARGER INFORMATION

NAME: **SACRAMENTO COUNTY DEPARTMENT OF WASTE MANAGEMENT AND RECYCLING**
DISCHARGER ADDRESS: **9850 GOETHE ROAD**
SACRAMENTO CALIFORNIA 95827

Back to Report Summary

National Pollutant Discharge Elimination System Facilities (NPDES)

MAP ID# 10 **Distance from Property: 0.01 mi. (53 ft.) NNW**

FACILITY INFORMATION

GEOSEARCH ID: **4165348626**
REGULATORY MEASURE ID: **454831**
NAME: **ELK GROVE LANDFILL**
ADDRESS: **SOUTHWEST CORNER OF WATERMAN AND BOND ROAD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**
REGION: **5S - CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD FIELD OFFICES IN SACRAMENTO**

FACILITY DETAILS

PROGRAM: **CONSTRUCTION**
REGULATORY MEASURE STATUS: **TERMINATED**
REGULATORY MEASURE TYPE: **ENROLLEE**
ORDER NO: **2009-0009-DWQ**
WDID: **5S34C372828**
NPDES NO: **CAS000002**
ADOPTION DATE: **NOT REPORTED**
EFFECTIVE DATE: **5/5/2015**
EXPIRATION DATE: **NOT REPORTED**
TERMINATION DATE: **4/13/2016**

DISCHARGER INFORMATION

NAME: **SACRAMENTO CNTY SOLID WASTE MANAGEMENT**
DISCHARGER ADDRESS: **9850 GOETHE RD**
SACRAMENTO CALIFORNIA 95827

Back to Report Summary

MAP ID# 10 **Distance from Property: 0.01 mi. (53 ft.) NNW**

INCIDENT INFORMATION

GLOBAL ID#:	**SLT5SA033522**
NAME:	**ELK GROVE LANDFILL**
ADDRESS:	**9260 WATERMAN ROAD**
	ELK GROVE CA 95624
LEAD AGENCY:	**CENTRAL VALLEY RWQCB (REGION 5S)**
LEAD AGENCY CONTACT:	**WLB**
LEAD AGENCY CASE #:	**SLT5SA03**
SUBSTANCE RELEASED:	**SALTS, TDS, VOC**
RESPONSIBLE PARTY:	**NOT REPORTED**

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MAP ID# 10 **Distance from Property: 0.01 mi. (53 ft.) NNW**

FACILITY INFORMATION

GEOSEARCH ID: **34-AA-0004SWIS**
ID NUMBER: **34-AA-0004**
NAME: **ELK GROVE DISPOSAL SITE**
LOCATION: **CORNER OF WATERMAN & BOND ROADS**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**
LATITUDE: **38.419910000**
LONGITUDE: **-121.354770000**

OWNER INFORMATION

NAME: **SACRAMENTO COUNTY**
ADDRESS: **9850 GOETHE RD.**
SACRAMENTO, CA 95827

OPERATOR INFORMATION

NAME: **SACRAMENTO COUNTY**
ADDRESS: **9850 GOETHE RD.**
SACRAMENTO CA 95827

FACILITY DETAILS

SITE ID: **3120**
LAND USE: **RESIDENTIAL,OPEN SPACE - IRRIGATED**
PERMIT DATE: **1/16/1978**
PERMIT STATUS: **PERMITTED**
ENFORCEMENT AGENCY: **COUNTY OF SACRAMENTO**

UNIT

CATEGORY: **DISPOSAL**
UNIT #: **01**
REGULATORY STATUS: **PERMITTED**
OPERATIONAL STATUS: **CLOSED**
ACTIVITY: **SOLID WASTE DISPOSAL SITE**
INSPECTION: **QUARTERLY**
ACCEPTED WASTE: **NOT REPORTED**
CAPACITY: **NOT REPORTED**
REMAINING CAPACITY: **NOT REPORTED**
THROUGHPUT: **NOT REPORTED**
DISPOSAL ACREAGE: **0.00**
CLOSURE DATE: **1/1/1980**

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MAP ID# 10 **Distance from Property: 0.01 mi. (53 ft.) NNW**

FACILITY INFORMATION

FACILITY#: **5B340315001**
NAME: **ELK GROVE CLASS III LANDFILL**
CONTACT: **PAT MAXFIELD & E. SPARKMAN**
ADDRESS: **CORNER OF WATERMAN & BOND RD**
ELK GROVE CA, CA NOT REPOR
TYPE: **LANDFILL**
STATUS: **CEASE DISCHARGE**
STATUS DATE: **19880701**
WASTE TYPE: **NON-HAZARD**
COMMENTS: **FINAL CLOSURE IN '92; APROX. 930,000 YD^3;**

FORMATION INFORMATION

NAME: **ARROYO SECO GRAVEL**
STATUS: **CEASE DISCHARGE**
PERMIABILITY: **UNKNOWN**
GROUNDWATER DEPTH: **100**
COMMENTS: **GROUND AND SURFACE WATER MONITORING SHALL BE INSTALLED BY 1/9/89;**
GROUND AND SURFACE WATER MONITORING SHALL BE INSTALLED BY 1/9/89;
GWF DIRECTION TO THE SOUTHWEST; ANNUAL PAN A EVAP. 57.08 INC;
PERMIABILITY: **UNKNOWN**
GROUNDWATER DEPTH: **100**
COMMENTS: **GAS CONTROL SYSTEM SINCE '93; LF IS NOT LINED;**
GAS CONTROL SYSTEM SINCE '93; LF IS NOT LINED;

Back to Report Summary

MAP ID# 11 **Distance from Property: 0.009 mi. (48 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **3878652837**
NAME: **MCCAULEY POOL AND SPA**
ADDRESS: **8940 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **INACTIVE**
WASTE GENERATOR: **NOT REPORTED**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

Back to Report Summary

MAP ID# 12 **Distance from Property: 0.01 mi. (53 ft.) SSW**

INCIDENT INFORMATION

CONTROL #: **00-2910**
NOTIFIED: **06/30/00**
AGENCY: **UPRR**
ADMINISTRATION: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT SECONDARY AGENCY**
INCIDENT LOCATION: **GRANTLINE AND WATERMAN ROAD**
ELK GROVE, CA
INCIDENT COUNTY: **SACRAMENTO**

SUBSTANCE INFORMATION

SUBSTANCE: **NONE**
QUANTITY: **NOT REPORTED**

INCIDENT DESCRIPTION

VEH VS TRAIN
CONTAINED: **YES**
WATER INVOLVED / WATERWAY: **NOT REPORTED / NOT REPORTED**
DATE AND TIME: **6/30/2000**
SITE: **RAIL ROAD**
INJURIES: **1**
FATALITIES: **NOT REPORTED**
EVACUATIONS: **NOT REPORTED**
CLEANUP BY: **NONE**

Back to Report Summary

MAP ID# 12 **Distance from Property: 0.01 mi. (53 ft.) SSW**

INCIDENT INFORMATION

CONTROL #: **01-0272**
NOTIFIED: **01/13/01**
AGENCY: **UPRR**
ADMINISTRATION: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT SECONDARY AGENCY**
INCIDENT LOCATION: **GRANT LINE RD. AT WATERMAN RD.**
ELK GROVE, CA
INCIDENT COUNTY: **SACRAMENTO**

SUBSTANCE INFORMATION

SUBSTANCE: **N/A;;;**
QUANTITY: **NOT REPORTED**

INCIDENT DESCRIPTION

TRAIN VERSUS MOTORCYCLE ACCIDENT. THE TRAIN DID NOT DERAIL. THE MOTORCYCLE WAS UNOCCUPIED, LAYING ON THE RAILROAD TRACK.

CONTAINED: **YES**
WATER INVOLVED / WATERWAY: **NO / NOT REPORTED**
DATE AND TIME: **1/13/2001**
SITE: **RAIL ROAD**
INJURIES: **NOT REPORTED**
FATALITIES: **NOT REPORTED**
EVACUATIONS: **NOT REPORTED**
CLEANUP BY: **RESPONSIBLE PARTY**

Back to Report Summary

MAP ID# 12 **Distance from Property: 0.01 mi. (53 ft.) SSW**

INCIDENT INFORMATION

CONTROL #: **05-1939**
NOTIFIED: **03/29/05**
AGENCY: **UPRR**
ADMINISTRATION: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT SECONDARY AGENCY**
INCIDENT LOCATION: **GRANT LINE RD AT WATERMAN**
ELK GROVE, CA
INCIDENT COUNTY: **SACRAMENTO**

SUBSTANCE INFORMATION

SUBSTANCE: **TRAIN VS VEHICLE**
QUANTITY: **NOT REPORTED**

INCIDENT DESCRIPTION

PER CALLER, UNKNOWN WHY TRAIN HIT A CAR.
CONTAINED: **UNKNOWN**
WATER INVOLVED / WATERWAY: **NOT REPORTED / NOT REPORTED**
DATE AND TIME: **3/29/2005**
SITE: **RAIL ROAD**
INJURIES: **1**
FATALITIES: **1**
EVACUATIONS: **NOT REPORTED**
CLEANUP BY: **N/A**

Back to Report Summary

National Pollutant Discharge Elimination System Facilities (NPDES)

MAP ID# 12 **Distance from Property: 0.01 mi. (53 ft.) SSW**

FACILITY INFORMATION

GEOSEARCH ID: **1413589603**
REGULATORY MEASURE ID: **440203**
NAME: **SFPP LINE SECTION 9 RELOCATION PROJECT**
ADDRESS: **GRANT LINE ROAD AND WATERMAN ROAD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**
REGION: **5S - CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD FIELD OFFICES IN SACRAMENTO**

FACILITY DETAILS

PROGRAM: **CONSTRUCTION**
REGULATORY MEASURE STATUS: **TERMINATED**
REGULATORY MEASURE TYPE: **ENROLLEE**
ORDER NO: **2009-0009-DWQ**
WDID: **5S34C367486**
NPDES NO: **CAS000002**
ADOPTION DATE: **NOT REPORTED**
EFFECTIVE DATE: **8/22/2013**
EXPIRATION DATE: **NOT REPORTED**
TERMINATION DATE: **3/28/2014**

DISCHARGER INFORMATION

NAME: **KINDER MORGAN ENERGY PARTNERS**
DISCHARGER ADDRESS: **1100 TOWN AND COUNTRY ROAD**
ORANGE CALIFORNIA 92868

Back to Report Summary

National Pollutant Discharge Elimination System Facilities (NPDES)

MAP ID# 12 **Distance from Property: 0.01 mi. (53 ft.) SW**

FACILITY INFORMATION

GEOSEARCH ID: **4010592828**
REGULATORY MEASURE ID: **404570**
NAME: **WATERMAN RE ALIGNMENT PROJECT**
ADDRESS: **400 E WATERMAN RD GRANT LINE INTERSECTION**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**
REGION: **5S - CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD FIELD OFFICES IN SACRAMENTO**

FACILITY DETAILS

PROGRAM: **CONSTRUCTION**
REGULATORY MEASURE STATUS: **TERMINATED**
REGULATORY MEASURE TYPE: **ENROLLEE**
ORDER NO: **2009-0009-DWQ**
WDID: **5S34C358951**
NPDES NO: **CAS000002**
ADOPTION DATE: **NOT REPORTED**
EFFECTIVE DATE: **6/29/2010**
EXPIRATION DATE: **NOT REPORTED**
TERMINATION DATE: **3/29/2012**

DISCHARGER INFORMATION

NAME: **CITY OF ELK GROVE**
DISCHARGER ADDRESS: **8401 LAGUNA PALMS WAY**
ELK GROVE CALIFORNIA 95758

Back to Report Summary

MAP ID# 13 **Distance from Property: 0.011 mi. (58 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **663961002**
NAME: **SWANSONS CLEANERS**
ADDRESS: **9385 ELK GROVE BLVD STE 300**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **INACTIVE**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

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Facility Registry System (FRSCA)

MAP ID# 14 **Distance from Property: 0.012 mi. (63 ft.) S**

FACILITY INFORMATION

REGISTRY ID: **110065774978**

NAME: **CLEAN ENERGY - 9050 ELK GROVE**

LOCATION ADDRESS: **9050 ELK GROVE BLVD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

EPA REGION: **9**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

CLEAN ENERGY - 9050 ELK GROVE

PROGRAM/S LISTED FOR THIS FACILITY

CA-ENVIROVIEW - CA-ENVIROVIEW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

4924 - NATURAL GAS DISTRIBUTION

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

221210 - NATURAL GAS DISTRIBUTION.

Back to Report Summary

MAP ID# 15 **Distance from Property: 0.013 mi. (69 ft.) E**

FACILITY INFORMATION

GLOBAL ID: **T0606791922**
URL LINK: CLICK HERE
BUSINESS NAME: **RESIDENCE**
ADDRESS: **9800 WATERMAN**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341354**
STATUS: **COMPLETED - CASE CLOSED 04/29/2003**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
AQUIFER USED FOR DRINKING WATER SUPPLY, SOIL
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	**01/01/50**	**LEAK DISCOVERY**
OTHER	**01/01/50**	**LEAK REPORTED**
REMEDIATION	**01/01/50**	**EXCAVATION**
REMEDIATION	**02/28/2003**	**EXCAVATION**
ENFORCEMENT	**07/30/2001**	**NOTICE OF RESPONSIBILITY**
OTHER	**06/22/2001**	**LEAK DISCOVERY**
ENFORCEMENT	**06/21/2001**	**NOTIFICATION - PROPOSITION 65**
OTHER	**01/02/1965**	**LEAK REPORTED**

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**04/29/2003**
OPEN - CASE BEGIN DATE	**06/21/2001**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

Back to Report Summary

MAP ID# 15 **Distance from Property: 0.013 mi. (69 ft.) E**

FACILITY INFORMATION

REGISTRY ID: **110066410280**

NAME: **RESIDENCE**

LOCATION ADDRESS: **9800 WATERMAN**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

EPA REGION: **9**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

RESIDENCE

PROGRAM/S LISTED FOR THIS FACILITY

CA-ENVIROVIEW - CA-ENVIROVIEW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)
NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)
NO NAICS DATA REPORTED

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 15 **Distance from Property: 0.013 mi. (69 ft.) E**

FACILITY INFORMATION

GLOBAL ID: **T0606791922**
URL LINK: CLICK HERE
BUSINESS NAME: **RESIDENCE**
ADDRESS: **9800 WATERMAN**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341354**
STATUS: **04/29/2003**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
AQUIFER USED FOR DRINKING WATER SUPPLY, SOIL
SITE HISTORY:
NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 15 **Distance from Property: 0.013 mi. (69 ft.) E**

SITE INFORMATION

ID#: **RO0001466**

REGIONAL WATER QUALITY BOARD ID: **F589**

NAME: **RESIDENCE**

ADDRESS: **9800 WATERMAN RD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **NOT REPORTED**

CASE TYPE: **SOIL ONLY AFFECTED**

SUBSTANCE: **NOT REPORTED**

REMEDIAL ACTION TAKEN: **NO**

CLOSED CASE: **YES**

CLOSED DATE: **04/04/2004**

LEAD AGENCY: **NOT REPORTED**

LEAD STAFF: **LEIBOLD, R.**

Back to Report Summary

MAP ID# 16 **Distance from Property: 0.014 mi. (74 ft.) N**

ELK GROVE MEAT CO, 9501 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **0001FD6F**

*** JO5 ***

PAGE 1222 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
ELK GROVE MEAT CO
9501 ELK GROVE BLVD ELK GROVE CA 95624

II FACILITY
ELK GROVE MEAT CO
9501 ELK GROVE BLVD
ELK GROVE CA 95624
CROSS STREET :

MAILING ADDRESS
TOWNSHIP/RANGE/SECTION
P.O. BOX 0
ELK GROVE CA 95624

DEALER/FOREMAN/SUPERVISOR
TELEPHONE
(916) 423-3521

TYPE OF BUSINESS
NO. OF CONTAINERS
SLAUGHTERHOUSE
2

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: POPP, RONALD (916) 423-3521 NIGHT: SAME ( ) -

********** OWNER ASSIGNED CONTAINER NUMBER: 2 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008658001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: PERKINS WELDING /1980
C. YEAR INSTALLED : 1980
D. CAPACITY (GALLONS) : 3,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : YES

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: UNKNOWN
C. WALLING: UNKNOWN
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
VISUAL 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

*** KO5 ***

ELK GROVE MEAT CO, 9501 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **0001FD6F**

*** BOF ***

PAGE 1223 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000008658002 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: PERKINS WELDING /1980
C. YEAR INSTALLED : 1980
D. CAPACITY (GALLONS) : 10,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : YES

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: UNKNOWN
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
VISUAL Q

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** EOS ***

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Hazardous Waste Tanner Summary (HWTS)

MAP ID# 16 **Distance from Property: 0.014 mi. (74 ft.) N**

SITE INFORMATION

EPA ID: **CAC002101056**
NAME: **EAST PARK ELK GROVE**
COUNTY: **NOT REPORTED**
ADDRESS: **9501 ELK GROVE BLVD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **LENNAR RENNAISSANCE**
PHONE: **(916) 366-3224**
ADDRESS: **NOT REPORTED**
NOT REPORTED NOT REPORTED

MANIFEST SUMMARY INFORMATION

YEAR: **1998**
TSD ID: **CAT000646117**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **KINGS**
WASTE CATEGORY: **CONTAMINATED SOIL FROM SITE CLEAN-UP**
AMOUNT DISPOSED(TONS): **0.8428**
DISPOSAL METHOD: **DISPOSAL, LANDFILL**

Back to Report Summary

MAP ID# 16 **Distance from Property: 0.014 mi. (74 ft.) N**

FACILITY INFORMATION

FACILITY #: **8658**
BOE: **NOT REPORTED**
NAME: **ELK GROVE MEAT CO**
ADDRESS: **9501 ELK GROVE BLVD**
ELK GROVE, CA 95624

STATUS: **INACTIVE**
JURISDICTION: **SACRAMENTO COUNTY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**

TANK INFORMATION

TANK #: **000001**
INSTALLED: **01-01-80**
TANK USE: **M.V. FUEL**
CONTENT: **LEADED**

CAPACITY: **3000**
REMOVED: **12-21-90**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

TANK #: **000002**
INSTALLED: **01-01-80**
TANK USE: **M.V. FUEL**
CONTENT: **DIESEL**

CAPACITY: **10000**
REMOVED: **12-21-90**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

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Hazardous Waste Tanner Summary (HWTS)

MAP ID# 17 **Distance from Property: 0.014 mi. (74 ft.) W**

SITE INFORMATION

EPA ID: **CAC001024688**
NAME: **JADE PLACE**
COUNTY: **NOT REPORTED**
ADDRESS: **9672 ELK GROVE-FLORIN RD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **JERRY STRONG**
PHONE: **(916) 686-5880**
ADDRESS: **NOT REPORTED**
NOT REPORTED NOT REPORTED

MANIFEST SUMMARY INFORMATION

YEAR: **1994**
TSD ID: **CAD981388952**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SHASTA**
WASTE CATEGORY: **ASBESTOS CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **0.0350**
DISPOSAL METHOD: **DISPOSAL, LANDFILL**

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Hazardous Waste Tanner Summary (HWTS)

MAP ID# 17 **Distance from Property: 0.014 mi. (74 ft.) W**

SITE INFORMATION

EPA ID: **CAC002573822**
NAME: **JACKSON PROPERTIES INC**
COUNTY: **NOT REPORTED**
ADDRESS: **9692 ELK GROVE FLORIN RD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **MICKEY TURPEN/PROJECT MGR**
PHONE: **(916) 381-8113**
ADDRESS: **5665 POWER INN RD STE 140**
SACRAMENTO CA 95824

MANIFEST SUMMARY INFORMATION

YEAR: **2004**
TSD ID: **CAD028409019**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **LOS ANGELES**
WASTE CATEGORY: **OTHER ORGANIC SOLIDS**
AMOUNT DISPOSED(TONS): **0.5000**
DISPOSAL METHOD: **TRANSFER STATION**

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MAP ID# 17 **Distance from Property: 0.014 mi. (74 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **3467549177**
NAME: **NAPA AUTO PARTS**
ADDRESS: **9670 ELK GROVE FLORIN RD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **INACTIVE**
WASTE GENERATOR: **NOT REPORTED**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

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Facility Registry System (FRSCA)

MAP ID# 18 **Distance from Property: 0.014 mi. (74 ft.) S**

FACILITY INFORMATION

REGISTRY ID: **110066508577**

NAME: **GOODYEAR AUTO SERVICE CENTER**

LOCATION ADDRESS: **8922 ELK GROVE BLVD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

EPA REGION: **9**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

GOODYEAR AUTO SERVICE CENTER

PROGRAM/S LISTED FOR THIS FACILITY

CA-ENVIROVIEW - CA-ENVIROVIEW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

7538 - GENERAL AUTOMOTIVE REPAIR SHOPS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

81111 - AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE

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Hazardous Waste Tanner Summary (HWTS)

MAP ID# 18 **Distance from Property: 0.014 mi. (74 ft.) S**

SITE INFORMATION

EPA ID: **CAL000266295**
NAME: **GOODYEAR AUTO SERVICE CENTER #9250**
COUNTY: **SACRAMENTO**
ADDRESS: **8922 ELK GROVE BLVD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **ANTHONY J DESANTO**
PHONE: **330-796-2490**
ADDRESS: **200 INNOVATION WAY**
AKRON OH 443161000

MANIFEST SUMMARY INFORMATION

YEAR: **2016**
TSD ID: **ARD069748192**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **NOT REPORTED**
WASTE CATEGORY: **OTHER INORGANIC SOLID WASTE**
AMOUNT DISPOSED(TONS): **0.0125**
DISPOSAL METHOD: **INCINERATION--THERMAL DESTRUCTION OTHER THAN USE AS A FUEL**

YEAR: **2016**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **NOT REPORTED**
WASTE CATEGORY: **BLANK OR UNKNOWN**
AMOUNT DISPOSED(TONS): **0.075**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2016**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **NOT REPORTED**
WASTE CATEGORY: **METAL DUST (SEE 121) AND MACHINING WASTE**
AMOUNT DISPOSED(TONS): **0.02**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2016**
TSD ID: **UTD981552177**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **NOT REPORTED**
WASTE CATEGORY: **OTHER ORGANIC SOLIDS**
AMOUNT DISPOSED(TONS): **0.175**
DISPOSAL METHOD: **INCINERATION--THERMAL DESTRUCTION OTHER THAN USE AS A FUEL**

YEAR: **2014**
TSD ID: **UTD981552177**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**

AMOUNT DISPOSED(TONS): **0.035**
DISPOSAL METHOD: **INCINERATION--THERMAL DESTRUCTION OTHER THAN USE AS A FUEL**

YEAR: **2013**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **OTHER ORGANIC SOLIDS**
AMOUNT DISPOSED(TONS): **0.1100**
DISPOSAL METHOD: **LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)**

YEAR: **2013**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **HYDROCARBON SOLVENTS (BENZENE, HEXANE, STODDARD, ETC.)**
AMOUNT DISPOSED(TONS): **0.0250**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2013**
TSD ID: **UTD981552177**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **HYDROCARBON SOLVENTS (BENZENE, HEXANE, STODDARD, ETC.)**
AMOUNT DISPOSED(TONS): **0.0250**
DISPOSAL METHOD: **INCINERATION--THERMAL DESTRUCTION OTHER THAN USE AS A FUEL**

YEAR: **2013**
TSD ID: **UTD991301748**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **OTHER ORGANIC SOLIDS**
AMOUNT DISPOSED(TONS): **0.1450**
DISPOSAL METHOD: **LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)**

YEAR: **2012**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **0.0325**
DISPOSAL METHOD: **OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT**

YEAR: **2012**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **OTHER ORGANIC SOLIDS**

AMOUNT DISPOSED(TONS): **0.2550**
DISPOSAL METHOD: **LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)**

YEAR: **2012**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **HYDROCARBON SOLVENTS (BENZENE, HEXANE, STODDARD, ETC.)**
AMOUNT DISPOSED(TONS): **0.0550**
DISPOSAL METHOD: **FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE**

YEAR: **2011**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **BLANK OR UNKNOWN**
AMOUNT DISPOSED(TONS): **0.0625**
DISPOSAL METHOD: **LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)**

YEAR: **2011**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **OTHER ORGANIC SOLIDS**
AMOUNT DISPOSED(TONS): **0.0825**
DISPOSAL METHOD: **LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)**

YEAR: **2011**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **HYDROCARBON SOLVENTS (BENZENE, HEXANE, STODDARD, ETC.)**
AMOUNT DISPOSED(TONS): **0.0150**
DISPOSAL METHOD: **FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE**

YEAR: **2011**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **BLANK OR UNKNOWN**
AMOUNT DISPOSED(TONS): **0.0325**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2010**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **BLANK OR UNKNOWN**

AMOUNT DISPOSED(TONS): **0.1600**
DISPOSAL METHOD: **DEEPWELL OR UNDERGROUND INJECTION(WITH OR WITHOUT TREATMENT)**

YEAR: **2010**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **BLANK OR UNKNOWN**
AMOUNT DISPOSED(TONS): **0.1600**
DISPOSAL METHOD: **DISCHARGE TO SEWER/POTW OR NPDES(WITH PRIOR STORAGE--WITH OR WITHOUT TREATMENT)**

YEAR: **2010**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **BLANK OR UNKNOWN**
AMOUNT DISPOSED(TONS): **0.1600**
DISPOSAL METHOD: **LAND TREATMENT OR APPLICATION(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)**

YEAR: **2010**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **BLANK OR UNKNOWN**
AMOUNT DISPOSED(TONS): **0.1600**
DISPOSAL METHOD: **LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)**

YEAR: **2009**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **BLANK OR UNKNOWN**
AMOUNT DISPOSED(TONS): **0.1600**
DISPOSAL METHOD: **DEEPWELL OR UNDERGROUND INJECTION(WITH OR WITHOUT TREATMENT)**

YEAR: **2009**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **BLANK OR UNKNOWN**
AMOUNT DISPOSED(TONS): **0.1600**
DISPOSAL METHOD: **DISCHARGE TO SEWER/POTW OR NPDES(WITH PRIOR STORAGE--WITH OR WITHOUT TREATMENT)**

YEAR: **2009**
TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **BLANK OR UNKNOWN**
AMOUNT DISPOSED(TONS): **0.1600**
DISPOSAL METHOD: **LAND TREATMENT OR APPLICATION(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)**

YEAR: **2009**

Hazardous Waste Tanner Summary (HWTS)

TSD ID: **NVT330010000**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **BLANK OR UNKNOWN**
AMOUNT DISPOSED(TONS): **0.1600**
DISPOSAL METHOD: **LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)**

Back to Report Summary

MAP ID# 18 **Distance from Property: 0.014 mi. (74 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **3116253011**
NAME: **GOODYEAR AUTO SERVICE CENTER**
ADDRESS: **8922 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **ACTIVE**
WASTE GENERATOR: **ACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

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Historical Cortese List (HISTCORTESE)

MAP ID# 19 **Distance from Property: 0.014 mi. (74 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **340948COR**

ID#: **340948**

NAME: **REGAL SS (FORMER)**

ADDRESS: **8900 ELK GROVE**
ELK GROVE, CA 95624

Back to Report Summary

MAP ID# 19 **Distance from Property: 0.014 mi. (74 ft.) S**

REGAL STATION 601, 8900 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **0002960F**

*** E04 ***

PAGE 3623 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
WICKLAND OIL CO.
1765 CHALLENGE WAY SACRAMENTO CA 95815

II FACILITY

	MAILING ADDRESS / TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR / TELEPHONE	TYPE OF BUSINESS / NO. OF CONTAINERS
REGAL STATION #601 8900 ELK GROVE BLVD. ELK GROVE CA 95624	1765 CHALLENGE WAY SACRAMENTO CA 95815	WALT SMELLING (916) 921-1100	GASOLINE STATION 4

CROSS STREET :
ELK GROVE-FLORIN RD.

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: STEVEN K. LEWIS (916) 921-1100 NIGHT: STEVEN K. LEWIS (916) 921-1100

********** OWNER ASSIGNED CONTAINER NUMBER: 601-U1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000012291001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: UN
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 8,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

*** E04 ***

*** F04 ***

PAGE 3624 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 601-R1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000012291002 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: UN
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 8,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12032 REGULAR MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 601-P1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000012291003 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: UN
C. YEAR INSTALLED : 1976
D. CAPACITY (GALLONS) : 4,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: PREMIUM

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12033 PREMIUM MOTOR VEHICLE FUEL

*** G04 ***

*** 604 ***

PAGE 3625 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 601-W1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000012291004 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: UN /
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) :
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : WASTE
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: WASTE OIL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: UNKNOWN
D. MATERIAL : UNKNOWN
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : UNKNOWN
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
NONE 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12035 WASTE OIL

*** HD4 ***

Back to Report Summary

MAP ID# 19 **Distance from Property: 0.014 mi. (74 ft.) S**

FACILITY INFORMATION

FACILITY #: **12291**
BOE: **44-018942**
NAME: **REGAL STATION #601**
ADDRESS: **8900 ELK GROVE BLVD**
ELK GROVE, CA 95624

STATUS: **INACTIVE**
JURISDICTION: **SACRAMENTO COUNTY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**

TANK INFORMATION

TANK #: **000001**
INSTALLED: **01-01-01**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **4000**
REMOVED: **06-22-90**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

TANK #: **000002**
INSTALLED: **01-01-01**
TANK USE: **M.V. FUEL**
CONTENT: **LEADED**
CAPACITY: **8000**
REMOVED: **06-22-90**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

TANK #: **000003**
INSTALLED: **01-01-01**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **8000**
REMOVED: **06-22-90**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

TANK #: **000004**
INSTALLED: **01-01-01**
TANK USE: **OIL**
CONTENT: **WASTE OIL**
CAPACITY: **500**
REMOVED: **06-22-90**
STORAGE TYPE: **WASTE**
CONTAINMENT: **BARE STEEL**

Back to Report Summary

Facility Registry System (FRSCA)

MAP ID# 20 **Distance from Property: 0.015 mi. (79 ft.) S**

FACILITY INFORMATION

REGISTRY ID: **110066548891**

NAME: **ULTRA TRUCK WORKSNA INC**

LOCATION ADDRESS: **9208 ELK GROVE BLVD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

EPA REGION: **9**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

ULTRA TRUCK WORKSNA INC

PROGRAM/S LISTED FOR THIS FACILITY

CA-ENVIROVIEW - CA-ENVIROVIEW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

5531 - AUTO AND HOME SUPPLY STORES

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

MAP ID# 20 **Distance from Property: 0.015 mi. (79 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **4164918008**
NAME: **ULTRA TRUCK WORKS, INC**
ADDRESS: **9208 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **ACTIVE**
WASTE GENERATOR: **NOT REPORTED**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

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Dry Cleaner Facilities (CLEANER)

MAP ID# 21 **Distance from Property: 0.015 mi. (79 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **CAL000177840**
PERMIT ID: **CAL000177840**
FACILITY NAME: **MOONLIGHT CLEANERS**
ADDRESS: **9754 ELK GROVE FLORIN RD**
ELK GROVE, CA 95624-0000
COUNTY: **SACRAMENTO**
STATUS: **ACTIVE**
URL LINK: CLICK HERE

FACILITY DETAILS

SIC CODE: **7211**
SIC DESCRIPTION: **POWER LAUNDRIES, FAMILY AND COMMERCIAL**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7212**
SIC DESCRIPTION: **GARMENT PRESSING, AND AGENTS FOR LAUNDRIES AND DRYCLEANERS**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7216**
SIC DESCRIPTION: **DRYCLEANING PLANTS, EXCEPT RUG CLEANING**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7219**
SIC DESCRIPTION: **LAUNDRY AND GARMENT SERVICES, NOT ELSEWHERE CLASSIFIED**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

Back to Report Summary

Dry Cleaner Facilities (CLEANER)

MAP ID# 21 **Distance from Property: 0.015 mi. (79 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **CAL000417960**
PERMIT ID: **CAL000417960**
FACILITY NAME: **MOONLIGHT CLEANERS**
ADDRESS: **9754 ELK GROVE FLORIN RD**
ELK GROVE, CA 95624-2236
COUNTY: **SACRAMENTO**
STATUS: **ACTIVE**
URL LINK: CLICK HERE

FACILITY DETAILS

SIC CODE: **7211**
SIC DESCRIPTION: **POWER LAUNDRIES, FAMILY AND COMMERCIAL**
NAICS CODE: **NOT REPORTED**
SIC DESCRIPTION: **NOT REPORTED**

SIC CODE: **7212**
SIC DESCRIPTION: **GARMENT PRESSING, AND AGENTS FOR LAUNDRIES AND DRYCLEANERS**
NAICS CODE: **NOT REPORTED**
SIC DESCRIPTION: **NOT REPORTED**

SIC CODE: **7216**
SIC DESCRIPTION: **DRYCLEANING PLANTS, EXCEPT RUG CLEANING**
NAICS CODE: **NOT REPORTED**
SIC DESCRIPTION: **NOT REPORTED**

SIC CODE: **7219**
SIC DESCRIPTION: **LAUNDRY AND GARMENT SERVICES, NOT ELSEWHERE CLASSIFIED**
NAICS CODE: **NOT REPORTED**
SIC DESCRIPTION: **NOT REPORTED**

Back to Report Summary

MAP ID# 21 **Distance from Property: 0.015 mi. (79 ft.) W**

FACILITY INFORMATION

REGISTRY ID: **110066594411**

NAME: **MOONLIGHT CLEANERS**

LOCATION ADDRESS: **9754 ELK GROVE FLORIN RD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

EPA REGION: **9**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

MOONLIGHT CLEANERS

PROGRAM/S LISTED FOR THIS FACILITY

CA-ENVIROVIEW - CA-ENVIROVIEW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

7216 - DRYCLEANING PLANTS, EXCEPT RUG CLEANING

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Hazardous Waste Tanner Summary (HWTS)

MAP ID# 21 **Distance from Property: 0.015 mi. (79 ft.) W**

SITE INFORMATION

EPA ID: **CAL000177840**
NAME: **MOONLIGHT CLEANERS**
COUNTY: **SACRAMENTO**
ADDRESS: **9754 ELK GROVE FLORIN RD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **TONY Y NG MANAGER**
PHONE: **916-686-8131**
ADDRESS: **9754 ELK GROVE FLORIN RD**
ELK GROVE CA 956240000

MANIFEST SUMMARY INFORMATION

YEAR: **2016**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **NOT REPORTED**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.15**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2015**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.219**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2014**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.369**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2013**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.0600**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2013**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**

DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.1190**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2013**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **AQUEOUS SOLUTION WITH TOTAL ORGANIC RESIDUES 10 PERCENT OR MORE**
AMOUNT DISPOSED(TONS): **0.2100**
DISPOSAL METHOD: **NOT REPORTED**

YEAR: **2013**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.1490**
DISPOSAL METHOD: **FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE**

YEAR: **2012**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.0400**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2012**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.1190**
DISPOSAL METHOD: **FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE**

YEAR: **2011**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.0450**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

YEAR: **2011**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**

WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.1750**
DISPOSAL METHOD: **FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE**

YEAR: **2010**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.5050**
DISPOSAL METHOD: **FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE**

YEAR: **2009**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.5050**
DISPOSAL METHOD: **FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE**

YEAR: **2008**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.6060**
DISPOSAL METHOD: **FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE**

YEAR: **2007**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.4500**
DISPOSAL METHOD: **FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE**

YEAR: **2005**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.2900**
DISPOSAL METHOD: **BLANK**

YEAR: **2005**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.3900**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **2004**

TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.3900**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **2004**
TSD ID: **CAD044003556**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **YOLO**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **0.1500**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **2003**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.3900**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **2002**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.0900**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **2001**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.2900**
DISPOSAL METHOD: **BLANK**

YEAR: **2001**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.1900**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **2001**
TSD ID: **TXD077603371**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**

AMOUNT DISPOSED(TONS): **0.1900**
DISPOSAL METHOD: **BLANK**

YEAR: **2000**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.1900**
DISPOSAL METHOD: **BLANK**

YEAR: **2000**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.2900**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **1999**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **1.1056**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **1998**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.2925**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **1997**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.1950**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **1996**
TSD ID: **AZD982465866**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **POLYCHLORINATED BIPHENYLS AND MATERIAL CONTAINING PCBS**
AMOUNT DISPOSED(TONS): **8.8160**
DISPOSAL METHOD: **RECYCLER**

YEAR: **1996**
TSD ID: **CA0000084517**

Hazardous Waste Tanner Summary (HWTS)

GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **LIQUIDS WITH HALOGENATED ORGANIC COMPOUNDS >= 1,000 MG./L**
AMOUNT DISPOSED(TONS): **0.1950**
DISPOSAL METHOD: **TRANSFER STATION**

Back to Report Summary

MAP ID# 21 **Distance from Property: 0.015 mi. (79 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **928281135**
NAME: **MOONLIGHT CLEANERS**
ADDRESS: **9754 ELK GROVE FLORIN RD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **ACTIVE**
WASTE GENERATOR: **ACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

Back to Report Summary

Listing of Certified Dropoff, Collection, and Community Service Programs (DROP)

MAP ID# 22 **Distance from Property: 0.015 mi. (79 ft.) S**

SITE INFORMATION

ID #: **DP0370**
NAME: **ELK GROVE UNITED METHODIST CHURCH**
ADDRESS: **8986 ELK GROVE BLVD**
CITY: **ELK GROVE**
STATE: **CA**
ZIP: **95624**
COUNTY: **SACRAMENTO**

SITE DETAILS

OPERATION BEGIN DATE: **04/20/90**
OPERATION END DATE: **09/30/93**
PROGRAM PHONE: **(916) 685-6496**
ORGANIZATION NAME: **NOT REPORTED**
ADDRESS: **STREET NOT REPORTED**
CITY NOT REPORTED
GLASS: **ACCEPTED**
ALUMINIUM: **ACCEPTED**
PLASTIC: **NOT ACCEPTED**
BIMETAL: **NOT ACCEPTED**

Back to Report Summary

MAP ID# 23 **Distance from Property: 0.016 mi. (84 ft.) S**

FACILITY INFORMATION

GLOBAL ID: **T0606700546**
URL LINK: CLICK HERE
BUSINESS NAME: **HORNING PROPERTY**
ADDRESS: **9020 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340641**
STATUS: **COMPLETED - CASE CLOSED 08/03/2007**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
UNDER INVESTIGATION
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	01/01/50	LEAK DISCOVERY
OTHER	01/01/50	LEAK REPORTED
OTHER	01/01/50	LEAK STOPPED
REMEDIATION	01/01/50	EXCAVATION
ENFORCEMENT	08/03/2007	CLOSURE/NO FURTHER ACTION LETTER
ENFORCEMENT	03/22/2007	FILE REVIEW
ENFORCEMENT	11/22/2005	CLOSURE/NO FURTHER ACTION LETTER
REMEDIATION	06/20/2005	EXCAVATION
ENFORCEMENT	05/05/2005	NOTICE OF RESPONSIBILITY
OTHER	08/13/1992	LEAK STOPPED
REMEDIATION	08/13/1992	EXCAVATION
OTHER	07/01/1992	LEAK REPORTED
OTHER	01/15/1992	LEAK DISCOVERY

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	08/03/2007
OPEN - REOPEN CASE	03/22/2007
COMPLETED - CASE CLOSED	11/22/2005
OPEN - REMEDIATION	08/13/1992
OPEN - SITE ASSESSMENT	08/13/1992
OPEN - CASE BEGIN DATE	01/15/1992
OPEN - SITE ASSESSMENT	01/15/1992

CONTACT DETAILS

ORGANIZATION: **SACRAMENTO COUNTY LOP**

ADDRESS: **10590 ARMSTRONG AVENUE, SUITE A**
CITY: **MATHER**
CONTACT NAME: **CHARLEY LANGER**
CONTACT TYPE: **LOCAL AGENCY CASEWORKER**
CONTACT PHONE: **9168758474**
EMAIL: **LANGERC@SACCOUNTY.NET**
ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

Back to Report Summary

MAP ID# 23 **Distance from Property: 0.016 mi. (84 ft.) S**

FACILITY INFORMATION

REGISTRY ID: **110066073242**

NAME: **HORNING PROPERTY**

LOCATION ADDRESS: **9020 ELK GROVE BLVD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

EPA REGION: **9**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

HORNING PROPERTY

PROGRAM/S LISTED FOR THIS FACILITY

CA-ENVIROVIEW - CA-ENVIROVIEW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Historical Cortese List (HISTCORTESE)

MAP ID# 23 **Distance from Property: 0.016 mi. (84 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **340641COR**

ID#: **340641**

NAME: **HORNING PROPERTY**

ADDRESS: **9020 ELK GROVE**
ELK GROVE, CA 95624

Back to Report Summary

Hazardous Waste Tanner Summary (HWTS)

MAP ID# 23 **Distance from Property: 0.016 mi. (84 ft.) S**

SITE INFORMATION

EPA ID: **CAC002591899**
NAME: **KEN & LAURIE PODESTA-DANIELS**
COUNTY: **NOT REPORTED**
ADDRESS: **9020 ELK GROVE BLVD**
ELK GROVE, CA 95624-1945
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **KEN/LAURIE**
PHONE: **(916) 685-2277**
ADDRESS: **9442 MAZATLAN WAY**
ELK GROVE CA 95624

MANIFEST SUMMARY INFORMATION

YEAR: **2005**
TSD ID: **CAL000190816**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **STANISLAUS**
WASTE CATEGORY: **WASTE OIL AND MIXED OIL**
AMOUNT DISPOSED(TONS): **5.2100**
DISPOSAL METHOD: **BLANK**

Back to Report Summary

MAP ID# 23 **Distance from Property: 0.016 mi. (84 ft.) S**

FACILITY INFORMATION

GLOBAL ID: **T0606700546**
URL LINK: CLICK HERE
BUSINESS NAME: **HORNING PROPERTY**
ADDRESS: **9020 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340641**
STATUS: **08/03/2007**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
UNDER INVESTIGATION
SITE HISTORY:
NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 23 **Distance from Property: 0.016 mi. (84 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **3846395982**
NAME: **THE CAR DOC**
ADDRESS: **9020 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **INACTIVE**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

Back to Report Summary

MAP ID# 23 **Distance from Property: 0.016 mi. (84 ft.) S**

SITE INFORMATION

ID#: **RO0001587**

REGIONAL WATER QUALITY BOARD ID: **C304**

NAME: **PODESTA-DANIELS**

ADDRESS: **9020 ELK GROVE BLVD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **NOT REPORTED**

CASE TYPE: **UNDETERMINED**

SUBSTANCE: **NOT REPORTED**

REMEDIAL ACTION TAKEN: **NO**

CLOSED CASE: **YES**

CLOSED DATE: **03/26/2007**

LEAD AGENCY: **US/COUNTY OF SACRAMENTO**

LEAD STAFF: **LANGER, C.**

Back to Report Summary

MAP ID# 23 **Distance from Property: 0.016 mi. (84 ft.) S**

FACILITY INFORMATION

FACILITY #: **92109**
BOE: **NOT REPORTED**
NAME: **TED & SUSAN HORNING**
ADDRESS: **9020 ELK GROVE BLVD**
ELK GROVE, CA 95624

STATUS: **INACTIVE**
JURISDICTION: **SACRAMENTO COUNTY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**

TANK INFORMATION

TANK #: **000001**
INSTALLED: **01-01-01**
TANK USE: **OIL**
CONTENT: **WASTE OIL**
CAPACITY: **500**
REMOVED: **01-01-79**
STORAGE TYPE: **WASTE**
CONTAINMENT: **BARE STEEL**

TANK #: **000002**
INSTALLED: **01-01-01**
TANK USE: **OIL**
CONTENT: **WASTE OIL**
CAPACITY: **500**
REMOVED: **01-01-79**
STORAGE TYPE: **WASTE**
CONTAINMENT: **BARE STEEL**

TANK #: **000003**
INSTALLED: **01-01-01**
TANK USE: **UNKNOWN**
CONTENT: **NOT REPORTED**
CAPACITY: **1**
REMOVED: **01-01-79**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

Back to Report Summary

Hazardous Waste Tanner Summary (HWTS)

MAP ID# 24 **Distance from Property: 0.016 mi. (84 ft.) S**

SITE INFORMATION

EPA ID: **CAD982346413**
NAME: **CAMBELLS AUTO PARTS**
COUNTY: **NOT REPORTED**
ADDRESS: **9036 ELK GROVE BLVD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**
ADDRESS: **NOT REPORTED**
NOT REPORTED NOT REPORTED

MANIFEST SUMMARY INFORMATION

YEAR: **1999**
TSD ID: **CAD099452708**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **LOS ANGELES**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **1.0425**
DISPOSAL METHOD: **RECYCLER**

YEAR: **1998**
TSD ID: **CAD099452708**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **LOS ANGELES**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **0.4170**
DISPOSAL METHOD: **RECYCLER**

Back to Report Summary

MAP ID# 24 **Distance from Property: 0.016 mi. (84 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **1659304623**
NAME: **CAMPBELL'S AUTO PARTS**
ADDRESS: **9036 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **NOT REPORTED**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

Back to Report Summary

MAP ID# 24 **Distance from Property: 0.016 mi. (84 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **4133466715**
NAME: **CAMPBELL'SAUTO PARTS**
ADDRESS: **9036 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **NOT REPORTED**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

Back to Report Summary

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606700774**
URL LINK: CLICK HERE
BUSINESS NAME: **HARCROW PROPERTY**
ADDRESS: **9251 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340935**
STATUS: **COMPLETED - CASE CLOSED 11/28/1994**
POTENTIAL CONTAMINATION:
DIESEL
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	**01/01/50**	**LEAK DISCOVERY**
OTHER	**01/01/50**	**LEAK REPORTED**
OTHER	**05/24/1994**	**LEAK REPORTED**
OTHER	**05/03/1994**	**LEAK DISCOVERY**

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**11/28/1994**
OPEN - CASE BEGIN DATE	**05/03/1994**

CONTACT DETAILS

ORGANIZATION: **SACRAMENTO COUNTY LOP**
ADDRESS: **8475 JACKSON ROAD, SUITE 240**
CITY: **SACRAMENTO**
CONTACT NAME: **DANA BOOTH**
CONTACT TYPE: **LOCAL AGENCY CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **BOOTHD@SACCOUNTY.NET**
ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

Back to Report Summary

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

FACILITY INFORMATION

REGISTRY ID: **110065774683**

NAME: **AUTO SOLUTIONS BY SINGLE**

LOCATION ADDRESS: **9253 ELK GROVE BLVD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

EPA REGION: **9**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

AUTO SOLUTIONS BY SINGLE

PROGRAM/S LISTED FOR THIS FACILITY

CA-ENVIROVIEW - CA-ENVIROVIEW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Facility Registry System (FRSCA)

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

FACILITY INFORMATION

REGISTRY ID: **110066296671**

NAME: **HARCROW PROPERTY**

LOCATION ADDRESS: **9251 ELK GROVE BLVD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

EPA REGION: **9**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

HARCROW PROPERTY

PROGRAM/S LISTED FOR THIS FACILITY

CA-ENVIROVIEW - CA-ENVIROVIEW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Historical Cortese List (HISTCORTESE)

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **340935COR**

ID#: **340935**

NAME: **HARCROW PROPERTY**

ADDRESS: **9251 ELK GROVE**
ELK GROVE, CA 95624

Back to Report Summary

Hazardous Waste Tanner Summary (HWTS)

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

SITE INFORMATION

EPA ID: **CAL000170522**
NAME: **UNITED RENTALS**
COUNTY: **NOT REPORTED**
ADDRESS: **9251 ELK GROVE BLVD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **US RENTALS**
PHONE: **(916) 685-7368**
ADDRESS: **NOT REPORTED**
NOT REPORTED NOT REPORTED

MANIFEST SUMMARY INFORMATION

YEAR: **2002**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **0.2500**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **2002**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.1600**
DISPOSAL METHOD: **DISPOSAL, OTHER**

YEAR: **2001**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **UNSPECIFIED ORGANIC LIQUID MIXTURE**
AMOUNT DISPOSED(TONS): **0.2200**
DISPOSAL METHOD: **DISPOSAL, OTHER**

YEAR: **1999**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **LIQUIDS WITH PH <= 2**
AMOUNT DISPOSED(TONS): **0.0667**
DISPOSAL METHOD: **DISPOSAL, OTHER**

Back to Report Summary

Hazardous Waste Tanner Summary (HWTS)

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

SITE INFORMATION

EPA ID: **CAL000209667**
NAME: **UNITED RENTALS INC #655**
COUNTY: **NOT REPORTED**
ADDRESS: **9251 ELK GROVE BLVD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **DAN SWEENEY-ENVIRO SPEC**
PHONE: **(303) 674-1320**
ADDRESS: **NOT REPORTED**
NOT REPORTED NOT REPORTED

MANIFEST SUMMARY INFORMATION

YEAR: **2004**
TSD ID: **NVD980895338**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **0.1000**
DISPOSAL METHOD: **DISPOSAL, LANDFILL**

YEAR: **2003**
TSD ID: **NVD980895338**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **UNKNOWN**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **0.3300**
DISPOSAL METHOD: **DISPOSAL, LANDFILL**

YEAR: **2002**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **0.0700**
DISPOSAL METHOD: **DISPOSAL, OTHER**

YEAR: **2002**
TSD ID: **CAD059494310**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **UNSPECIFIED OIL-CONTAINING WASTE**
AMOUNT DISPOSED(TONS): **0.5000**
DISPOSAL METHOD: **TRANSFER STATION**

Back to Report Summary

Hazardous Waste Tanner Summary (HWTS)

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

SITE INFORMATION

EPA ID: **CAL000272839**
NAME: **AUTOMOTIVE SOLUTION BY SINGLE INC**
COUNTY: **SACRAMENTO**
ADDRESS: **9253 ELK GROVE BLVD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **MIKE SINGLE**
PHONE: **(916) 502-1058**
ADDRESS: **9253 ELK GROVE BLVD**
ELK GROVE CA 95624

MANIFEST SUMMARY INFORMATION

YEAR: **2011**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **AQUEOUS SOLUTION WITH TOTAL ORGANIC RESIDUES LESS THAN 10 PERCENT**
AMOUNT DISPOSED(TONS): **0.0882**
DISPOSAL METHOD: **STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)**

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606700774**
URL LINK: CLICK HERE
BUSINESS NAME: **HARCROW PROPERTY**
ADDRESS: **9251 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340935**
STATUS: **11/28/1994**
POTENTIAL CONTAMINATION:
DIESEL
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **2979064436**
NAME: **AUTO SOLUTIONS BY SINGLE**
ADDRESS: **9253 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **ACTIVE**
WASTE GENERATOR: **ACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

Back to Report Summary

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **3377540196**
NAME: **ANY-EVENT PARTY RENTALS**
ADDRESS: **9251 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **INACTIVE**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

Back to Report Summary

MAP ID# 25 **Distance from Property: 0.017 mi. (90 ft.) N**

SITE INFORMATION

ID#: **RO0000377**

REGIONAL WATER QUALITY BOARD ID: **A322**

NAME: **ELK GROVE EQUIPMENT**

ADDRESS: **9251 ELK GROVE BLVD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **05/19/1994**

CASE TYPE: **SOIL ONLY AFFECTED**

SUBSTANCE: **DIESEL FUEL OIL AND ADDITIVES, NOS.1-D, 2-D, 2-4**

REMEDIAL ACTION TAKEN: **YES**

CLOSED CASE: **YES**

CLOSED DATE: **12/02/1994**

LEAD AGENCY: **US/COUNTY OF SACRAMENTO**

LEAD STAFF: **BOOTH, D.**

Back to Report Summary

Hazardous Waste Tanner Summary (HWTS)

MAP ID# 26 **Distance from Property: 0.019 mi. (100 ft.) W**

SITE INFORMATION

EPA ID: **CAL000092366**
NAME: **DR ERIC J KNUTSON DDS**
COUNTY: **NOT REPORTED**
ADDRESS: **9628 ELK GROVE-FLORIN RD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **DR ERIC KNUTSON**
PHONE: **NOT REPORTED**
ADDRESS: **NOT REPORTED**
NOT REPORTED NOT REPORTED

MANIFEST SUMMARY INFORMATION

YEAR: **1997**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.0208**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **1996**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.0208**
DISPOSAL METHOD: **RECYCLER**

YEAR: **1995**
TSD ID: **CAL000121946**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **MARIN**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.0208**
DISPOSAL METHOD: **RECYCLER**

YEAR: **1994**
TSD ID: **CAD003963592**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SANTA CLARA**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.0208**
DISPOSAL METHOD: **TREATMENT, INCINERATION**

YEAR: **1993**
TSD ID: **CAD070148432**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **ALAMEDA**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.0208**
DISPOSAL METHOD: **BLANK**

Back to Report Summary

Hazardous Waste Tanner Summary (HWTS)

MAP ID# 26 **Distance from Property: 0.017 mi. (90 ft.) W**

SITE INFORMATION

EPA ID: **CAL000139380**
NAME: **KENTON KIASER DDS**
COUNTY: **NOT REPORTED**
ADDRESS: **9620 ELK GROVE-FLORIN RD**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **KENTON KIASER DDS**
PHONE: **NOT REPORTED**
ADDRESS: **NOT REPORTED**
NOT REPORTED NOT REPORTED

MANIFEST SUMMARY INFORMATION

YEAR: **1998**
TSD ID: **CAT080025711**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SAN BERNARDINO**
WASTE CATEGORY: **WASTE OIL AND MIXED OIL**
AMOUNT DISPOSED(TONS): **2.0850**
DISPOSAL METHOD: **RECYCLER**

Back to Report Summary

MAP ID# 26 **Distance from Property: 0.017 mi. (90 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **1503711805**
NAME: **KENTON E KIASER DDS**
ADDRESS: **9620 ELK GROVE-FLORIN RD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **NOT REPORTED**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

Back to Report Summary

MAP ID# 27 **Distance from Property: 0.018 mi. (95 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606700579**
URL LINK: CLICK HERE
BUSINESS NAME: **ARCO #5696**
ADDRESS: **9215 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340678**
STATUS: **COMPLETED - CASE CLOSED 04/25/1996**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	**01/01/50**	**LEAK REPORTED**
ENFORCEMENT	**01/04/2006**	**TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER**
ENFORCEMENT	**02/17/1993**	*** HISTORICAL ENFORCEMENT**
ENFORCEMENT	**02/17/1993**	*** NO ACTION**
OTHER	**12/03/1992**	**LEAK REPORTED**

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**04/25/1996**
OPEN - REMEDIATION	**01/27/1993**
OPEN - CASE BEGIN DATE	**11/13/1992**
OPEN - SITE ASSESSMENT	**11/13/1992**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

Back to Report Summary

MAP ID# 27 **Distance from Property: 0.018 mi. (95 ft.) N**

FACILITY INFORMATION

REGISTRY ID: **110066471115**

NAME: **ARCO #5696**

LOCATION ADDRESS: **9215 ELK GROVE BLVD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

EPA REGION: **9**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

ARCO #5696

PROGRAM/S LISTED FOR THIS FACILITY

CA-ENVIROVIEW - CA-ENVIROVIEW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Historical Cortese List (HISTCORTESE)

MAP ID# 27 **Distance from Property: 0.018 mi. (95 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **340678COR**

ID#: **340678**

NAME: **ARCO #5696**

ADDRESS: **9215 ELK GROVE**
ELK GROVE, CA

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 27 **Distance from Property: 0.018 mi. (95 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606700579**
URL LINK: CLICK HERE
BUSINESS NAME: **ARCO #5696**
ADDRESS: **9215 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340678**
STATUS: **04/25/1996**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 27 **Distance from Property: 0.018 mi. (95 ft.) N**

FACILITY INFORMATION

FACILITY #: **20839**
BOE: **44-000506**
NAME: **ARCO FACILITY #5695**
ADDRESS: **9215 ELK GROVE RD**
ELK GROVE, CA 95624

STATUS: **ACTIVE**
JURISDICTION: **SACRAMENTO COUNTY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**

TANK INFORMATION

TANK #: **000001**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000002**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000003**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000004**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **PRM UNLEADED**
CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

Back to Report Summary

MAP ID# 28 **Distance from Property: 0.019 mi. (100 ft.) S**

ELK GROVE WATER WORKS-MAINT D, 9086 (REAR) ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **0001FD76**

*** F06 ***

PAGE 1233 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
ELK GROVE WATER WORKS, INC.
9655 ELK GROVE-FLORIN ROAD, SU ELK GROVE CA 95624

II FACILITY

	MAILING ADDRESS	DEALER/FOREMAN/SUPERVISOR	TYPE OF BUSINESS
ELK GROVE WATER WORKS-MAINT. D	TOWNSHIP/RANGE/SECTION	TELEPHONE	NO. OF CONTAINERS
9086 (REAR) ELK GROVE BLVD.			
ELK GROVE CA 95624	9655 ELK GROVE-FLORIN ROAD, SU	J.B. JONES	WATER UTILITY
	ELK GROVE CA 95624		
CROSS STREET :		(916) 685-3556	1
RAILROAD AVENUE			

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: JONES, J.B. (916) 685-3556 NIGHT: JONES, J.B. (916) 685-3538

********** OWNER ASSIGNED CONTAINER NUMBER: #1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000033216001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: PERKINS WELDING /1979
C. YEAR INSTALLED : 1979
D. CAPACITY (GALLONS) : 550
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

I% CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 12 GAUGE B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : ASPHALT OTHER
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

*** G06 ***

Back to Report Summary

MAP ID# 28 **Distance from Property: 0.019 mi. (100 ft.) S**

FACILITY INFORMATION

FACILITY #: **33216**
STATUS: **ACTIVE**
BOE: **44-019207**
JURISDICTION: **SACRAMENTO COUNTY**
NAME: **ELK GROVE WATER WORKS-MAINT. D**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**
ADDRESS: **9086 REAR ELK GROVE BLVD**
ELK GROVE, CA 95624

TANK INFORMATION

TANK #: **000001**
CAPACITY: **550**
INSTALLED: **NOT REPORTED**
REMOVED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
STORAGE TYPE: **PRODUCT**
CONTENT: **REG UNLEADED**
CONTAINMENT: **NOT REPORTED**

Back to Report Summary

Hazardous Waste Tanner Summary (HWTS)

MAP ID# 29 **Distance from Property: 0.019 mi. (100 ft.) E**

SITE INFORMATION

EPA ID: **CAL920884886**
NAME: **COURTYARD CHIROPRACTIC**
COUNTY: **NOT REPORTED**
ADDRESS: **8920 EMERALD PARK DR.**
ELK GROVE, CA 95624
FACILITY LINK: *Department of Toxic Substances Control*

CONTACT INFORMATION

CONTACT: **THOMAS D KAMINSKY DC**
PHONE: **(916) 685-9090**
ADDRESS: **NOT REPORTED**
NOT REPORTED NOT REPORTED

MANIFEST SUMMARY INFORMATION

YEAR: **1997**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.1250**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **1996**
TSD ID: **CA0000084517**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **SACRAMENTO**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.0625**
DISPOSAL METHOD: **TRANSFER STATION**

YEAR: **1996**
TSD ID: **CAL000121946**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **MARIN**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.0208**
DISPOSAL METHOD: **RECYCLER**

YEAR: **1995**
TSD ID: **CAD070148432**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **ALAMEDA**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.0625**
DISPOSAL METHOD: **TREATMENT, INCINERATION**

YEAR: **1995**
TSD ID: **CAL000121946**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **MARIN**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.0625**
DISPOSAL METHOD: **RECYCLER**

Hazardous Waste Tanner Summary (HWTS)

YEAR: **1994**
TSD ID: **CAD070148432**
GENERATOR COUNTY: **SACRAMENTO**
DISPOSAL COUNTY: **ALAMEDA**
WASTE CATEGORY: **PHOTOCHEMICALS/PHOTOPROCESSING WASTE**
AMOUNT DISPOSED(TONS): **0.1250**
DISPOSAL METHOD: **TREATMENT, INCINERATION**

Back to Report Summary

MAP ID# 29 **Distance from Property: 0.019 mi. (100 ft.) E**

FACILITY INFORMATION

GEOSEARCH ID: **3140378274**
NAME: **COURTYARD CHIROPRACTIC**
ADDRESS: **8920 EMERALD PARK DR, #C**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **NOT REPORTED**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

Back to Report Summary

MAP ID# 30 **Distance from Property: 0.02 mi. (106 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **2243204227**
NAME: **COMPLETE AUTO REPAIR**
ADDRESS: **10200 WATERMAN RD, #K**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

BUSINESS PLAN: **NOT REPORTED**
WASTE GENERATOR: **INACTIVE**
UNDERGROUND STORAGE TANK: **NOT REPORTED**
ABOVEGROUND STORAGE TANK: **NOT REPORTED**
TIERED PERMITTING: **NOT REPORTED**
ACCIDENTAL RELEASE PLAN: **NOT REPORTED**
TOTAL TANKS: **NOT REPORTED**

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR09)

MAP ID# 31 **Distance from Property: 0.021 mi. (111 ft.) E**

FACILITY INFORMATION

EPA ID#: **CAD067810564**
NAME: **INDEPENDENT DISPOSAL SERVICE**
ADDRESS: **9655 ELK GROVE FLORIN RD #5**
ELK GROVE, CA 95624
CONTACT NAME: **ENVIRONMENTAL MANAGER**
CONTACT ADDRESS: **9655 ELK GROVE FLORIN #5**
ELK GROVE CA 95624
CONTACT PHONE: **916-685-4061**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **10/08/1980**

OWNER TYPE: **PRIVATE**
OWNER NAME: **EUGENE J PINASCO**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NOT REQUIRED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **06/27/2002**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **YES**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS
01/24/1984 **CEI COMPLIANCE EVALUATION INSPECTION ON-SITE**

VIOLATIONS
01/24/1984 **262.A GENERATORS - GENERAL**

ENFORCEMENTS

01/24/1984 **120 WRITTEN INFORMAL**

HAZARDOUS WASTE

- NO HAZARDOUS WASTE INFORMATION REPORTED -

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

Resource Conservation & Recovery Act - Non-Generator (RCRANGR09)

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

Aboveground Storage Tanks Prior to January 2008 (AST2007)

MAP ID# 32 **Distance from Property: 0.023 mi. (121 ft.) W**

SITE INFORMATION

GEOSEARCH ID#: **786747095**

NAME: **EAST ELK GROVE WTP (WT-2)**

ADDRESS: **9660 WATERMAN ROAD**
ELK GROVE, CA 95624

TOTAL GALLONS: **3000**

OWNER INFORMATION

OWNER NAME: **SACRAMENTO COUNTY**

Back to Report Summary

GeoTracker Cleanup Sites (CLEANUPSITES)

MAP ID# 33 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606700897**
URL LINK: CLICK HERE
BUSINESS NAME: **CIRCLE-K (FORMER)**
ADDRESS: **8949 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341071**
STATUS: **COMPLETED - CASE CLOSED 06/03/1997**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	**01/01/50**	**LEAK DISCOVERY**
OTHER	**01/01/50**	**LEAK REPORTED**
OTHER	**02/28/1996**	**LEAK REPORTED**
OTHER	**01/23/1996**	**LEAK DISCOVERY**

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**06/03/1997**
OPEN - CASE BEGIN DATE	**01/23/1996**
OPEN - SITE ASSESSMENT	**01/23/1996**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

Back to Report Summary

Historical Cortese List (HISTCORTESE)

MAP ID# 33 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **341071COR**

ID#: **341071**

NAME: **CIRCLE-K (FORMER)**

ADDRESS: **8949 ELK GROVE**
ELK GROVE, CA 95624

Back to Report Summary

Historical Underground Storage Tanks (HISTUST)

MAP ID# 33 **Distance from Property: 0.027 mi. (143 ft.) N**

CIRCLE K 1325, 8949 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **0001FC94**

*** L13 ***

PAGE 808 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
CIRCLE K CORPORATION
4500 SOUTH 40TH STREET PHOENIX AZ 85040

II FACILITY

	MAILING ADDRESS / TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR / TELEPHONE	TYPE OF BUSINESS / NO. OF CONTAINERS
CIRCLE K #1325 8949 ELK GROVE BLVD ELK GROVE CA 95624	8949 ELK GROVE BLVD ELK GROVE AZ 95624	JIM CHADWICK (916) 685-4755	GASOLINE STATION 3

CROSS STREET :

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: JIM CHADWICK (916) 331-2540 NIGHT: ( ) -

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000013826001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 8,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12032 REGULAR MOTOR VEHICLE FUEL

*** M13 ***

CIRCLE K 1325, 8949 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **0001FC94**

*** M13 ***

PAGE 807 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 2 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000013826002 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 8,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 3 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000013826003 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 8,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : ES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: PREMIUM

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12033 PREMIUM MOTOR VEHICLE FUEL

*** N13 ***

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 33 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606700897**
URL LINK: CLICK HERE
BUSINESS NAME: **CIRCLE-K (FORMER)**
ADDRESS: **8949 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341071**
STATUS: **06/03/1997**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR09)

MAP ID# 33 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

EPA ID#: **CAD981680788**
NAME: **CIRCLE K STORE #1325**
ADDRESS: **8949 ELK GROVE BLVD**
ELK GROVE, CA 95624
CONTACT NAME: **ENVIRONMENTAL MANAGER**
CONTACT ADDRESS: **5811 MANZANITA AVE**
CRMICHAEL CA 95608
CONTACT PHONE: **916-334-2445**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **06/10/1993**

OWNER TYPE: **PRIVATE**
OWNER NAME: **CIRCLE K CORP**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NOT REQUIRED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **06/27/2002**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

- NO HAZARDOUS WASTE INFORMATION REPORTED -
UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**
CORRECTIVE ACTION EVENT
NO CORRECTIVE ACTION EVENT(S) REPORTED

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MAP ID# 33 **Distance from Property: 0.027 mi. (143 ft.) N**

SITE INFORMATION

ID#: **RO0000374**
REGIONAL WATER QUALITY BOARD ID: **B264**
NAME: **FORMER CIRCLE K**
ADDRESS: **8949 ELK GROVE BLVD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **01/25/1996**
CASE TYPE: **SOIL ONLY AFFECTED**
SUBSTANCE: **GASOLINE-AUTOMOTIVE (MOTOR GASOLINE AND ADDITIVES), LEADED & UNLEADED**
REMEDIAL ACTION TAKEN: **YES**
CLOSED CASE: **YES**
CLOSED DATE: **05/16/1997**
LEAD AGENCY: **US/COUNTY OF SACRAMENTO**
LEAD STAFF: **MOE, D.**

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MAP ID# 33 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

FACILITY #: **13826**
BOE: **44-018983**
NAME: **CIRCLE K #1325**
ADDRESS: **8949 ELK GROVE BLVD**
ELK GROVE, CA 95624

STATUS: **ACTIVE**
JURISDICTION: **SACRAMENTO COUNTY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**

TANK INFORMATION

TANK #: **000001**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **LEADED**
CAPACITY: **8000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000002**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **8000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000003**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **8000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

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MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606701041**
URL LINK: CLICK HERE
BUSINESS NAME: **SHELL SS**
ADDRESS: **8901 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341216**
STATUS: **COMPLETED - CASE CLOSED 01/08/2007**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	01/01/50	LEAK DISCOVERY
OTHER	01/01/50	LEAK REPORTED
ENFORCEMENT	01/08/2007	CLOSURE/NO FURTHER ACTION LETTER
ENFORCEMENT	01/08/2007	STAFF LETTER
ENFORCEMENT	12/15/2006	FILE REVIEW
ENFORCEMENT	08/31/2006	TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER
ENFORCEMENT	06/19/2006	FILE REVIEW
ENFORCEMENT	04/21/2006	NOTIFICATION - PRECLOSURE
RESPONSE	04/21/2006	OTHER REPORT / DOCUMENT
ENFORCEMENT	04/13/2006	STAFF LETTER
ENFORCEMENT	04/13/2006	TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER
ENFORCEMENT	02/22/2006	MEETING
ENFORCEMENT	11/21/2005	STAFF LETTER
ENFORCEMENT	11/21/2005	TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER
ENFORCEMENT	08/30/2005	FILE REVIEW
RESPONSE	03/03/2005	MONITORING REPORT - QUARTERLY
ENFORCEMENT	03/01/2005	FILE REVIEW
RESPONSE	11/19/2004	MONITORING REPORT - QUARTERLY
RESPONSE	09/07/2004	MONITORING REPORT - QUARTERLY
ENFORCEMENT	06/10/2004	FILE REVIEW
ENFORCEMENT	06/08/2004	STAFF LETTER
RESPONSE	06/04/2004	OTHER REPORT / DOCUMENT
ENFORCEMENT	05/27/2004	FILE REVIEW
ENFORCEMENT	05/17/2004	FILE REVIEW

TYPE OF ACTION:	DATE:	ACTION:
RESPONSE	05/10/2004	MONITORING REPORT - QUARTERLY
ENFORCEMENT	04/09/2004	STAFF LETTER
ENFORCEMENT	03/18/2004	MEETING
ENFORCEMENT	03/08/2004	FILE REVIEW
RESPONSE	03/02/2004	MONITORING REPORT - QUARTERLY
RESPONSE	11/21/2003	MONITORING REPORT - QUARTERLY
RESPONSE	09/04/2003	MONITORING REPORT - QUARTERLY
RESPONSE	06/10/2003	MONITORING REPORT - QUARTERLY
ENFORCEMENT	04/30/2003	STAFF LETTER
ENFORCEMENT	03/20/2003	STAFF LETTER
RESPONSE	02/12/2003	MONITORING REPORT - QUARTERLY
RESPONSE	02/12/2003	OTHER WORKPLAN
RESPONSE	02/12/2003	SENSITIVE RECEPTOR SURVEY REPORT
ENFORCEMENT	12/16/2002	STAFF LETTER
RESPONSE	11/19/2002	MONITORING REPORT - QUARTERLY
RESPONSE	11/06/2002	OTHER REPORT / DOCUMENT
RESPONSE	05/15/2002	MONITORING REPORT - QUARTERLY
ENFORCEMENT	03/21/2002	STAFF LETTER
RESPONSE	03/07/2002	MONITORING REPORT - QUARTERLY
RESPONSE	11/08/2001	MONITORING REPORT - QUARTERLY
ENFORCEMENT	11/01/2001	STAFF LETTER
RESPONSE	10/24/2001	OTHER WORKPLAN
ENFORCEMENT	08/31/2001	STAFF LETTER
RESPONSE	05/10/2001	CORRESPONDENCE
RESPONSE	01/31/2001	CORRESPONDENCE
ENFORCEMENT	12/15/2000	STAFF LETTER
RESPONSE	10/31/2000	OTHER REPORT / DOCUMENT
RESPONSE	09/01/2000	OTHER WORKPLAN
ENFORCEMENT	05/25/2000	STAFF LETTER
RESPONSE	05/12/2000	CORRESPONDENCE
RESPONSE	05/05/2000	OTHER REPORT / DOCUMENT
RESPONSE	02/08/2000	CORRESPONDENCE
ENFORCEMENT	12/10/1999	NOTICE OF RESPONSIBILITY
RESPONSE	11/04/1999	CORRESPONDENCE
ENFORCEMENT	09/28/1999	STAFF LETTER
ENFORCEMENT	08/20/1999	TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER
RESPONSE	08/06/1999	CORRESPONDENCE
ENFORCEMENT	06/21/1999	STAFF LETTER
RESPONSE	06/01/1999	OTHER WORKPLAN
ENFORCEMENT	12/10/1998	STAFF LETTER
ENFORCEMENT	12/09/1998	NOTICE OF RESPONSIBILITY
OTHER	11/30/1998	LEAK DISCOVERY
OTHER	11/30/1998	LEAK REPORTED
ENFORCEMENT	08/10/1998	UNAUTHORIZED RELEASE FORM

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**01/08/2007**
OPEN - SITE ASSESSMENT	**03/05/2002**
OPEN - SITE ASSESSMENT	**04/01/2001**
OPEN - SITE ASSESSMENT	**11/30/2000**
OPEN - SITE ASSESSMENT	**12/14/1999**
OPEN - SITE ASSESSMENT	**06/04/1999**
OPEN - CASE BEGIN DATE	**11/30/1998**
OPEN - SITE ASSESSMENT	**11/30/1998**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

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Historical Cortese List (HISTCORTESE)

MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **341216COR**

ID#: **341216**

NAME: **SHELL SS**

ADDRESS: **8901 ELK GROVE**
ELK GROVE, CA 95624

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MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

SHELL ELK GROVE AUTO CARE, 8901 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **0001FE0F**

PAGE 1481 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
GREEN HAVEN AUTO CARE INC.
6431 RIVERSIDE BLVD. SACRAMENTO CA 95831

II FACILITY

	MAILING ADDRESS	DEALER/FOREMAN/SUPERVISOR	TYPE OF BUSINESS
SHELL ELK GROVE AUTO CARE	TOWNSHIP/RANGE/SECTION	TELEPHONE	NO. OF CONTAINERS
8901 ELK GROVE BLVD.			
ELK GROVE CA 95624	8901 ELK GROVE BLVD.	BRIEN JOHNSON	GASOLINE STATION
	ELK GROVE CA 95624		
CROSS STREET :		(916) 685-7796	5

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: BRIEN JOHNSON (916) 685-7796 NIGHT: JOHNSON, BRIEN (916) 332-8265

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000040199001 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 9,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: PREMIUM

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED
C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
SENSOR INSTRUMENT

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12033 PREMIUM MOTOR VEHICLE FUEL

*** AOS ***

PAGE 1482 STATE WATER RESOURCES CONTROL BOARD 06/01/
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 2 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000040199002 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 6,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
SENSOR INSTRUMENT 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 3 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000040199003 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 3,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
SENSOR INSTRUMENT 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

SHELL ELK GROVE AUTO CARE, 8901 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **0001FE0F**

*** B05 ***

PAGE 1483 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 4 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000040199004 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 4,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
SENSOR INSTRUMENT 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12032 REGULAR MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 5 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000040199005 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 4,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
SENSOR INSTRUMENT 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12032 REGULAR MOTOR VEHICLE FUEL

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MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

SP OPERATOR, 8901 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **000293B0**

*** A11 ***

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
SHELL OIL COMPANY
P.O. BOX 4848 ANAHEIM CA 92803

II FACILITY

	MAILING ADDRESS	DEALER/FOREMAN/SUPERVISOR	TYPE OF BUSINESS
S.P. OPERATOR	TOWNSHIP/RANGE/SECTION	TELEPHONE	NO. OF CONTAINERS
8901 ELK GROVE BLVD.			
ELK GROVE CA 95624	8901 ELK GROVE BLVD.		GASOLINE STATION
CROSS STREET :	ELK GROVE CA 95624	(916) 685-7796	3

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: R.G. SWANSON (916) 685-7796 NIGHT: SAME ( ) -

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000056706001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1963
D. CAPACITY (GALLONS) : 6,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: PREMIUM

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4" INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
PRESSURIZED PRODUCT STOCK INVENTORY OTHER 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12033 PREMIUM MOTOR VEHICLE FUEL

*** B11 ***

*** B11 ***

PAGE 2918 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 2 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000056706002 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1963
D. CAPACITY (GALLONS) : 8,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4" INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
PRESSURIZED PRODUCT STOCK INVENTORY OTHER 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12032 REGULAR MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 3 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000056706003 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1963
D. CAPACITY (GALLONS) : 10,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4" INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
PRESSURIZED PRODUCT STOCK INVENTORY OTHER 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

*** C11 ***

Back to Report Summary

MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

GLOBAL ID: **T0606701041**
URL LINK: CLICK HERE
BUSINESS NAME: **SHELL SS**
ADDRESS: **8901 ELK GROVE BLVD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341216**
STATUS: **01/08/2007**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)
SITE HISTORY:
NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR09)

MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

EPA ID#: **CAD981459910**
NAME: **SHELL OIL CO**
ADDRESS: **8901 ELK GROVE**
ELK GROVE, CA 95624
CONTACT NAME: **SONDRA BIENVENU**
CONTACT ADDRESS: **P O BOX 4453**
HOUSTON TX 77210-4453
CONTACT PHONE: **713-241-2258**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **04/08/1998**

OWNER TYPE: **PRIVATE**
OWNER NAME: **EQUILON ENTERPRISES LLC**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **10/07/2002**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**
D018 **BENZENE**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT
NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR09)

MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

EPA ID#: **CAD980696181**
NAME: **SHELL OIL CO SERVICE STATION**
ADDRESS: **8901 ELK GROVE BLVD**
ELK GROVE, CA 95624
CONTACT NAME: **ENVIRONMENTAL MANAGER**
CONTACT ADDRESS: **P O BOX 13678**
SACRAMENTO CA 95853
CONTACT PHONE: **916-481-0400**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **11/29/1982**
CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

OWNER TYPE: **PRIVATE**
OWNER NAME: **SHELL OIL COMPANY**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NOT REQUIRED**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **06/27/2002**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

- NO HAZARDOUS WASTE INFORMATION REPORTED -
UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**
CORRECTIVE ACTION EVENT
NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

SITE INFORMATION

ID#: **RO0000373**
REGIONAL WATER QUALITY BOARD ID: **R050**
NAME: **SHELL OIL**
ADDRESS: **8901 ELK GROVE BLVD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **NOT REPORTED**
CASE TYPE: **NOT REPORTED**
SUBSTANCE: **NOT REPORTED**
REMEDIAL ACTION TAKEN: **NO**
CLOSED CASE: **YES**
CLOSED DATE: **NOT REPORTED**
LEAD AGENCY: **US/COUNTY OF SACRAMENTO**
LEAD STAFF: **MARCUS, B.**

Back to Report Summary

Sacramento County Toxic Case List (SCTL)

MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

SITE INFORMATION

ID#: **RO0001231**

REGIONAL WATER QUALITY BOARD ID: **E519**

NAME: **SHELL SERVICE STATION**

ADDRESS: **8901 ELK GROVE BLVD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **11/30/1998**

CASE TYPE: **SOIL ONLY AFFECTED**

SUBSTANCE: **GASOLINE-AUTOMOTIVE (MOTOR GASOLINE AND ADDITIVES), LEADED & UNLEADED**

REMEDIAL ACTION TAKEN: **NO**

CLOSED CASE: **NOT REPORTED**

CLOSED DATE: **NOT REPORTED**

LEAD AGENCY: **US/COUNTY OF SACRAMENTO**

LEAD STAFF: **MARCUS, B.**

Back to Report Summary

MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

FACILITY #: **40199**
BOE: **44-000074**
NAME: **ELK GROVE SHELL**
ADDRESS: **8901 ELK GROVE BLVD**
ELK GROVE, CA 95624

STATUS: **ACTIVE**
JURISDICTION: **SACRAMENTO COUNTY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**

TANK INFORMATION

TANK #: **000001**
INSTALLED: **NOT REPORTED**
TANK USE: **OIL**
CONTENT: **REGULAR UNLE**
CAPACITY: **550**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **WASTE**
CONTAINMENT: **NOT REPORTED**

TANK #: **000002**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000003**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **LEADED**
CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000004**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **LEADED**
CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000005**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **LEADED**
CAPACITY: **4000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

Back to Report Summary

MAP ID# 34 **Distance from Property: 0.027 mi. (143 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **2826316527** FACILITY ID: **FA0002683**

NAME: **ELK GROVE SHELL #135254**

ADDRESS: **8901 ELK GROVE BLVD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

FACILITY DETAILS

OTHER FACILITY NAME(S) LISTED FOR THIS SITE: **ELK GROVE SHELL #135254**

PERMIT AGENCY: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT**

FACILITY DETAILS LINK: *Click Here*

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR09)

MAP ID# 35 **Distance from Property: 0.032 mi. (169 ft.) W**

FACILITY INFORMATION

EPA ID#: **CAR000229575**
NAME: **CVS PHARMACY #9132**
ADDRESS: **9285 ELK GROVE BLVD**
ELK GROVE, CA 95624
CONTACT NAME: **WENDY L BRANT**
CONTACT ADDRESS: **1 CVS DR CVS DR**
WOONSOCKET RI 02895
CONTACT PHONE: **401-770-7457**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **03/25/2014**

OWNER TYPE: **PRIVATE**
OWNER NAME: **LE-JO INC**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **LONGS DRUG STORES CA LLC**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
ERIC ENSMINGER	**AGENT FOR LONGS DRUGS**	**03/20/2014**
CHARLES SAVAGE	**CVS AGENT**	**08/31/2012**

INDUSTRY CLASSIFICATION (NAICS)
44611 - PHARMACIES AND DRUG STORES

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **LARGE QUANTITY GENERATOR** LAST UPDATED DATE: **04/06/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001	**IGNITABLE WASTE**
D002	**CORROSIVE WASTE**
D004	**ARSENIC**
D005	**BARIUM**

D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D016	2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
D018	BENZENE
D024	M-CRESOL
D027	1,4-DICHLOROBENZENE
D035	METHYL ETHYL KETONE
D039	TETRACHLOROETHYLENE
P001	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
P001	WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
P012	ARSENIC OXIDE AS2O3
P012	ARSENIC TRIOXIDE
P042	1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)-
P042	EPINEPHRINE
P075	NICOTINE, & SALTS
P075	PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS
P081	1,2,3-PROPANETRIOL, TRINITRATE (R)
P081	NITROGLYCERINE (R)
P188	BENZOIC ACID, 2-HYDROXY-,COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO [2,3-B]INDOL-5-YL METHYLCARBAMATE ESTER (1:1)
P188	PHYSOSTIGMINE SALICYLATE
U002	2-PROPANONE (I)
U002	ACETONE (I)
U010	AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA,8BALPHA)]-
U010	MITOMYCIN C
U031	1-BUTANOL (I)
U031	N-BUTYL ALCOHOL (I)
U034	ACETALDEHYDE, TRICHLORO-
U034	CHLORAL
U035	BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]-
U035	CHLORAMBUCIL
U044	CHLOROFORM
U044	METHANE, TRICHLORO-
U058	2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,NBIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE
U058	CYCLOPHOSPHAMIDE
U059	5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXOHEXOPYRANOSYL) OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)-
U059	DAUNOMYCIN
U070	BENZENE, 1,2-DICHLORO-
U070	O-DICHLOROBENZENE
U072	BENZENE, 1,4-DICHLORO-

U072	P-DICHLOROBENZENE
U089	DIETHYLSTILBESTEROL
U089	PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-
U122	FORMALDEHYDE
U129	CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)-
U129	LINDANE
U132	HEXACHLOROPHENE
U132	PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-
U150	L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]-
U150	MELPHALAN
U151	MERCURY
U154	METHANOL (I)
U154	METHYL ALCOHOL (I)
U165	NAPHTHALENE
U188	PHENOL
U200	RESERPINE
U200	YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER,(3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-
U201	1,3-BENZENEDIOL
U201	RESORCINOL
U204	SELENIOUS ACID
U204	SELENIUM DIOXIDE
U205	SELENIUM SULFIDE
U205	SELENIUM SULFIDE SES2 (R,T)
U206	D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]-
U206	GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D-
U206	STREPTOZOTOCIN
U210	ETHENE, TETRACHLORO-
U279	
U411	PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE
U411	PROPOXUR

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

Above Ground Storage Tanks (ABST)

MAP ID# 36 **Distance from Property: 0.041 mi. (216 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **146076**

SITE ID: **146076**

FACILITY NAME: **RADIAL TIRE OF ELK GROVE**

ADDRESS: **9810 WATERMAN RD**
ELK GROVE, CA 95624

COUNTY: **NOT REPORTED**

FACILITY DETAILS

EI ID: **10221112**

EI DESCRIPTION: **ABOVEGROUND PETROLEUM STORAGE**

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR09)

MAP ID# 37 **Distance from Property: 0.042 mi. (222 ft.) S**

FACILITY INFORMATION

EPA ID#: **CAL000380364**
NAME: **RITE AID #6494**
ADDRESS: **9260 ELK GROVE BLVD**
ELK GROVE, CA 95624
CONTACT NAME: **STEPHANIE A CAIATI**
CONTACT ADDRESS: **30 HUNTER LN HUNTER LN**
CAMP HILL PA 17011
CONTACT PHONE: **717-730-8225**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **03/01/2014**

OWNER TYPE: **PRIVATE**
OWNER NAME: **THRIFTY PAYLESS**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **RITE AID CORP**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
STEPHANIE CAIATI	**DIRECTOR, EH&S**	**02/28/2014**

INDUSTRY CLASSIFICATION (NAICS)
44611 - PHARMACIES AND DRUG STORES

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **LARGE QUANTITY GENERATOR** LAST UPDATED DATE: **11/20/2014**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

122
131
141
214
232

311

352

791

D001	**IGNITABLE WASTE**
D002	**CORROSIVE WASTE**
D007	**CHROMIUM**
D009	**MERCURY**
D010	**SELENIUM**
D011	**SILVER**
D024	**M-CRESOL**
D026	**CRESOL**
P001	**2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%**
P001	**WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%**
P075	**NICOTINE, & SALTS**
P075	**PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS**
U034	**ACETALDEHYDE, TRICHLORO-**
U034	**CHLORAL**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR09)

MAP ID# 37 **Distance from Property: 0.042 mi. (222 ft.) S**

FACILITY INFORMATION

EPA ID#: **CAR000212902**

NAME: **RITE AID #6494**

ADDRESS: **9260 ELK GROVE BLVD**
ELK GROVE, CA 95624

CONTACT NAME: **DAVID W CROZIER**

CONTACT ADDRESS: **30 HUNTER LN**
CAMP HILL PA 17011

CONTACT PHONE: **7179758643**

NON-NOTIFIER: **NOT A NON-NOTIFIER**

DATE RECEIVED BY AGENCY: **04/14/2017**

OWNER TYPE: **PRIVATE**

OWNER NAME: **JOHN S TRAYNOR AND ETHEL JOYCE TRAYNOR**

OPERATOR TYPE: **PRIVATE**

OPERATOR NAME: **THRIFTY PAYLESS**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
DAVID W CROZIER	**MANAGER, EHS**	**04/14/2017**
STEPHANIE CAIATI	**DIR EHS**	**07/25/2014**
STEPHANIE CAIATI	**SAFETY MGR**	**06/01/2010**

INDUSTRY CLASSIFICATION (NAICS)

44611 - PHARMACIES AND DRUG STORES

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **06/22/2017**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

MIXED WASTE GENERATOR: **NO**

RECYCLER: **NO**

TRANSPORTER: **NO**

ONSITE BURNER EXEMPTION: **NO**

FURNACE EXEMPTION: **NO**

USED OIL REFINER: **NO**

USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

TRANSFER FACILITY: **NO**

USED OIL FUEL BURNER: **NO**

USED OIL PROCESSOR: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**

VIOLATIONS **- NO VIOLATIONS REPORTED -**

ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

122

131

141
214
223
232
261
291
311
331
343
352
541
561
791

D001	IGNITABLE WASTE
D002	CORROSIVE WASTE
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D016	2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
D024	M-CRESOL
D026	CRESOL
D035	METHYL ETHYL KETONE
P001	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
P001	WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
P075	NICOTINE, & SALTS
P075	PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS
U002	2-PROPANONE (I)
U002	ACETONE (I)
U080	METHANE, DICHLORO-
U080	METHYLENE CHLORIDE
U160	2-BUTANONE, PEROXIDE (R,T)
U160	METHYL ETHYL KETONE PEROXIDE (R,T)
U165	NAPHTHALENE
U188	PHENOL
U279	

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

Recycling Centers (SWRCY)

MAP ID# 38 **Distance from Property: 0.045 mi. (238 ft.) N**

SITE INFORMATION

ID #: **RC12915**
NAME: **NEXCYCLE**
ADDRESS: **9435 ELK GROVE BLVD**
CITY: **ELK GROVE**
STATE: **CA**
ZIP: **95624**
COUNTY: **SACRAMENTO**

SITE DETAILS

OPERATION BEGIN DATE: **03/02/06**
OPERATION END DATE: **11/17/09**
PROGRAM PHONE: **(909) 796-2210**
ORGANIZATION NAME: **NOT REPORTED**
ADDRESS: **STREET NOT REPORTED**
CITY NOT REPORTED
GLASS: **NOT ACCEPTED**
ALUMINIUM: **NOT ACCEPTED**
PLASTIC: **NOT ACCEPTED**
BIMETAL: **NOT ACCEPTED**

Back to Report Summary

Dry Cleaner Facilities (CLEANER)

MAP ID# 39 **Distance from Property: 0.057 mi. (301 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **CAL000308250**
PERMIT ID: **CAL000308250**
FACILITY NAME: **GREEN NATURE CLEANERS INC**
ADDRESS: **9320 ELK GROVE BLVD STE 165**
ELK GROVE, CA 95624-5061
COUNTY: **SACRAMENTO**
STATUS: **INACTIVE**
URL LINK: CLICK HERE

FACILITY DETAILS

SIC CODE: **7211**
SIC DESCRIPTION: **POWER LAUNDRIES, FAMILY AND COMMERCIAL**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7212**
SIC DESCRIPTION: **GARMENT PRESSING, AND AGENTS FOR LAUNDRIES AND DRYCLEANERS**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7216**
SIC DESCRIPTION: **DRYCLEANING PLANTS, EXCEPT RUG CLEANING**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7219**
SIC DESCRIPTION: **LAUNDRY AND GARMENT SERVICES, NOT ELSEWHERE CLASSIFIED**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

Back to Report Summary

MAP ID# 40 **Distance from Property: 0.072 mi. (380 ft.) W**

FACILITY INFORMATION

GLOBAL ID: **T0606700284**
URL LINK: CLICK HERE
BUSINESS NAME: **KINGSFORD PROD CO**
ADDRESS: **10000 WATERMAN RD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340352**
STATUS: **COMPLETED - CASE CLOSED 01/17/1996**
POTENTIAL CONTAMINATION:
OTHER SOLVENT OR NON-PETROLEUM HYDROCARBON
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	01/01/50	LEAK DISCOVERY
OTHER	01/01/50	LEAK REPORTED
ENFORCEMENT	01/17/1996	CLOSURE/NO FURTHER ACTION LETTER
RESPONSE	06/30/1994	MONITORING REPORT - QUARTERLY
RESPONSE	05/03/1994	CORRESPONDENCE
RESPONSE	03/31/1994	MONITORING REPORT - QUARTERLY
RESPONSE	03/22/1994	CORRESPONDENCE
RESPONSE	01/12/1994	OTHER REPORT / DOCUMENT
RESPONSE	12/31/1993	MONITORING REPORT - QUARTERLY
RESPONSE	12/09/1993	OTHER REPORT / DOCUMENT
RESPONSE	09/30/1993	MONITORING REPORT - QUARTERLY
RESPONSE	09/30/1992	MONITORING REPORT - QUARTERLY
ENFORCEMENT	09/02/1992	NOTICE OF REIMBURSEMENT
ENFORCEMENT	08/26/1992	* HISTORICAL ENFORCEMENT
ENFORCEMENT	08/26/1992	* NO ACTION
ENFORCEMENT	08/26/1992	NOTICE OF REIMBURSEMENT
OTHER	02/07/1992	LEAK DISCOVERY
OTHER	02/07/1992	LEAK REPORTED
RESPONSE	05/02/1991	OTHER REPORT / DOCUMENT
RESPONSE	01/22/1991	OTHER REPORT / DOCUMENT
RESPONSE	12/06/1990	CORRESPONDENCE
RESPONSE	09/11/1990	OTHER REPORT / DOCUMENT
RESPONSE	08/28/1989	OTHER REPORT / DOCUMENT
RESPONSE	05/16/1989	UNAUTHORIZED RELEASE FORM

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**01/17/1996**
OPEN - SITE ASSESSMENT	**02/07/1992**
OPEN - REMEDIATION	**07/17/1990**
OPEN - SITE ASSESSMENT	**07/17/1990**
OPEN - CASE BEGIN DATE	**05/01/1989**
OPEN - REMEDIATION	**05/01/1989**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

Back to Report Summary

Historical Cortese List (HISTCORTESE)

MAP ID# 40 **Distance from Property: 0.072 mi. (380 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **340352COR**

ID#: **340352**

NAME: **KINGSFORD PROD CO**

ADDRESS: **10000 WATERMAN**
ELK GROVE, CA 95624

Back to Report Summary

MAP ID# 40 **Distance from Property: 0.072 mi. (380 ft.) W**

FACILITY INFORMATION

GLOBAL ID: **T0606700284**

URL LINK: CLICK HERE

BUSINESS NAME: **KINGSFORD PROD CO**

ADDRESS: **10000 WATERMAN RD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**

CASE NUMBER: **340352**

STATUS: **01/17/1996**

POTENTIAL CONTAMINATION:

OTHER SOLVENT OR NON-PETROLEUM HYDROCARBON

POTENTIAL MEDIA AFFECTED:

SOIL

SITE HISTORY:

NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 40 **Distance from Property: 0.072 mi. (380 ft.) W**

SITE INFORMATION

ID#: **RO0001140**

REGIONAL WATER QUALITY BOARD ID: **0508/71508**

NAME: **KINGSFORD CHARCOAL COMPANY**

ADDRESS: **WATERMAN RD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **05/10/1989**

CASE TYPE: **SOIL ONLY AFFECTED**

SUBSTANCE: **DIESEL FUEL OIL AND ADDITIVES, NOS.1-D, 2-D, 2-4**

REMEDIAL ACTION TAKEN: **NO**

CLOSED CASE: **YES**

CLOSED DATE: **02/22/1991**

LEAD AGENCY: **US/COUNTY OF SACRAMENTO**

LEAD STAFF: **ERIKSON, S.**

Back to Report Summary

MAP ID# 40 **Distance from Property: 0.072 mi. (380 ft.) W**

SITE INFORMATION

ID#: **RO0001141**
REGIONAL WATER QUALITY BOARD ID: **B548**
NAME: **KINGSFORD CHARCOAL PLANT**
ADDRESS: **WATERMAN RD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **02/07/1992**
CASE TYPE: **SOIL ONLY AFFECTED**
SUBSTANCE: **HYDROCARBONS**
REMEDIAL ACTION TAKEN: **YES**
CLOSED CASE: **YES**
CLOSED DATE: **05/03/1994**
LEAD AGENCY: **US/COUNTY OF SACRAMENTO**
LEAD STAFF: **MARCUS, B.**

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Dry Cleaner Facilities (CLEANER)

MAP ID# 41 **Distance from Property: 0.09 mi. (475 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **CAD983609793**
PERMIT ID: **CAD983609793**
FACILITY NAME: **DRYCLEAN TODAY INC**
ADDRESS: **9731 DINO DR 120**
ELK GROVE, CA 95624-0000
COUNTY: **SACRAMENTO**
STATUS: **INACTIVE**
URL LINK: CLICK HERE

FACILITY DETAILS

SIC CODE: **7211**
SIC DESCRIPTION: **POWER LAUNDRIES, FAMILY AND COMMERCIAL**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7212**
SIC DESCRIPTION: **GARMENT PRESSING, AND AGENTS FOR LAUNDRIES AND DRYCLEANERS**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7216**
SIC DESCRIPTION: **DRYCLEANING PLANTS, EXCEPT RUG CLEANING**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7219**
SIC DESCRIPTION: **LAUNDRY AND GARMENT SERVICES, NOT ELSEWHERE CLASSIFIED**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

Back to Report Summary

Dry Cleaner Facilities (CLEANER)

MAP ID# 41 **Distance from Property: 0.09 mi. (475 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **CAL000314732**
PERMIT ID: **CAL000314732**
FACILITY NAME: **RYTINA FINE CLEANERS**
ADDRESS: **9731 DINO DR STE 100**
ELK GROVE, CA 95624-1402
COUNTY: **SACRAMENTO**
STATUS: **INACTIVE**
URL LINK: CLICK HERE

FACILITY DETAILS

SIC CODE: **7211**
SIC DESCRIPTION: **POWER LAUNDRIES, FAMILY AND COMMERCIAL**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7212**
SIC DESCRIPTION: **GARMENT PRESSING, AND AGENTS FOR LAUNDRIES AND DRYCLEANERS**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7216**
SIC DESCRIPTION: **DRYCLEANING PLANTS, EXCEPT RUG CLEANING**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

SIC CODE: **7219**
SIC DESCRIPTION: **LAUNDRY AND GARMENT SERVICES, NOT ELSEWHERE CLASSIFIED**
NAICS CODE: **81232**
SIC DESCRIPTION: **DRYCLEANING AND LAUNDRY SERVICES**

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR09)

MAP ID# 41 **Distance from Property: 0.087 mi. (459 ft.) W**

FACILITY INFORMATION

EPA ID#: **CAD983609793**
NAME: **DRY CLEAN USA**
ADDRESS: **9731 DINO DR 120**
ELK GROVE, CA 95624
CONTACT NAME: **MARK TILLETT**
CONTACT ADDRESS: **9731 DINO DR 120**
ELK GROVE CA 95624
CONTACT PHONE: **916-687-7489**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **10/24/1991**

OWNER TYPE: **PRIVATE**
OWNER NAME: **MARK TILLETT**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **09/15/2000**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

- NO HAZARDOUS WASTE INFORMATION REPORTED -
UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**
CORRECTIVE ACTION EVENT
NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR09)

MAP ID# 42 **Distance from Property: 0.092 mi. (486 ft.) W**

FACILITY INFORMATION

EPA ID#: **CAR000044172**
NAME: **OFFSET SERVICES INK**
ADDRESS: **9911 KENT ST NO 4**
ELK GROVE, CA 95624
CONTACT NAME: **RUSSELL SYRAACUSE**
CONTACT ADDRESS: **663 FRAZIER DR**
OAKLEY CA 94561
CONTACT PHONE: **916-686-0643**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **09/11/1998**

OWNER TYPE: **PRIVATE**
OWNER NAME: **RUSELL SYRACUSE**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **10/07/2002**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**
D006 **CADMIUM**
D008 **LEAD**
D018 **BENZENE**
D027 **1,4-DICHLOROBENZENE**
D039 **TETRACHLOROETHYLENE**
D040 **TRICHLORETHYLENE**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

Above Ground Storage Tanks (ABST)

MAP ID# 43 **Distance from Property: 0.094 mi. (496 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **38610**

SITE ID: **38610**

FACILITY NAME: **ISA: SHERIFF'S SOUTH GARAGE**

ADDRESS: **9250 BOND RD**
ELK GROVE, CA 95624

COUNTY: **NOT REPORTED**

FACILITY DETAILS

EI ID: **10218256**

EI DESCRIPTION: **ABOVEGROUND PETROLEUM STORAGE**

Back to Report Summary

MAP ID# 43 **Distance from Property: 0.094 mi. (496 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **4204162381** FACILITY ID: **FA0008569**

NAME: **ISA: SHERIFF'S SOUTH GARAGE**

ADDRESS: **9250 BOND RD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

FACILITY DETAILS

OTHER FACILITY NAME(S) LISTED FOR THIS SITE: **ISA: SHERIFF'S SOUTH GARAGE**

PERMIT AGENCY: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT**

FACILITY DETAILS LINK: *Click Here*

Back to Report Summary

Recycling Centers (SWRCY)

MAP ID# 44 **Distance from Property: 0.098 mi. (517 ft.) WSW**

SITE INFORMATION

ID #: **RC195218.001**
NAME: **RIVER CITY WASTE RECYCLERS**
ADDRESS: **10286 WATERMAN RD**
CITY: **ELK GROVE**
STATE: **CA**
ZIP: **95829**
COUNTY: **SACRAMENTO**

SITE DETAILS

OPERATION BEGIN DATE: **10/16/13**
OPERATION END DATE: **NOT REPORTED**
PROGRAM PHONE: **(916) 868-1700**
ORGANIZATION NAME: **RIVER CITY WASTE RECYCLERS LLC**
ADDRESS: **8940 ELDER CREEK RD**
SACRAMENTO CA 95829
GLASS: **ACCEPTED**
ALUMINIUM: **ACCEPTED**
PLASTIC: **ACCEPTED**
BIMETAL: **ACCEPTED**

Back to Report Summary

Aboveground Storage Tanks Prior to January 2008 (AST2007)

MAP ID# 45 **Distance from Property: 0.119 mi. (628 ft.) N**

SITE INFORMATION

GEOSEARCH ID#: **2404958669**

NAME: **EAST PARK WTP (WF-3)**

ADDRESS: **9560 BAYPOINT WAY**
ELK GROVE, CA 95624

TOTAL GALLONS: **2000**

OWNER INFORMATION

OWNER NAME: **SACRAMENTO COUNTY**

Back to Report Summary

MAP ID# 46 **Distance from Property: 0.12 mi. (634 ft.) W**

FACILITY INFORMATION

GLOBAL ID: **T0606701093**
URL LINK: CLICK HERE
BUSINESS NAME: **WORLD ASPHALT**
ADDRESS: **10144 WATERMAN RD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341269**
STATUS: **COMPLETED - CASE CLOSED 09/09/1999**
POTENTIAL CONTAMINATION:
STODDARD SOLVENT / MINERAL SPRIITS / DISTILLATES
POTENTIAL MEDIA AFFECTED:
UNDER INVESTIGATION
SITE HISTORY:
CASE IS CLOSED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	**01/01/50**	**LEAK DISCOVERY**
OTHER	**01/01/50**	**LEAK REPORTED**
ENFORCEMENT	**11/13/2001**	**STAFF LETTER - #6/9/1999**
ENFORCEMENT	**11/07/2001**	**CLOSURE/NO FURTHER ACTION LETTER - #11/7/2001**
ENFORCEMENT	**09/21/1999**	**OTHER REPORT - #9/21/1999**
ENFORCEMENT	**09/09/1999**	**CLOSURE/NO FURTHER ACTION LETTER**
OTHER	**09/09/1999**	**LEAK DISCOVERY**
OTHER	**01/02/1965**	**LEAK REPORTED**

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**09/09/1999**
OPEN - CASE BEGIN DATE	**09/09/1999**
OPEN - REOPEN CASE	**09/09/1999**

CONTACT DETAILS

ORGANIZATION: **SACRAMENTO COUNTY LOP**
ADDRESS: **8475 JACKSON ROAD, SUITE 240**
CITY: **SACRAMENTO**
CONTACT NAME: **DANA BOOTH**
CONTACT TYPE: **LOCAL AGENCY CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **BOOTHD@SACCOUNTY.NET**
ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**

CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

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Historical Cortese List (HISTCORTESE)

MAP ID# 46 **Distance from Property: 0.12 mi. (634 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **341269COR**

ID#: **341269**

NAME: **WORLD ASPHALT**

ADDRESS: **10144 WATERMAN**
ELK GROVE, CA 95624

Back to Report Summary

MAP ID# 46 **Distance from Property: 0.12 mi. (634 ft.) W**

WORLD ASPHALT COMPANY, 10144 WATERMAN ROAD, ELK GROVE, CA 95624
UNIQUE ID: **00029641**

*** L07 ***

PAGE 3675 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
WORLD ASPHALT COMPANY
10144 WATERMAN ROAD ELK GROVE CA 95624

II FACILITY

	MAILING ADDRESS	DEALER/FOREMAN/SUPERVISOR	TYPE OF BUSINESS
WORLD ASPHALT COMPANY	TOWNSHIP/RANGE/SECTION	TELEPHONE	NO. OF CONTAINERS
10144 WATERMAN ROAD			
ELK GROVE CA 95624	10144 WATERMAN ROAD	NORMAN PUGH	MANUFACTURING PLANT
	ELK GROVE CA 95624	(916) 685-2000	3
CROSS STREET :			
GRANT LINE ROAD			

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: PUGH, NORMAN (916) 685-2000 NIGHT: PUGH, NORMAN (916) 687-6343

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000014310001 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1976
D. CAPACITY (GALLONS) : 12,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : NO CONTAINS:

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 3/16 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : TAR OR ASPHT

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
64742-88-7 NOT ON LIST

*** M07 ***

*** M07 ***

PAGE 3676 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 2 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000014310002 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /
C. YEAR INSTALLED : 1976
D. CAPACITY (GALLONS) : 5,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : NO CONTAINS:

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 3/16 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : TAR TAR OR ASPHT

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING :
C. REPAIRS : IF YES, YEAR OF MOST RECENT REPAIR: 02

VII LEAK DETECTION
NONE 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
NONE

********** OWNER ASSIGNED CONTAINER NUMBER: 3 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000014310003 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /
C. YEAR INSTALLED : 1976
D. CAPACITY (GALLONS) : 7,500
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : NO CONTAINS:

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 3/16 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : TAR OR ASPHT

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING :
C. REPAIRS : IF YES, YEAR OF MOST RECENT REPAIR: 02

VII LEAK DETECTION
NONE 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
NONE

*** M07 ***

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 46 **Distance from Property: 0.12 mi. (634 ft.) W**

FACILITY INFORMATION

GLOBAL ID: **T0606701093**
URL LINK: CLICK HERE
BUSINESS NAME: **WORLD ASPHALT**
ADDRESS: **10144 WATERMAN RD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341269**
STATUS: **09/09/1999**
POTENTIAL CONTAMINATION:
STODDARD SOLVENT / MINERAL SPRIITS / DISTILLATES
POTENTIAL MEDIA AFFECTED:
UNDER INVESTIGATION
SITE HISTORY:
CASE IS CLOSED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR09)

MAP ID# 46 **Distance from Property: 0.12 mi. (634 ft.) W**

FACILITY INFORMATION

EPA ID#: **CAR000181735**
NAME: **HENRY COMPANY**
ADDRESS: **10144 WATERMAN ROAD**
ELK GROVE, CA 95624
CONTACT NAME: **JOHN K KINAST**
CONTACT ADDRESS: **330 COLD STREAM ROAD**
KIMBERTON PA 19442
CONTACT PHONE: **484-923-2269**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **04/12/2010**

OWNER TYPE: **PRIVATE**
OWNER NAME: **HENRY COMPANY**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **HENRY COMPANY**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
JOHN K KINAST	**ENV ENGR**	**04/06/2010**
YSIDRO ROBLES	**PLANT MANAGER**	**02/08/2007**

INDUSTRY CLASSIFICATION (NAICS)
324122 - ASPHALT SHINGLE AND COATING MATERIALS MANUFACTURING

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **LARGE QUANTITY GENERATOR** LAST UPDATED DATE: **10/06/2010**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

151
223
281
331

352

D001 **IGNITABLE WASTE**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 46 **Distance from Property: 0.12 mi. (634 ft.) W**

SITE INFORMATION

ID#: **RO0001330**

REGIONAL WATER QUALITY BOARD ID: **D591**

NAME: **WORLDASPHALT**

ADDRESS: **10144 WATERMAN RD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **06/09/1999**

CASE TYPE: **SOIL ONLY AFFECTED**

SUBSTANCE: **MINERAL SPIRITS**

REMEDIAL ACTION TAKEN: **NO**

CLOSED CASE: **YES**

CLOSED DATE: **NOT REPORTED**

LEAD AGENCY: **US/COUNTY OF SACRAMENTO**

LEAD STAFF: **BOOTH, D.**

Back to Report Summary

MAP ID# 46 **Distance from Property: 0.12 mi. (634 ft.) W**

FACILITY INFORMATION

FACILITY #: **14310**
STATUS: **ACTIVE**
BOE: **44-019005**
JURISDICTION: **SACRAMENTO COUNTY**
NAME: **WORLD ASPHALT COMPANY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**
ADDRESS: **10144 WATERMAN RD**
ELK GROVE, CA 95624

TANK INFORMATION

TANK #: **000001**
CAPACITY: **12000**
INSTALLED: **NOT REPORTED**
REMOVED: **NOT REPORTED**
TANK USE: **UNKNOWN**
STORAGE TYPE: **PRODUCT**
CONTENT: **UNKNOWN**
CONTAINMENT: **NOT REPORTED**

TANK #: **000002**
CAPACITY: **5000**
INSTALLED: **NOT REPORTED**
REMOVED: **NOT REPORTED**
TANK USE: **UNKNOWN**
STORAGE TYPE: **PRODUCT**
CONTENT: **UNKNOWN**
CONTAINMENT: **NOT REPORTED**

TANK #: **000003**
CAPACITY: **7500**
INSTALLED: **NOT REPORTED**
REMOVED: **NOT REPORTED**
TANK USE: **UNKNOWN**
STORAGE TYPE: **PRODUCT**
CONTENT: **UNKNOWN**
CONTAINMENT: **NOT REPORTED**

Back to Report Summary

Recycling Centers (SWRCY)

MAP ID# 46 **Distance from Property: 0.12 mi. (634 ft.) W**

SITE INFORMATION

ID #: **RC173236.001**
NAME: **RIVER CITY WASTE RECYCLERS**
ADDRESS: **10144 WATERMAN RD**
CITY: **ELK GROVE**
STATE: **CA**
ZIP: **95624**
COUNTY: **SACRAMENTO**

SITE DETAILS

OPERATION BEGIN DATE: **12/26/12**
OPERATION END DATE: **NOT REPORTED**
PROGRAM PHONE: **(916) 686-1700**
ORGANIZATION NAME: **RIVER CITY WASTE RECYCLERS LLC**
ADDRESS: **8940 ELDER CREEK RD**
SACRAMENTO CA 95829
GLASS: **ACCEPTED**
ALUMINIUM: **ACCEPTED**
PLASTIC: **ACCEPTED**
BIMETAL: **ACCEPTED**

Back to Report Summary

Recycling Centers (SWRCY)

MAP ID# 47 **Distance from Property: 0.126 mi. (665 ft.) W**

SITE INFORMATION

ID #: **RC13748**
NAME: **JA RECYCLING #2**
ADDRESS: **9851 DINO DR**
CITY: **ELK GROVE**
STATE: **CA**
ZIP: **95624**
COUNTY: **SACRAMENTO**

SITE DETAILS

OPERATION BEGIN DATE: **05/26/08**
OPERATION END DATE: **NOT REPORTED**
PROGRAM PHONE: **NOT REPORTED**
ORGANIZATION NAME: **NOT REPORTED**
ADDRESS: **STREET NOT REPORTED**
CITY NOT REPORTED
GLASS: **NOT ACCEPTED**
ALUMINIUM: **NOT ACCEPTED**
PLASTIC: **NOT ACCEPTED**
BIMETAL: **NOT ACCEPTED**

Back to Report Summary

Above Ground Storage Tanks (ABST)

MAP ID# 48 **Distance from Property: 0.128 mi. (676 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **141652**

SITE ID: **141652**

FACILITY NAME: **PARAMOUNT PETROLEUM CORPORATION**

ADDRESS: **10090 WATERMAN RD**
ELK GROVE, CA 95624

COUNTY: **NOT REPORTED**

FACILITY DETAILS

EI ID: **10221115**

EI DESCRIPTION: **ABOVEGROUND PETROLEUM STORAGE**

Back to Report Summary

MAP ID# 48 **Distance from Property: 0.128 mi. (676 ft.) W**

FACILITY INFORMATION

GLOBAL ID: **T0606700036**
URL LINK: CLICK HERE
BUSINESS NAME: **CONOCO ASPHALT TERMINAL**
ADDRESS: **10090 WATERMAN RD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340054**
STATUS: **COMPLETED - CASE CLOSED 11/12/1986**
POTENTIAL CONTAMINATION:
DIESEL
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	**01/01/50**	**LEAK REPORTED**
ENFORCEMENT	**07/14/1994**	**STAFF LETTER - #7/14/1994**
ENFORCEMENT	**08/30/1993**	**LETTER - NOTICE - #8/30/1993**
ENFORCEMENT	**11/12/1986**	**OTHER REPORT - #11/12/1986**
OTHER	**11/03/1986**	**LEAK REPORTED**
ENFORCEMENT	**06/15/1986**	**OTHER REPORT - #6/15/1986**

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**11/12/1986**
OPEN - CASE BEGIN DATE	**11/03/1986**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

Back to Report Summary

Historical Cortese List (HISTCORTESE)

MAP ID# 48 **Distance from Property: 0.128 mi. (676 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **340054COR**

ID#: **340054**

NAME: **CONOCO ASPHALT TERMINAL**

ADDRESS: **10090 WATERMAN**
ELK GROVE, CA 95624

Back to Report Summary

MAP ID# 48 **Distance from Property: 0.128 mi. (676 ft.) W**

CONOCO BULK PLANT, 10090 WATERMAN ROAD, ELK GROVE, CA 95624
UNIQUE ID: **0001FCDE**

*** MOS ***

PAGE 956 STATE WATER RESOURCES CONTROL BOARD 06/01/68
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
CONOCO INC.
10090 WATERMAN ROAD ELK GROVE CA 95624

II FACILITY

	MAILING ADDRESS TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR TELEPHONE	TYPE OF BUSINESS NO. OF CONTAINERS
CONOCO BULK PLANT 10090 WATERMAN ROAD ELK GROVE CA 95624	10090 WATERMAN ROAD ELK GROVE CA 95624	GENE H. CHURCH (916) 685-9253	TAR PLANT 4

CROSS STREET :
GRANTLINE

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: CHURCH, GENE (916) 685-9253 NIGHT: SAME (916) 685-9253

********** OWNER ASSIGNED CONTAINER NUMBER: TANK #1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000002928001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: INDUSTRIAL STEEL OR FRUEHAUF /
C. YEAR INSTALLED : 1974
D. CAPACITY (GALLONS) : 4,000
E. REPAIRS : YES IF YES WHEN : 1974
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : WASTE
H. MOTOR VEHICLE FUEL/WASTE OIL : NO CONTAINS:

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: .25 GAUGE B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : GRAVITY SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
ASPHALT, LIQUID SC250

*** MOS ***

*** M05 ***

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F **  957                    STATE WATER RESOURCES CONTROL BOARD                    06/01/88
              HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATI  FOR SACRAMENTO COUNTY
                                CONTAINER TYPES: 1,2,3,4,5
    (1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: OIL #1   ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 000000002928002 **********

 IV DESCRIPTION
    A. CONTAINER TYPE      : TANK                          E. REPAIRS          : NO    IF YES WHEN   :
    B. MANUFACTURER/YR OF MFG: BUTLER, RICHMOND      /     F. CURRENTLY USED   : YES IF NO, YEAR OF LAST USE:
    C. YEAR INSTALLED      : 1972                          G. STORES           : PRODUCT
    D. CAPACITY (GALLONS)  :     1,800                     H. MOTOR VEHICLE FUEL/WASTE OIL : NO  CONTAINS:

 IS CONTAINER LOCATED ON A FARM  : NO

  V CONTAINER CONSTRUCTION
    A. THICKNESS:                B. VAULTING: NON-VAULTED   C. WALLING: SINGLE
    D. MATERIAL : CARBON STEEL
    E. LINING   : UNLINED
    F. WRAPPING : NONE

 VI PIPING
    A. ABOVEGROUND PIPING :                          B. UNDERGROUND PIPING : GRAVITY      SUCTION
    C. REPAIRS : NONE   IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
    STOCK INVENTORY                                                                        0

            COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
                  MOTOR OIL

********** OWNER ASSIGNED CONTAINER NUMBER: DIESEL #1  ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 000000002928003 **********

 IV DESCRIPTION
    A. CONTAINER TYPE      : TANK                          E. REPAIRS          : NONE   IF YES WHEN   :
    B. MANUFACTURER/YR OF MFG: PERKINS WELDING       /1972 F. CURRENTLY USED   : YES IF NO, YEAR OF LAST USE:
    C. YEAR INSTALLED      : 1972                          G. STORES           : PRODUCT
    D. CAPACITY (GALLONS)  :     10,000                    H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

 IS CONTAINER LOCATED ON A FARM  : NO

  V CONTAINER CONSTRUCTION
    A. THICKNESS:                B. VAULTING: NON-VAULTED   C. WALLING: SINGLE
    D. MATERIAL : CARBON STEEL
    E. LINING   : UNLINED
    F. WRAPPING : TAR                  TAR OR ASPHT

 VI PIPING
    A. ABOVEGROUND PIPING :                          B. UNDERGROUND PIPING : GRAVITY      SUCTION
    C. REPAIRS :          IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
    STOCK INVENTORY                                                                        0

            COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
    12034          DIESEL MOTOR VEHICLE FUEL
```

*** 005 ***

PAGE 958 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: POND #1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000002928004 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1972
D. CAPACITY (GALLONS) : 172,351
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : WASTE
H. MOTOR VEHICLE FUEL/WASTE OIL : NO CONTAINS:

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: NONE
D. MATERIAL : EARTHEN WALLS
E. LINING : UNLINED
F. WRAPPING : NONE

VI PIPING
A. ABOVEGROUND PIPING : UNKNOWN B. UNDERGROUND PIPING :
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
VISUAL 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
STEAM BOILER BLOW DOWN WATER

Back to Report Summary

MAP ID# 48 **Distance from Property: 0.128 mi. (676 ft.) W**

FACILITY INFORMATION

GLOBAL ID: **T0606700036**
URL LINK: CLICK HERE
BUSINESS NAME: **CONOCO ASPHALT TERMINAL**
ADDRESS: **10090 WATERMAN RD**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **340054**
STATUS: **11/12/1986**
POTENTIAL CONTAMINATION:
DIESEL
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 48 **Distance from Property: 0.128 mi. (676 ft.) W**

SITE INFORMATION

ID#: **RO0001142**
REGIONAL WATER QUALITY BOARD ID: **A270**
NAME: **CONOCO INC-ASPHALT PLANT**
ADDRESS: **10090 WATERMAN RD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **08/30/1993**
CASE TYPE: **SOIL ONLY AFFECTED**
SUBSTANCE: **ASPHALT**
REMEDIAL ACTION TAKEN: **NO**
CLOSED CASE: **NOT REPORTED**
CLOSED DATE: **NOT REPORTED**
LEAD AGENCY: **US/COUNTY OF SACRAMENTO**
LEAD STAFF: **BOOTH, D.**

Back to Report Summary

Spills, Leaks, Investigation & Cleanup Recovery Listing (SLIC)

MAP ID# 48 **Distance from Property: 0.128 mi. (676 ft.) W**

INCIDENT INFORMATION

GLOBAL ID#:	**5-SLIC -170**
NAME:	**CONOCO ASPHALT TERMINAL**
ADDRESS:	**10090 WATERMAN ROAD**
	ELK GROVE CA 95624
LEAD AGENCY:	**CENTRAL VALLEY RWQCB (REGION 5)**
LEAD AGENCY CONTACT:	**NOT REPORTED**
LEAD AGENCY CASE #:	**NOT REPORTED**
SUBSTANCE RELEASED:	**TPH**
RESPONSIBLE PARTY:	**NOT REPORTED**

Back to Report Summary

Aboveground Storage Tanks Prior to January 2008 (AST2007)

MAP ID# 49 **Distance from Property: 0.13 mi. (686 ft.) W**

SITE INFORMATION

GEOSEARCH ID#: **1077399811**

NAME: **ELK GROVE PLANT**

ADDRESS: **10260 WATERMAN RD.**
ELK GROVE, CA 95624

TOTAL GALLONS: **11070**

OWNER INFORMATION

OWNER NAME: **CONCRETE, INC.**

Back to Report Summary

MAP ID# 49 **Distance from Property: 0.13 mi. (686 ft.) W**

ELK GROVE READY -MIX INC, 10260 WATERMAN ROAD, ELK GROVE, CA 95624
UNIQUE ID: **0001FD71**

PAGE 1226 STATE WATER RESOURCES CONTROL BOARD 06/01/86
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
ELK GROVE READY-MIX, INC.
10260 WATERMAN ROAD ELK GROVE CA 95624

II FACILITY
ELK GROVE READY-MIX, INC. MAILING ADDRESS DEALER/FOREMAN/SUPERVISOR TYPE OF BUSINESS
10260 WATERMAN ROAD TOWNSHIP/RANGE/SECTION TELEPHONE NO. OF CONTAINERS
ELK GROVE CA 95624 P. O. BOX 704 STEVE COULSON CONCRETE PRODUCTION
ELK GROVE CA 95624
CROSS STREET : (916) 685-5900 1
GRANTLINE ROAD TELK/R /S

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: COULSON, STEVE (916) 685-5900 NIGHT: COULSON, STEVE (916) 685-6264

********** OWNER ASSIGNED CONTAINER NUMBER: 001 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 0000001624D001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1980
D. CAPACITY (GALLONS) : 10,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: NON-VAULTED
C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : CATHODIC

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING :
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
VISUAL STOCK INVENTORY

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** 005 ***

Back to Report Summary

MAP ID# 49 **Distance from Property: 0.13 mi. (686 ft.) W**

FACILITY INFORMATION

FACILITY #: **16240**
BOE: **44-019017**
NAME: **ELK GROVE READY-MIX, INC.**
ADDRESS: **10260 WATERMAN RD**
ELK GROVE, CA 95624

STATUS: **ACTIVE**
JURISDICTION: **SACRAMENTO COUNTY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**

TANK INFORMATION

TANK #: **000001**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **DIESEL**

CAPACITY: **4000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

TANK #: **000002**
INSTALLED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
CONTENT: **DIESEL**

CAPACITY: **10000**
REMOVED: **NOT REPORTED**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **NOT REPORTED**

Back to Report Summary

Dry Cleaner Facilities (CLEANER)

MAP ID# 50 **Distance from Property: 0.142 mi. (750 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **CAL000295090**
PERMIT ID: **CAL000295090**
FACILITY NAME: **JEFF WHITE EQUIPMENT REPAIR MOBILE**
ADDRESS: **9653 WEBB ST**
ELK GROVE, CA 95624-2422
COUNTY: **SACRAMENTO**
STATUS: **INACTIVE**
URL LINK: CLICK HERE

FACILITY DETAILS

SIC CODE: **7219**
SIC DESCRIPTION: **LAUNDRY AND GARMENT SERVICES, NOT ELSEWHERE CLASSIFIED**
NAICS CODE: **NOT REPORTED**
SIC DESCRIPTION: **NOT REPORTED**

Back to Report Summary

Aboveground Storage Tanks Prior to January 2008 (AST2007)

MAP ID# 51 **Distance from Property: 0.158 mi. (834 ft.) W**

SITE INFORMATION

GEOSEARCH ID#: **1868007047**

NAME: **JIM DUPZYK CONCRETE PUMPING**

ADDRESS: **9883 KENT ST.**
ELK GROVE, CA 95624

TOTAL GALLONS: **1000**

OWNER INFORMATION

OWNER NAME: **JIM DUPZYK CONCRETE PUMPING**

Back to Report Summary

Alternative Fueling Stations (ALTFUELS)

MAP ID# 52 **Distance from Property: 0.172 mi. (908 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **34986**
UNIQUE IDENTIFIER FOR THIS SPECIFIC STATION: **34986**
STATION NAME: **FERRELLGAS**
ADDRESS: **9765 DINO DR**
ELK GROVE, CA 95624
INTERSECTION DIRECTIONS: **NOT REPORTED**
STATION PHONE: **916-685-4611**
STATION CURRENT STATUS: **OPEN: THE STATION IS OPEN.**
TYPE OF ALTERNATIVE FUEL THE STATION PROVIDES: **LIQUEFIED PETROLEUM GAS (PROPANE)**
OWNER TYPE: **PRIVATELY OWNED**
FEDERAL AGANCY ID: **NOT REPORTED**
FEDERAL AGENCY NAME: **NOT REPORTED**
DATE THAT THE STATION BEGAN OFFERING THE FUEL: **NOT REPORTED**
DATE THE STATION'S DETAILS WERE LAST CONFIRMED: **5/4/2017**
TIME THE STATION'S DETAILS WERE LAST UPDATED (ISO 8601 FORMAT).: **2018-01-09 06:41:43 UTC**

Back to Report Summary

MAP ID# 52 **Distance from Property: 0.179 mi. (945 ft.) W**

FACILITY INFORMATION

GLOBAL ID: **T0606720608**
URL LINK: CLICK HERE
BUSINESS NAME: **FERRELL GAS**
ADDRESS: **9765 DINO DRIVE**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341402**
STATUS: **COMPLETED - CASE CLOSED 03/01/2010**
POTENTIAL CONTAMINATION:
TOLUENE, DIESEL
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	**01/01/50**	**LEAK DISCOVERY**
OTHER	**01/01/50**	**LEAK REPORTED**
ENFORCEMENT	**02/26/2010**	**CLOSURE/NO FURTHER ACTION LETTER**
ENFORCEMENT	**09/30/2009**	**FILE REVIEW - CLOSURE**
ENFORCEMENT	**04/01/2009**	**TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER**
RESPONSE	**05/12/2006**	**CORRESPONDENCE**
RESPONSE	**04/13/2005**	**CORRESPONDENCE**
RESPONSE	**10/06/2004**	**SITE ASSESSMENT REPORT**
ENFORCEMENT	**09/17/2004**	**NOTICE OF RESPONSIBILITY**
RESPONSE	**09/16/2004**	**CORRESPONDENCE**
OTHER	**09/08/2004**	**LEAK REPORTED**
OTHER	**01/21/2004**	**LEAK DISCOVERY**

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**03/01/2010**
OPEN - SITE ASSESSMENT	**09/16/2004**
OPEN - CASE BEGIN DATE	**01/21/2004**

CONTACT DETAILS

ORGANIZATION: **SACRAMENTO COUNTY LOP**
ADDRESS: **10590 ARMSTRONG AVENUE, SUITE A**
CITY: **MATHER**
CONTACT NAME: **DAVID VON ASPERN**
CONTACT TYPE: **LOCAL AGENCY CASEWORKER**
CONTACT PHONE: **NOT REPORTED**

EMAIL: **VONASPERND@SACCOUNTY.NET**
ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

Back to Report Summary

MAP ID# 52 **Distance from Property: 0.179 mi. (945 ft.) W**

ELK GROVE GAS AND OIL, 9765 DINO DRIVE, ELK GROVE, CA 95624
UNIQUE ID: **0001FD6E**

*** FOS ***

PAGE 1218 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
ELK GROVE GAS AND OIL
9765 DINO DRIVE ELK GROVE CA 95624

II FACILITY

	MAILING ADDRESS / TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR / TELEPHONE	TYPE OF BUSINESS / NO. OF CONTAINERS
ELK GROVE GAS AND OIL 9765 DINO DRIVE ELK GROVE CA 95624	PO BOX 476 ELK GROVE CA 95624	DONALD J. VENINGA (916) 685-4611	GASOLINE STATION 6

CROSS STREET :
WATERMAN RD.

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: VENINGA, DONALD (916) 685-4611 NIGHT: VENINGA, DONALD (916) 685-6499

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000059220001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: ANDERSON /1982
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 12,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: PREMIUM

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE WRAPPED
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12033 PREMIUM MOTOR VEHICLE FUEL

*** GOS ***

*** G05 ***

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 2 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000059220002 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: ANDERSON /1982
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 12,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE WRAPPED
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12032 REGULAR MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 3 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000059220003 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: ANDERSON /1982
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 12,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE WRAPPED
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

*** M05 ***

*** M05 ***

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 4 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000059220004 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: ANDERSON /1982
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 12,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE WRAPPED
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 5 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000059220005 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: ANDERSON /1982
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 12,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE WRAPPED
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** 105 ***

ELK GROVE GAS AND OIL, 9765 DINO DRIVE, ELK GROVE, CA 95624
UNIQUE ID: **0001FD6E**

*** I05 ***

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MO.OR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

***** OWNER ASSIGNED CONTAINER NUMBER: 6 ********* STATE BOARD ASSIGNED CONTAINER ID NUMBER: 0000X059220006 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: ANDERSON /1982
C. YEAR INSTALLED : 1982
D. CAPACITY (GALLONS) : 12,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 1/4 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE WRAPPED
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : PRESSURE
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 9

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** J05 ***

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 52 **Distance from Property: 0.179 mi. (945 ft.) W**

FACILITY INFORMATION

GLOBAL ID: **T0606720608**
URL LINK: CLICK HERE
BUSINESS NAME: **FERRELL GAS**
ADDRESS: **9765 DINO DRIVE**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341402**
STATUS: **03/01/2010**
POTENTIAL CONTAMINATION:
TOLUENE, DIESEL
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

Sacramento County Toxic Case List (SCTL)

MAP ID# 52 **Distance from Property: 0.179 mi. (945 ft.) W**

SITE INFORMATION

ID#: **RO0001567**
REGIONAL WATER QUALITY BOARD ID: **G071**
NAME: **FERRELL GAS**
ADDRESS: **9765 DINO DR**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **NOT REPORTED**
CASE TYPE: **UNDETERMINED**
SUBSTANCE: **NOT REPORTED**
REMEDIAL ACTION TAKEN: **NO**
CLOSED CASE: **YES**
CLOSED DATE: **03/20/2004**
LEAD AGENCY: **US/COUNTY OF SACRAMENTO**
LEAD STAFF: **VONASPERN, D.**

Back to Report Summary

MAP ID# 52 **Distance from Property: 0.179 mi. (945 ft.) W**

FACILITY INFORMATION

FACILITY #: **59220**
BOE: **44-019466**
NAME: **ELK GROVE GAS AND OIL**
ADDRESS: **9765 DINO DR**
ELK GROVE, CA 95624

STATUS: **INACTIVE**
JURISDICTION: **SACRAMENTO COUNTY**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**

TANK INFORMATION

TANK #: **000001**
INSTALLED: **01-01-82**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **20000**
REMOVED: **04-25-91**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

TANK #: **000002**
INSTALLED: **01-01-82**
TANK USE: **M.V. FUEL**
CONTENT: **LEADED**
CAPACITY: **20000**
REMOVED: **08-13-90**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

TANK #: **000003**
INSTALLED: **01-01-82**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **20000**
REMOVED: **08-13-90**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

TANK #: **000004**
INSTALLED: **01-01-82**
TANK USE: **M.V. FUEL**
CONTENT: **REG UNLEADED**
CAPACITY: **12000**
REMOVED: **08-26-91**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

TANK #: **000005**
INSTALLED: **01-01-82**
TANK USE: **M.V. FUEL**
CONTENT: **DIESEL**
CAPACITY: **20000**
REMOVED: **04-25-91**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

TANK #: **000006**
INSTALLED: **01-01-82**
TANK USE: **M.V. FUEL**
CONTENT: **DIESEL**
CAPACITY: **20000**
REMOVED: **04-25-91**
STORAGE TYPE: **PRODUCT**
CONTAINMENT: **BARE STEEL**

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MAP ID# 52 **Distance from Property: 0.179 mi. (945 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **258185639** FACILITY ID: **FA0044938**

NAME: **INTERSTATE OIL COMPANY**

ADDRESS: **9765 DINO DR**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

FACILITY DETAILS

OTHER FACILITY NAME(S) LISTED FOR THIS SITE: **INTERSTATE OIL COMPANY**

PERMIT AGENCY: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT**

FACILITY DETAILS LINK: *Click Here*

Back to Report Summary

Historical Cortese List (HISTCORTESE)

MAP ID# 53 **Distance from Property: 0.182 mi. (961 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **341197COR**

ID#: **341197**

NAME: **FRED CULLINCINI TRUST**

ADDRESS: **9676 RAILROAD**
ELK GROVE, CA 95624

Back to Report Summary

MAP ID# 54 **Distance from Property: 0.183 mi. (966 ft.) W**

TRANSPORTATION DEPARTMENT, 8800 ELK GROVE BLVD, ELK GROVE, CA 95624
UNIQUE ID: **0001FD72**

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
ELK GROVE UNIFIED SCHOOL DISTR
8800 ELK GROVE BLVD. ELK GROVE CA 95624

II FACILITY

	MAILING ADDRESS	DEALER/FOREMAN/SUPERVISOR	TYPE OF BUSINESS
	TOWNSHIP/RANGE/SECTION	TELEPHONE	NO. OF CONTAINERS
TRANSPORTATION DEPARTMENT			
8800 ELK GROVE BLVD.			
ELK GROVE CA 95624	8800 ELK GROVE BLVD.	CHARLES N. GAGE	SCHOOL
	ELK GROVE CA 95624	(916) 685-9538	5
CROSS STREET : COLTON			

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: GAGE, CHARLES (916) 687-6294 NIGHT: GAGE, CHARLES (916) 687-6294

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000022742001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1968
D. CAPACITY (GALLONS) : 7,500
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: VAULTED
C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

*** AD6 ***

PAGE 1228 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 2 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000022742002 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1968
D. CAPACITY (GALLONS) : 7,500
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: VAULTED C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12032 REGULAR MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 3 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000022742003 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : 1968
D. CAPACITY (GALLONS) : 600
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : NO CONTAINS:

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: VAULTED C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
13 NOT ON LIST

*** B06 ***

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HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SACRAMENTO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 4 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000022742004 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 8,300
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: VAULTED C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

********** OWNER ASSIGNED CONTAINER NUMBER: 5 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000022742005 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : WASTE
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: WASTE OIL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: VAULTED C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12035 WASTE OIL

*** C06 ***

Back to Report Summary

Sacramento County Toxic Case List (SCTL)

MAP ID# 54 **Distance from Property: 0.183 mi. (966 ft.) W**

SITE INFORMATION

ID#: **RO0000371**

REGIONAL WATER QUALITY BOARD ID: **B239**

NAME: **ELK GROVE SCHOOL DISTRICT**

ADDRESS: **8800 ELK GROVE BLVD**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **07/26/1995**

CASE TYPE: **SOIL ONLY AFFECTED**

SUBSTANCE: **DIESEL FUEL OIL AND ADDITIVES, NOS.1-D, 2-D, 2-4**

REMEDIAL ACTION TAKEN: **YES**

CLOSED CASE: **YES**

CLOSED DATE: **04/25/1996**

LEAD AGENCY: **US/COUNTY OF SACRAMENTO**

LEAD STAFF: **MARCUS, B.**

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MAP ID# 54 **Distance from Property: 0.183 mi. (966 ft.) W**

FACILITY INFORMATION

FACILITY #: **22742**
STATUS: **ACTIVE**
BOE: **44-019116**
JURISDICTION: **SACRAMENTO COUNTY**
NAME: **TRANSPORTATION DEPARTMENT**
AGENCY: **ENVIRONMENTAL HEALTH - U.S.T.**
ADDRESS: **8800 ELK GROVE BLVD**
ELK GROVE, CA 95624

TANK INFORMATION

TANK #: **000001**
CAPACITY: **7500**
INSTALLED: **NOT REPORTED**
REMOVED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
STORAGE TYPE: **PRODUCT**
CONTENT: **DIESEL**
CONTAINMENT: **NOT REPORTED**

TANK #: **000002**
CAPACITY: **7500**
INSTALLED: **NOT REPORTED**
REMOVED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
STORAGE TYPE: **PRODUCT**
CONTENT: **LEADED**
CONTAINMENT: **NOT REPORTED**

TANK #: **000003**
CAPACITY: **600**
INSTALLED: **NOT REPORTED**
REMOVED: **NOT REPORTED**
TANK USE: **UNKNOWN**
STORAGE TYPE: **PRODUCT**
CONTENT: **NOT REPORTED**
CONTAINMENT: **NOT REPORTED**

TANK #: **000004**
CAPACITY: **8300**
INSTALLED: **NOT REPORTED**
REMOVED: **NOT REPORTED**
TANK USE: **M.V. FUEL**
STORAGE TYPE: **PRODUCT**
CONTENT: **REG UNLEADED**
CONTAINMENT: **NOT REPORTED**

TANK #: **000005**
CAPACITY: **1000**
INSTALLED: **NOT REPORTED**
REMOVED: **NOT REPORTED**
TANK USE: **OIL**
STORAGE TYPE: **WASTE**
CONTENT: **WASTE OIL**
CONTAINMENT: **NOT REPORTED**

Back to Report Summary

MAP ID# 54 **Distance from Property: 0.183 mi. (966 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **1310433278** FACILITY ID: **FA0008862**

NAME: **ELK GROVE UNIFIED SCHOOL DISTRICT**

ADDRESS: **8800 ELK GROVE BLVD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

FACILITY DETAILS

OTHER FACILITY NAME(S) LISTED FOR THIS SITE: **ELK GROVE UNIFIED SCHOOL DISTRICT**

PERMIT AGENCY: **SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT**

FACILITY DETAILS LINK: *Click Here*

Back to Report Summary

GeoTracker Cleanup Sites (CLEANUPSITES)

MAP ID# 55 **Distance from Property: 0.184 mi. (972 ft.) S**

FACILITY INFORMATION

GLOBAL ID: **T0606700860**
URL LINK: CLICK HERE
BUSINESS NAME: **CRUMP RESIDENCE**
ADDRESS: **9674 KENT ST**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341032**
STATUS: **COMPLETED - CASE CLOSED 03/12/1998**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

REGULATORY ACTIVITIES

TYPE OF ACTION:	DATE:	ACTION:
OTHER	**01/01/50**	**LEAK DISCOVERY**
OTHER	**01/01/50**	**LEAK REPORTED**
OTHER	**03/28/1995**	**LEAK DISCOVERY**
OTHER	**01/02/1965**	**LEAK REPORTED**

STATUS HISTORY

STATUS:	DATE:
COMPLETED - CASE CLOSED	**03/12/1998**
OPEN - CASE BEGIN DATE	**03/28/1995**
OPEN - SITE ASSESSMENT	**03/28/1995**

CONTACT DETAILS

ORGANIZATION: **CENTRAL VALLEY RWQCB (REGION 5S)**
ADDRESS: **11020 SUN CENTER DRIVE #200**
CITY: **RANCHO CORDOVA**
CONTACT NAME: **VERA FISCHER**
CONTACT TYPE: **REGIONAL BOARD CASEWORKER**
CONTACT PHONE: **NOT REPORTED**
EMAIL: **VERA.FISCHER@WATERBOARDS.CA.GOV**

Back to Report Summary

Historical Cortese List (HISTCORTESE)

MAP ID# 55 **Distance from Property: 0.184 mi. (972 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **341032COR**

ID#: **341032**

NAME: **CRUMP RESIDENCE**

ADDRESS: **9674 KENT**
ELK GROVE, CA 95624

Back to Report Summary

MAP ID# 55 **Distance from Property: 0.184 mi. (972 ft.) S**

FACILITY INFORMATION

GLOBAL ID: **T0606700860**
URL LINK: CLICK HERE
BUSINESS NAME: **CRUMP RESIDENCE**
ADDRESS: **9674 KENT ST**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**

FACILITY DETAILS

CASE TYPE: **LUST CLEANUP SITE**
CASE NUMBER: **341032**
STATUS: **03/12/1998**
POTENTIAL CONTAMINATION:
GASOLINE
POTENTIAL MEDIA AFFECTED:
SOIL
SITE HISTORY:
NOT REPORTED

HISTORICAL FACILITY DETAILS

NO HISTORICAL DETAIL(S) INFORMATION REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 55 **Distance from Property: 0.184 mi. (972 ft.) S**

SITE INFORMATION

ID#: **RO0000683**

REGIONAL WATER QUALITY BOARD ID: **C563**

NAME: **CRUMP RESIDENCE**

ADDRESS: **9674 KENT ST**
ELK GROVE, CA

SITE DETAILS

REPORT DATE: **03/28/1995**

CASE TYPE: **SOIL ONLY AFFECTED**

SUBSTANCE: **GASOLINE-AUTOMOTIVE (MOTOR GASOLINE AND ADDITIVES), LEADED & UNLEADED**

REMEDIAL ACTION TAKEN: **NO**

CLOSED CASE: **YES**

CLOSED DATE: **03/12/1998**

LEAD AGENCY: **US/COUNTY OF SACRAMENTO**

LEAD STAFF: **MARCUS, B.**

Back to Report Summary

MAP ID# 56 **Distance from Property: 0.186 mi. (982 ft.) SW**

SITE INFORMATION

ID #: **34010005** ASSESSOR'S PARCEL #: **NONE SPECIFIED**

URL LINK: CLICK HERE

NAME: **ELEMENTARY SCHOOL NO. 31**

ADDRESS: **BOTHWELL DRIVE/VINTAGE PARK DRIVE**
ELK GROVE, CA 95758

COUNTY: **SACRAMENTO**

SITE SIZE (ACRES): **10**

LEAD AGENCY: **SMBRP**

DTSC PROJECT MANAGER: **NOT REPORTED**

DTSC SUPERVISOR: **MARK MALINOWSKI**

DTSC DIVISION BRANCH: **NORTHERN CALIFORNIA SCHOOLS & SANTA SUSANA**

NPL LISTED: **NO** RESTRICTED LAND USE: **NO**

SITE TYPE: **SCHOOL INVESTIGATION**

SITE TYPE DESCRIPTION

SCHOOL: IDENTIFIES PROPOSED AND EXISTING SCHOOL SITES THAT ARE BEING EVALUATED BY DTSC FOR POSSIBLE HAZARDOUS MATERIALS CONTAMINATION. SCHOOL SITES ARE FURTHER DEFINED AS "CLEANUP" (REMEDIAL ACTIONS OCCURRED) OR "EVALUATION" (NO REMEDIAL ACTION OCCURRED) BASED ON COMPLETED ACTIVITIES. ALL PROPOSED SCHOOL SITES THAT WILL RECEIVE STATE FUNDING FOR ACQUISITION OR CONSTRUCTION ARE REQUIRED TO GO THROUGH A RIGOROUS ENVIRONMENTAL REVIEW AND CLEANUP PROCESS UNDER DTSC'S OVERSIGHT.

DTSC's CURRENT INVOLVEMENT AT SITE (as of 02/29/2000)

NO ACTION REQUIRED - IDENTIFIES SITES WHERE A PHASE I ENVIRONMENTAL ASSESSMENT WAS COMPLETED AND RESULTED IN A NO ACTION REQUIRED DETERMINATION

PAST USE/S THAT CAUSED THE CONTAMINATION

AGRICULTURAL - ROW CROPS

CONFIRMED CONTAMINANTS OF CONCERN

NONESPECIFIED - NONE SPECIFIED

Back to Report Summary

Historical Cortese List (HISTCORTESE)

MAP ID# 57 **Distance from Property: 0.193 mi. (1,019 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **340649COR**

ID#: **340649**

NAME: **ELK GROVE UNIFIED SCHOOL**

ADDRESS: **8820/8800 ELK GROVE BLVD**
ELK GROVE, CA 95624

Back to Report Summary

Above Ground Storage Tanks (ABST)

MAP ID# 58 **Distance from Property: 0.196 mi. (1,035 ft.) SW**

FACILITY INFORMATION

GEOSEARCH ID: **38390**

SITE ID: **38390**

FACILITY NAME: **INTERNATIONAL PAPER CO**

ADDRESS: **10268 WATERMAN RD**
ELK GROVE, CA 95624-9403

COUNTY: **NOT REPORTED**

FACILITY DETAILS

EI ID: **10222717**

EI DESCRIPTION: **ABOVEGROUND PETROLEUM STORAGE**

Back to Report Summary

Mineral Resource Data System (MRDS)

MAP ID# 59 **Distance from Property: 0.224 mi. (1,183 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **10077181**
DEP ID: **10077181**
MINE NAME: **SACRAMENTO COUNTY PIT**
ADDRESS: **SACRAMENTO COUNTY**
ELK GROVE, CA 95624
DEVELOPMENT STATUS: **PRODUCER**

COMMODITY DETAILS

COMMODITY: **STONE, CRUSHED/BROKEN**
COMMODITY TYPE: **NON-METALLIC**
COMMODITY GROUP: **STONE, CRUSHED**
IMPORTANCE: **PRIMARY**

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: **SACRAMENTO COUNTY PIT**
STATUS: **CURRENT**

Back to Report Summary

Mineral Resource Data System (MRDS)

MAP ID# 59 **Distance from Property: 0.225 mi. (1,188 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **10188743**
DEP ID: **10188743**
MINE NAME: **SACRAMENTO COUNTY PIT**
ADDRESS: **SACRAMENTO COUNTY**
ELK GROVE, CA 95624
DEVELOPMENT STATUS: **PAST PRODUCER**

COMMODITY DETAILS

COMMODITY: **STONE, CRUSHED/BROKEN**
COMMODITY TYPE: **NON-METALLIC**
COMMODITY GROUP: **STONE, CRUSHED**
IMPORTANCE: **PRIMARY**

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: **SACRAMENTO COUNTY PIT**
STATUS: **CURRENT**

Back to Report Summary

Dry Cleaner Facilities (CLEANER)

MAP ID# 60 **Distance from Property: 0.225 mi. (1,188 ft.) W**

FACILITY INFORMATION

GEOSEARCH ID: **CAL000252808**
PERMIT ID: **CAL000252808**
FACILITY NAME: **B A F O INDUSTRIES INC DBA KIRKLAND & SON**
ADDRESS: **9874 DINO DR STE 1**
ELK GROVE, CA 95624
COUNTY: **SACRAMENTO**
STATUS: **INACTIVE**
URL LINK: CLICK HERE

FACILITY DETAILS

SIC CODE: **7219**
SIC DESCRIPTION: **LAUNDRY AND GARMENT SERVICES, NOT ELSEWHERE CLASSIFIED**
NAICS CODE: **NOT REPORTED**
SIC DESCRIPTION: **NOT REPORTED**

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Recycling Centers (SWRCY)

MAP ID# 61 **Distance from Property: 0.258 mi. (1,362 ft.) W**

SITE INFORMATION

ID #: **RC140026.001**
NAME: **J A RECYCLING CENTER**
ADDRESS: **9833 KENT ST**
CITY: **ELK GROVE**
STATE: **CA**
ZIP: **95624**
COUNTY: **SACRAMENTO**

SITE DETAILS

OPERATION BEGIN DATE: **04/11/11**
OPERATION END DATE: **NOT REPORTED**
PROGRAM PHONE: **(916) 690-8833**
ORGANIZATION NAME: **J A RECYCLING CENTER**
ADDRESS: **3431 33RD AVE UNIT F**
SACRAMENTO CA 95824
GLASS: **ACCEPTED**
ALUMINIUM: **ACCEPTED**
PLASTIC: **ACCEPTED**
BIMETAL: **ACCEPTED**

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Recycling Centers (SWRCY)

MAP ID# 61 **Distance from Property: 0.258 mi. (1,362 ft.) W**

SITE INFORMATION

ID #: **RC182242.001**
NAME: **VALDEZ RECYCLING**
ADDRESS: **9833 KENT ST**
CITY: **ELK GROVE**
STATE: **CA**
ZIP: **95624**
COUNTY: **SACRAMENTO**

SITE DETAILS

OPERATION BEGIN DATE: **08/01/2013**
OPERATION END DATE: **NOT REPORTED**
PROGRAM PHONE: **(916) 254-8212**
ORGANIZATION NAME: **VALDEZ RECYCLING**
ADDRESS: **5657 LAURINE WAY**
SACRAMENTO CA 95824
GLASS: **ACCEPTED**
ALUMINIUM: **ACCEPTED**
PLASTIC: **ACCEPTED**
BIMETAL: **ACCEPTED**

Back to Report Summary

Recycling Centers (SWRCY)

MAP ID# 62 **Distance from Property: 0.296 mi. (1,563 ft.) W**

SITE INFORMATION

ID #: **RC6415**
NAME: **NEXCYCLE**
ADDRESS: **8787 ELK GROVE BLVD**
CITY: **ELK GROVE**
STATE: **CA**
ZIP: **95624**
COUNTY: **SACRAMENTO**

SITE DETAILS

OPERATION BEGIN DATE: **05/12/95**
OPERATION END DATE: **11/17/09**
PROGRAM PHONE: **(909) 796-2210**
ORGANIZATION NAME: **NOT REPORTED**
ADDRESS: **STREET NOT REPORTED**
CITY NOT REPORTED
GLASS: **NOT ACCEPTED**
ALUMINIUM: **NOT ACCEPTED**
PLASTIC: **NOT ACCEPTED**
BIMETAL: **NOT ACCEPTED**

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Listing of Certified Dropoff, Collection, and Community Service Programs (DROP)

MAP ID# 63 **Distance from Property: 0.384 mi. (2,028 ft.) N**

SITE INFORMATION

ID #: **DP0382**
NAME: **OMOCHUMNES HIGH SCHOOL**
ADDRESS: **9484 ELK GROVE-FLORIN RD**
CITY: **ELK GROVE**
STATE: **CA**
ZIP: **95624**
COUNTY: **SACRAMENTO**

SITE DETAILS

OPERATION BEGIN DATE: **06/06/90**
OPERATION END DATE: **08/23/91**
PROGRAM PHONE: **(916) 686-7720**
ORGANIZATION NAME: **NOT REPORTED**
ADDRESS: **STREET NOT REPORTED**
CITY NOT REPORTED
GLASS: **ACCEPTED**
ALUMINIUM: **ACCEPTED**
PLASTIC: **NOT ACCEPTED**
BIMETAL: **NOT ACCEPTED**

Back to Report Summary

MAP ID# 64 **Distance from Property: 0.44 mi. (2,323 ft.) N**

SITE INFORMATION

ID #: **34020001** ASSESSOR'S PARCEL #: **NONE SPECIFIED**

URL LINK: CLICK HERE

NAME: **EDNA BATEY ELEMENTARY**

ADDRESS: **BRADSHAW ROAD/ELK GROVE BOULEVARD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

SITE SIZE (ACRES): **10**

LEAD AGENCY: **SMBRP**

DTSC PROJECT MANAGER: **NOT REPORTED**

DTSC SUPERVISOR: **MARK MALINOWSKI**

DTSC DIVISION BRANCH: **NORTHERN CALIFORNIA SCHOOLS & SANTA SUSANA**

NPL LISTED: **NO** RESTRICTED LAND USE: **NO**

SITE TYPE: **SCHOOL INVESTIGATION**

SITE TYPE DESCRIPTION

SCHOOL: IDENTIFIES PROPOSED AND EXISTING SCHOOL SITES THAT ARE BEING EVALUATED BY DTSC FOR POSSIBLE HAZARDOUS MATERIALS CONTAMINATION. SCHOOL SITES ARE FURTHER DEFINED AS "CLEANUP" (REMEDIAL ACTIONS OCCURRED) OR "EVALUATION" (NO REMEDIAL ACTION OCCURRED) BASED ON COMPLETED ACTIVITIES. ALL PROPOSED SCHOOL SITES THAT WILL RECEIVE STATE FUNDING FOR ACQUISITION OR CONSTRUCTION ARE REQUIRED TO GO THROUGH A RIGOROUS ENVIRONMENTAL REVIEW AND CLEANUP PROCESS UNDER DTSC'S OVERSIGHT.

DTSC's CURRENT INVOLVEMENT AT SITE (as of 04/10/2000)

NO ACTION REQUIRED - IDENTIFIES SITES WHERE A PHASE I ENVIRONMENTAL ASSESSMENT WAS COMPLETED AND RESULTED IN A NO ACTION REQUIRED DETERMINATION

PAST USE/S THAT CAUSED THE CONTAMINATION

AGRICULTURAL - LIVESTOCK

CONFIRMED CONTAMINANTS OF CONCERN

NONESPECIFIED - NONE SPECIFIED

Back to Report Summary

MAP ID# 65 **Distance from Property: 0.505 mi. (2,666 ft.) E**

SITE INFORMATION

ID #: **80000390** ASSESSOR'S PARCEL #: **NONE SPECIFIED**

URL LINK: CLICK HERE

NAME: **ELK GROVE (J09CA0797)**

ADDRESS: **NOT REPORTED**
ELK GROVE, CA

COUNTY: **SACRAMENTO**

SITE SIZE (ACRES): **167.4**

LEAD AGENCY: **SMBRP**

DTSC PROJECT MANAGER: **NOT REPORTED**

DTSC SUPERVISOR: **CARRIE TATOIAN-CAIN**

DTSC DIVISION BRANCH: **CLEANUP SACRAMENTO**

NPL LISTED: **NO** RESTRICTED LAND USE: **NO**

SITE TYPE: **MILITARY EVALUATION**

SITE TYPE DESCRIPTION

EVALUATION: IDENTIFIES SUSPECTED, BUT UNCONFIRMED, CONTAMINATED SITES THAT NEED OR HAVE GONE THROUGH AN INVESTIGATION AND ASSESSMENT PROCESS. IF A SITE IS FOUND TO HAVE CONFIRMED CONTAMINATION, IT WILL CHANGE FROM EVALUATION TO EITHER A STATE RESPONSE OR VOLUNTARY CLEANUP SITE TYPE. SITES FOUND TO HAVE NO CONTAMINATION AT THE COMPLETION OF THE INVESTIGATION AND ASSESSMENT PROCESS RESULT IN A NO ACTION REQUIRED (FOR PHASE 1 ASSESSMENTS) OR NO FURTHER ACTION (FOR PHASE 2 ASSESSMENTS) DETERMINATION.

DTSC's CURRENT INVOLVEMENT AT SITE (as of 11/04/2013)

NO FURTHER ACTION - IDENTIFIES COMPLETED SITES WHERE DTSC DETERMINED AFTER INVESTIGATION, GENERALLY A PEA (AN INITIAL ASSESSMENT), THAT THE PROPERTY DOES NOT POSE A PROBLEM TO PUBLIC HEALTH OR THE ENVIRONMENT

PAST USE/S THAT CAUSED THE CONTAMINATION

NONE SPECIFIED

CONFIRMED CONTAMINANTS OF CONCERN

NONESPECIFIED - NONE SPECIFIED

Back to Report Summary

MAP ID# 66 **Distance from Property: 0.606 mi. (3,200 ft.) WSW**

SITE INFORMATION

ID #: **60001558** ASSESSOR'S PARCEL #: **NONE SPECIFIED**

URL LINK: CLICK HERE

NAME: **GEORGIA-PACIFIC CHEMICALS**

ADDRESS: **10399 E. STOCKTON BLVD.**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

SITE SIZE (ACRES): **26**

LEAD AGENCY: **SMBRP**

DTSC PROJECT MANAGER: **TAMI TREARSE**

DTSC SUPERVISOR: **FERNANDO A. AMADOR**

DTSC DIVISION BRANCH: **CLEANUP SACRAMENTO**

NPL LISTED: **NO** RESTRICTED LAND USE: **NO**

SITE TYPE: **VOLUNTARY CLEANUP**

SITE TYPE DESCRIPTION

VOLUNTARY CLEANUP: IDENTIFIES SITES WITH EITHER CONFIRMED OR UNCONFIRMED RELEASES, AND THE PROJECT PROPONENTS HAVE REQUESTED THAT DTSC OVERSEE EVALUATION, INVESTIGATION, AND/OR CLEANUP ACTIVITIES AND HAVE AGREED TO PROVIDE COVERAGE FOR DTSC'S COSTS.

DTSC's CURRENT INVOLVEMENT AT SITE (as of 07/23/2013)

NO FURTHER ACTION - IDENTIFIES COMPLETED SITES WHERE DTSC DETERMINED AFTER INVESTIGATION, GENERALLY A PEA (AN INITIAL ASSESSMENT), THAT THE PROPERTY DOES NOT POSE A PROBLEM TO PUBLIC HEALTH OR THE ENVIRONMENT

PAST USE/S THAT CAUSED THE CONTAMINATION

ABOVE GROUND STORAGE TANKS, MANUFACTURING - CHEMICALS

CONFIRMED CONTAMINANTS OF CONCERN

30013 - LEAD

30024 - TPH-DIESEL

30451 - PHENOL

30593 - XYLENES

Back to Report Summary

MAP ID# 67 **Distance from Property: 0.617 mi. (3,258 ft.) SW**

SITE INFORMATION

ID #: **71002963** ASSESSOR'S PARCEL #: **NONE SPECIFIED**

URL LINK: CLICK HERE

NAME: **PROTO-TECH IND, INC.**

ADDRESS: **9181 CMD CT #A**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

SITE SIZE (ACRES): **NOT REPORTED**

LEAD AGENCY: **NONE SPECIFIED**

DTSC PROJECT MANAGER: **NOT REPORTED**

DTSC SUPERVISOR: **NOT REPORTED**

DTSC DIVISION BRANCH: **CLEANUP SACRAMENTO**

NPL LISTED: **NO** RESTRICTED LAND USE: **NO**

SITE TYPE: **TIERED PERMIT**

SITE TYPE DESCRIPTION

NOT REPORTED

DTSC's CURRENT INVOLVEMENT AT SITE (as of)

INACTIVE - NEEDS EVALUATION - IDENTIFIES NON-ACTIVE SITES WHERE DTSC HAS DETERMINED A PEA OR OTHER EVALUATION IS REQUIRED

PAST USE/S THAT CAUSED THE CONTAMINATION

NONE SPECIFIED

CONFIRMED CONTAMINANTS OF CONCERN

NONESPECIFIED - NONE SPECIFIED

Back to Report Summary

MAP ID# 68 **Distance from Property: 0.772 mi. (4,076 ft.) E**

SITE INFORMATION

ID #: **34020002** ASSESSOR'S PARCEL #: **NONE SPECIFIED**

URL LINK: CLICK HERE

NAME: **PLEASANT GROVE HI/KATHERINE ALBIANI MID**

ADDRESS: **BOND ROAD/BRADSHAW ROAD**
ELK GROVE, CA 95624

COUNTY: **SACRAMENTO**

SITE SIZE (ACRES): **107**

LEAD AGENCY: **SMBRP**

DTSC PROJECT MANAGER: **KAMILI SIGLOWIDE**

DTSC SUPERVISOR: **JOSE SALCEDO**

DTSC DIVISION BRANCH: **NORTHERN CALIFORNIA SCHOOLS & SANTA SUSANA**

NPL LISTED: **NO** RESTRICTED LAND USE: **NO**

SITE TYPE: **SCHOOL CLEANUP**

SITE TYPE DESCRIPTION

SCHOOL: IDENTIFIES PROPOSED AND EXISTING SCHOOL SITES THAT ARE BEING EVALUATED BY DTSC FOR POSSIBLE HAZARDOUS MATERIALS CONTAMINATION. SCHOOL SITES ARE FURTHER DEFINED AS "CLEANUP" (REMEDIAL ACTIONS OCCURRED) OR "EVALUATION" (NO REMEDIAL ACTION OCCURRED) BASED ON COMPLETED ACTIVITIES. ALL PROPOSED SCHOOL SITES THAT WILL RECEIVE STATE FUNDING FOR ACQUISITION OR CONSTRUCTION ARE REQUIRED TO GO THROUGH A RIGOROUS ENVIRONMENTAL REVIEW AND CLEANUP PROCESS UNDER DTSC'S OVERSIGHT.

DTSC's CURRENT INVOLVEMENT AT SITE (as of 11/07/2003)

CERTIFIED - IDENTIFIES COMPLETED SITES WITH PREVIOUSLY CONFIRMED RELEASE THAT ARE SUBSEQUENTLY CERTIFIED BY DTSC AS HAVING BEEN REMEDIATED SATISFACTORILY UNDER DTSC OVERSIGHT

PAST USE/S THAT CAUSED THE CONTAMINATION

AGRICULTURAL - LIVESTOCK

CONFIRMED CONTAMINANTS OF CONCERN

30013 - LEAD

30018 - POLYCHLORINATED BIPHENYLS (PCBS)

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Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

Database Name	Site ID#	Site Name	Address	City/State/Zip/County
CHMIRS	01-0705		ELK GROVE BLVD	ELK GROVE
ERNSCA	502733		ELK GROVE BLVD DOT:752748K	ELK GROVE, CA SACRAMENTO
HISTUST	0001FD4C	QSL-RMLR	NONE ELK GROVE	ELK GROVE 95624 Sacramento
SWEEPS	A34-000-57143	QSL - RMLR	ELK GROVE	ELK GROVE, CA 95624

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/11

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 07/01/16

The U.S. Department of Justice ("the Department") provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR09 Enforcement and Compliance History Information

VERSION DATE: 08/26/17

The EPA's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSCA Emergency Response Notification System

VERSION DATE: 04/29/18

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSCA Facility Registry System

VERSION DATE: 04/17/18

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR09 Hazardous Materials Incident Reporting System

VERSION DATE: 03/27/18

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 9. This region includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/23/17

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements.

NPDESR09 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from December 2002 until April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data.This database includes permitted facilities located in EPA Region 9. This region includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

PADS PCB Activity Database System

VERSION DATE: 07/18/17

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are

required to notify the EPA of such activities.

PCSR09 Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 9. This region includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC RCRA Sites with Controls

VERSION DATE: 03/21/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

SEMSLIENS SEMS Lien on Property

VERSION DATE: 04/11/18

The U.S. Environmental Protections Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete.

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/16

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

RCRAGR09 Resource Conservation & Recovery Act - Generator

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA Region 9 includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

RCRANGR09 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 9 includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

ALTFUELS Alternative Fueling Stations

VERSION DATE: 01/22/18

Nationwide list of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

FEMAUST FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

HISTPST Historical Gas Stations

VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

ICISCLEANERS Integrated Compliance Information System Drycleaners

VERSION DATE: 09/23/17

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 09/01/17

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 03/26/18

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 04/11/18

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 03/01/18

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An “open dump” is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 04/11/18

The U.S. Environmental Protections Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 04/11/18

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflect sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 08/25/17

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

The U.S. DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 03/01/18

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites.
During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPL National Priorities List

VERSION DATE: 04/11/18

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 04/11/18

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

RCRASUBC Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RODS Record of Decision System

VERSION DATE: 12/11/17

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

CDL Clandestine Drug Labs

VERSION DATE: 12/31/17

The California Department of Toxic Substance Control (DTSC) provides this listing of illegal drug laboratories. Pursuant to Section 25354.5 of the California Health and Safety Code, DTSC conducts emergency removal actions at clandestine drug labs at the request of State and local law enforcement agencies. DTSC's contractors typically remove hazardous substances that may pose an immediate threat to public health and the environment while the enforcement officials are on scene. During the emergency removal actions, contractors remove and properly dispose of contaminated lab equipment, chemicals used to make the illegal drugs (usually methamphetamine), lab chemical wastes, and other grossly contaminated materials. DTSC does not perform additional assessment work beyond standard emergency removal actions and makes no further determination regarding the need for future cleanup work at the emergency removal location. The reported location information may or may not include the actual location of the illegal drug lab. The DTSC does not guarantee the accuracy of the address or location information or the condition of the location listed.

CHMIRS California Hazardous Material Incident Report System

VERSION DATE: 04/06/18

The California Hazardous Material Incident Report System database is provided by the California Emergency Management Agency. This database contains accidental or spill release information from reported hazardous material incidents since 1993.

DTSCDR DTSC Deed Restrictions

VERSION DATE: 04/16/18

The California Department of Toxic Substances Control (DTSC) maintains this listing of sites with deed restrictions. According to the DTSC, restricted land use indicates whether the site or area within the site has an environmental restriction recorded and/or other institutional control preventing certain types of land use or activities. The land use restrictions listed under the site management requirements are only an abbreviated summary of the land use restrictions, and may not encompass all restrictions and notification requirements placed on a property. For complete land use restriction information please contact the DTSC to review associated Land Use Restriction documents.

EMI Emissions Inventory Data

VERSION DATE: 12/31/15

The Air Resources Board's Emissions Inventory Database contains criteria pollutant data and toxic data on facilities throughout the state of California for the 2012-2000 inventory years.

HWTS Hazardous Waste Tanner Summary

VERSION DATE: 12/31/16

This data is prepared from information extracted from copies of hazardous waste manifests received each year by the Department of Toxic Substances Control. The Hazardous Waste Summary Report (Tanner Report) currently includes manifest data from the 1993 through the 2016 reporting years.

LDS Land Disposal Sites

VERSION DATE: 04/16/18

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

LIENS Recorded Environmental Cleanup Liens

VERSION DATE: 05/17/18

The California Department of Toxic Substance Control (DTSC) maintains this listing of liens placed upon real properties. A lien is utilized by the DTSC to obtain reimbursement from responsible parties for costs associated with the remediation of contaminated properties.

MCS Military Cleanup Sites

VERSION DATE: 04/16/18

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater

NPDES National Pollutant Discharge Elimination System Facilities

VERSION DATE: 06/04/18

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

ABST Above Ground Storage Tanks

VERSION DATE: 03/22/18

This database, provided by the California Environmental Protection Agency's (CalEPA) Regulated Site Portal, contains aboveground petroleum storage tank facilities originating from the California Environmental Reporting System (CERS). These facilities store petroleum in aboveground storage tanks with oversight by local agencies. As of January 1, 2008, Assembly Bill No. 1130 of the Aboveground Petroleum Storage Act (APSA) authorized the Certified Unified Program Agencies to implement and administer the requirements of the APSA. CalEPA Data Disclaimer: Information displayed in the portal is collected from separate agency databases and displayed unaltered. Information that is considered confidential, trade secret, or is otherwise protected by the agency that

manages the database is not loaded into the portal. For more detail about information displayed in the portal, please visit the data source sites. Please refer to AST2007 database for aboveground storage tank information obtained from the California State Water Resources Control Board prior to 2008 APSA requirements.

AST2007 Aboveground Storage Tanks Prior to January 2008

VERSION DATE: 12/01/07

This database contains aboveground storage tank facilities registered with the California State Water Resources Control Board (SWRCB) between 2007 and 2003. Since 2006, tanks were required to contain a minimum (even as cumulative) of 1320 gallons to be in the program. As of January 1, 2008, the SWRCB no longer maintains a list of registered aboveground storage tanks, due to effective Assembly Bill No. 1130 (Laird) of the Aboveground Petroleum Storage Act (APSA). This Bill authorized the Certified Unified Program Agencies to implement and administer the requirements of the APSA. Please refer to ABST database as a current source for aboveground petroleum storage tank data.

CLEANER Dry Cleaner Facilities

VERSION DATE: 03/13/18

This database, created by accessing the California Department of Toxic Substances Control's (DTSC) Hazardous Waste Tracking System, includes dry cleaner facilities that have registered EPA identification numbers. These facilities are categorized with one of the following NAICS Codes: 81231 or 81232. This database may also include facilities other than dry cleaners who also register with these same NAICS Codes. Not all companies report their NAICS/SIC Codes to the DTSC and therefore this database may exclude registered dry cleaner facilities with incomplete classification information.

DTSCHWT DTSC Registered Hazardous Waste Transporters

VERSION DATE: 04/30/18

The Department of Toxic Substances Control provides this list of Registered Hazardous Waste Transporters.

HISTUST Historical Underground Storage Tanks

VERSION DATE: 12/31/87

The Hazardous Substance Storage Container Database is a historical list of Underground Storage Tank sites, compiled from tank survey and registration information collected at one time between 1984 and 1987 by the State Water Resources Control Board. The hazardous substances stored within these tanks includes, but not restricted to, petroleum products, industrial solvents, and other materials.

MINES Mines Listing

VERSION DATE: 05/06/18

This database includes mine site locations from the California Office of Mine Reclamation.

MWMP California Medical Waste Management Program Facility List

VERSION DATE: 04/13/18

To protect the public and the environment from potential infectious exposure to disease causing agents, the Medical Waste Management Program (MWMP), in the Environmental Management Branch of the California Department of Public Health, regulates the generation, handling, storage, treatment, and disposal of medical waste by providing oversight for the implementation of the Medical Waste Management Act (MWMA). The MWMP permits and inspects all medical waste off-site treatment facilities, medical waste transporters, and medical waste transfer stations.

SLIC Spills, Leaks, Investigation & Cleanup Recovery Listing

VERSION DATE: 06/16/08

These records are maintained by the California Regional Water Quality Control Board (RWQCB). This list includes contaminated sites that impact groundwater or have the potential to impact ground water. Please refer to CLEANUPSITES database as source of current data.

SWEEPS Statewide Environmental Evaluation and Planning System

VERSION DATE: 10/01/94

The Statewide Environmental Evaluation and Planning System (SWEEPS) contains a historical listing of active and inactive underground storage tank locations from the State Water Resources Control Board. The hazardous substances stored within these tanks includes, but not restricted to, petroleum products, industrial solvents, and other materials. Refer to CUPA listing for source of current data.

USTCUPA Underground Storage Tanks

VERSION DATE: 05/06/18

An underground storage tank is an individual tank or group of tanks that store hazardous substances. Underground storage tanks are completely or considerably below the ground surface. This database contains UST permit data submitted from the Certified Unified Program Agencies (CUPA) directly to the State Water Resources Control Board. CUPA's are local agencies that have been certified by the California EPA to implement state environmental programs within the local agency's jurisdiction.

BF Brownfield Sites

VERSION DATE: 06/03/18

This database includes Brownfield sites from the State Water Resources Control Board. These are sites that have gone through the Moratorium of Agreement (MOA) process.

Environmental Records Definitions - STATE (CA)

CALSITES CALSITES Database

VERSION DATE: 05/01/04

This historical database was maintained by the Department of Toxic Substance Control for more than a decade. CALSITES contains information on Brownfield properties with confirmed or potential hazardous contamination. In 2006, DTSC introduced EnviroStor as the latest Brownfields site database.

CLEANUPSITES GeoTracker Cleanup Sites

VERSION DATE: 04/16/18

This GeoTracker Cleanup Sites database is maintained by the California Regional Water Quality Control Board (RWQCB). The database contains contaminated sites that impact groundwater or have the potential to impact ground water, including spills, investigations, cleanup recoveries and reported leaking underground storage tank incidents.

CORTESE Cortese List

VERSION DATE: 05/06/18

This active listing includes hazardous waste and substances sites designated by the State Water Resources Control Board , the Integrated Waste Board, and the Department of Toxic Substance Control. The Cortese List is utilized by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites.

DROP Listing of Certified Dropoff, Collection, and Community Service Programs

VERSION DATE: 04/30/18

Listing of Certified Dropoff, Collection, and Community Service Programs (non-buyback) operating under the state of California's Beverage Container Recycling Program. This list is maintained by the Department of Conservation.

ERAP Expedited Removal Action Program Sites

VERSION DATE: 01/29/18

The Expedited Remedial Action Program is a pilot project administered by the Department of Toxic Substances Control's Site Mitigation and Brownfields Reuse Program to promote the cleanup of up to 30 hazardous substance release sites. ERAP provides significant incentives for redevelopment of contaminated properties by promoting cleanups based on the planned land use, by providing a covenant not to sue, and by outlining a fair and equitable liability scheme.

HISTCORTESE Historical Cortese List

VERSION DATE: 11/02/02

Environmental Records Definitions - STATE (CA)

This historical listing includes hazardous waste and substances sites designated by the State Water Resources Control Board, the Integrated Waste Board, and the Department of Toxic Substance Control. The Cortese List was utilized by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites. See CACORTESE for an updated version of this database.

LUST Leaking Underground Storage Tanks

VERSION DATE: 04/16/18

This database is maintained by the State Water Resources Control Board. LUST records contain an inventory of reported leaking underground storage tank incidents. Please refer to the CLEANUPSITES database as source of current data.

NFA No Further Action Determination

VERSION DATE: 07/01/05

The NFA listing contains properties at which the Department of Toxic Substance Control has made a clear determination that the property does not pose a problem to the environment or to public health.

NFE Sites Needing Further Evaluation

VERSION DATE: 07/01/05

The NFE listing contains properties that the Department of Toxic Substance Control suspects with possible contamination. These are unconfirmed contaminated properties that need further assessment.

PROC Listing of Certified Processors

VERSION DATE: 05/15/18

Listing of Certified Processors that are operating under the state of California's Beverage Container Recycling Program. This list is maintained by the Department of Conservation.

REF Referred to Another Local or State Agency

VERSION DATE: 07/01/05

The REF listing contains properties where contamination has not been confirmed and which were determined as not requiring direct Department of Toxic Substance Control Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another state or local regulatory agency.

SWIS Solid Waste Information System Sites

VERSION DATE: 04/18/18

The Solid Waste Information System (SWIS) database includes information on solid waste facilities, operations, and disposal sites located in California. This database is maintained by the California Department of Resources Recycling and Recovery.

SWRCY Recycling Centers

VERSION DATE: 05/17/18

Listing of Certified Recycling Centers that are operating under the state of California's Beverage Container Recycling Program. This list is maintained by the Department of Conservation.

VCP Voluntary Cleanup Program

VERSION DATE: 04/23/18

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

WMUDS Waste Management Unit Database

VERSION DATE: 01/01/00

The Waste Management Unit Database System tracks and inventories waste management units. CCR Title 27 contains criteria stating that Waste Management Units are classified according to their ability to contain wastes. Containment shall be determined by geology, hydrology, topography, climatology, and other factors relating to the ability of the Unit to protect water quality. Water Code Section 13273.1 requires that operators submit a water quality solid waste assessment test (SWAT) report to address leak status. The WMUDS was last updated by the State Water Resources control board in 2000.

ENVIROSTOR EnviroStor Cleanup Sites

VERSION DATE: 04/23/18

The Department of Toxic Substances Control (DTSC) has developed the EnviroStor database system to evaluate and track sites with confirmed or potential contamination and sites where further investigation may be necessary. This EnviroStor database of cleanup sites contains the following: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. Sites where DTSC has made a "No Action Required" determination are not included in this database, as these sites had assessments that revealed no evidence of recognized environmental conditions in connection with the property.

ENVIROSTORPCA EnviroStor Permitted and Corrective Action Sites

VERSION DATE: 05/01/18

Environmental Records Definitions - STATE (CA)

The Department of Toxic Substances Control (DTSC) has developed the EnviroStor database system to evaluate and track sites with confirmed or potential contamination and sites where further investigation may be necessary. This EnviroStor database contains detailed information on hazardous waste permitted and corrective action facilities. Investigation and cleanup activities at hazardous waste facilities (either Resource Conservation and Recovery Act (RCRA) or State-only) that either were eligible for a permit or received a permit are called "corrective action." These facilities treated stored, disposed and/or transferred hazardous waste.

TOXPITS Toxic Pits Cleanup Act Sites

VERSION DATE: 07/01/95

Toxic Pits are sites with possible contamination of hazardous substances where cleanup is necessary. This listing is no longer updated by the State Water Resources Control Board.

Environmental Records Definitions - LOCAL

SCHMS Sacramento County Hazardous Materials Sites

VERSION DATE: 05/10/18

This master list of potentially hazardous material sites is provided by the Sacramento County Environmental Management Department.

SCTL Sacramento County Toxic Case List

VERSION DATE: 05/07/18

This listing of sites with an unauthorized release of a potentially hazardous material is provided by the Sacramento County Environmental Management Department.

Environmental Records Definitions - TRIBAL

USTR09 Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/10/18

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 9. This region includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

LUSTR09 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/10/18

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 9. This region includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

TORRESDUMPSITES Illegal Dump Sites on the Torres Martinez Reservation

VERSION DATE: 10/29/07

This listing of illegal dump site locations on the Torres Martinez Reservation is maintained by the United States Environmental Protection Agency, Region IX. These dump sites contain unlawfully discarded household waste such as landscaping and wood wastes with no known soil or groundwater contamination. A majority of the sites have already been cleaned up through the collaborative efforts of the EPA, The California Integrated Waste Management Board and the Torres Martinez Tribe.

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

APPENDIX B

Historical Aerial Photographs, Topographic Maps, Fire Insurance Map, City Directories, and FEMA Flood Maps

GeoSearch

On time. On target. In touch.™

Historical Aerials Package

Target Property:

Elk Grove ISA

Elk Grove Blvd

Elk Grove, Sacramento, California 95624

Prepared For:

Environmental Science Assoc-San Francisco

Order #: 110314

Job #: 243496

Project #: D170242

Date: 6/22/2018

Target Property Summary

Elk Grove ISA
Elk Grove Blvd
Elk Grove, Sacramento, California 95624

USGS Quadrangle: ***Elk Grove***
Target Property Geometry: ***Corridor***

Target Property Longitude(s)/Latitude(s):
(-121.371494000, 38.401716000), (-121.371570000, 38.408875000), (-121.353261000, 38.409052000), (-121.353289000, 38.414206000), (-121.353374000, 38.419493000), (-121.353346000, 38.422547000), (-121.353365000, 38.423419000), (-121.353176000, 38.423449000), (-121.353223000, 38.419789000), (-121.353082000, 38.409207000), (-121.324599000, 38.409133000), (-121.324920000, 38.409030000), (-121.327478000, 38.409022000), (-121.352959000, 38.409022000), (-121.352846000, 38.388579000), (-121.352695000, 38.387603000), (-121.352242000, 38.386893000), (-121.349977000, 38.385384000)

Aerial Research Summary

Date	Source	Scale	Frame
2016	USDA	1" = 1000'	N/A
2016	USDA	1" = 1000'	N/A
2016	USDA	1" = 1000'	N/A
2016	USDA	1" = 1000'	N/A
2014	USDA	1" = 1000'	N/A
2014	USDA	1" = 1000'	N/A
2014	USDA	1" = 1000'	N/A
2014	USDA	1" = 1000'	N/A
2012	USDA	1" = 1000'	N/A
2012	USDA	1" = 1000'	N/A
2012	USDA	1" = 1000'	N/A
2012	USDA	1" = 1000'	N/A
2010	USDA	1" = 1000'	N/A
2010	USDA	1" = 1000'	N/A
2010	USDA	1" = 1000'	N/A
2010	USDA	1" = 1000'	N/A
2009	USDA	1" = 1000'	N/A
2009	USDA	1" = 1000'	N/A
2009	USDA	1" = 1000'	N/A
2009	USDA	1" = 1000'	N/A
2006	USDA	1" = 1000'	N/A
2006	USDA	1" = 1000'	N/A
2006	USDA	1" = 1000'	N/A
2006	USDA	1" = 1000'	N/A
2005	USDA	1" = 1000'	N/A
2005	USDA	1" = 1000'	N/A
2005	USDA	1" = 1000'	N/A
2005	USDA	1" = 1000'	N/A
2004	USDA	1" = 1000'	N/A
2004	USDA	1" = 1000'	N/A

Aerial Research Summary

Date	Source	Scale	Frame
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2004	USDA	1" = 1000'	N/A
2003	USDA	1" = 1000'	N/A
2003	USDA	1" = 1000'	N/A
2003	USDA	1" = 1000'	N/A
2003	USDA	1" = 1000'	N/A
08/18/1998	USGS	1" = 1000'	N/A
08/18/1998	USGS	1" = 1000'	N/A
08/18/1998	USGS	1" = 1000'	N/A
08/18/1998	USGS	1" = 1000'	N/A
05/23/1993	USGS	1" = 1000'	N/A
05/23/1993	USGS	1" = 1000'	N/A
05/23/1993	USGS	1" = 1000'	N/A
05/23/1993	USGS	1" = 1000'	N/A
06/19/1987	USGS	1" = 1000'	507-79
06/19/1987	USGS	1" = 1000'	507-79
06/19/1987	USGS	1" = 1000'	507-79
06/19/1987	USGS	1" = 1000'	507-79
06/05/1977	USGS	1" = 1000'	1-34
06/05/1977	USGS	1" = 1000'	1-34
06/05/1977	USGS	1" = 1000'	1-34
06/05/1977	USGS	1" = 1000'	1-34
05/15/1967	USGS	1" = 1000'	1-11
05/15/1967	USGS	1" = 1000'	1-11
05/15/1967	USGS	1" = 1000'	1-13
05/15/1967	USGS	1" = 1000'	1-11
05/15/1967	USGS	1" = 1000'	1-42
07/17/1961	CAS	1" = 1000'	4-31
07/17/1961	CAS	1" = 1000'	4-33
07/17/1961	CAS	1" = 1000'	4-40
07/17/1961	CAS	1" = 1000'	4-33
10/04/1952	ASCS	1" = 1000'	4-64
10/04/1952	ASCS	1" = 1000'	4-64
10/04/1952	ASCS	1" = 1000'	4-114
10/04/1952	ASCS	1" = 1000'	4-62
08/17/1937	ASCS	1" = 1000'	47-16
08/17/1937	ASCS	1" = 1000'	47-14
08/17/1937	ASCS	1" = 1000'	46-54
08/17/1937	ASCS	1" = 1000'	47-14
08/17/1937	ASCS	1" = 1000'	47-16
08/17/1937	ASCS	1" = 1000'	46-56

N
W E
S

Elk Grove ISA
USDA
2016

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
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Elk Grove ISA
USDA
2016

GeoSearch

JOB #: 243496 - 06/22/2018

N
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Elk Grove ISA
USDA
2016

GeoSearch

JOB #: 243496 - 06/22/2018

N
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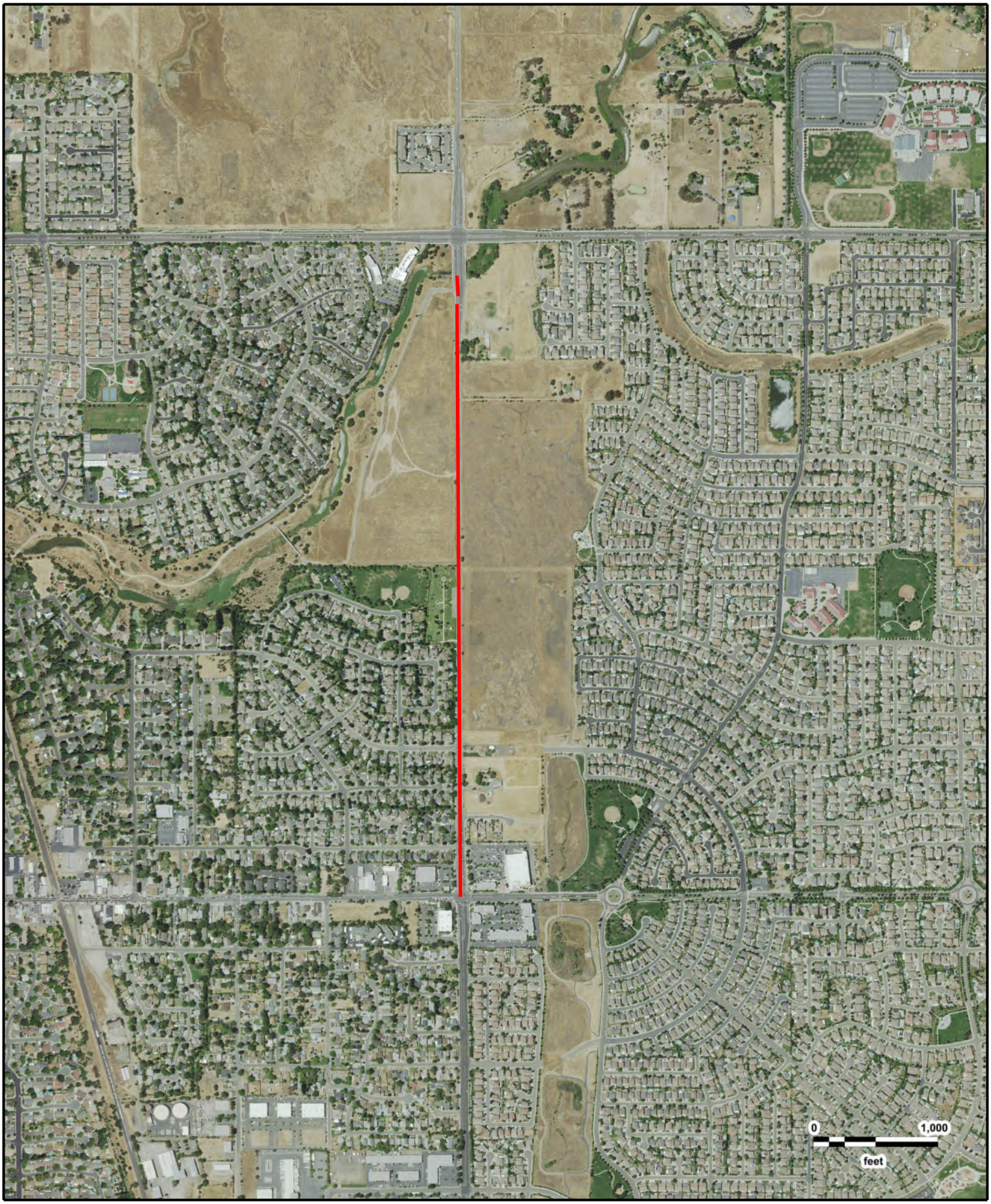
Elk Grove ISA
USDA
2016

GeoSearch

JOB #: 243496 - 06/22/2018



N
W E
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Elk Grove ISA
USDA
2014

GeoSearch

JOB #: 243496 - 06/22/2018

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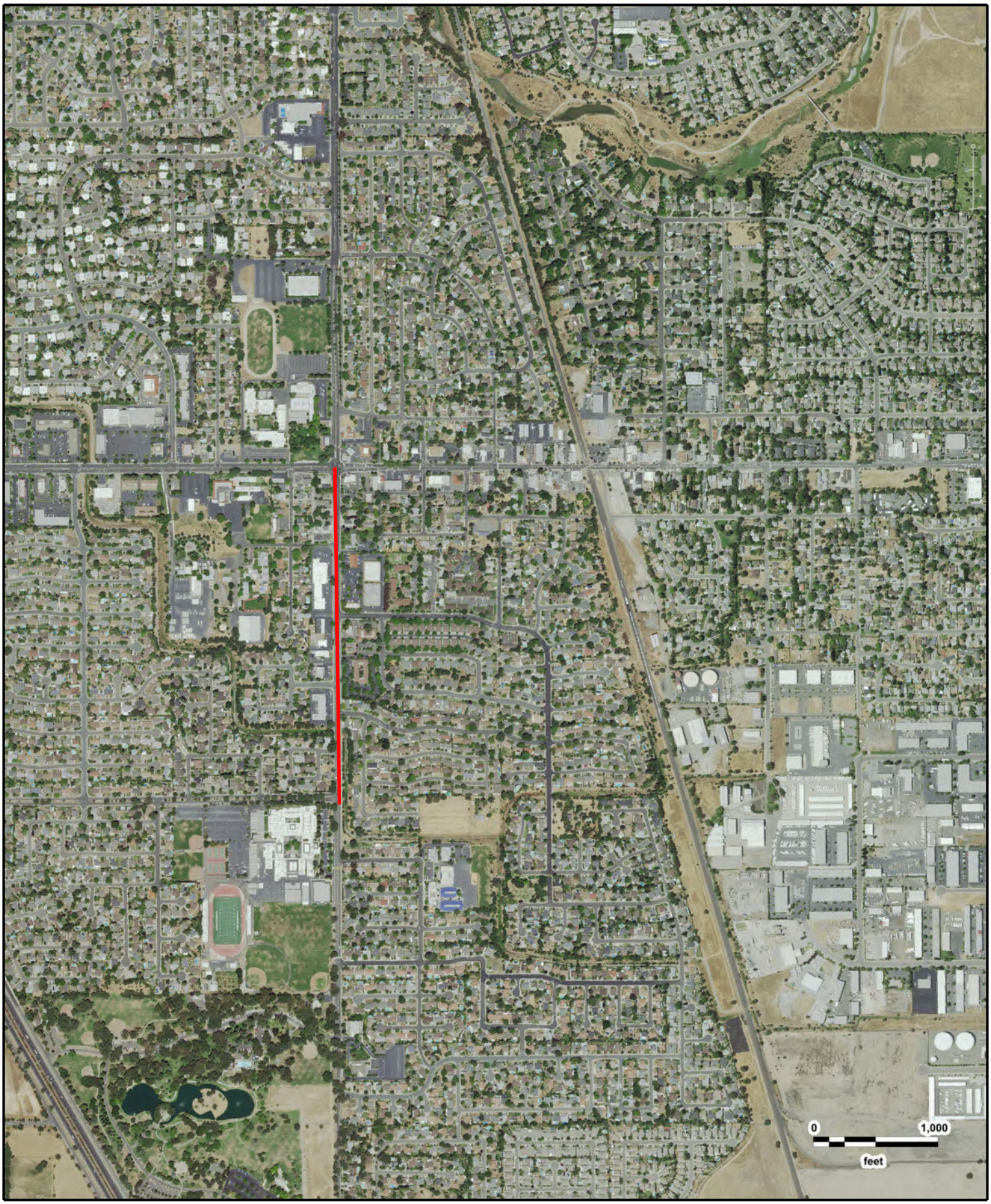
Elk Grove ISA
USDA
2014

GeoSearch

JOB #: 243496 - 06/22/2018



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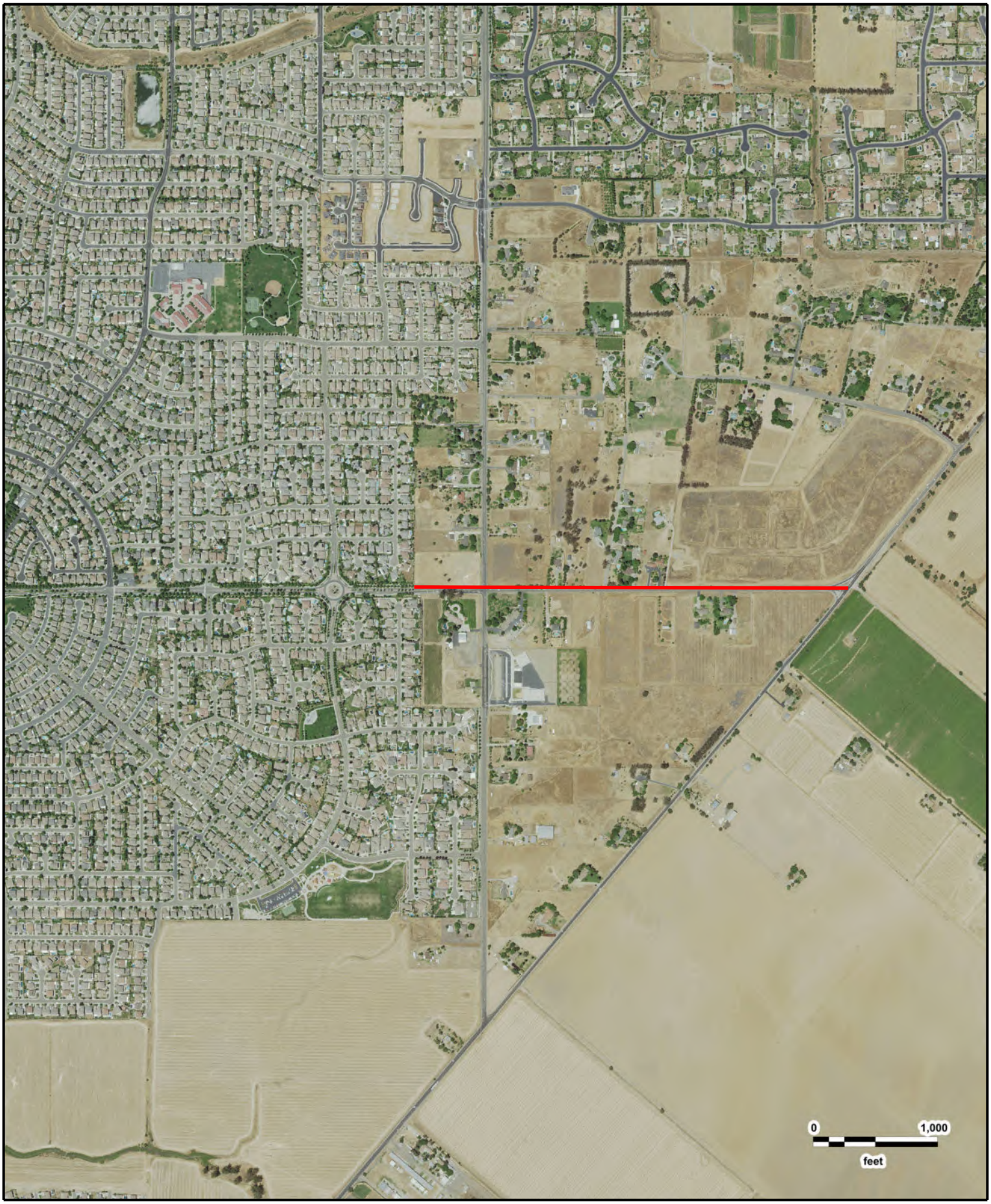
Elk Grove ISA
USDA
2014

GeoSearch

JOB #: 243496 - 06/22/2018



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Elk Grove ISA
USDA
2014

GeoSearch

JOB #: 243496 - 06/22/2018

N
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Elk Grove ISA
USDA
2012

GeoSearch

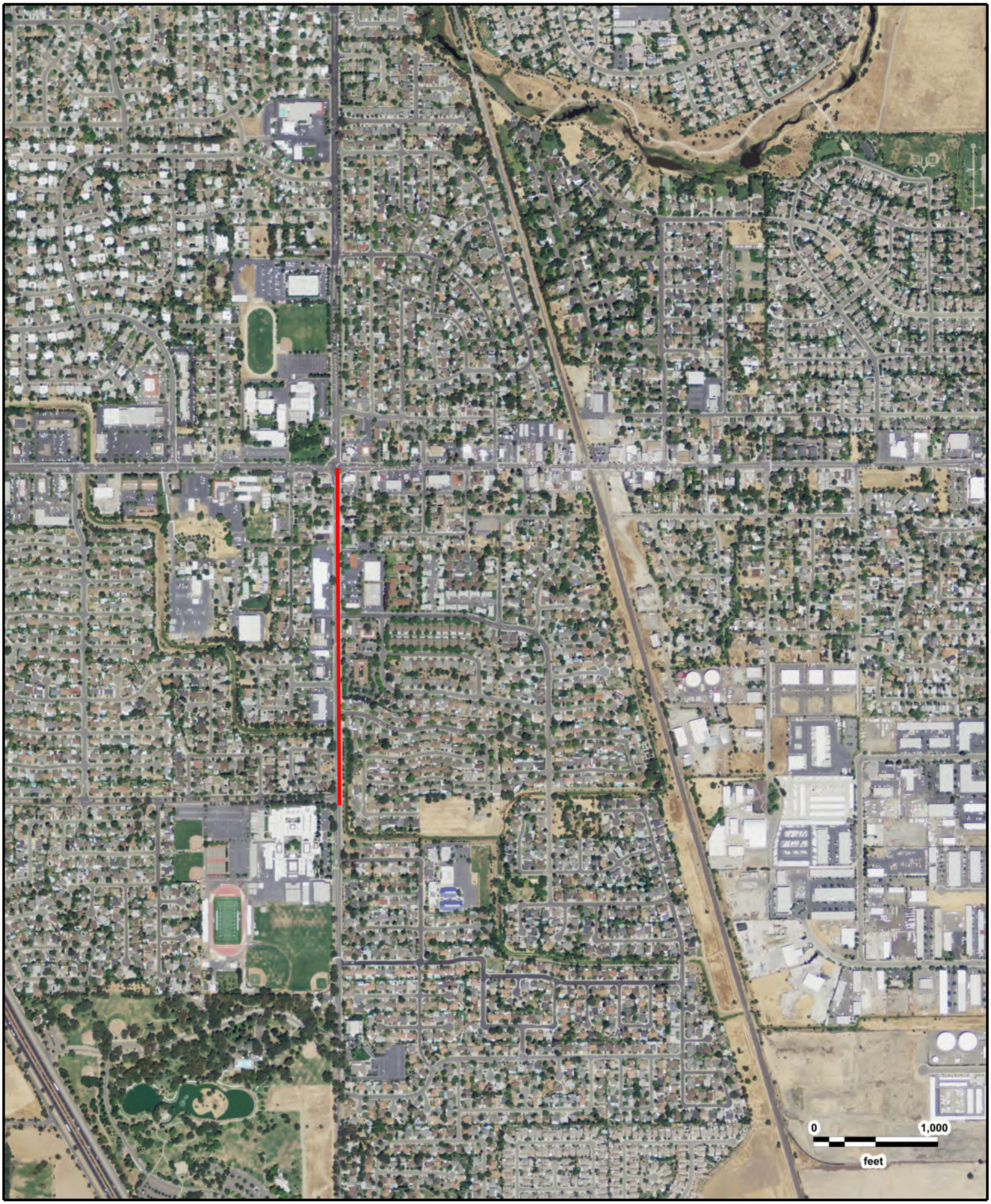
JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USDA
2012

GeoSearch

JOB #: 243496 - 06/22/2018



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Elk Grove ISA
USDA
2012

GeoSearch

JOB #: 243496 - 06/22/2018

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W E
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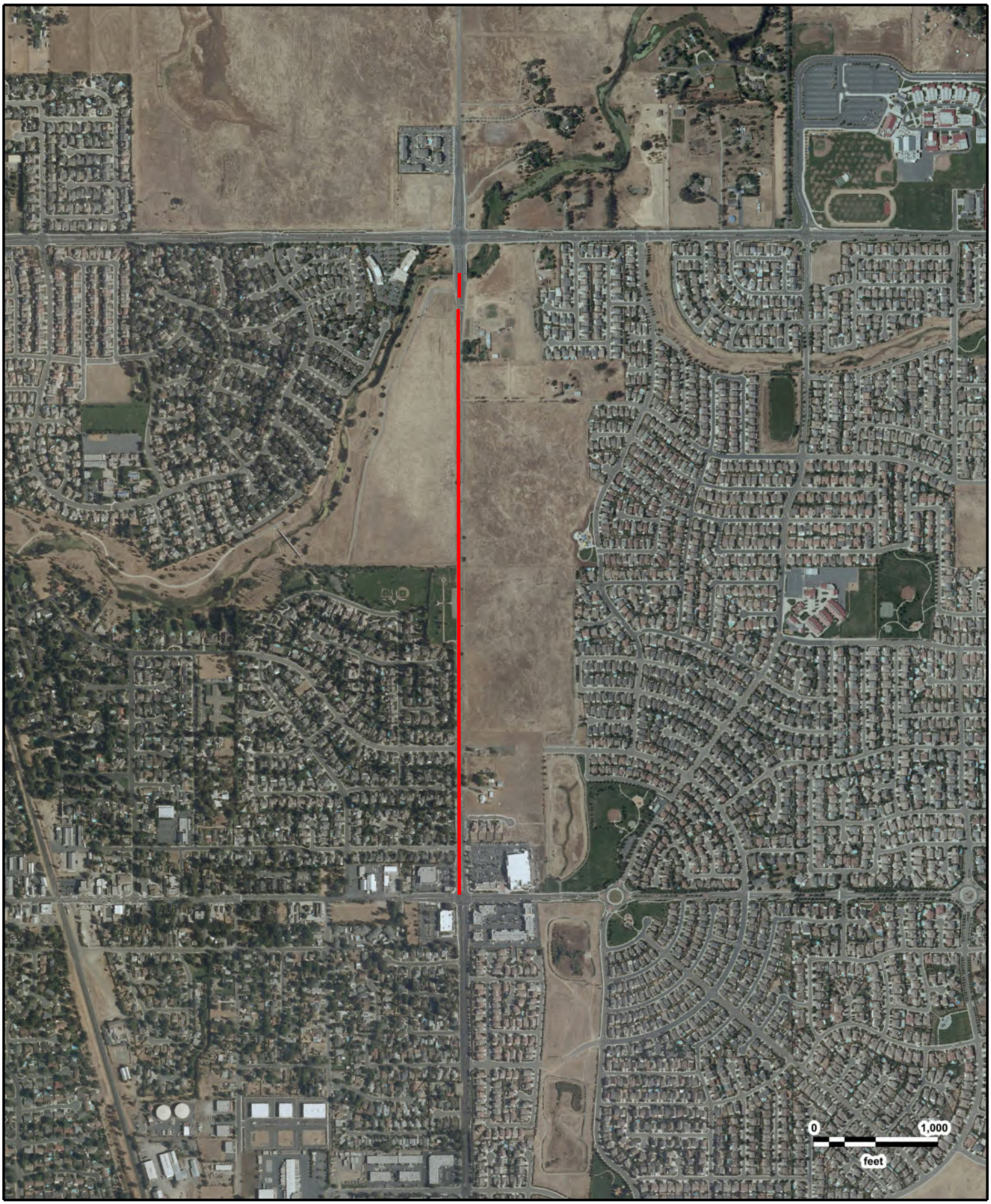
Elk Grove ISA
USDA
2012

GeoSearch

JOB #: 243496 - 06/22/2018



N
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Elk Grove ISA
USDA
2010

GeoSearch

JOB #: 243496 - 06/22/2018

N
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Elk Grove ISA
USDA
2010

GeoSearch

JOB #: 243496 - 06/22/2018

N
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Elk Grove ISA
USDA
2010

GeoSearch

JOB #: 243496 - 06/22/2018

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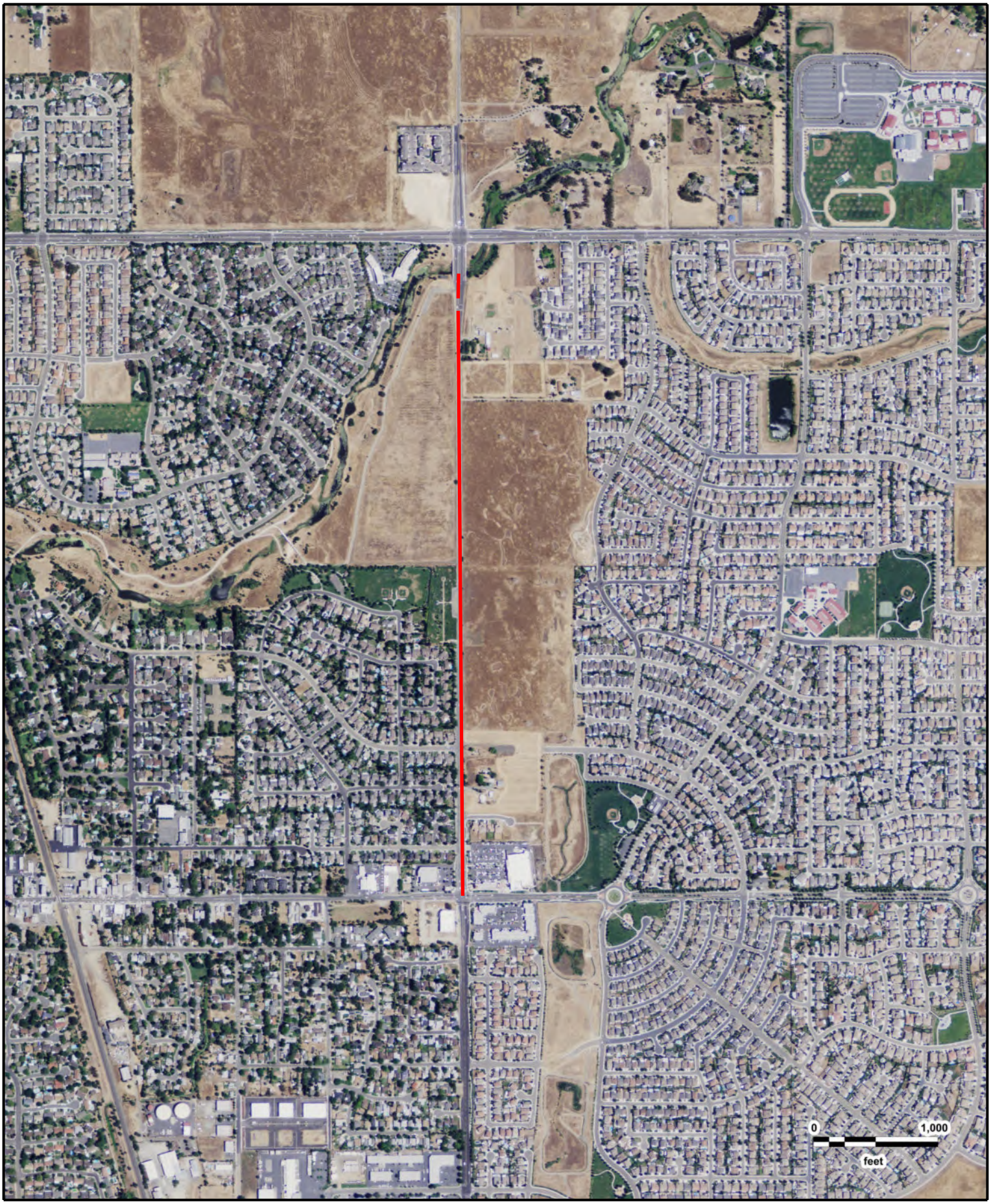
Elk Grove ISA
USDA
2010

GeoSearch

JOB #: 243496 - 06/22/2018



N
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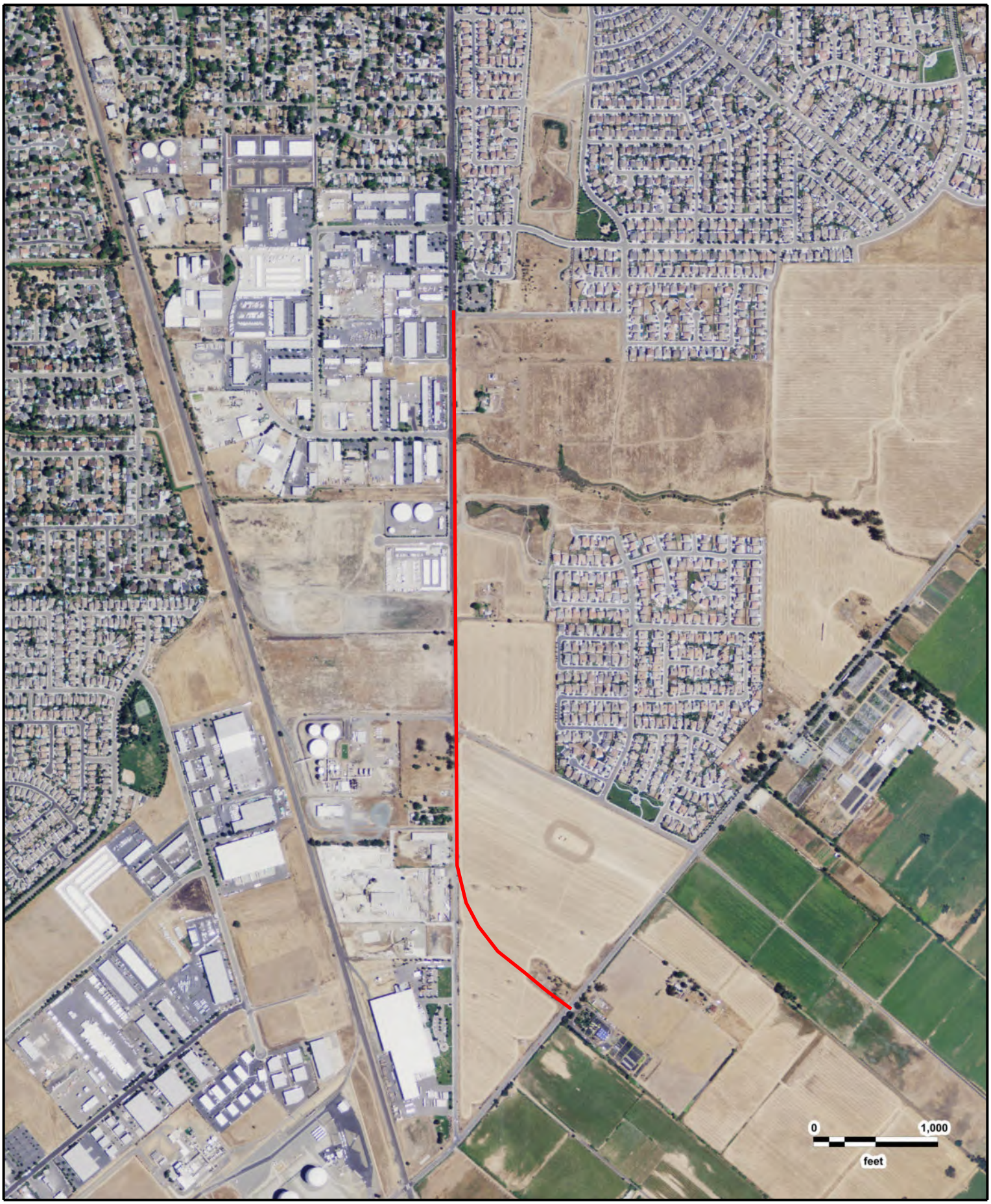
Elk Grove ISA
USDA
2009

GeoSearch

JOB #: 243496 - 06/22/2018



N
W E
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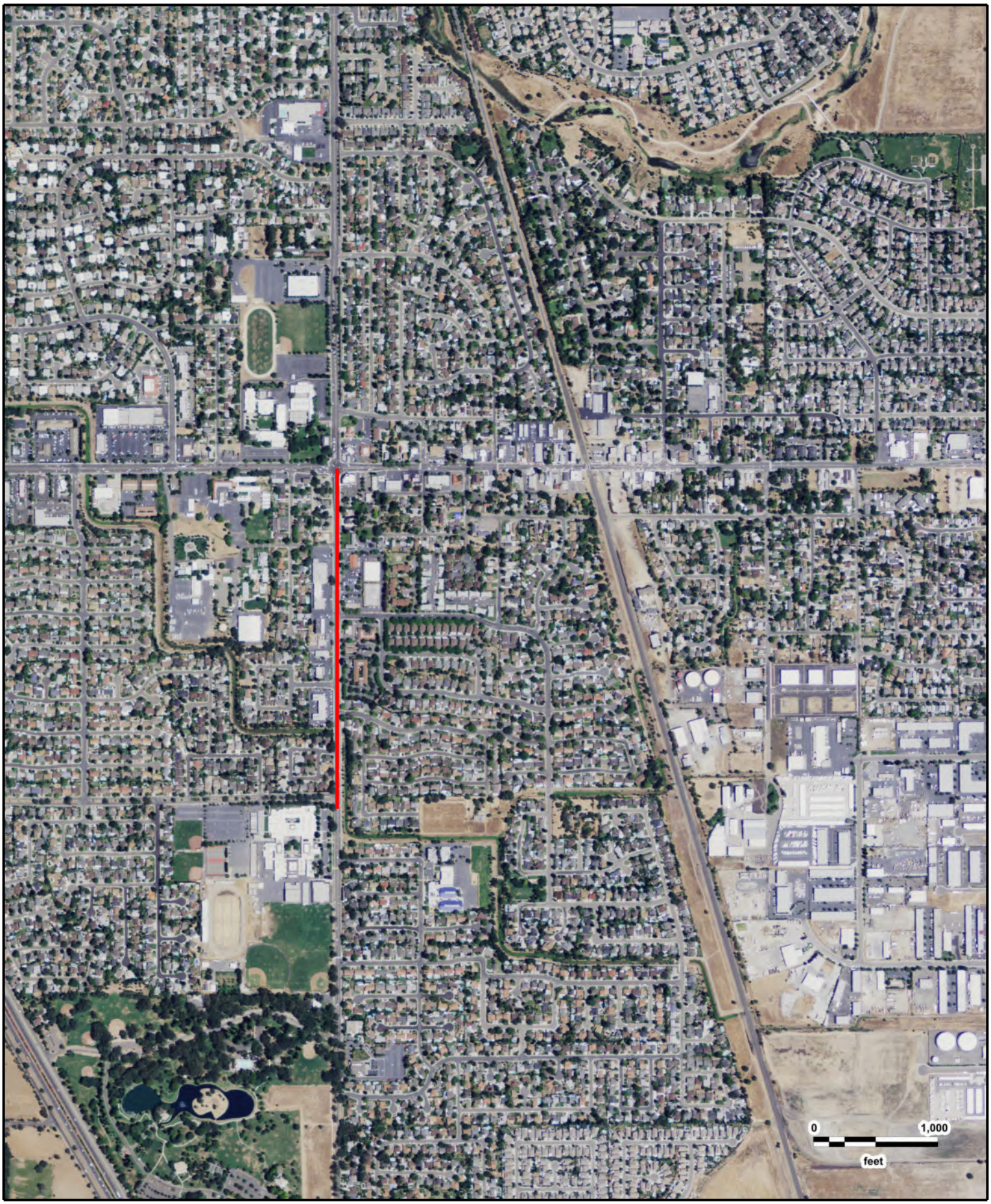
Elk Grove ISA
USDA
2009

GeoSearch

JOB #: 243496 - 06/22/2018



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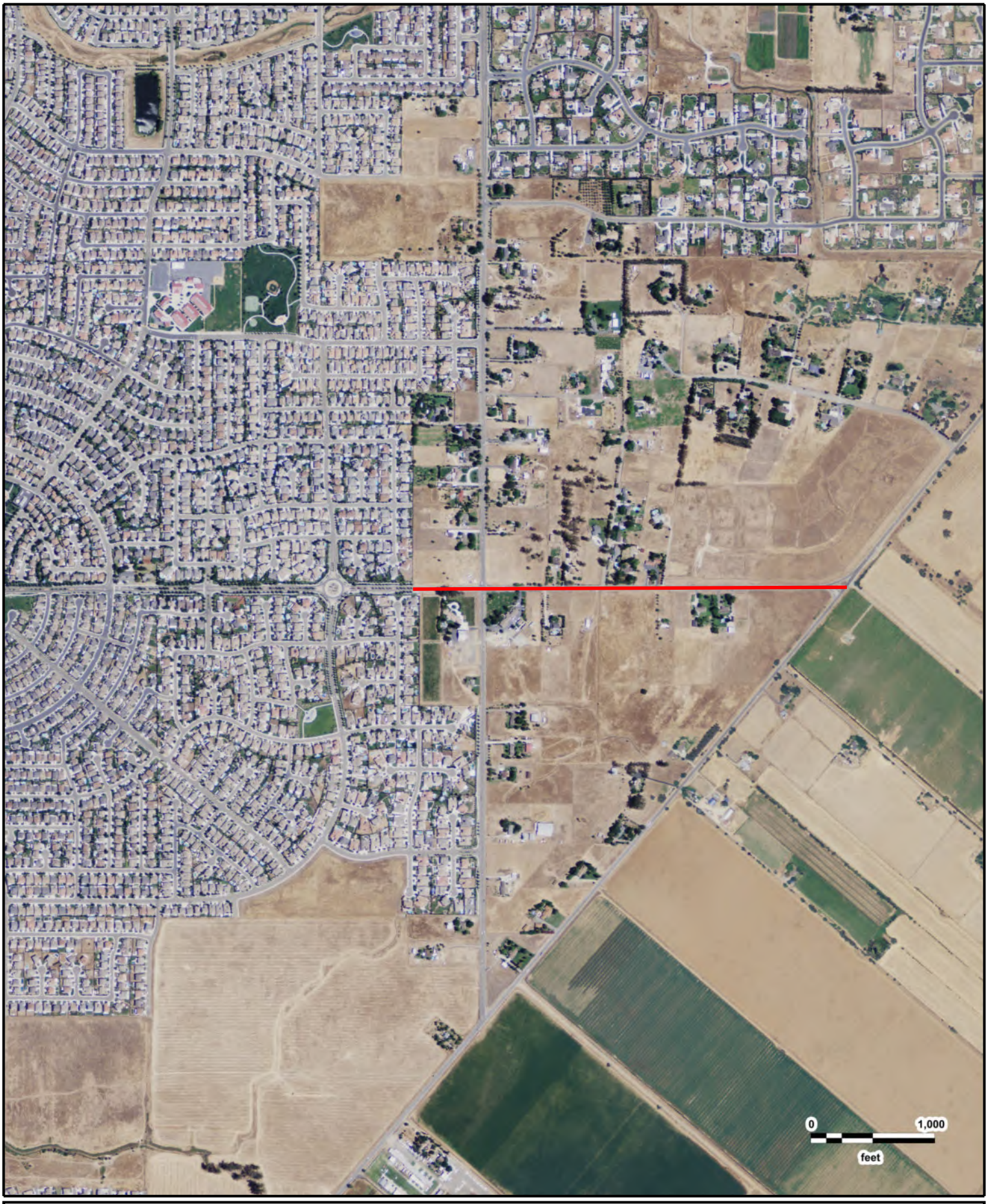
Elk Grove ISA
USDA
2009

GeoSearch

JOB #: 243496 - 06/22/2018



N
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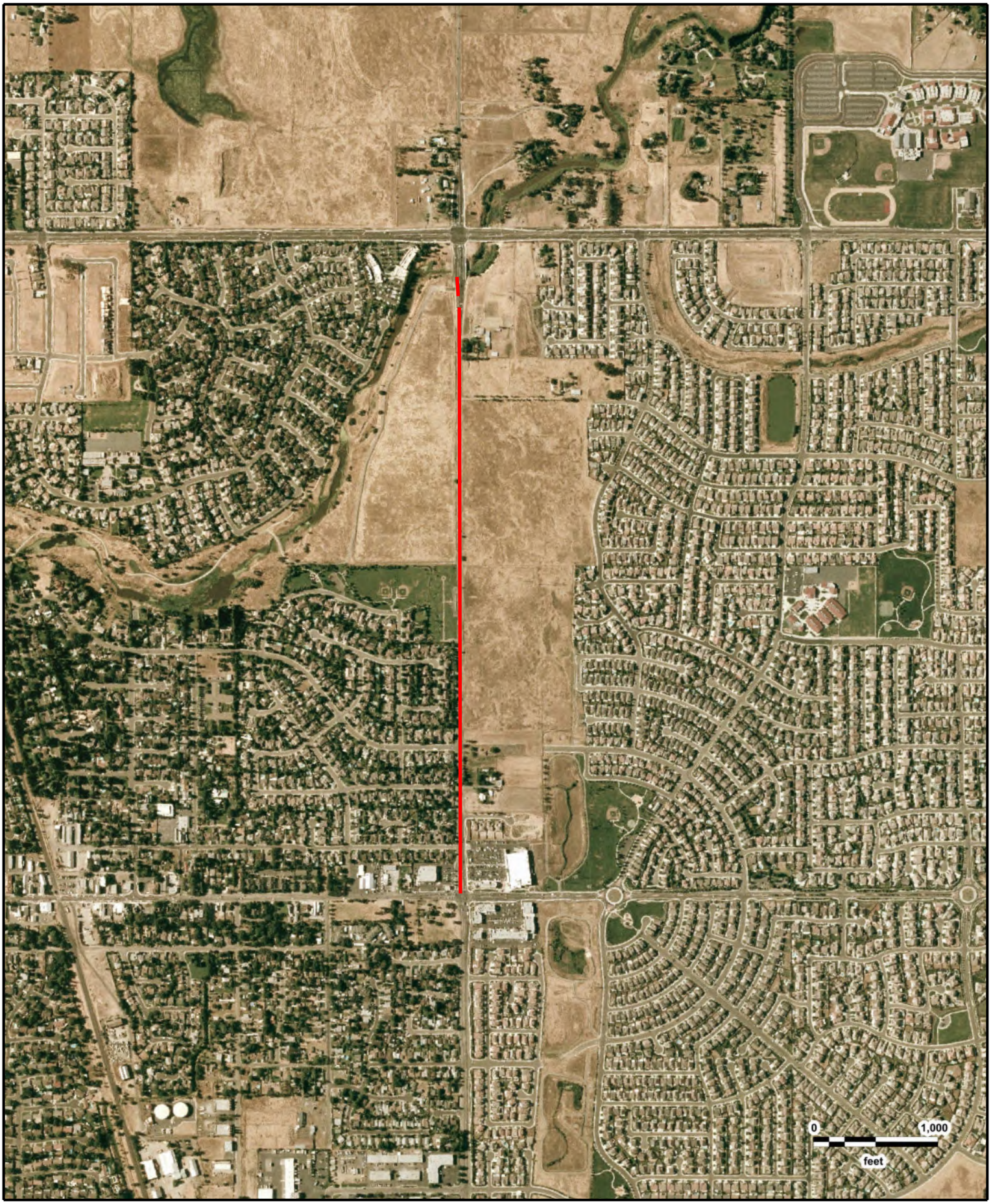
Elk Grove ISA
USDA
2009

GeoSearch

JOB #: 243496 - 06/22/2018



N
W E
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Elk Grove ISA
USDA
2006

GeoSearch

JOB #: 243496 - 06/22/2018

N
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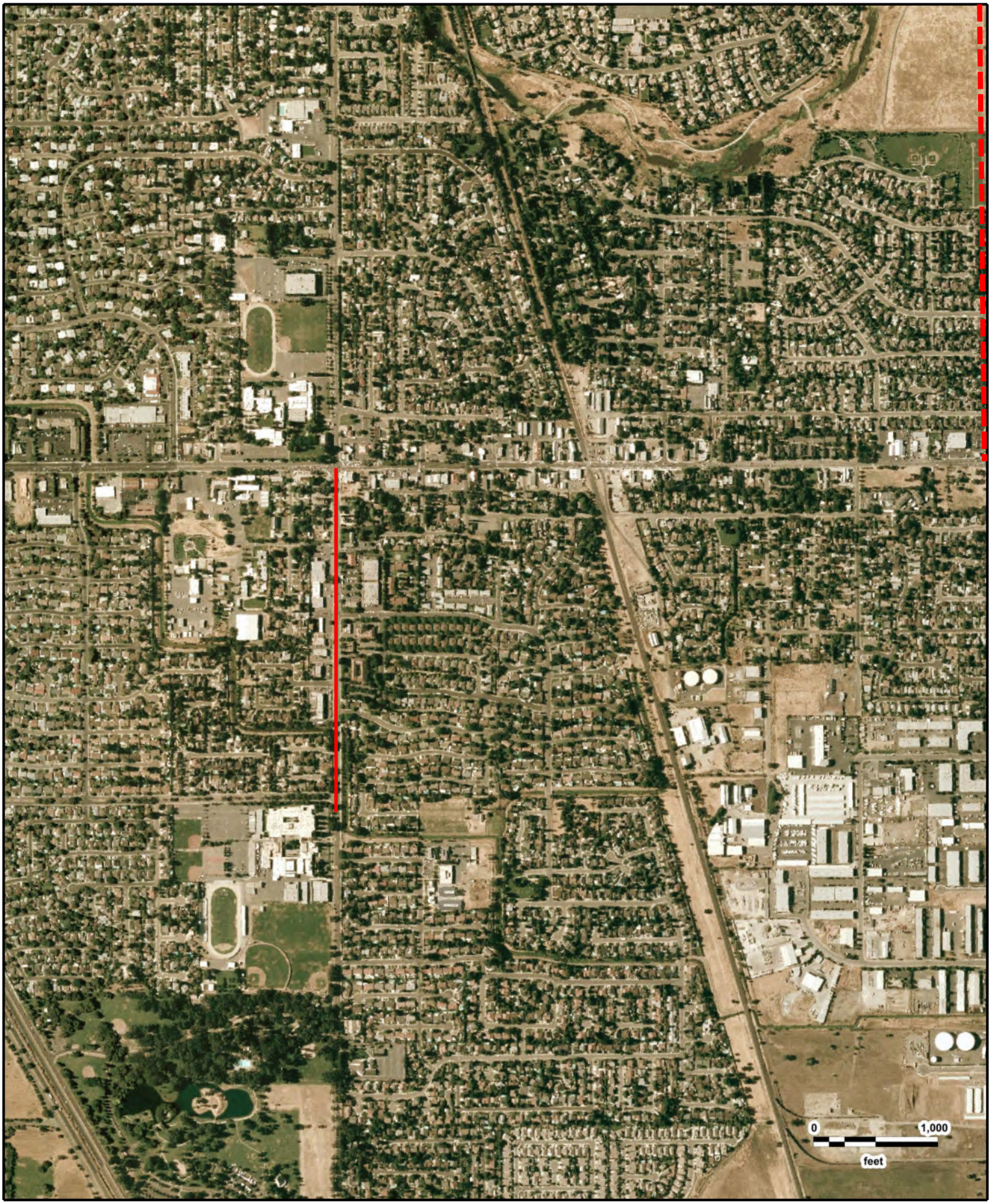
Elk Grove ISA
USDA
2006

GeoSearch

JOB #: 243496 - 06/22/2018



N
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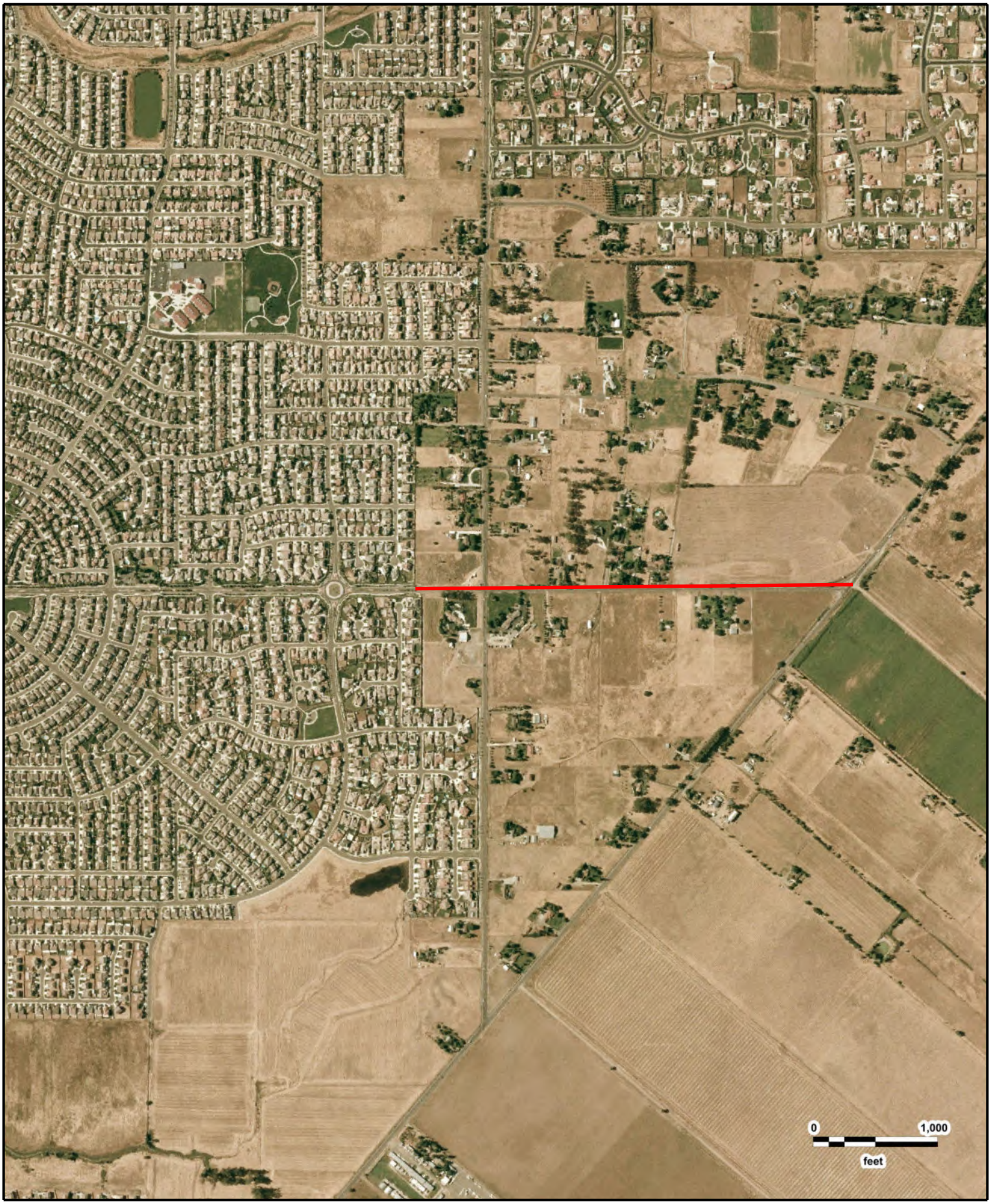
Elk Grove ISA
USDA
2006

GeoSearch

JOB #: 243496 - 06/22/2018



N
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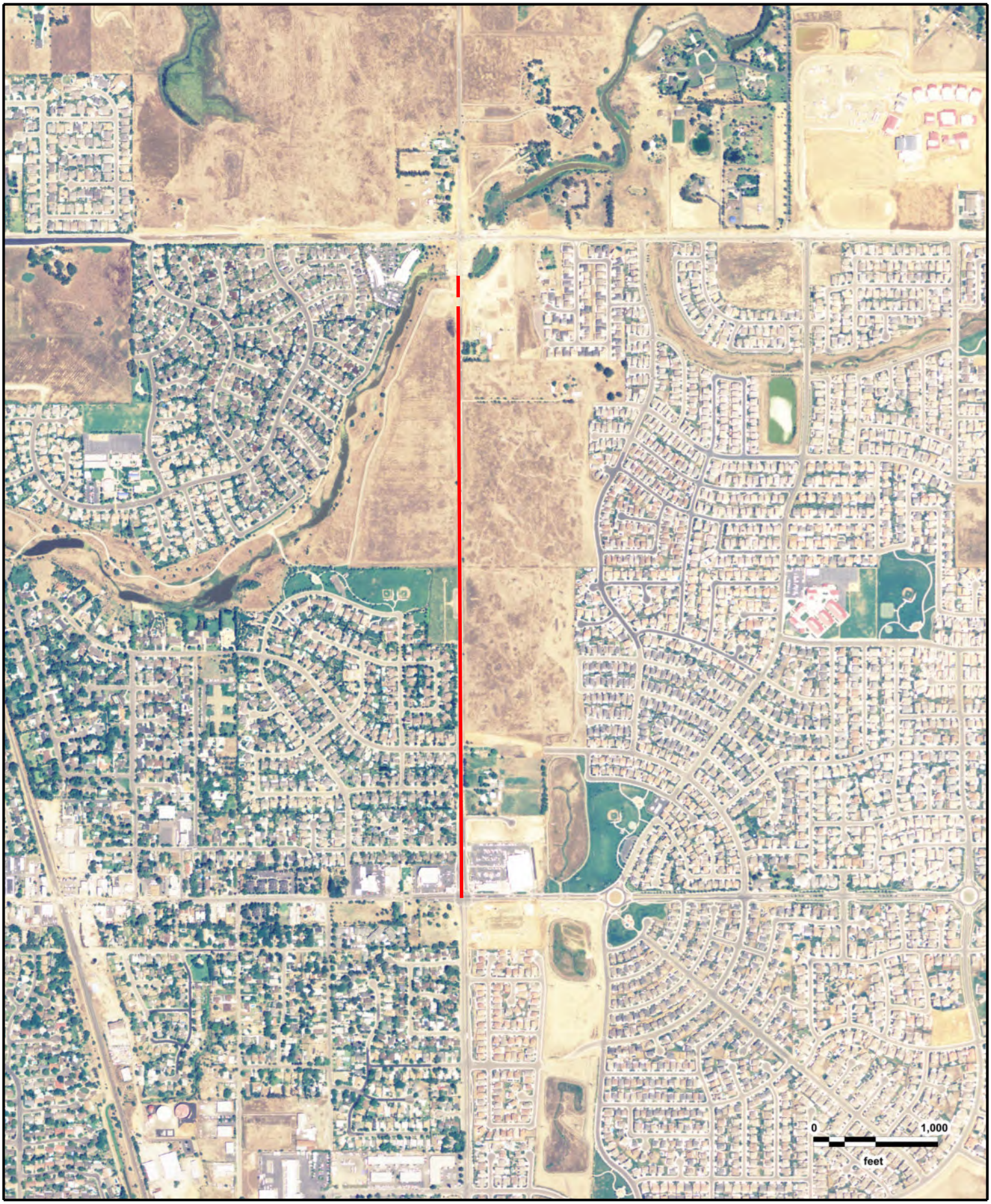
Elk Grove ISA
USDA
2006

GeoSearch

JOB #: 243496 - 06/22/2018



N
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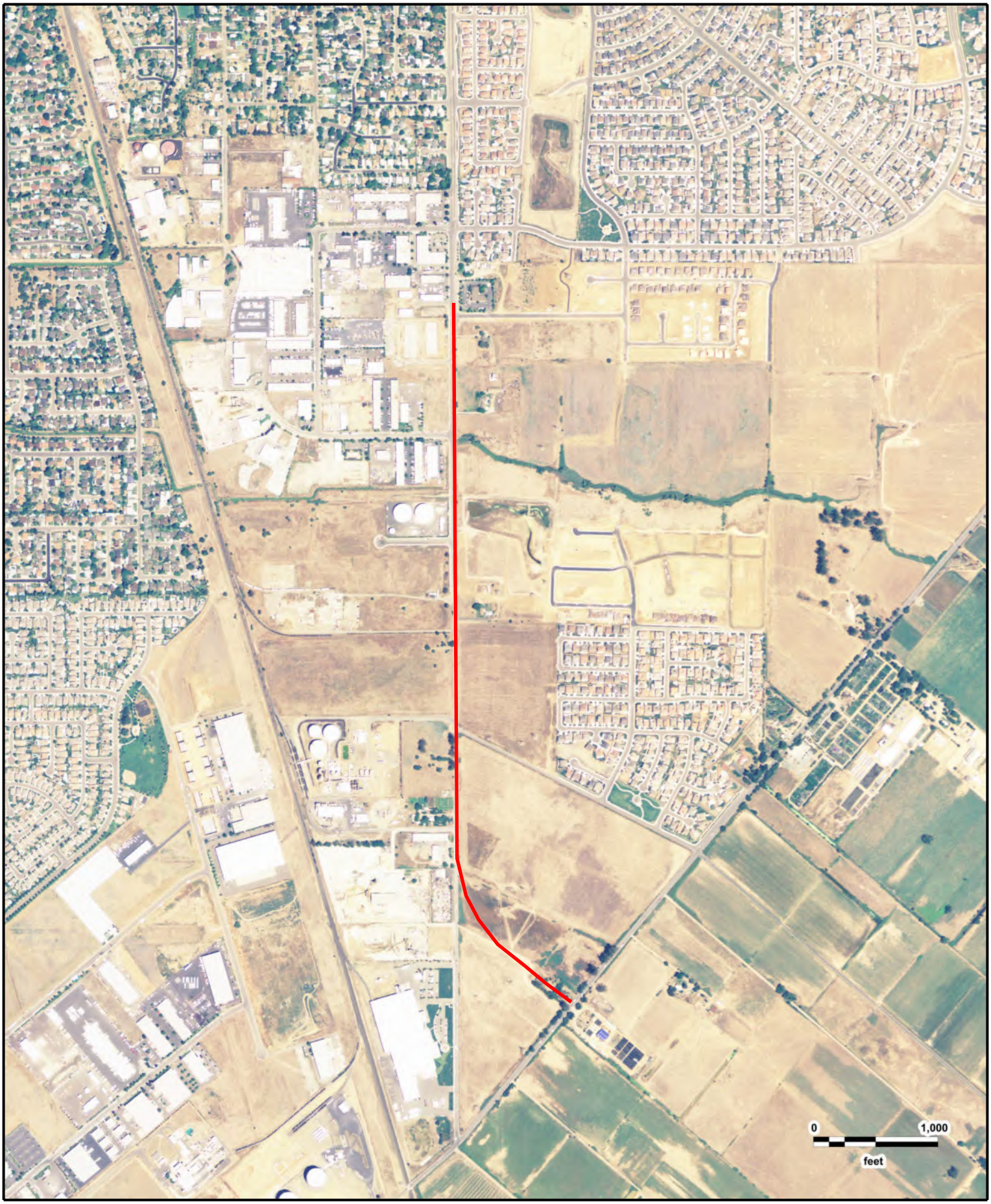
Elk Grove ISA
USDA
2005

GeoSearch

JOB #: 243496 - 06/22/2018



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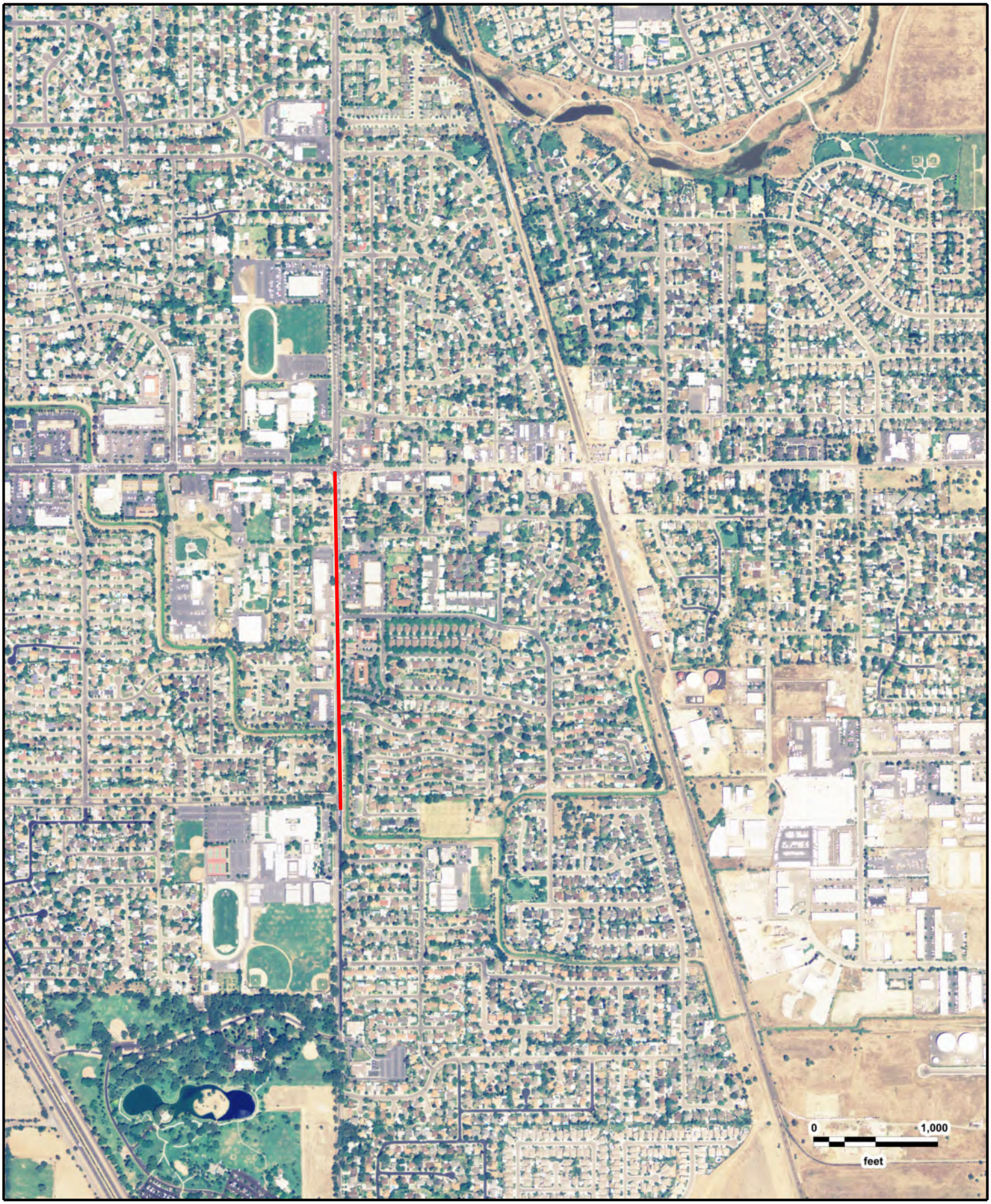
Elk Grove ISA
USDA
2005

GeoSearch

JOB #: 243496 - 06/22/2018



N
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Elk Grove ISA
USDA
2005

GeoSearch

JOB #: 243496 - 06/22/2018

N
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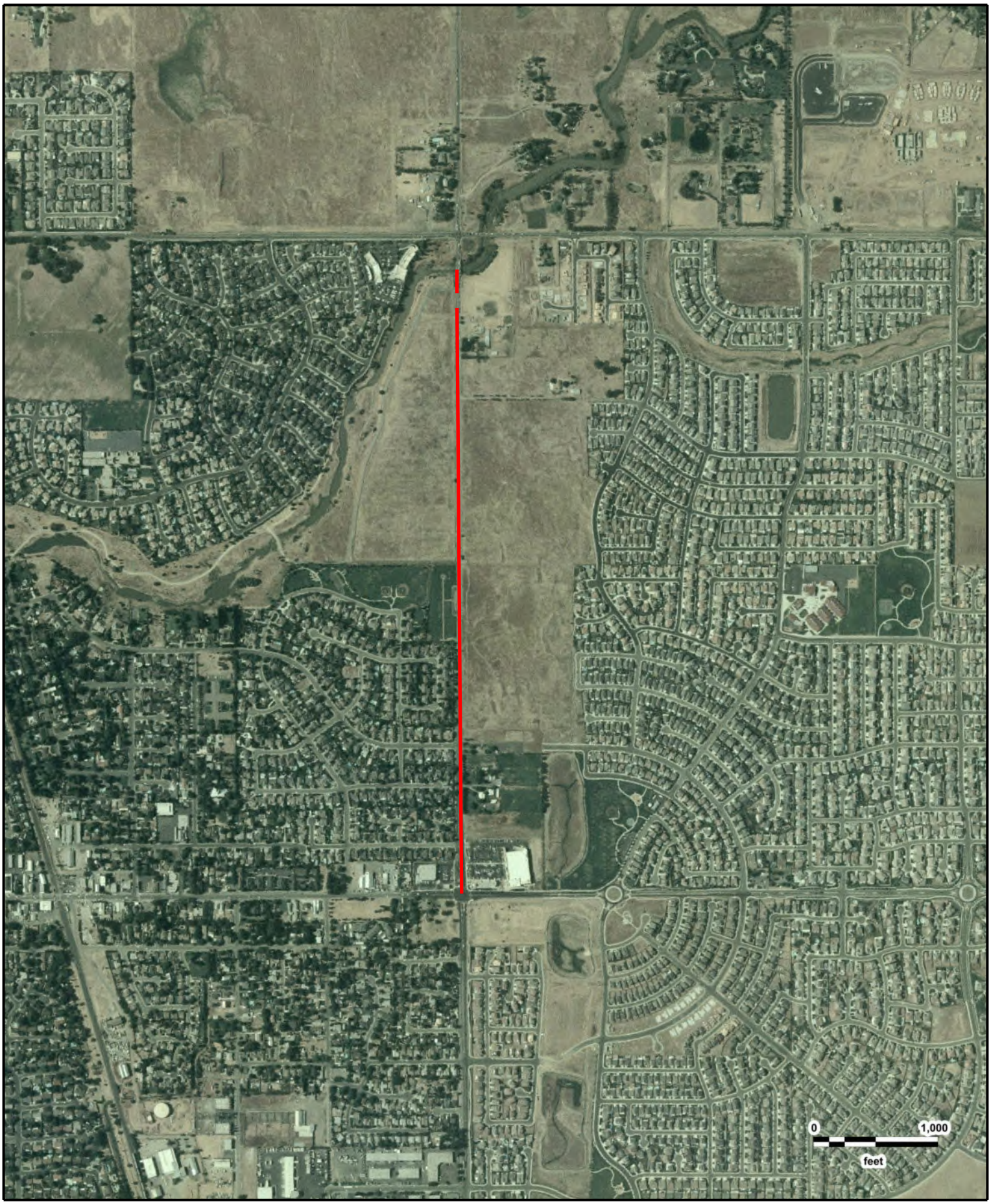
Elk Grove ISA
USDA
2005

GeoSearch

JOB #: 243496 - 06/22/2018



N
W E
S

Elk Grove ISA
USDA
2004

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
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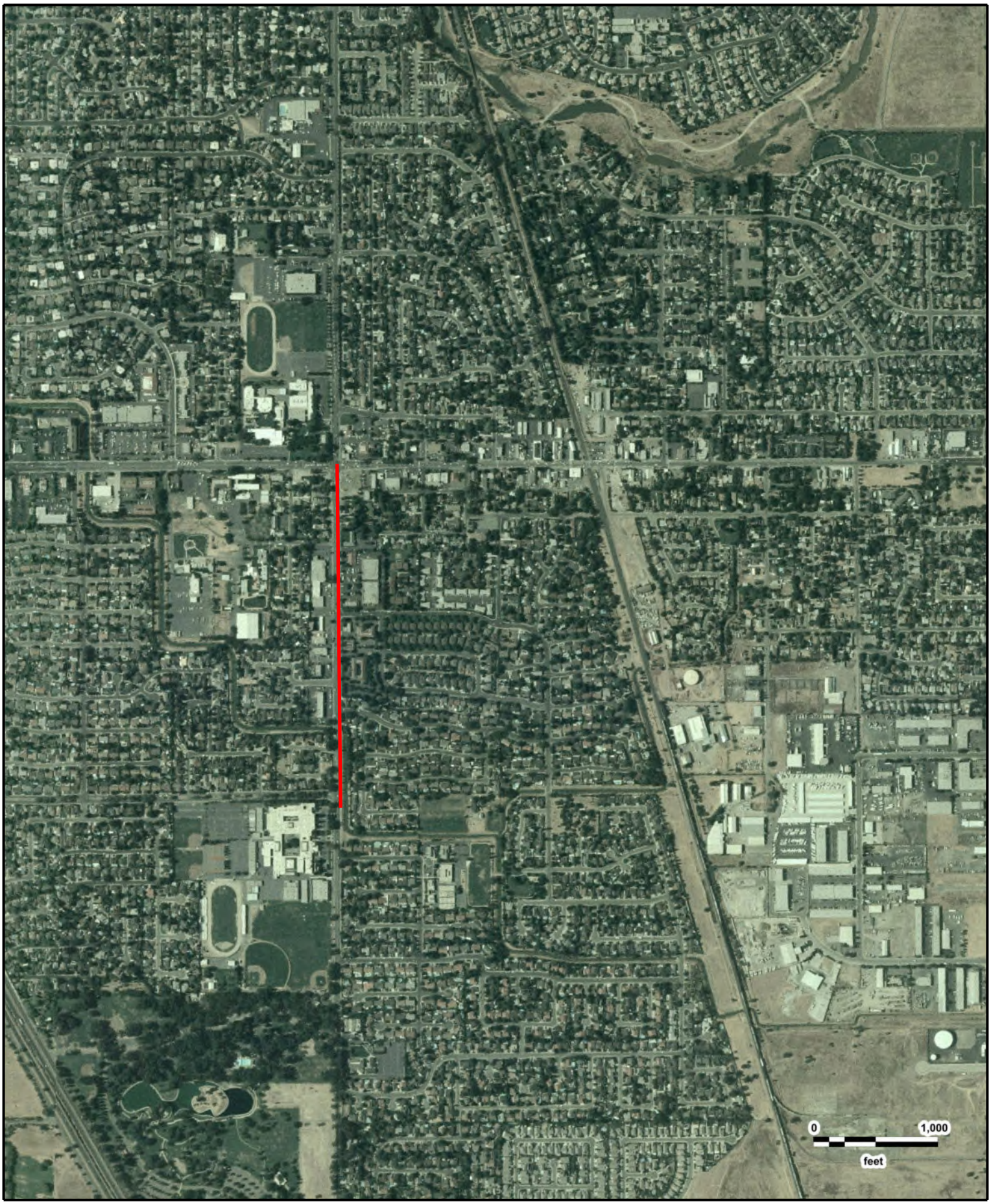
Elk Grove ISA
USDA
2004

GeoSearch

JOB #: 243496 - 06/22/2018



N
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Elk Grove ISA
USDA
2004

GeoSearch

JOB #: 243496 - 06/22/2018

N
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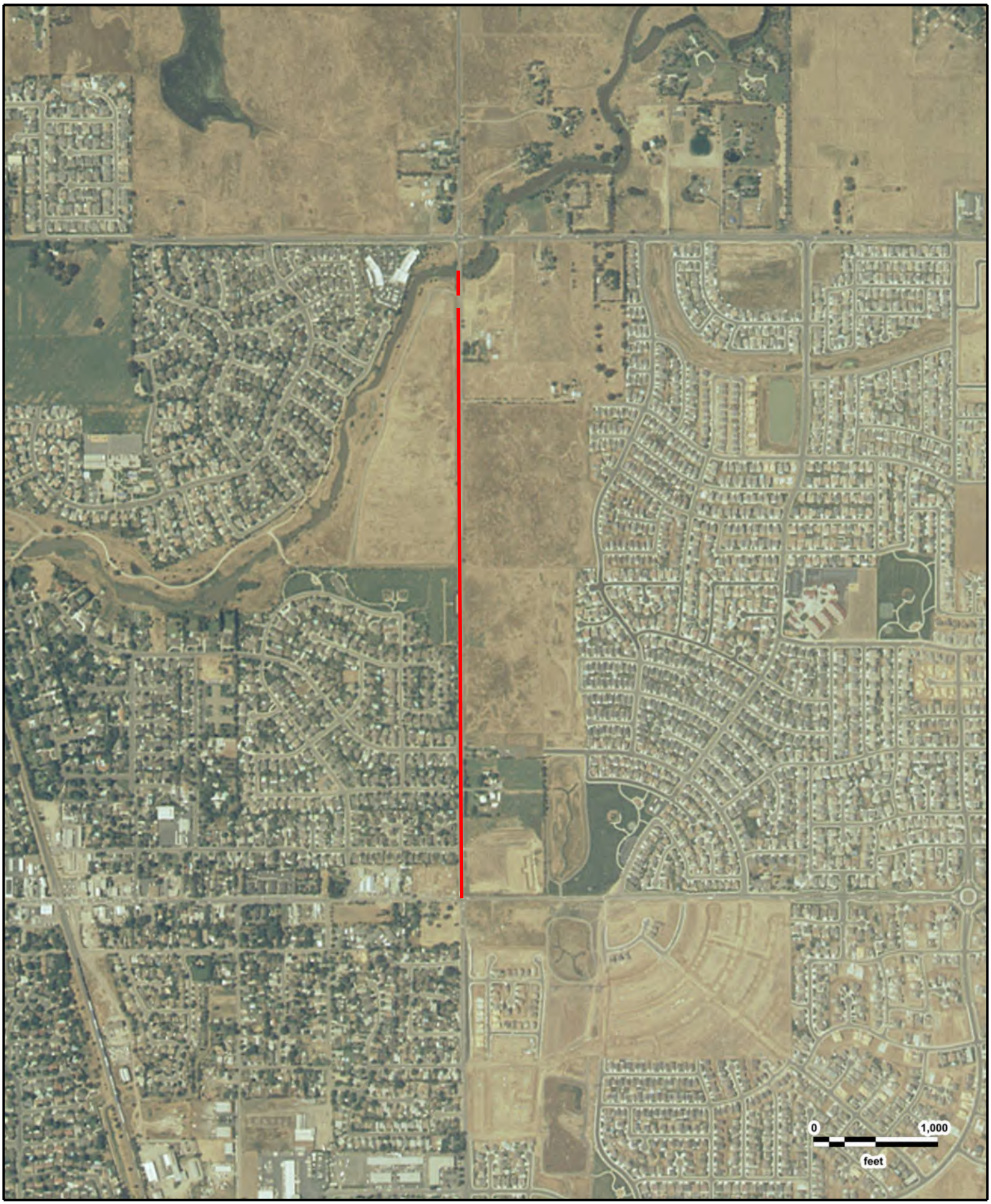
Elk Grove ISA
USDA
2004

GeoSearch

JOB #: 243496 - 06/22/2018



N
W E
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Elk Grove ISA
USDA
2003

GeoSearch

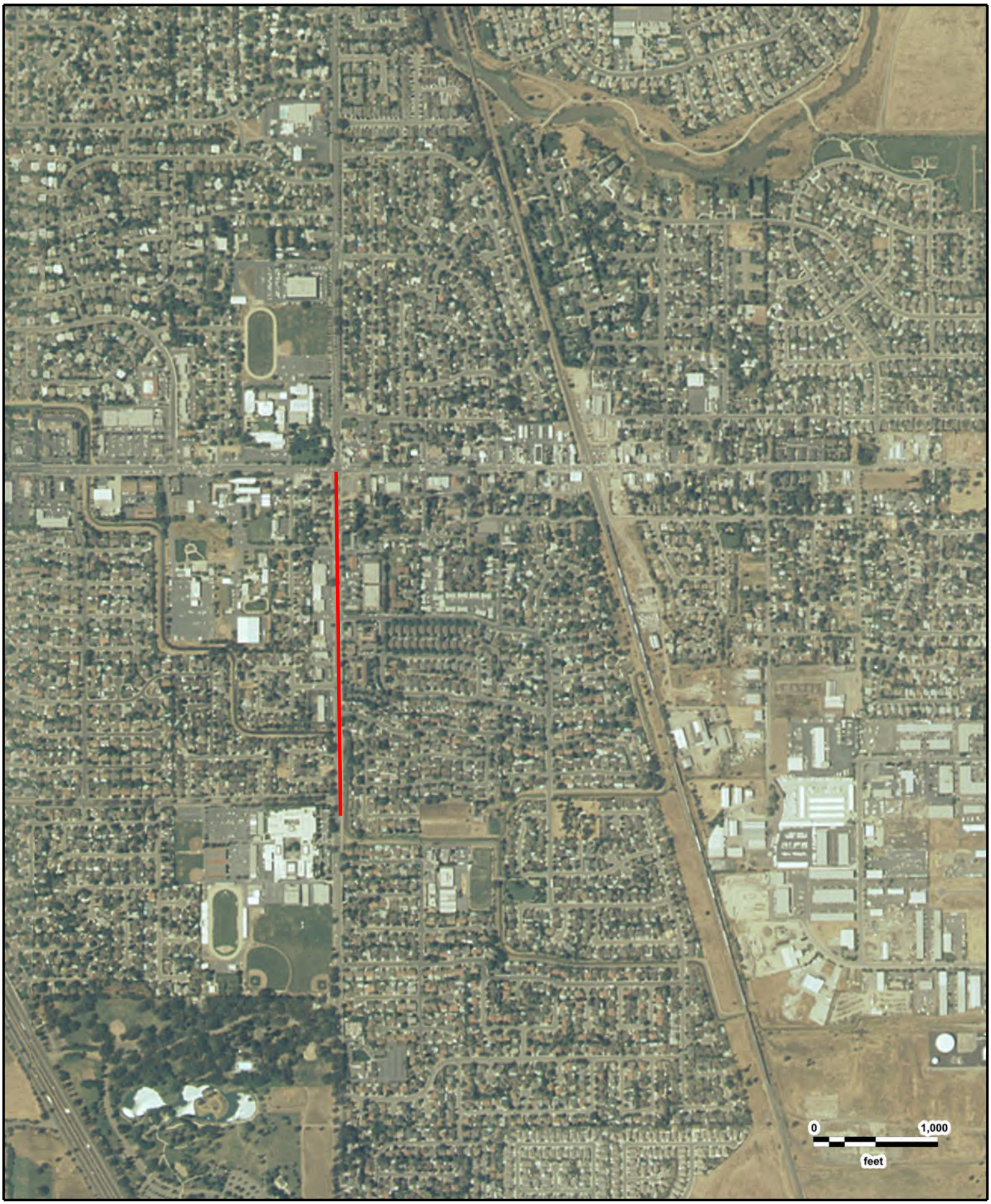
JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USDA
2003

GeoSearch

JOB #: 243496 - 06/22/2018



N
W E
S

Elk Grove ISA
USDA
2003

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USDA
2003

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
08/18/1998

GeoSearch

JOB #: 243496 - 06/22/2018

N
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Elk Grove ISA
USGS
08/18/1998

GeoSearch

JOB #: 243496 - 06/22/2018

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Elk Grove ISA
USGS
08/18/1998

GeoSearch

JOB #: 243496 - 06/22/2018

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Elk Grove ISA
USGS
08/18/1998

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
05/23/1993

GeoSearch

JOB #: 243496 - 06/22/2018

N
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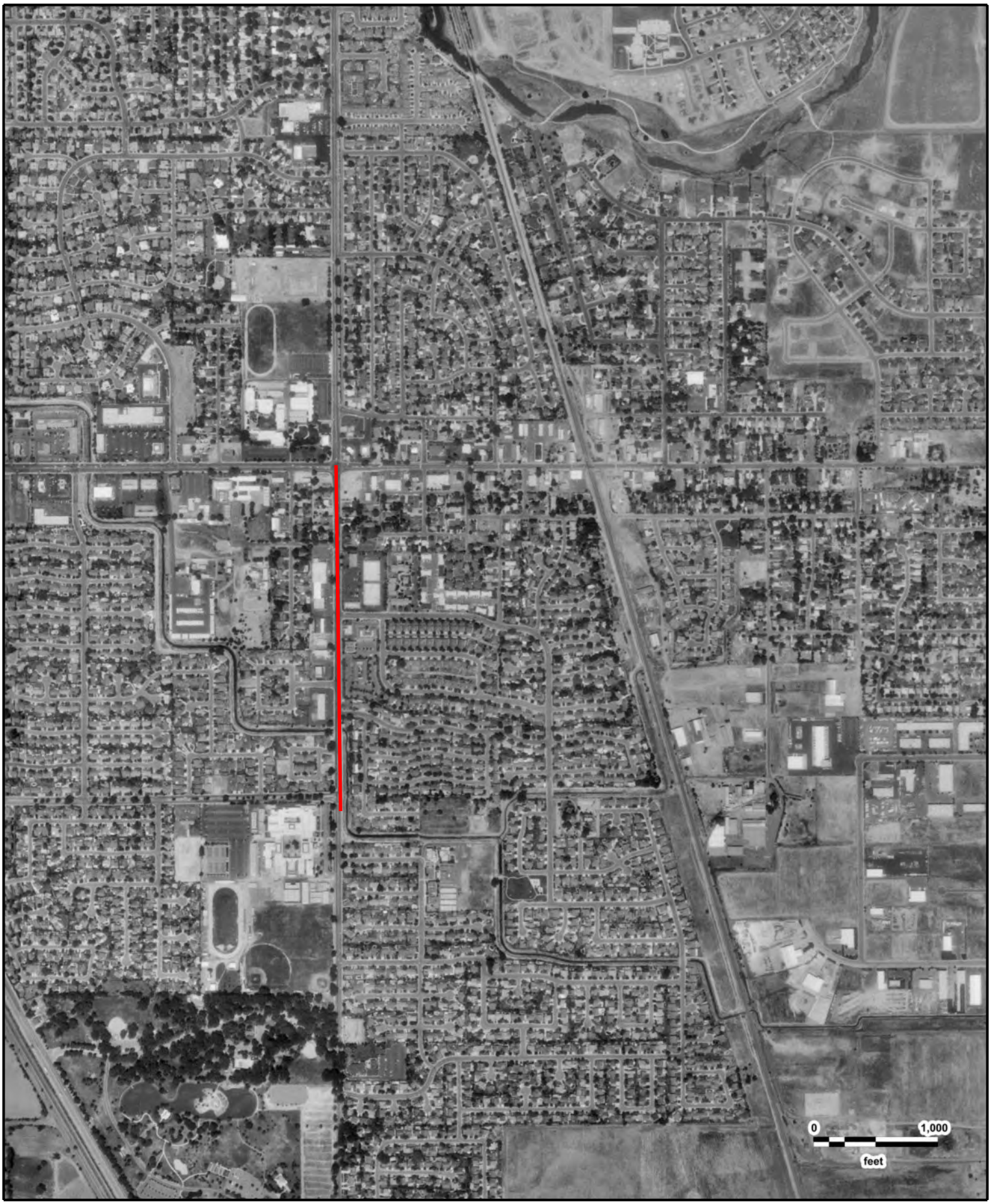
S

Elk Grove ISA
USGS
05/23/1993

GeoSearch

JOB #: 243496 - 06/22/2018



N
W E
S

Elk Grove ISA
USGS
05/23/1993

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
05/23/1993

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
06/19/1987

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
06/19/1987

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
06/19/1987

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

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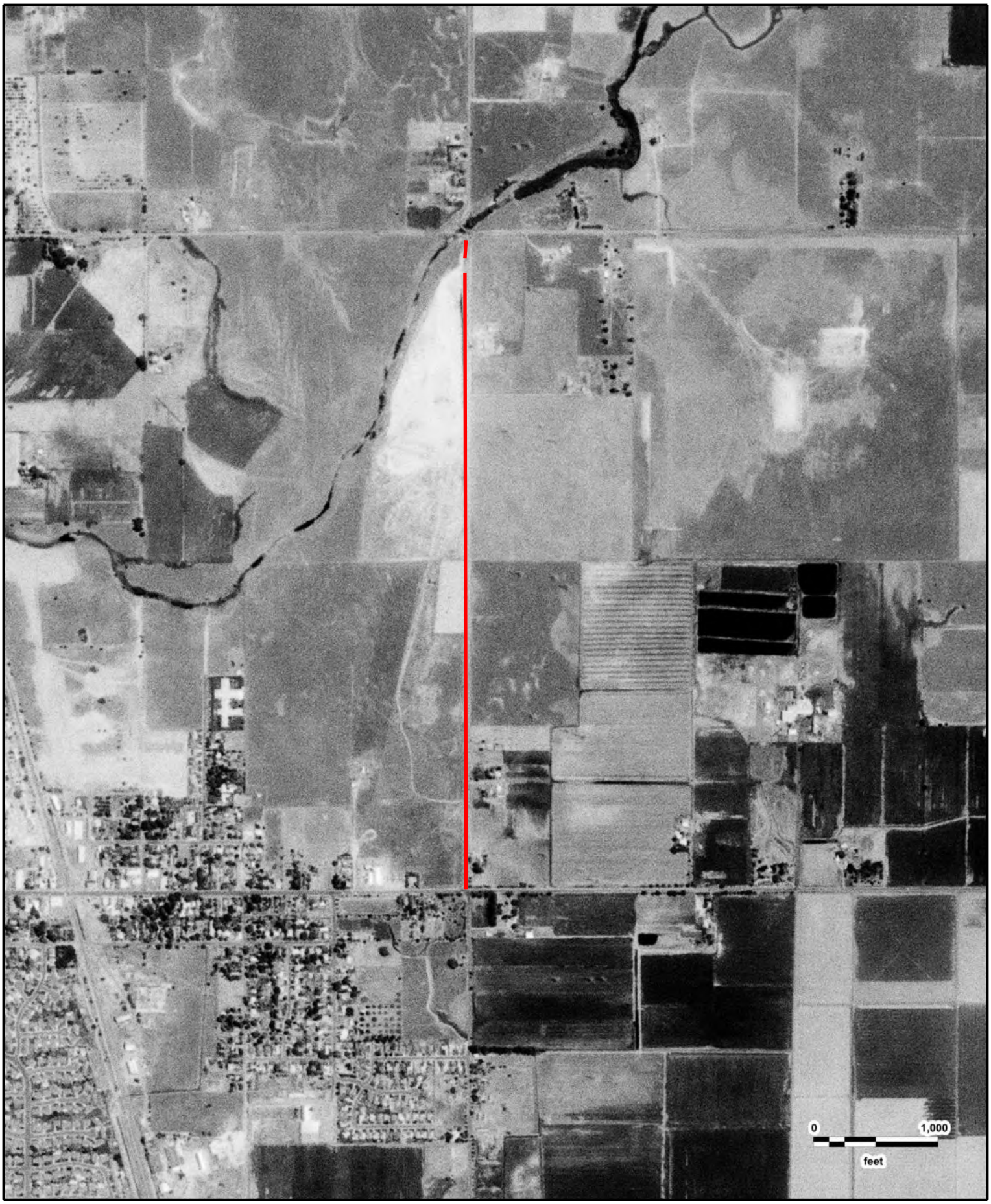
USGS
06/19/1987

GeoSearch

JOB #: 243496 - 06/22/2018

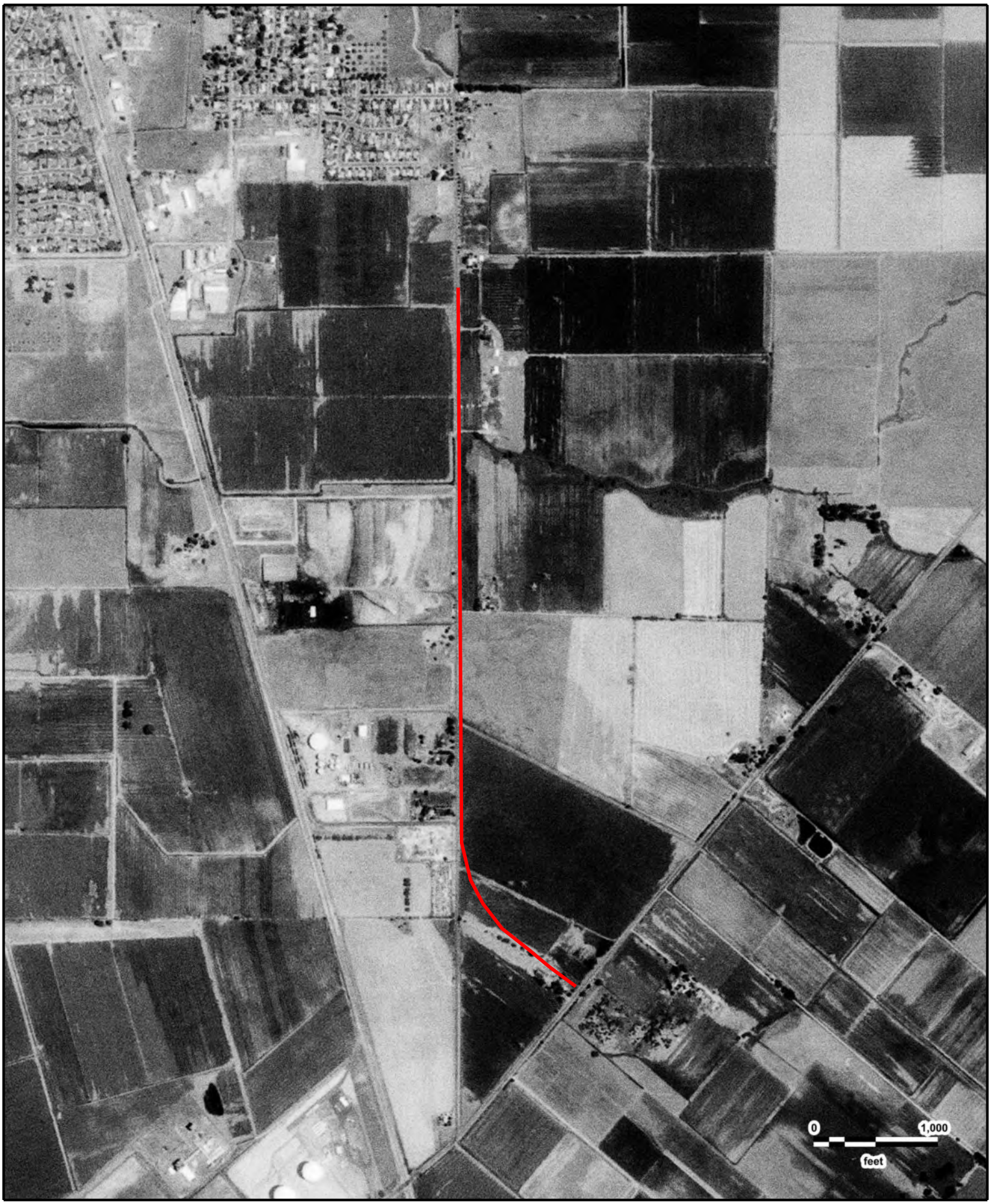


N
W E
S

Elk Grove ISA
USGS
06/05/1977

GeoSearch

JOB #: 243496 - 06/22/2018

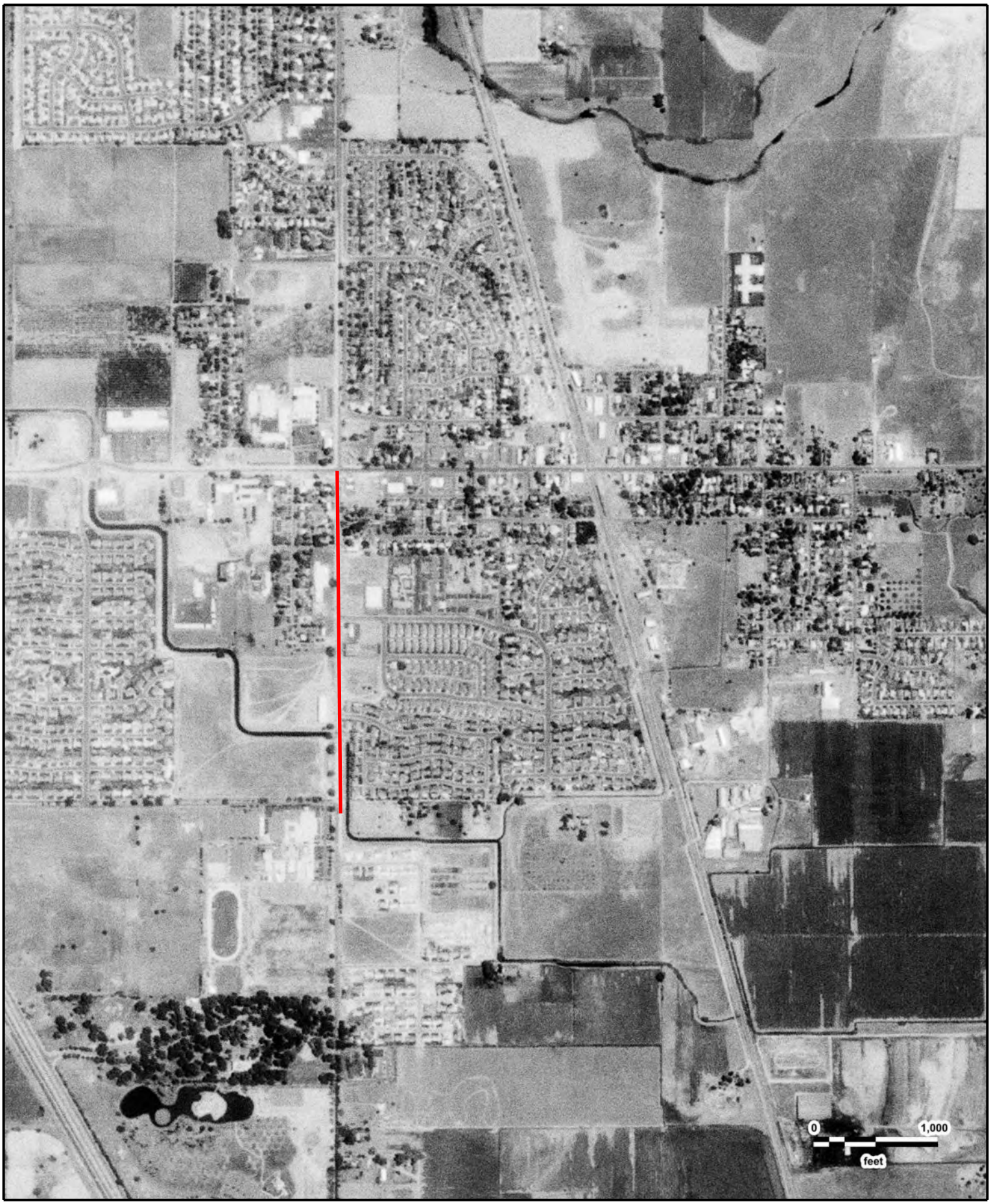


N
W E
S

Elk Grove ISA
USGS
06/05/1977

GeoSearch

JOB #: 243496 - 06/22/2018



N
W E
S

Elk Grove ISA
USGS
06/05/1977

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
06/05/1977

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
05/15/1967

GeoSearch

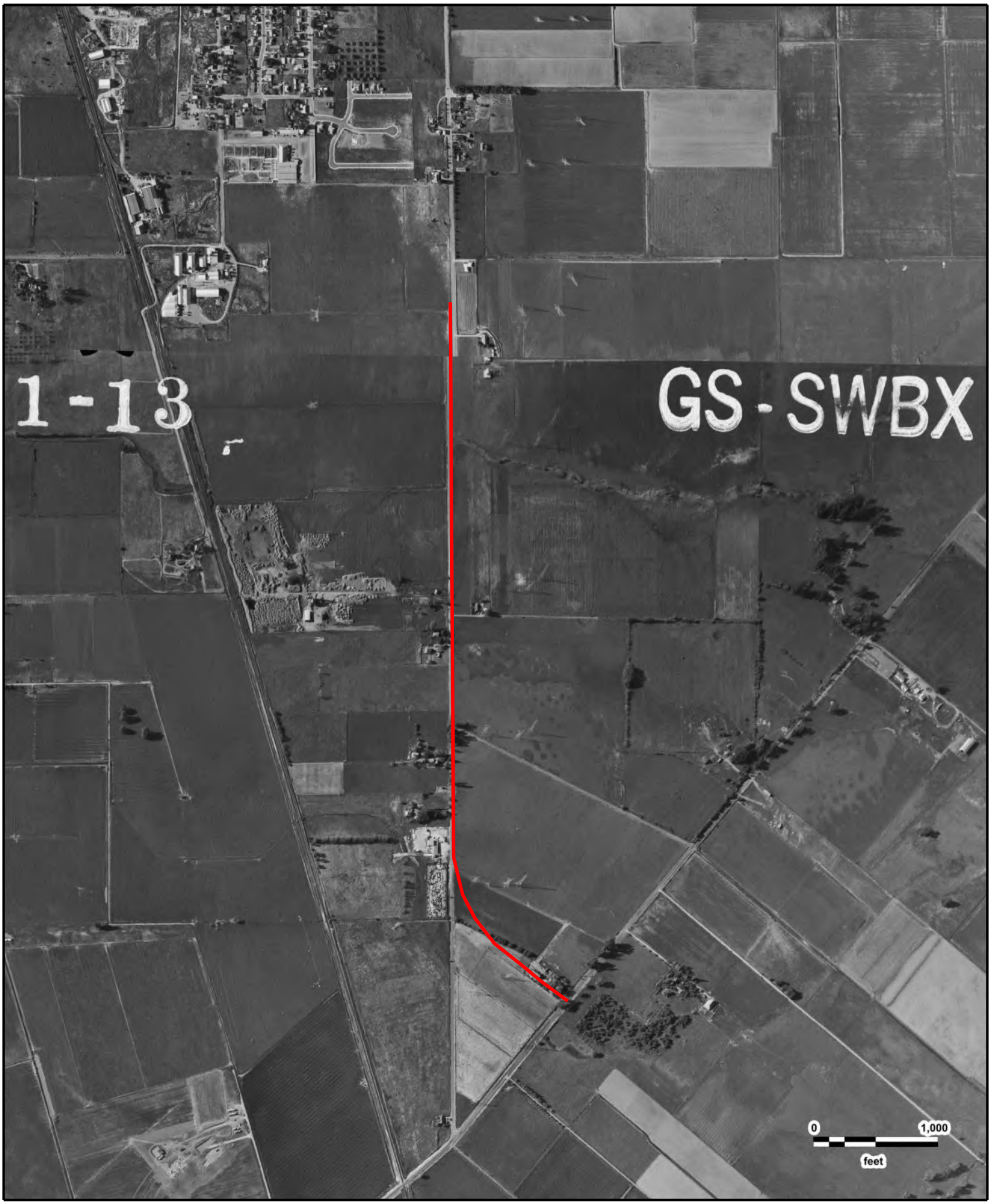
JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
05/15/1967

GeoSearch

JOB #: 243496 - 06/22/2018



N
W E
S

Elk Grove ISA
USGS
05/15/1967

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
05/15/1967

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
USGS
05/15/1967

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
CAS
07/17/1961

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
S

Elk Grove ISA
CAS
07/17/1961

GeoSearch

JOB #: 243496 - 06/22/2018

N
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Elk Grove ISA
CAS
07/17/1961

GeoSearch

JOB #: 243496 - 06/22/2018

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Elk Grove ISA
CAS
07/17/1961

GeoSearch

JOB #: 243496 - 06/22/2018

N
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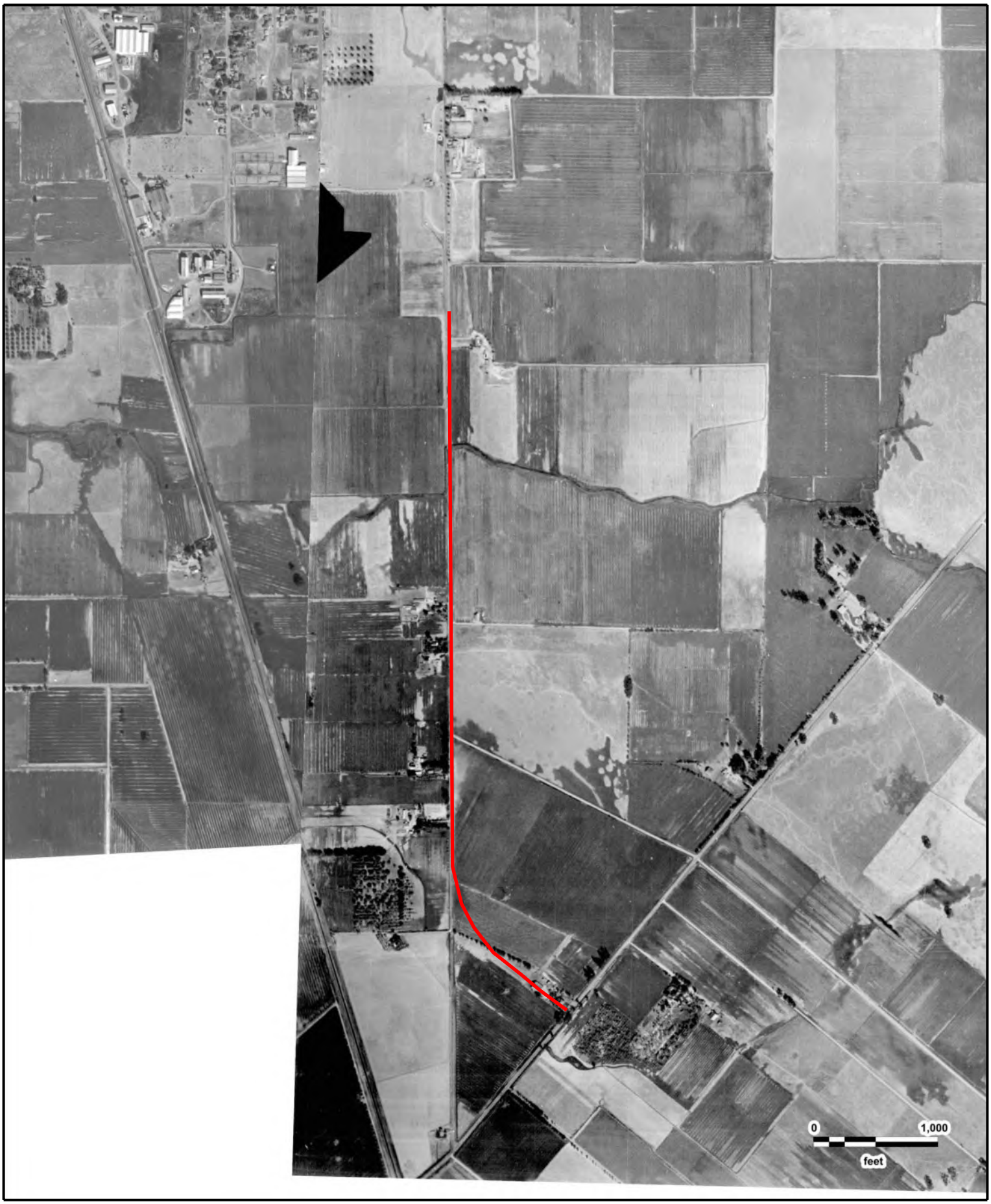
Elk Grove ISA
ASCS
10/04/1952

GeoSearch

JOB #: 243496 - 06/22/2018



N
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Elk Grove ISA
ASCS
10/04/1952

GeoSearch

JOB #: 243496 - 06/22/2018

N
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Elk Grove ISA
ASCS
10/04/1952

GeoSearch

JOB #: 243496 - 06/22/2018

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Elk Grove ISA
ASCS
10/04/1952

GeoSearch

JOB #: 243496 - 06/22/2018

N
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Elk Grove ISA
ASCS
08/17/1937

GeoSearch

JOB #: 243496 - 06/22/2018

N
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Elk Grove ISA
ASCS
08/17/1937

GeoSearch

JOB #: 243496 - 06/22/2018

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Elk Grove ISA
ASCS
08/17/1937

GeoSearch

JOB #: 243496 - 06/22/2018

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Elk Grove ISA
ASCS
08/17/1937

GeoSearch

JOB #: 243496 - 06/22/2018

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Elk Grove ISA
ASCS
08/17/1937

GeoSearch

JOB #: 243496 - 06/22/2018

N
W E
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Elk Grove ISA
ASCS
08/17/1937

GeoSearch

JOB #: 243496 - 06/22/2018

GeoSearch
On time. On target. In touch.™

Historical Topographic Maps

Target Property:

Elk Grove ISA
Elk Grove Blvd
Elk Grove, Sacramento, California 95624

Prepared For:

Environmental Science Assoc-San Francisco

Order #: 110314
Job #: 243491
Project #: D170242
Date: 6/21/2018

Target Property Summary

Elk Grove ISA

Elk Grove Blvd

Elk Grove, Sacramento, California 95624

USGS Quadrangle: ***Elk Grove***

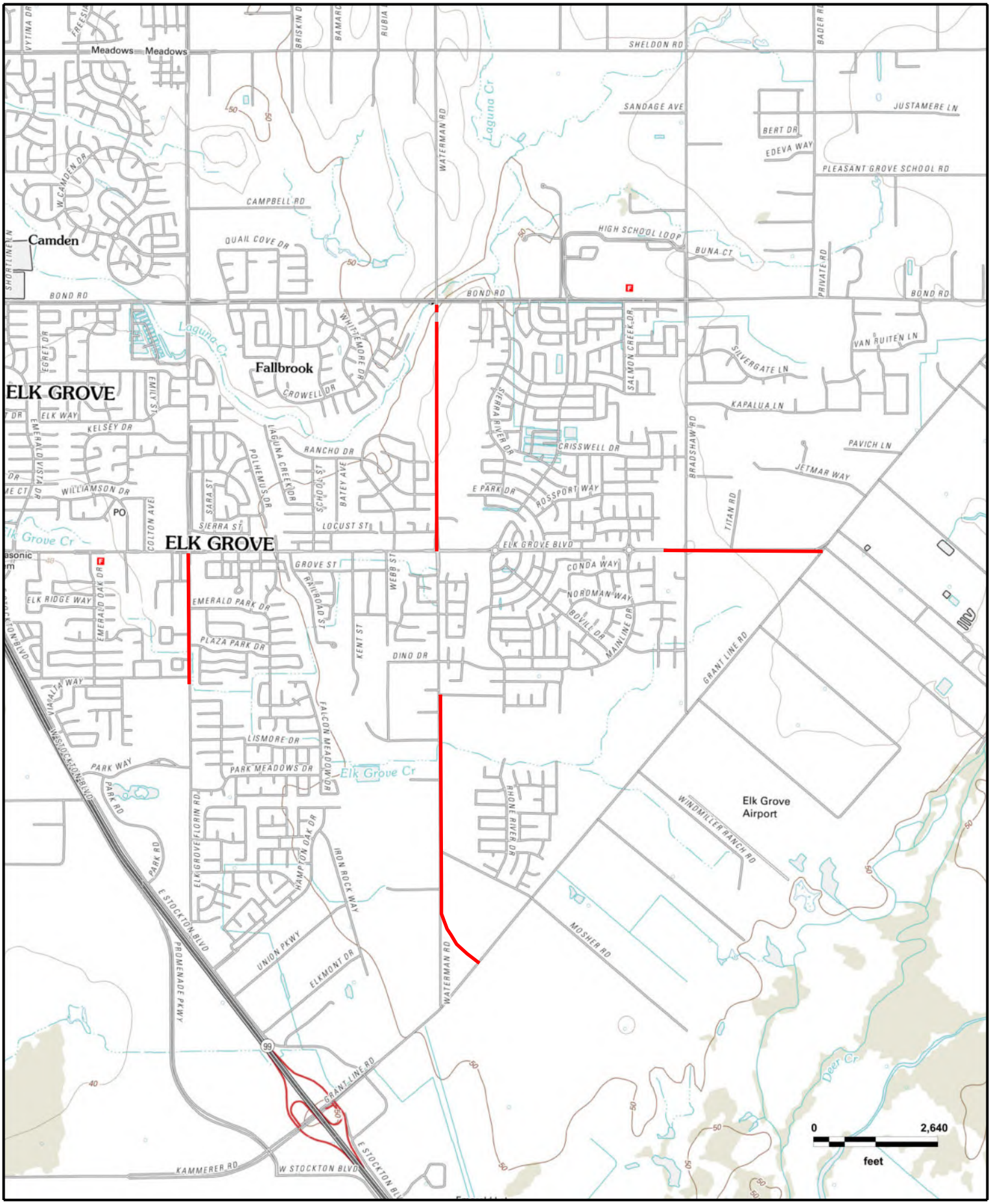
Target Property Geometry: ***Corridor***

Target Property Longitude(s)/Latitude(s):

(-121.371494000, 38.401716000), (-121.371570000, 38.408875000), (-121.353261000, 38.409052000), (-121.353289000, 38.414206000), (-121.353374000, 38.419493000), (-121.353346000, 38.422547000), (-121.353365000, 38.423419000), (-121.353176000, 38.423449000), (-121.353223000, 38.419789000), (-121.353082000, 38.409207000), (-121.324599000, 38.409133000), (-121.324920000, 38.409030000), (-121.327478000, 38.409022000), (-121.352959000, 38.409022000), (-121.352846000, 38.388579000), (-121.352695000, 38.387603000), (-121.352242000, 38.386893000), (-121.349977000, 38.385384000)

Topographic Map Summary

Date	Quadrangle	Scale
2012	Bruceville, CA (2012)	1" = 2640'
	Florin, CA (2012)	
	Elk Grove, CA (2012)	
	Galt, CA (2012)	
2012	Elk Grove, CA (2012)	1" = 2000'
	Florin, CA (2012)	
2012	Florin, CA (2012)	1" = 2000'
	Elk Grove, CA (2012)	
1968 PHOTOREVISED 1980	Florin, CA	1" = 2000'
1968 PHOTOREVISED 1975	Florin, CA	1" = 2000'
1968	Florin, CA	1" = 2000'
1953	Florin, CA	1" = 2000'
1909	Florin, CA	1" = 2640'
1968 PHOTOREVISED 1979	Elk Grove, CA	1" = 2000'
1968 PHOTOREVISED 1975	Elk Grove, CA	1" = 2000'
1968	Elk Grove, CA	1" = 2000'
1952	Elk Grove, CA	1" = 2000'
1941	Franklin, CA	1" = 5208'
1894	Lodi, CA	1" = 10420'



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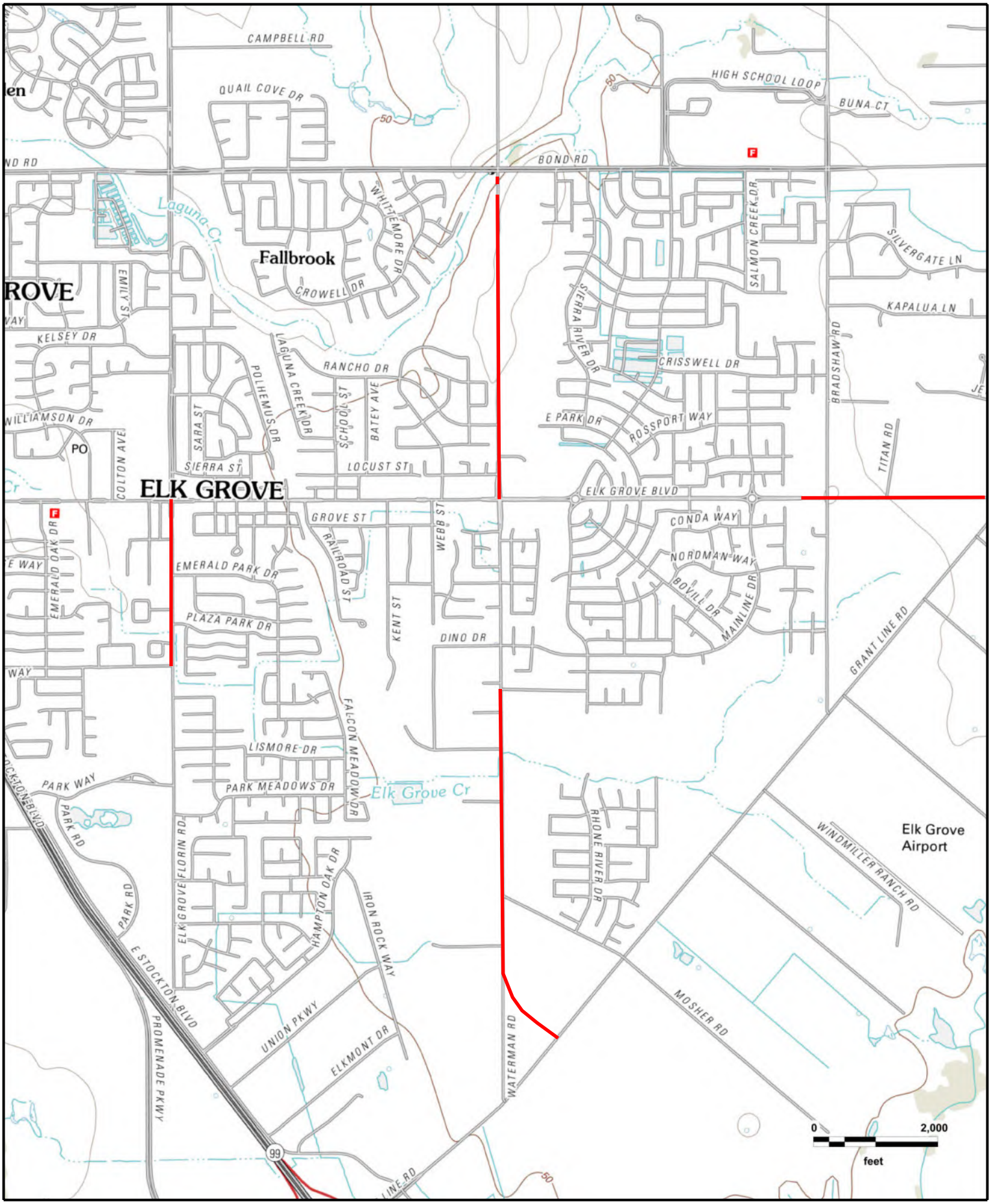
Elk Grove ISA
Bruceville, CA (2012); Florin, CA (2012)
Elk Grove, CA (2012); Galt, CA (2012)

GeoSearch

JOB #: 243491 - 06/21/2018



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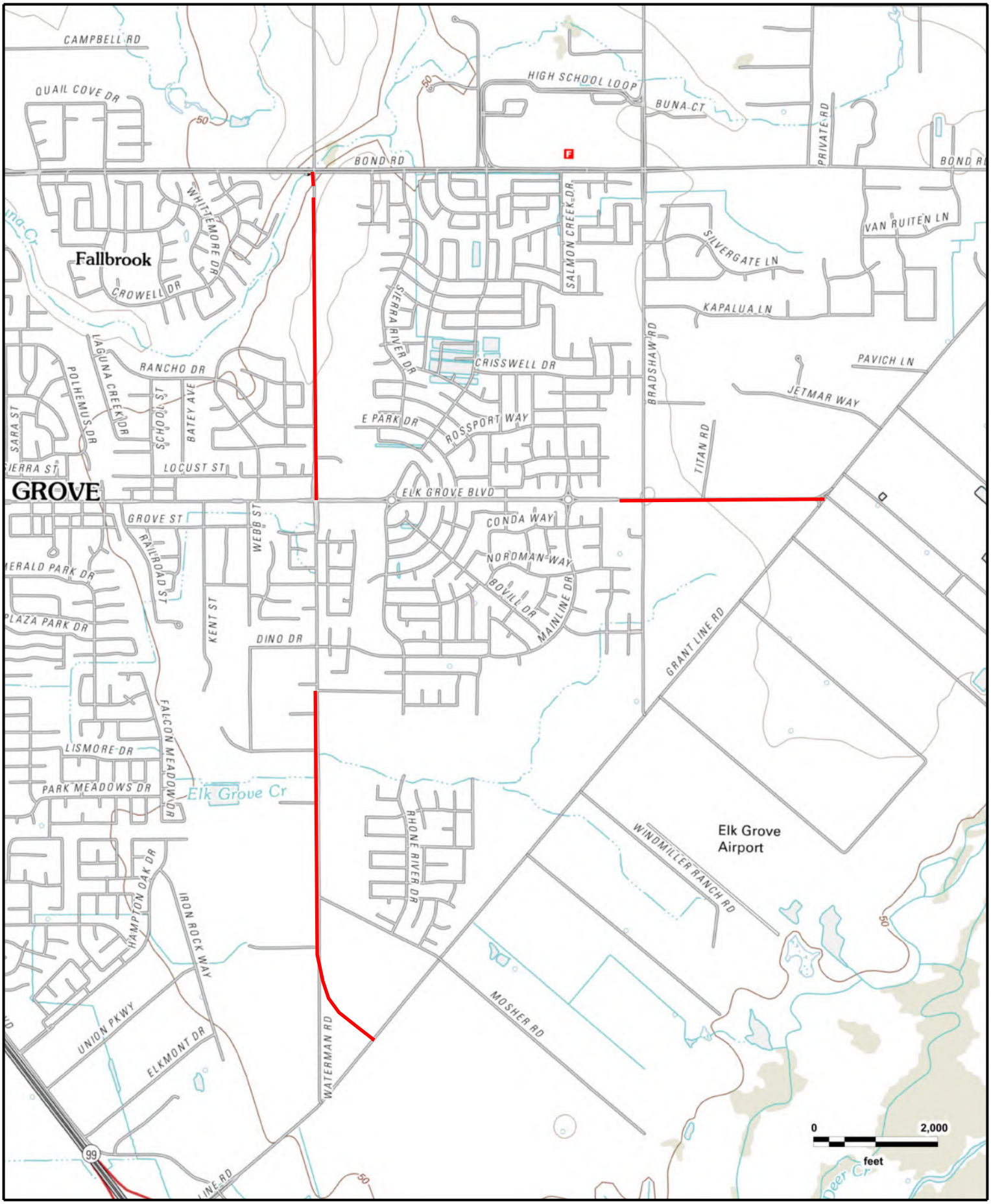
Elk Grove ISA
Elk Grove, CA (2012), Florin, CA (2012)

GeoSearch

JOB #: 243491 - 06/21/2018



N
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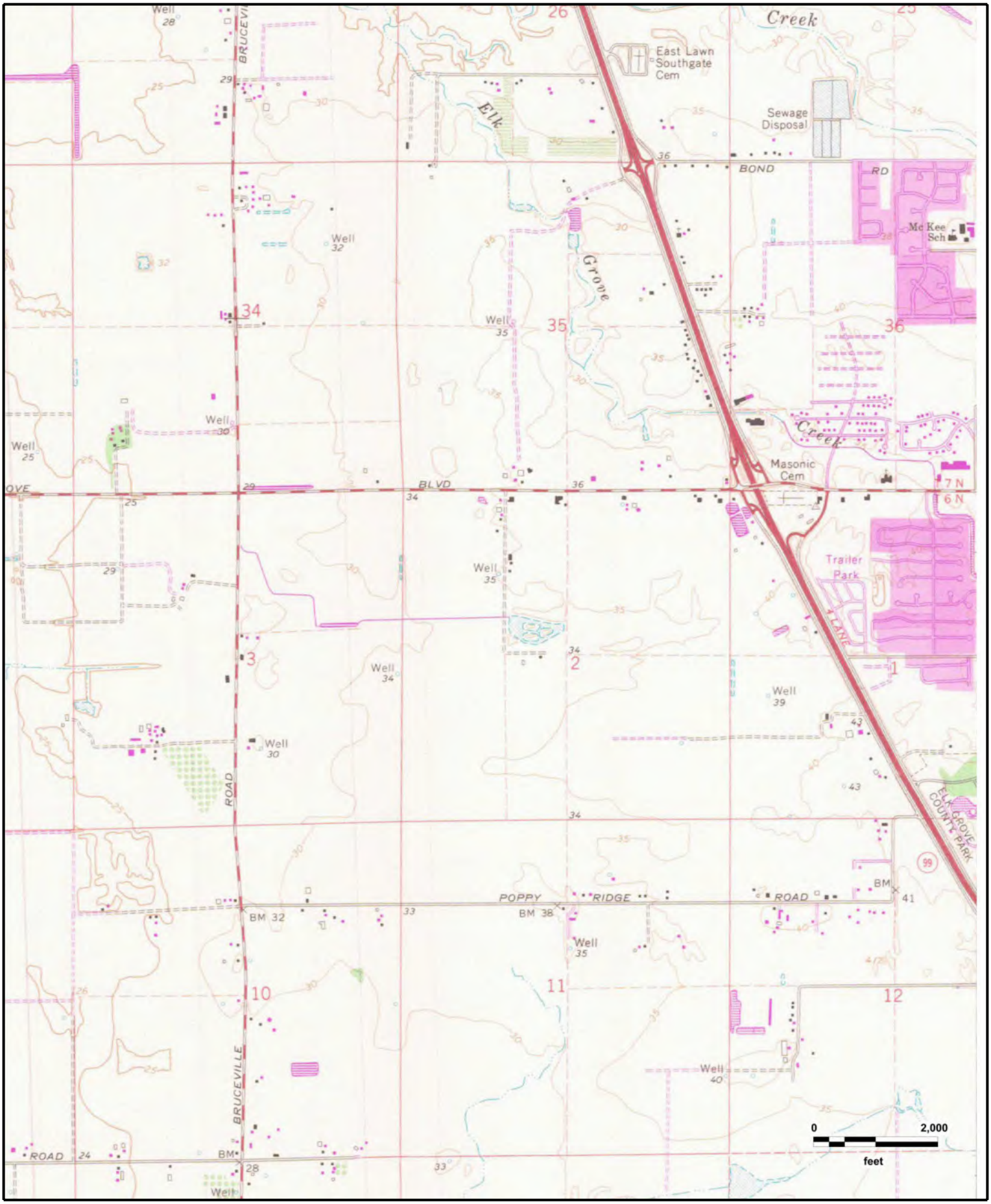
Elk Grove ISA
Florin, CA (2012), Elk Grove, CA (2012)

GeoSearch

JOB #: 243491 - 06/21/2018



N
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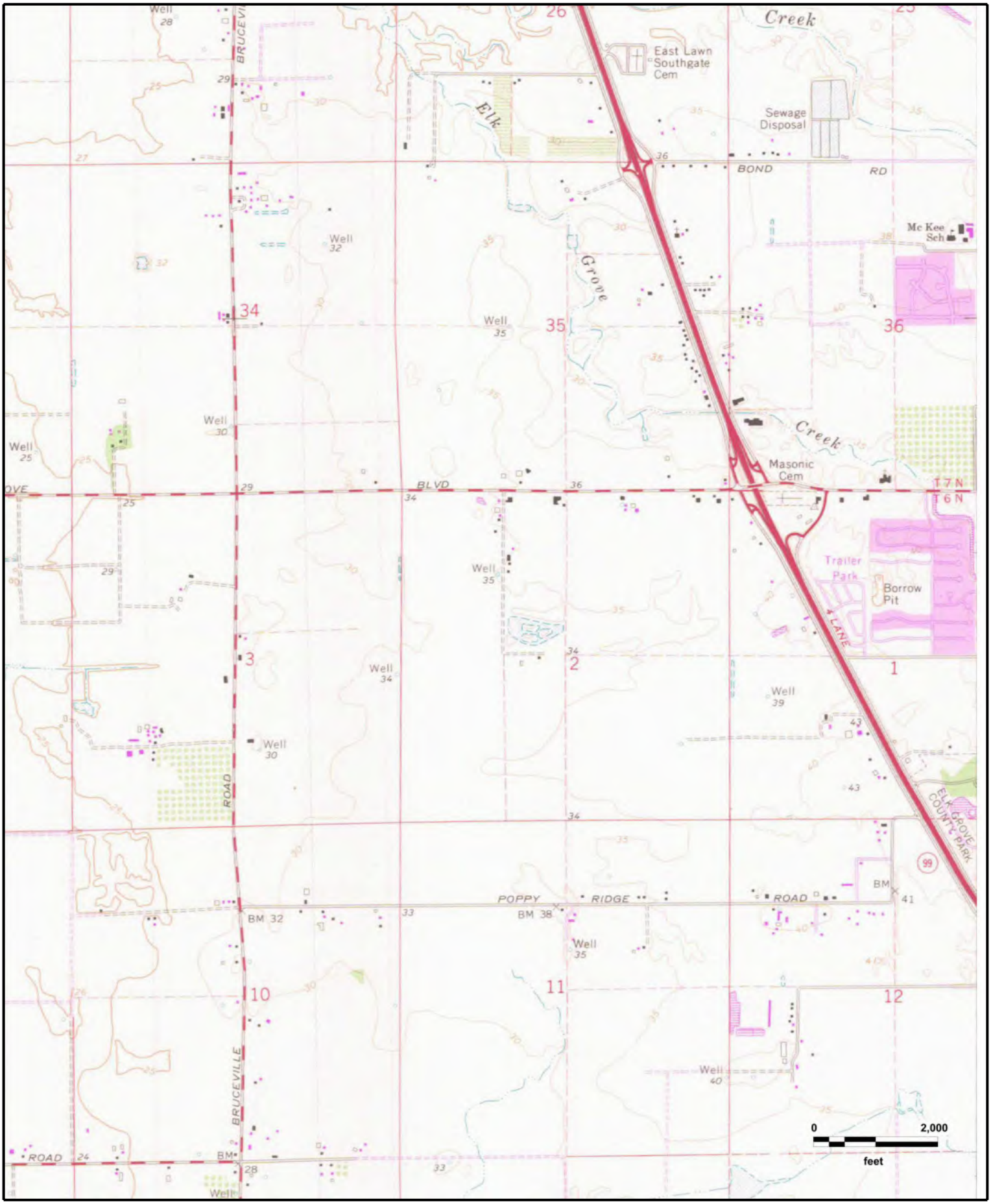
Elk Grove ISA
Florin, CA (1980)

GeoSearch

JOB #: 243491 - 06/21/2018



N
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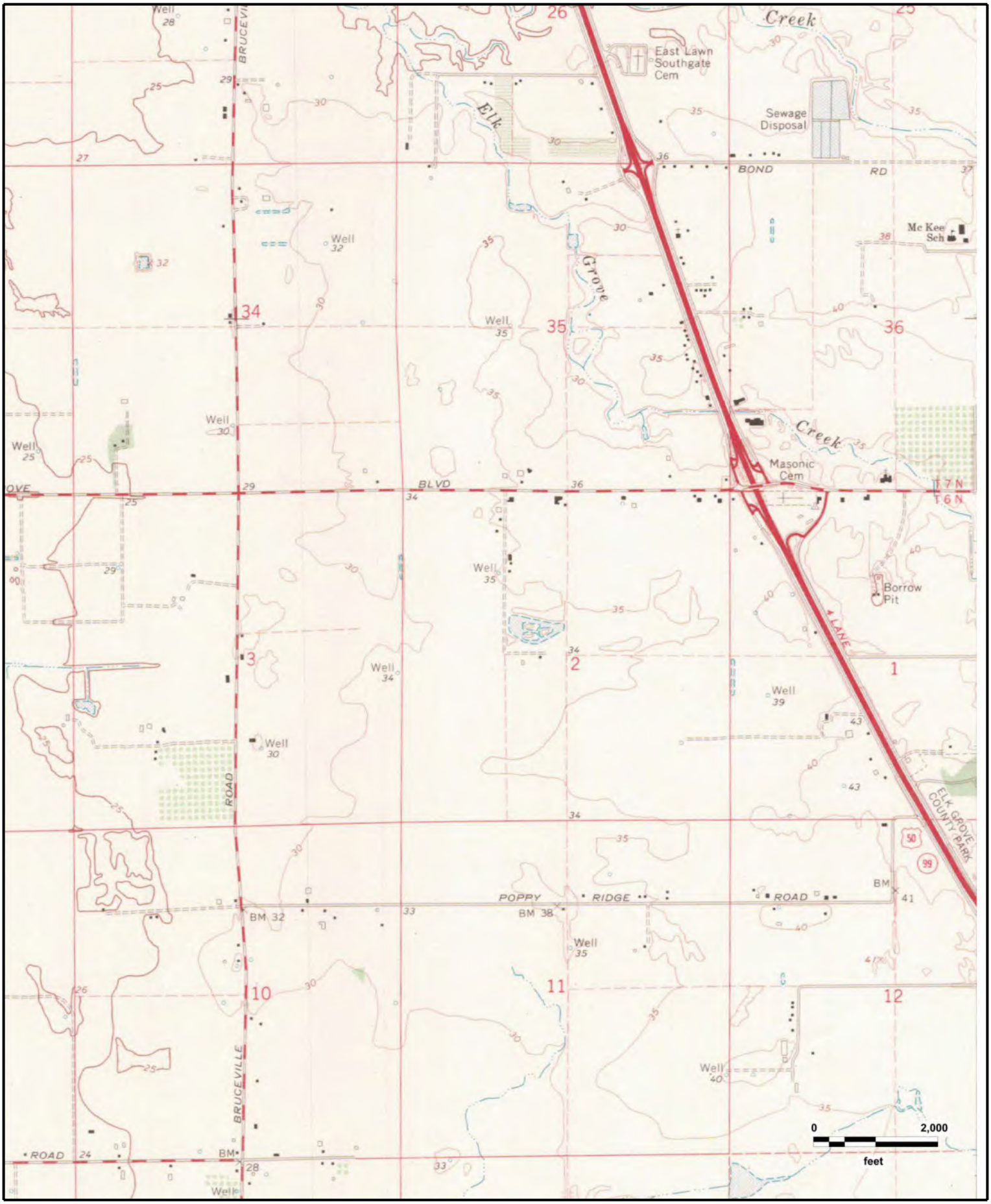
Elk Grove ISA
Florin, CA (1975)

GeoSearch

JOB #: 243491 - 06/21/2018



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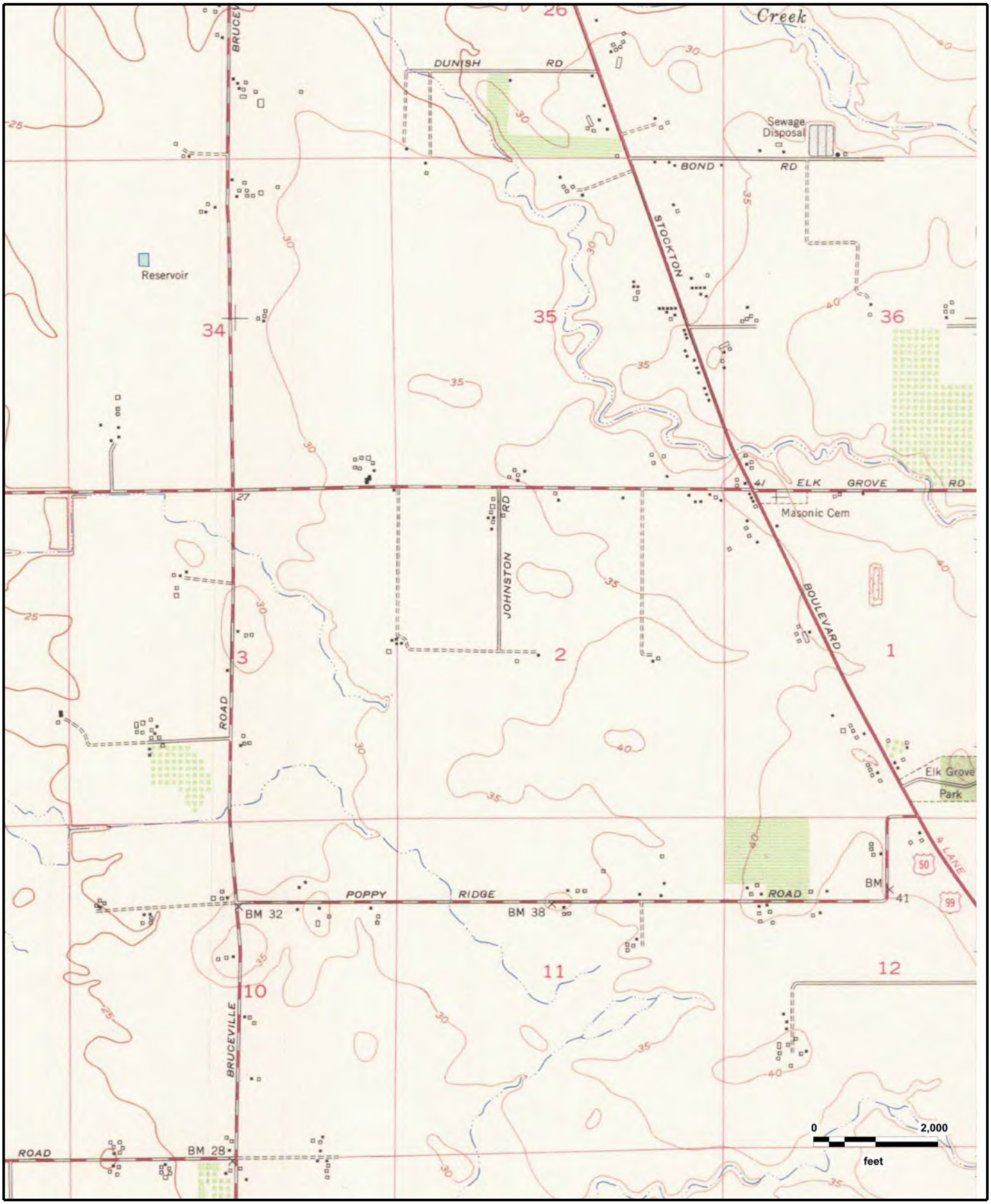
Elk Grove ISA
Florin, CA (1968)

GeoSearch

JOB #: 243491 - 06/21/2018



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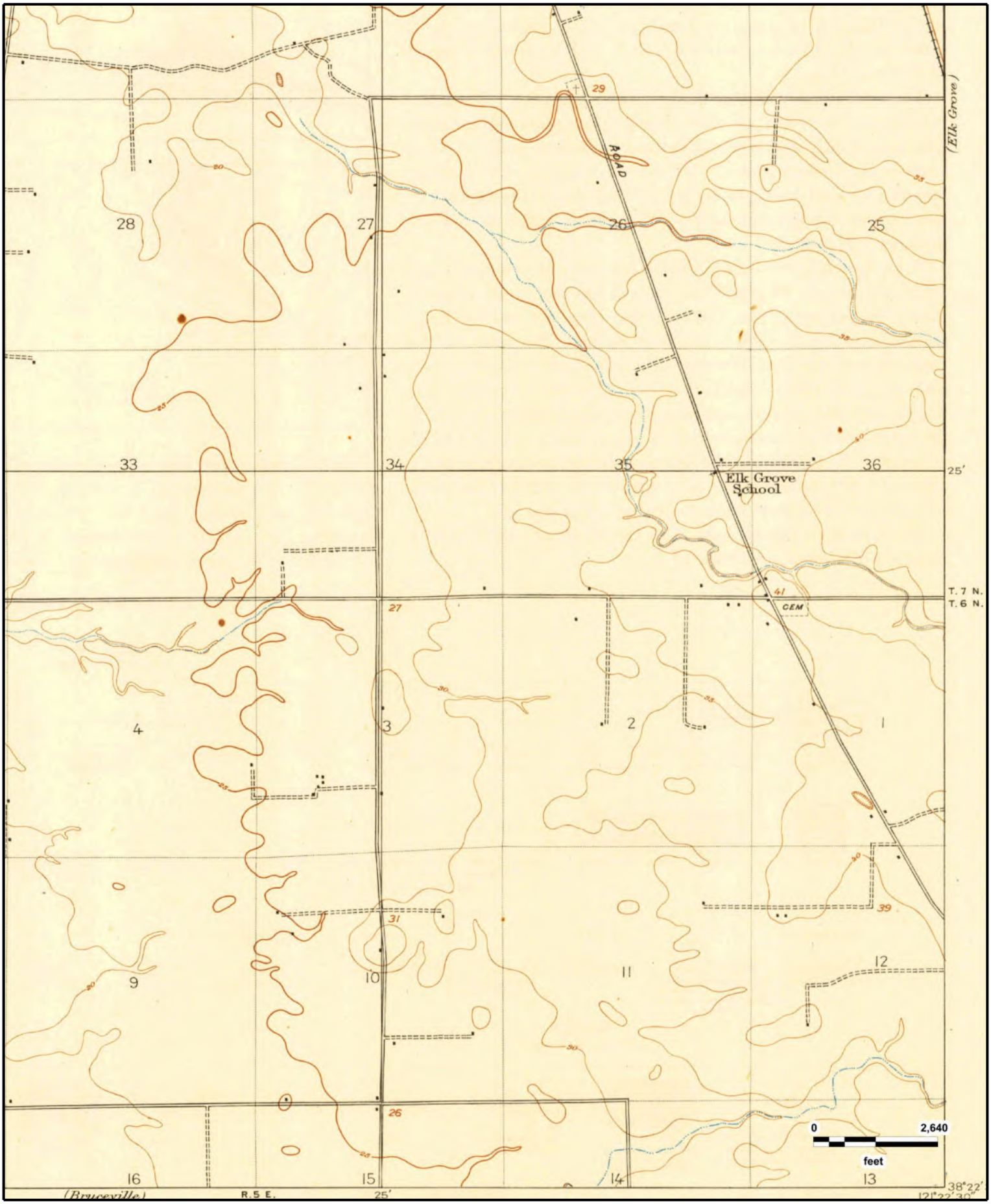
Elk Grove ISA
Florin, CA (1953)

GeoSearch

JOB #: 243491 - 06/21/2018



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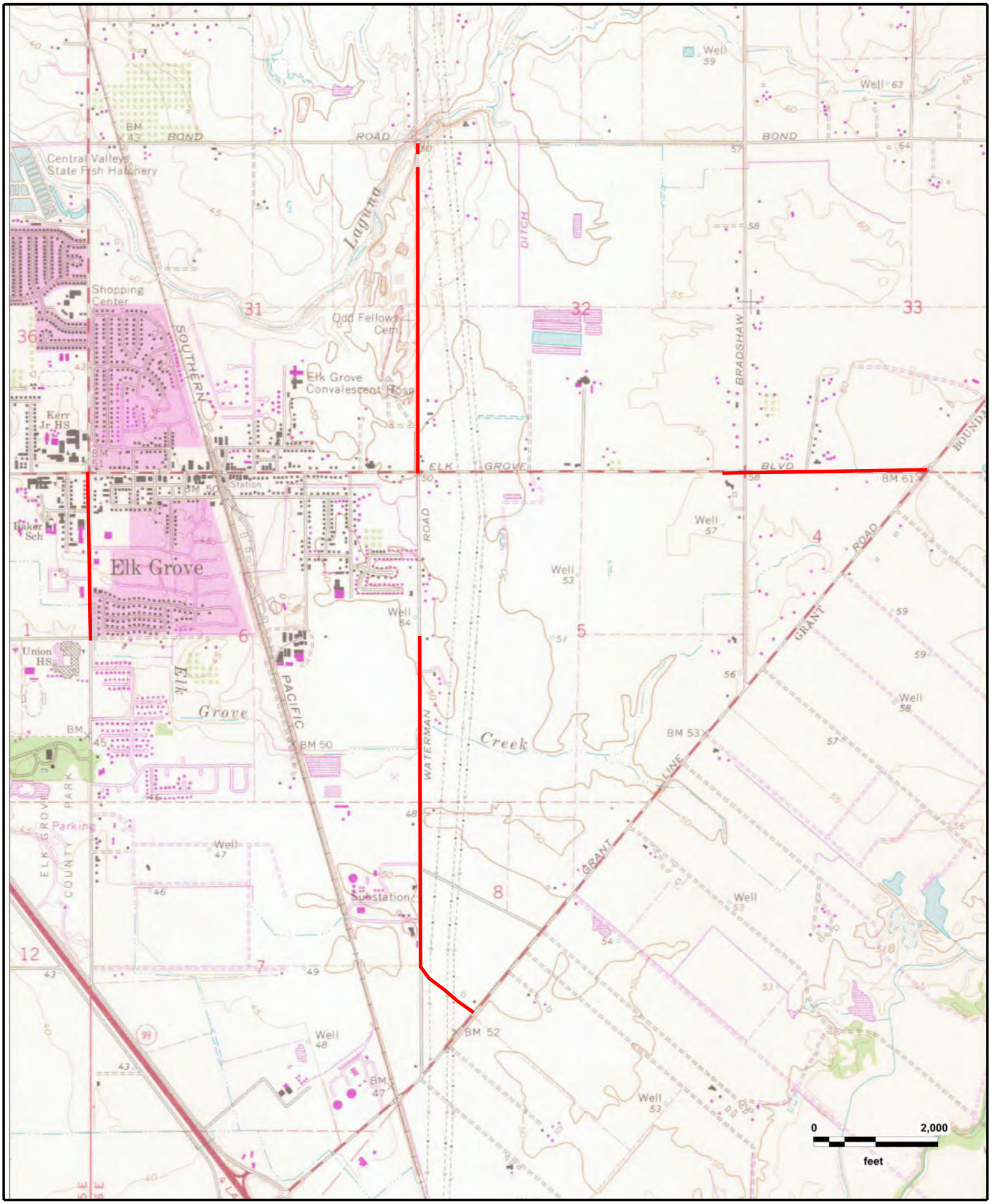
Elk Grove ISA
Florin, CA (1909)

GeoSearch

JOB #: 243491 - 06/21/2018



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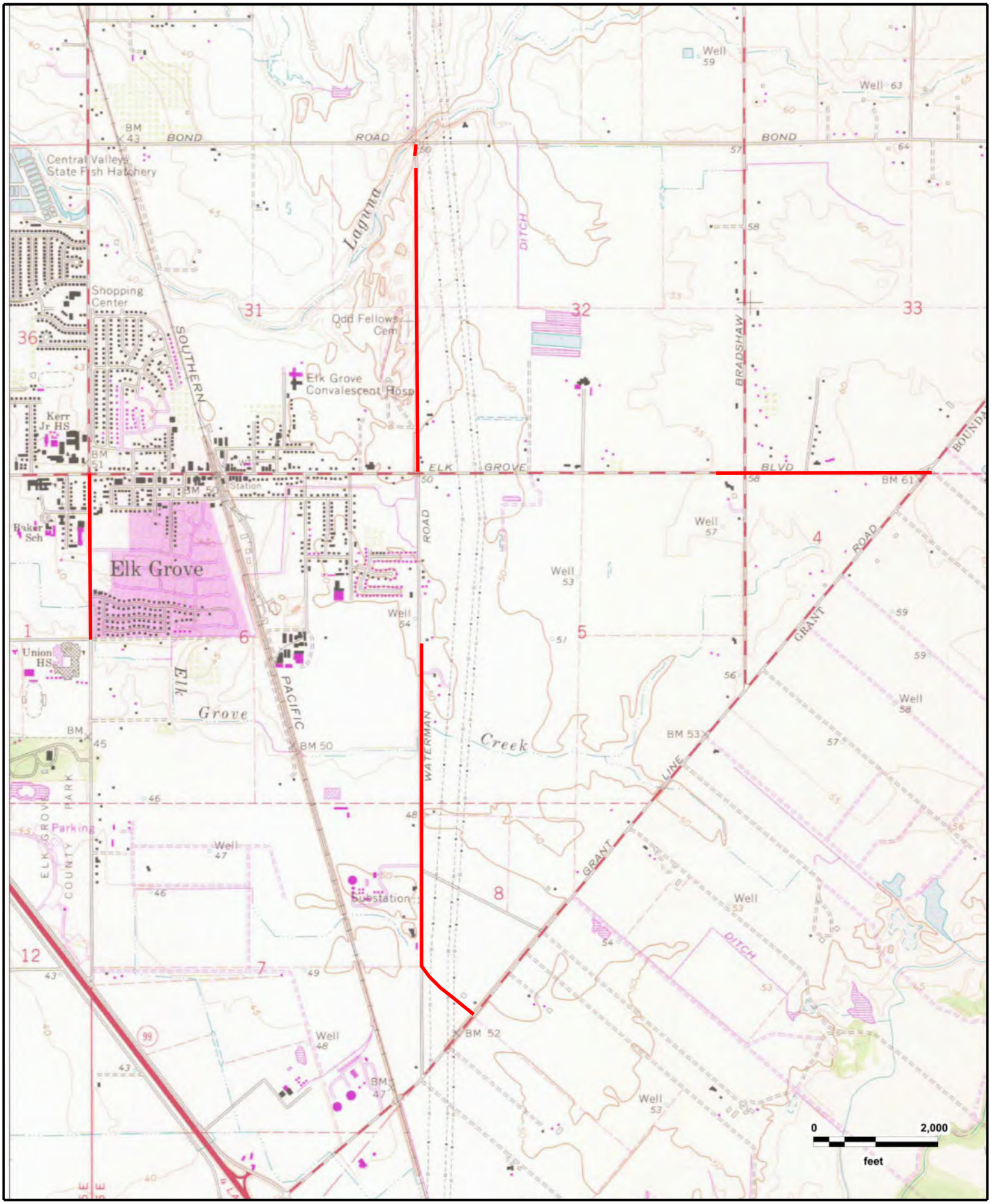
Elk Grove ISA
Elk Grove, CA (1979)

GeoSearch

JOB #: 243491 - 06/21/2018



N
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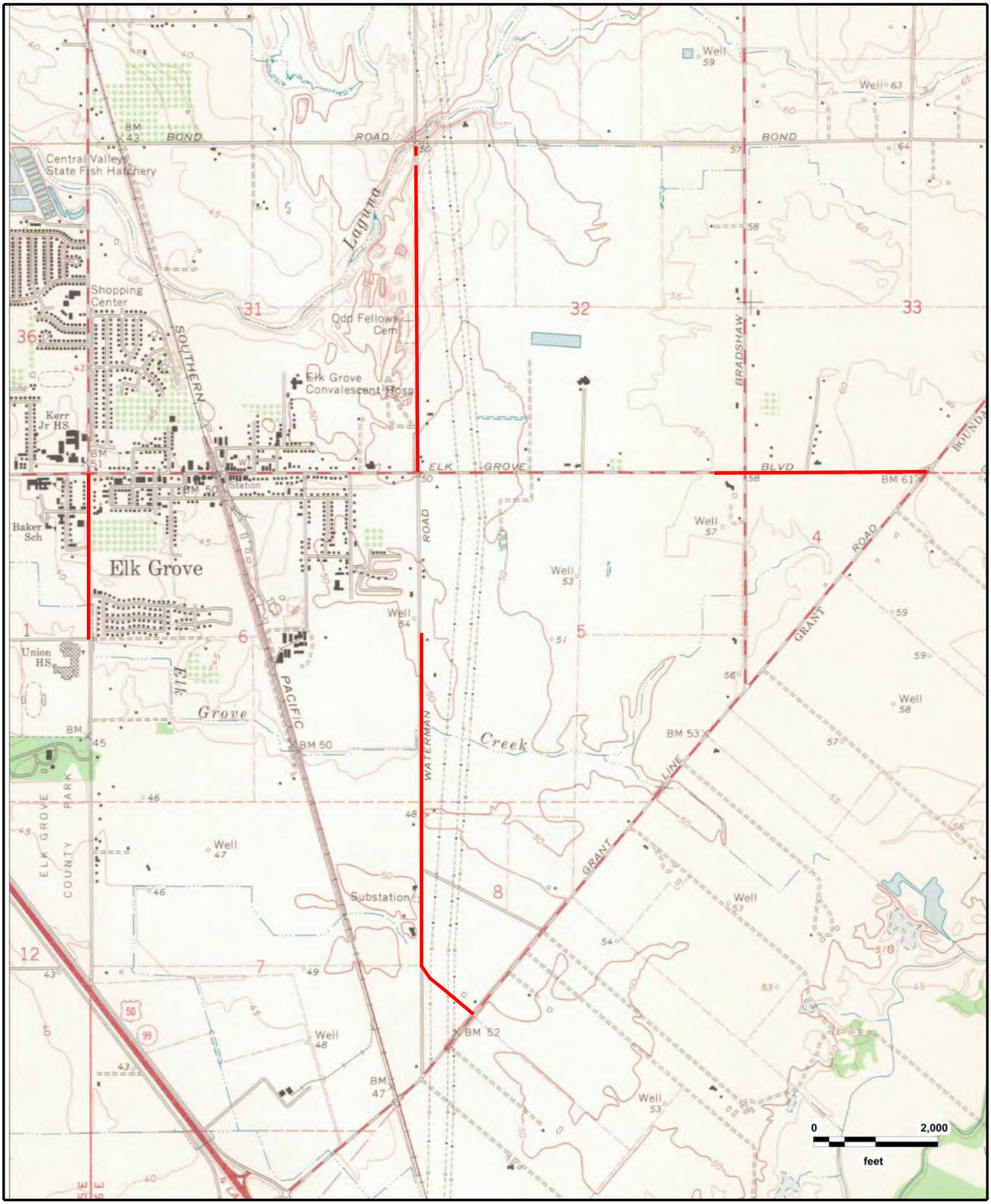
Elk Grove ISA
Elk Grove, CA (1975)

GeoSearch

JOB #: 243491 - 06/21/2018



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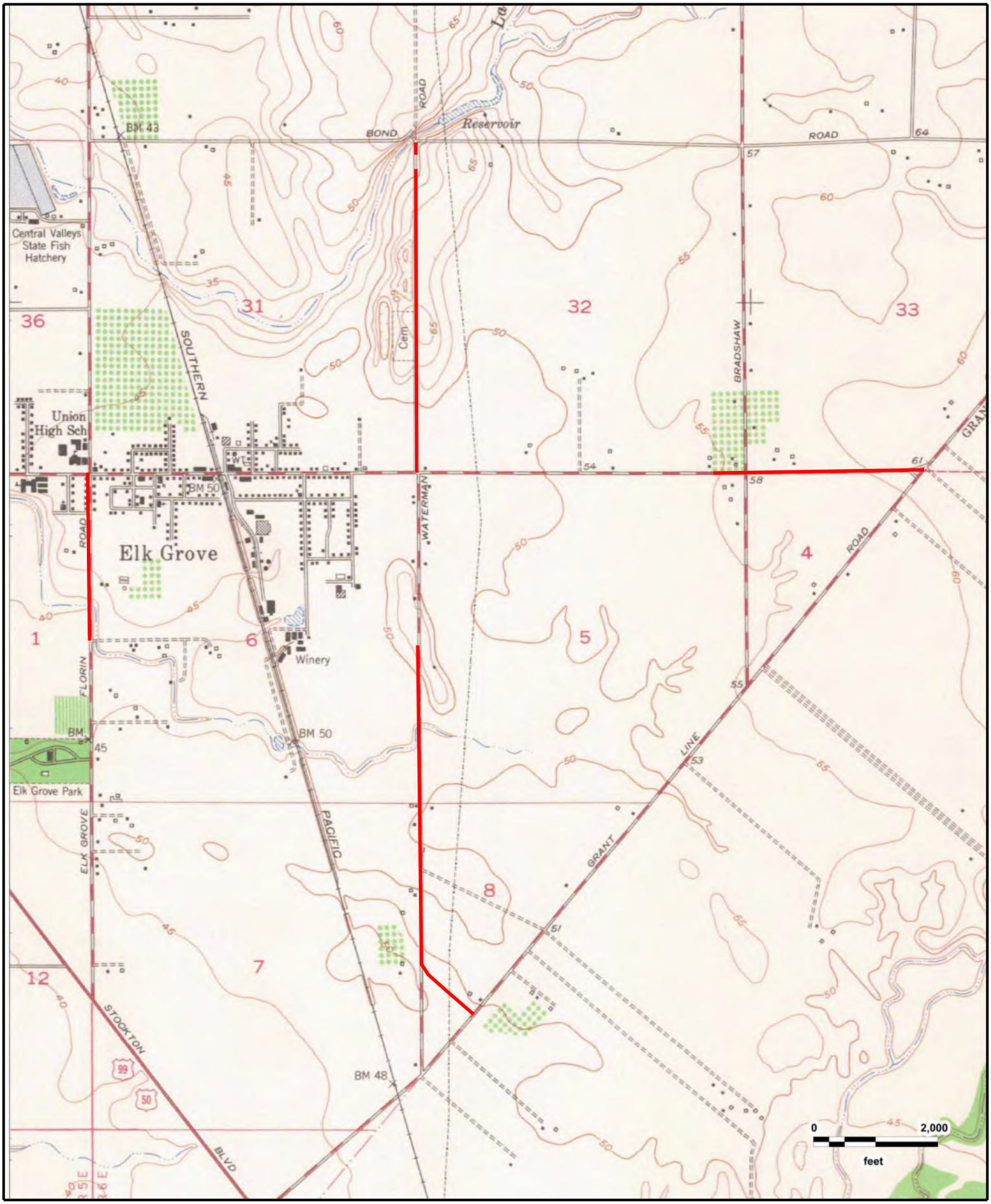
Elk Grove ISA
Elk Grove, CA (1968)

GeoSearch

JOB #: 243491 - 06/21/2018



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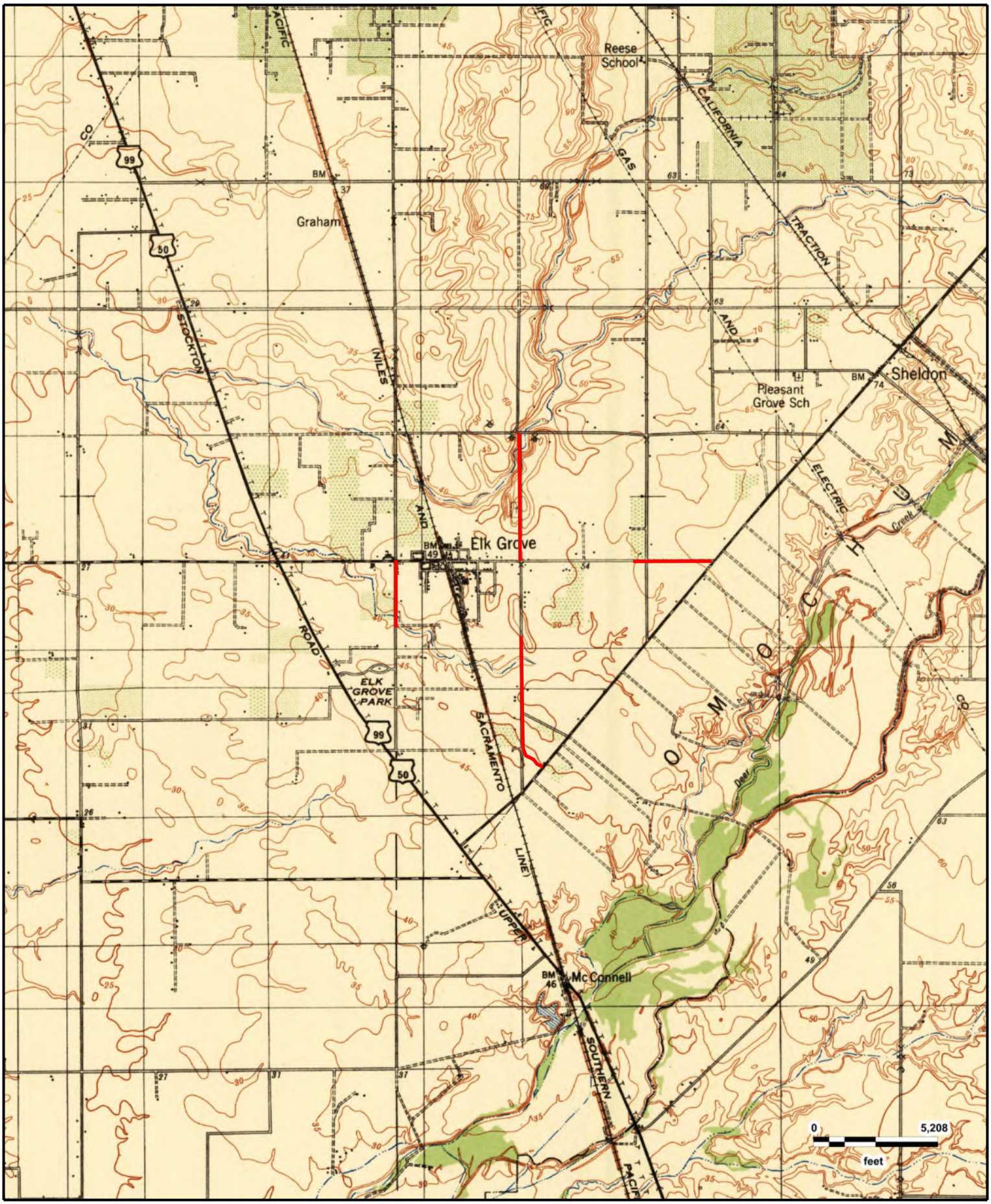
Elk Grove ISA
Elk Grove, CA (1952)

GeoSearch

JOB #: 243491 - 06/21/2018



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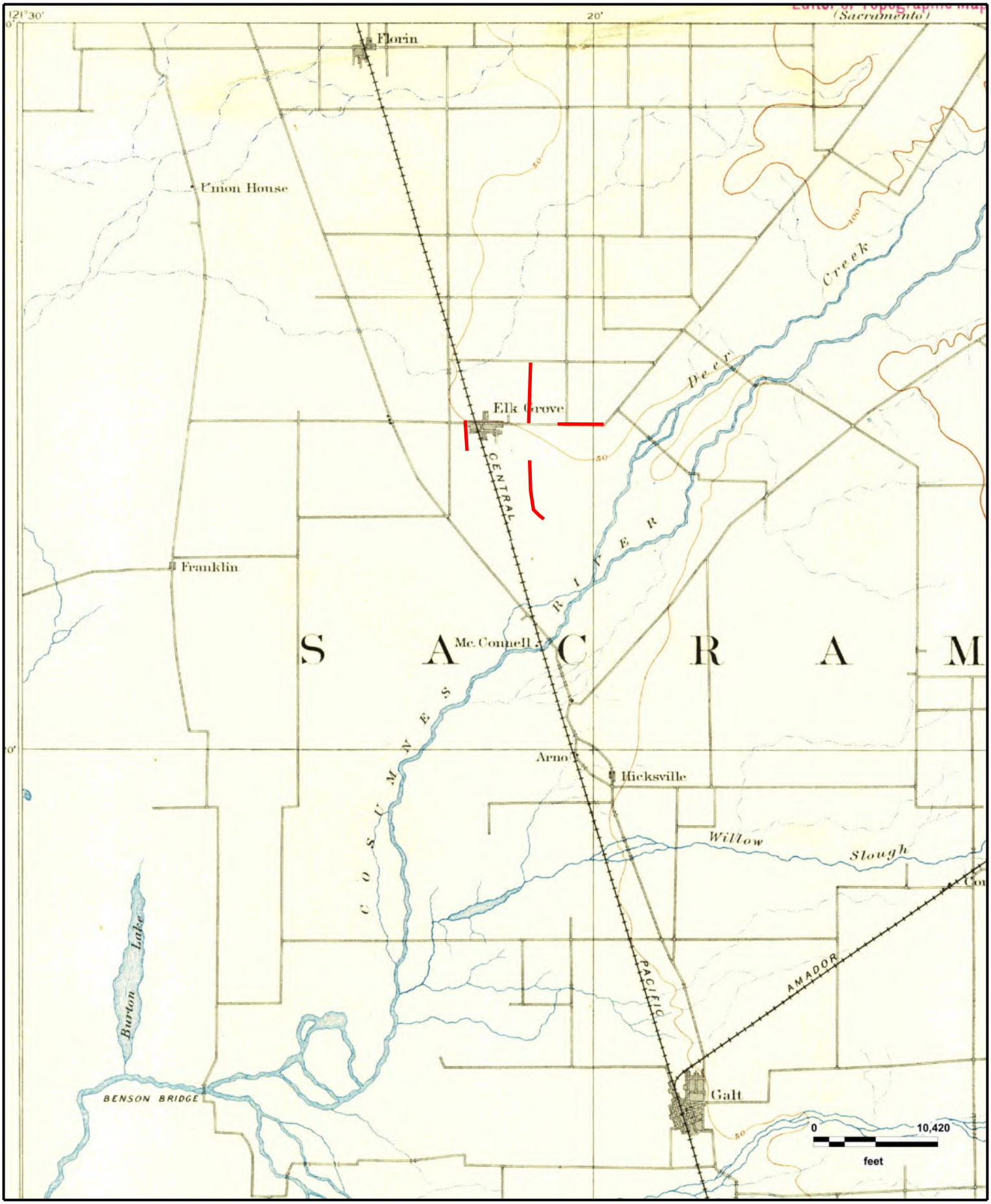
Elk Grove ISA
Franklin, CA (1941)

GeoSearch

JOB #: 243491 - 06/21/2018



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Elk Grove ISA
Lodi, CA (1894)

GeoSearch

JOB #: 243491 - 06/21/2018

GeoSearch
On time. On target. In touch.™

City Directory Target Property Address

Target Property:

Elk Grove Florin Rd,

Elk Grove, CA 95624

Prepared For:
Environmental Science Assoc-San Francisco

Order #: 110314

Project #: D170242

Date: 6/25/2018

9645 ELK GROVE FLORIN RD

1970	ST PETERS LUTH CH	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	WEISHOFF L R REV	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9675 ELK GROVE FLORIN RD

1977	L&M FURNITURE	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9687 ELK GROVE FLORIN RD

2011	BEADWARE	INFOUSA	PACIFIC

9692 ELK GROVE FLORIN RD

2016	DIMPLE RECORDS	INFOUSA	SOUTH WEST
2007	DIMPLE RECORDS INC ELK GRV	HAINES DIRECTORY	SACRAMENTO WEST
2007	X [EMERALD PARK DR INTS]	HAINES DIRECTORY	SACRAMENTO WEST

9696 ELK GROVE FLORIN RD

2002-03	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	X [EMERALD PARK DR INTS]	HAINES DIRECTORY	SACRAMENTO WEST
1994	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	MARASIGAN E R MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	MARASIGAN F J MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	MARASIGAN&MARASIGAN	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	SMALLEY A JAMES DPM	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	MARASIGAN ERLINDA	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9700 ELK GROVE FLORIN RD

2016	PARKWAY CAR WASH	INFOUSA	SOUTH WEST
2007	PARKWAY CAR WASH	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	PARKWAY CAR WASH	HAINES DIRECTORY	SACRAMENTO WEST

1994	PARKWAY CAR WASH		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	PARKWAY CAR WASH		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	PARKWAY DRIVE IN		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	PARKWAY DRIVE IN		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	PARKWAY DRIVE IN		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9701 ELK GROVE FLORIN RD

2016	CAPEL YOUNT REAL ESTATE		INFOUSA	SOUTH WEST
2016	MEDI CANN INC	# 100	INFOUSA	SOUTH WEST
2016	CARTAGZ	# 101	INFOUSA	SOUTH WEST
2016	TAXWORKS PLUS INC	# 101	INFOUSA	SOUTH WEST
2011	GOLD STAR FINANCIAL		INFOUSA	PACIFIC
2011	MEDICANN	# 100	INFOUSA	PACIFIC
2007	CAPEL YOUNT REAL ESTATE		HAINES DIRECTORY	SACRAMENTO WEST
2007	COMNTY LENDING		HAINES DIRECTORY	SACRAMENTO WEST
2007	DL YOUNT CONST COMPANY		HAINES DIRECTORY	SACRAMENTO WEST
2007	FRANCO CONSTRUCTION CO		HAINES DIRECTORY	SACRAMENTO WEST
2007	PARTNERS MORTGAGE		HAINES DIRECTORY	SACRAMENTO WEST
2007	TACO AQUI		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	GALISKY LARRY		HAINES DIRECTORY	SACRAMENTO WEST
1994	SCHAFER BUD INS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	STATE FARM INS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	COURT YRD CHIRO OFC	B	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	KAMINSKY THOMAS DC	B	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	SCHAFER BUD INS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	STATE FARM INS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

1985	TACO AQUI	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	TACO AQUI	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9710 ELK GROVE FLORIN RD

2016	MAYTAG STORE	INFOUSA	SOUTH WEST
2016	VALLEY OAK MAYTAG APPLIANCE	INFOUSA	SOUTH WEST
2011	ELK GROVE APPLIANCE SVC	INFOUSA	PACIFIC
2007	ELK GRV APPLIANCE SERVICE	HAINES DIRECTORY	SACRAMENTO WEST
2007	ELK GRV FLOWERS BY CASEY	HAINES DIRECTORY	SACRAMENTO WEST
2007	MAYTAG VALLEY OAK	HAINES DIRECTORY	SACRAMENTO WEST
2007	VALLEY OAK MAYTAG APPLIANCE CT	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ELK GRV APPLIANCE SERVICE	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ELK GRV LAGUNA APPLIANCE	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	MAYTAG VALLEY OAK	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	VALLEY OAK MAYTAG APPLIANCE CT	HAINES DIRECTORY	SACRAMENTO WEST
1994	FIRESIDE FLORIST	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	FIRESIDE FLORIST	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	FLOWERS BY CASEY	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	ELK GROVE GRDN CNTR	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	MIYATA MANJO	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9716 ELK GROVE FLORIN RD

2016	SHERWIN-WILLIAMS	INFOUSA	SOUTH WEST
2011	SHERWIN-WILLIAMS	INFOUSA	PACIFIC
2007	SHERWIN-WILL CO	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	SHERWIN WILLIAMS CO	HAINES DIRECTORY	SACRAMENTO WEST

1994	SHERWIN WILLIAMS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9717 ELK GROVE FLORIN RD

2016	BIO DATA MEDICAL LAB		INFOUSA	SOUTH WEST
2016	DORMINEY JASON DDS		INFOUSA	SOUTH WEST
2016	DORMINEY ORTHODONTICS		INFOUSA	SOUTH WEST
2016	FORDE NICHOLAS H MD		INFOUSA	SOUTH WEST
2016	THUY HA		INFOUSA	SOUTH WEST
2016	VISION CARE OPTOMETRY		INFOUSA	SOUTH WEST
2011	BIO DATA MEDICAL LAB		INFOUSA	PACIFIC
2011	CHIN BRUCE OD		INFOUSA	PACIFIC
2011	MICHELSEN RICHARD DDS		INFOUSA	PACIFIC
2011	REDDY PRAVINA DDS		INFOUSA	PACIFIC
2007	BELL MELVIN C DDS		HAINES DIRECTORY	SACRAMENTO WEST
2007	CHANTRY JEFFREY C DDS		HAINES DIRECTORY	SACRAMENTO WEST
2007	DIVA BY DESIGN		HAINES DIRECTORY	SACRAMENTO WEST
2007	GREENWOOD LEE J INC		HAINES DIRECTORY	SACRAMENTO WEST
2007	MICHELSEN RICHARD DDS		HAINES DIRECTORY	SACRAMENTO WEST
2007	WEBBER JOHN D DDS		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	BELL MELVIN C DDS		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	BELL MELVIN C DDS		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	DIVA BY DESIGN	E	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	GREENWOOD LEE J OD INC		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	MICHELSEN RICHARD DDS		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	WEBBER JOHN D DDS		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	20/20 EYE N SPEC		HAINES DIRECTORY	SACRAMENTO WEST
1994	BELL MEVLIN C DDS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

1994	E G ELECTROLYSIS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ELK GRV ELCTRLYSS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	GREENWOOD LEE J OD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	MICHELSEN RICHD DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	WEBBER JOHN D DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	20 20 EYE N SPEC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	BELL MELVIN C DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	GANDY CHRIS INS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	GREENWOOD BRETT OD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	GREENWOOD LEE J OD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	MICHELSEN RICHD DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	STATE FARM INS AGNT	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	WEBBER JOHN D DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	20 20 EYE N SPEC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	BELL MELVIN DR DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	GREENWOOD LEE J OD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	REICH R J DDS INC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	ROLLOFSON D P DMD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	BELL MELVIN DR DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	GREENWOOD LEE J OD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	J&K BOOKKEEPING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	PERICH MICHAEL DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	REICH ROGER J	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

1977	BELL MELVIN DR DDS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	GREENWOOD LEE J OD		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
9720 ELK GROVE FLORIN RD				
2016	BIG O TIRES		INFOUSA	SOUTH WEST
2007	NO CURRENT LISTING		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	BIG O TIRE STORES		HAINES DIRECTORY	SACRAMENTO WEST
1994	BIG O TIRES		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	BIG O TIRES		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
9727 ELK GROVE FLORIN RD				
2016	LUCIA MAR USD		INFOUSA	SOUTH WEST
2016	NEUROLOGY MOUDERRES INC		INFOUSA	SOUTH WEST
2016	PUGA BUILDING MAINTENANCE		INFOUSA	SOUTH WEST
2016	RAD HANDZ SKIN & BODY		INFOUSA	SOUTH WEST
2016	SANDRETTI MATTHEW A DDS		INFOUSA	SOUTH WEST
2016	SANDRETTI STEPHANIE L DDS	# 2	INFOUSA	SOUTH WEST
2016	CALIFORNIA AGRICULTURAL	# 100	INFOUSA	SOUTH WEST
2016	ENGEN VENTURES INC	# 110	INFOUSA	SOUTH WEST
2016	MOORE MICHAEL D DDS	# 115	INFOUSA	SOUTH WEST
2016	MOUDERRES EL-HADI MD	# 120	INFOUSA	SOUTH WEST
2016	ASCHWANDEN-GRAYBERG INSURANCE	# 130	INFOUSA	SOUTH WEST
2016	SCORTIA ADRIANE R DDS	# 155	INFOUSA	SOUTH WEST
2016	MY PLACE 160 WELLNESS SPA/JUDY	# 160	INFOUSA	SOUTH WEST
2016	ADA ACCREDITING & CONSULTING	# 170	INFOUSA	SOUTH WEST
2016	ALLERGY & ASTHMA CLINIC	# 180	INFOUSA	SOUTH WEST
2016	AU ALLAN R MD	# 180	INFOUSA	SOUTH WEST
2016	BUTTINO LYNN M OD	# 190	INFOUSA	SOUTH WEST
2016	WANG MICHAEL OD	# 190	INFOUSA	SOUTH WEST
2016	NGAI & PHIPPS	# 200	INFOUSA	SOUTH WEST
2016	NGAI PETER K DDS	# 200	INFOUSA	SOUTH WEST
2016	PHIPPS PENNY L DDS	# 200	INFOUSA	SOUTH WEST

2016	BECKER COMMERCIAL PROPERTIES	# 210	INFOUSA	SOUTH WEST
2016	SALES TAX SPECIALISTS	# 210	INFOUSA	SOUTH WEST
2016	ALTO DALE L DDS	# 230	INFOUSA	SOUTH WEST
2016	CAPITAL ORAL & MAXILLOFACIAL	# 230	INFOUSA	SOUTH WEST
2016	JOHNSON LOCHE M DDS	# 230	INFOUSA	SOUTH WEST
2016	KANE CHRISTOPHER DDS	# 230	INFOUSA	SOUTH WEST
2016	PHELPS MICHAEL S DDS	# 230	INFOUSA	SOUTH WEST
2016	ELK GROVE PEDIATRICS INC	# 250	INFOUSA	SOUTH WEST
2016	HOWELL THOMAS J MD	# 250	INFOUSA	SOUTH WEST
2016	SAIED RAHAT MD	# 250	INFOUSA	SOUTH WEST
2016	TORGERSON KRISHA I MD	# 250	INFOUSA	SOUTH WEST
2016	ELK GROVE FAMILY DENTISTRY	# 270	INFOUSA	SOUTH WEST
2016	GOARD APRIL	# 270	INFOUSA	SOUTH WEST
2016	ROLLOFSON CHRISTY K DDS	# 270	INFOUSA	SOUTH WEST
2016	ELK GROVE ORTHODONTICS	# 280	INFOUSA	SOUTH WEST
2016	ROLLOFSON DONALD	# 280	INFOUSA	SOUTH WEST
2016	ROLLOFSON DONALD P DDS	# 280	INFOUSA	SOUTH WEST
2016	INTEGRATED THERAPEUTICS	# 290	INFOUSA	SOUTH WEST
2011	CALIFORNIA AGRICULTURAL		INFOUSA	PACIFIC
2011	MASS MUTUAL FINANCIAL GROUP		INFOUSA	PACIFIC
2011	RICK SPEARS GRAPHICS		INFOUSA	PACIFIC
2011	WANG MICHEAL		INFOUSA	PACIFIC
2011	AMERICAN LASER CTR	# 120	INFOUSA	PACIFIC
2011	ASCHWANDEN-GRAYBERG INSURANCE	# 130	INFOUSA	PACIFIC
2011	ELK GROVE FAMILY PHYSICIANS	# 140	INFOUSA	PACIFIC
2011	POLICICCHIO DELORES MD	# 140	INFOUSA	PACIFIC
2011	YU JANET MD	# 140	INFOUSA	PACIFIC
2011	JONES PAUL A CPA	# 150	INFOUSA	PACIFIC
2011	ALLERGY & ASTHMA CLINIC	# 180	INFOUSA	PACIFIC
2011	AU ALLAN R MD	# 180	INFOUSA	PACIFIC
2011	BURT ANDREW MD	# 180	INFOUSA	PACIFIC
2011	NGAI & PHIPPS	# 200	INFOUSA	PACIFIC
2011	NGAI PETER DDS	# 200	INFOUSA	PACIFIC

2011	PHIPPS PENNY L DDS	# 200	INFOUSA	PACIFIC
2011	CAPITAL ORAL & MAXILLOFACIAL	# 230	INFOUSA	PACIFIC
2011	KANE CHRISTOPHER DDS	# 230	INFOUSA	PACIFIC
2011	THYGESON JOHN E MD	# 250	INFOUSA	PACIFIC
2011	GOARD APRIL	# 270	INFOUSA	PACIFIC
2011	MOYNEUR MEGAN E DDS	# 270	INFOUSA	PACIFIC
2011	ROLLOFSON CHRISTY DDS	# 270	INFOUSA	PACIFIC
2011	ELK GROVE ORTHODONTICS	# 280	INFOUSA	PACIFIC
2011	ROLLOFSON DONALD P DDS	# 280	INFOUSA	PACIFIC
2007	BUILDING		HAINES DIRECTORY	SACRAMENTO WEST
2007	AMER INST OF SPINAL SURGERY		HAINES DIRECTORY	SACRAMENTO WEST
2007	ASCHWANDEN-G INS SERV		HAINES DIRECTORY	SACRAMENTO WEST
2007	AUALLEN RICHARD MD		HAINES DIRECTORY	SACRAMENTO WEST
2007	BURT ANDREW MD		HAINES DIRECTORY	SACRAMENTO WEST
2007	CALFARM INSURANCE AGENCY		HAINES DIRECTORY	SACRAMENTO WEST
2007	CAVA DAVID L LAW OFFICES OF		HAINES DIRECTORY	SACRAMENTO WEST
2007	DENTISTRY BY DESIGN		HAINES DIRECTORY	SACRAMENTO WEST
2007	ELK GRV FMLY PHYSCNS MED GRP I		HAINES DIRECTORY	SACRAMENTO WEST
2007	ELK GRV ORTHODONTICS		HAINES DIRECTORY	SACRAMENTO WEST
2007	ELK GRV PEDIATRICS INC		HAINES DIRECTORY	SACRAMENTO WEST
2007	EVANS LORRAINE D CPA MS		HAINES DIRECTORY	SACRAMENTO WEST
2007	FARMERS INS AGENT		HAINES DIRECTORY	SACRAMENTO WEST
2007	FRIEZE & PAUL ATTY		HAINES DIRECTORY	SACRAMENTO WEST
2007	FRIEZE KENNETH W		HAINES DIRECTORY	SACRAMENTO WEST
2007	GRAYBERG RUSSELL		HAINES DIRECTORY	SACRAMENTO WEST
2007	INTGRTD THERAPEUTICS		HAINES DIRECTORY	SACRAMENTO WEST

2007	JOHNSON LOCHE DDS	HAINES DIRECTORY	SACRAMENTO WEST
2007	JONES PAUL A CPA	HAINES DIRECTORY	SACRAMENTO WEST
2007	KANE CHRISTOPHER J DDS	HAINES DIRECTORY	SACRAMENTO WEST
2007	KNUTSON ERIC J DDS	HAINES DIRECTORY	SACRAMENTO WEST
2007	LAGUNA LASER AESTHETIC CENTER	HAINES DIRECTORY	SACRAMENTO WEST
2007	LASER ESTHETICA MEDICAL CORP	HAINES DIRECTORY	SACRAMENTO WEST
2007	LAW OFFICES OF DAVID L CARA	HAINES DIRECTORY	SACRAMENTO WEST
2007	LEE'S PHARMACY	HAINES DIRECTORY	SACRAMENTO WEST
2007	MASS MUTUAL LIFE	HAINES DIRECTORY	SACRAMENTO WEST
2007	MEDICAL WORD THE	HAINES DIRECTORY	SACRAMENTO WEST
2007	MOORE MICHAEL DDS	HAINES DIRECTORY	SACRAMENTO WEST
2007	NGAI PETER DMD	HAINES DIRECTORY	SACRAMENTO WEST
2007	PAUL CRAIG A	HAINES DIRECTORY	SACRAMENTO WEST
2007	PHELPS MICHAEL S DDS	HAINES DIRECTORY	SACRAMENTO WEST
2007	PHIPPS PENNY L DDS	HAINES DIRECTORY	SACRAMENTO WEST
2007	PHYSICANS CLINICAL LAB	HAINES DIRECTORY	SACRAMENTO WEST
2007	PRASAD NALINI G MD	HAINES DIRECTORY	SACRAMENTO WEST
2007	PROFESSIONAL INS SERV	HAINES DIRECTORY	SACRAMENTO WEST
2007	REICH R J INC DDS	HAINES DIRECTORY	SACRAMENTO WEST
2007	RICK SPEARS GRAPHICS	HAINES DIRECTORY	SACRAMENTO WEST
2007	ROLLOFSON DONALD P DMD INC	HAINES DIRECTORY	SACRAMENTO WEST
2007	ROSENBERG CHARLES MFCC	HAINES DIRECTORY	SACRAMENTO WEST
2007	ROYO EYE & LASER CENTER	HAINES DIRECTORY	SACRAMENTO WEST

2007	ROYO PARIS E INC MD		HAINES DIRECTORY	SACRAMENTO WEST
2007	SAIED RAHAT FAAP MD		HAINES DIRECTORY	SACRAMENTO WEST
2007	STROUP J GARLAND MD		HAINES DIRECTORY	SACRAMENTO WEST
2007	TUNGUYEN JESSIE DPM		HAINES DIRECTORY	SACRAMENTO WEST
2007	TUNGUYEN-CON JESSI DPM		HAINES DIRECTORY	SACRAMENTO WEST
2007	WANG MICHAEL OD		HAINES DIRECTORY	SACRAMENTO WEST
2007	YU JANET MD		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	FRIEZE KENNETH W		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	FRIEZE&PAUL ATTY		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	GRAYBERG RUSSELL	130	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	JOHNSON LOCHE DDS	230	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	JONES PAUL A CPA	150	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	KANE CHRISTOPHER K DDS		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	KNUTSON ERIC J DDS	260	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	LAGUNA LASER ESTHETIC CENTER	140	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	LAW OFFICES OF DAVID L CARA		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	MCCORMICK MICHAEL J MD		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	MEDICAL WORD THE	170	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	MONTESANO PASQUALE MD	140	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	MOORE MICHAEL DDS		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	NGAI PETER DMD	200	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	PAUL CRAIG A		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	PHELPS MICHAEL S DDS		HAINES DIRECTORY	SACRAMENTO WEST

2002-03	PHIPPS PENNY L DDS	200	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	R&R PHYS MDCNE&REHAB MED CLNC		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	REICH R J INC DDS		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	RICK SPEARS GRAPHICS	160	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ROLLOFSON DONALD P DMD INC		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ROYO EYE&LASER CENTER		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ROYO PARIS E MD INC		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	SAIED RAHAT MD FAAP		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	STROUP J GARLAND MD		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	WANG MICHAEL OD		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	BUILDING		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ASCHWANDEN CARL		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	AU ALLEN RICHARD MD		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	BURT ANDREW MD	180	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	C B DOCUMENTATION	210	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	DENTISTRY BY DESIGN	260	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	DINIS JOANNE	100	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ELK GRV PEDIATRICS INC	250	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	FARMERS INS AGENT	100	HAINES DIRECTORY	SACRAMENTO WEST
1994	BUILDING		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ASCHWANDEN CARL		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	BURT ANDREW K MD PC		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	CAL FARM INS AGENCY		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

1994	CATERINO MICHK COA	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	DISTLER JAMES M DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ELK GRV FMLY DENTAL	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ELK GRV PEDIATRICS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	FARMERS INC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	FERGUSON INS AGENCY	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	FRIEZE KENNETH W	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	FRIEZE&PAUL ATTYS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	GRAYBERG ASCHWANDE	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	GRAYBERG RUSSELL	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	HAYDEN DIANE H LCSW	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	HOMESTEAD RE SERVS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	HUNT MITCHELL W	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	JOHNSON ERIC INS AG	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	KADINGO RICHARD MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	LAGUNA CRK CNSLG	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	LOVELACE G LCSW	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	MARASIGAN E R MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	MARASIGAN F J MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	MARASIGAN&MARASIGAN	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	MIX GODFREY F DPM	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	MOORE MICHAEL DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	PAUL CRAIG A	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

1994	PHELPS MICHAEL DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	PHYSICIANS CLNC LAB	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	REICH R J DDS INC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ROLLIFSON D DMD INC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ROSENBERG CHAS MFCC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ROYO EYE CENTER	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ROYO PARIS E MD INC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	SAIED RAHAT MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	STROUP J GARLAND MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	W J HOIT SONS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	WILSON CLAY M DDS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	YAMANISHI KEITH OD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	BUILDING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	CAPITOL RDLGCL GRP	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	CATERINO MICHL CPA	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	DISTLER JAMES M	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ELK GRV FMLY DENTAL	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ELK GRV PEDIATRICS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	J PS PHARMACY	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	KHASIGAN HARRY MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	LEHR LEONARD K MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	MARASIGAN E R MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	MARASIGAN F J MD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

1990	MARASIGAN&MARASIGAN		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	MIX GODFREY F DPM		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	MOORE MICHAEL DDS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	PAC HEALTH CTR MED		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	PHYSICIANS CLNC LAB		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	REICH R J DDS INC		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ROLLOFSON D DMD INC		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ROYO EYE CENTER		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ROYO PARIS E MD INC		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	SAIED RAHAT MD		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	STROUP J GARLAND MD		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	TIMBERLAKE PHYS INC		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9728 ELK GROVE FLORIN RD

2002-03	NO CURRENT LISTING		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	X [MOHAMED CIR INTS]		HAINES DIRECTORY	SACRAMENTO WEST
1994	CARLOS LINDA E MA	C	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	WOODWARD PAUL PSYD	C	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9734 ELK GROVE FLORIN RD

2007	DESERT CLEANERS		HAINES DIRECTORY	SACRAMENTO WEST

9738 ELK GROVE FLORIN RD

2011	KEN'S MOBILE RV REPAIR		INFOUSA	PACIFIC
2007	ALLIANCE COMICS & GAMES		HAINES DIRECTORY	SACRAMENTO WEST
2007	CLASSIC FLOOR DESIGN		HAINES DIRECTORY	SACRAMENTO WEST
2007	DIANA'S MINI MART		HAINES DIRECTORY	SACRAMENTO WEST

2007	KEN'S MOBILE R V REPAIR		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	MOHAMED JOESEPH		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	STARR CARDS&COLLECTIBLES		HAINES DIRECTORY	SACRAMENTO WEST
1994	NEWBOLD DRIVING SC	B	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	NO CURRENT LISTING		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	COUNTRY GLASS&GIFTS	A	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	MCKINZIE REALTY INV		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	MCKINZIE REALTY&INV	A	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	ROD MITCHELL DESIGN	A	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9740 ELK GROVE FLORIN RD

1994	MICHAEL JS HRSTYLNG		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ORIGINAL M JS HAIR		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	MICHAEL JS HRSTYLNG		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ORIGINAL M JS HAIR		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	MICHAEL JS HAIRSTYL		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	MICHAEL JS HAIRSTYL		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9742 ELK GROVE FLORIN RD

2016	CIGARETTES PLUS		INFOUSA	SOUTH WEST
2016	JOES SMOKE SHOP		INFOUSA	SOUTH WEST
2016	SANDY'S NAILS		INFOUSA	SOUTH WEST
2011	SANDY'S NAILS		INFOUSA	PACIFIC
2007	BOYD'S PLAZA FLORIST		HAINES DIRECTORY	SACRAMENTO WEST
2007	NAILS BY LE		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	NAILS BY LE		HAINES DIRECTORY	SACRAMENTO WEST

1994	NAILS BY LE	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	CANDY COMPUTER	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	CANDY COMPUTER	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	PUPPY LOVE GROOMING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	BOYDS PLAZA FflorIST	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	PLAZA FLORIST	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	PLAZA FLORIST	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9744 ELK GROVE FLORIN RD

2007	LA CASE DE MUNECAS&HS OF DOLLS	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO WEST
1994	CANDY COMPUTER	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	CANDY COMPUTER	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	FOOTHILL SHOE TREE	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9746 ELK GROVE FLORIN RD

2007	CARNECERIA PATINOS&MARKET	HAINES DIRECTORY	SACRAMENTO WEST
2007	MARTHA MURILLO	HAINES DIRECTORY	SACRAMENTO WEST
2007	X [PLAZA PARK DR INTS]	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	CARNECERIA PATRINOS&MARKET	HAINES DIRECTORY	SACRAMENTO WEST
1994	PUPPY LOVE GROOMING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	MYSTRO MUSIC CENTER	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	ELK GROVE SUB FCTY	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9748 ELK GROVE FLORIN RD

2011	JAMES BRAD J DC	INFOUSA	PACIFIC

2007	ELK GRV NATURAL HEALTH CLINIC	HAINES DIRECTORY	SACRAMENTO WEST
2007	JAMES BRAD J DC	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ELK GRV NATURAL HEALTH CLNIC	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	JAMES BRAD J DC	HAINES DIRECTORY	SACRAMENTO WEST
1994	ELK GRV NTRL HEALTH	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	JAMES CHIRO HEALTH	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	MONROE PRICILLA ND	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	FORES BAKERY MAGIC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	INTNTL MRKT PLC&CFE	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9749 ELK GROVE FLORIN RD

2016	VANVLIET CLYDE	INFOUSA	SOUTH WEST
2007	VANVLIET CLYDE	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	VANVLIET CLYDE	HAINES DIRECTORY	SACRAMENTO WEST
1994	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	CALDWELL DON	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	CALDWELL DON	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	CALDWELL DON	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	STEINERT GODFREY DR	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	STEINERT GODFERY DR	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9750 ELK GROVE FLORIN RD

2016	NEW YORK PIZZA	INFOUSA	SOUTH WEST
2007	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	NEW YORK PIZZA	HAINES DIRECTORY	SACRAMENTO WEST

2002-03	X [PLAZA PARK DR INTS]	HAINES DIRECTORY	SACRAMENTO WEST
1980	SPRINKLER IRRIGATN	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9752 ELK GROVE FLORIN RD

2007	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	DONUT WORLD	HAINES DIRECTORY	SACRAMENTO WEST
1994	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	CHICKEN BOBS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	APRONS DELI&CATERNG	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	ELK GROVE DELI	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	ELK GRV DELI	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9753 ELK GROVE FLORIN RD

2016	ANSON ROBERT	INFOUSA	SOUTH WEST
2016	LAW OFFICES OF ROBERT B	INFOUSA	SOUTH WEST
2011	ROBERT B ANSON & ASSOC	INFOUSA	PACIFIC
2007	ANSON ROBERT	HAINES DIRECTORY	SACRAMENTO WEST
2007	ANSON ROBERT B ATTY AT LAW	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ANSON REAL ESTATE	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ANSON ROBERT B ATTORNEY	HAINES DIRECTORY	SACRAMENTO WEST
1994	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	WISDOM THOMAS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9754 ELK GROVE FLORIN RD

2016	MOONLIGHT CLEANERS	INFOUSA	SOUTH WEST
2016	STEPHEN ANTHONY PHOTOGRAPHY	INFOUSA	SOUTH WEST

2007	MOONLIGHT CLEANERS		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	MOONLIGHT CLEANERS		HAINES DIRECTORY	SACRAMENTO WEST
1994	MOONLIGHT CLEANERS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	MS FITS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	MOVIE CLUB THE		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	REALTY ROUNDUP		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9756 ELK GROVE FLORIN RD

2007	ACTION MOVING&STORAGE		HAINES DIRECTORY	SACRAMENTO WEST
2007	CAPITOL CITY WIRELESS		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ACTION MOVING&STORAGE		HAINES DIRECTORY	SACRAMENTO WEST
2002-03	KEEPING PACE	B	HAINES DIRECTORY	SACRAMENTO WEST
1994	NO CURRENT LISTING		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	T&M CARDS&COLLCTBLS		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	HONEY TREAT YOGURT		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	SANDEFUR JERRY&ASC	B	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	SANDEFUR REAL EST	B	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	NO CURRENT LISTING		HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9758 ELK GROVE FLORIN RD

2007	KING'S KUTZ		HAINES DIRECTORY	SACRAMENTO WEST
2007	X [VALLEY OAK LN INTS]		HAINES DIRECTORY	SACRAMENTO WEST

9800 ELK GROVE FLORIN RD

2016	ELK GROVE HIGH SCHOOL		INFOUSA	SOUTH WEST
2011	ELK GROVE BASEBALL		INFOUSA	PACIFIC
2011	ELK GROVE HIGH SCHOOL		INFOUSA	PACIFIC

2007	ELK GROVE BASEBALL	HAINES DIRECTORY	SACRAMENTO WEST
2007	ELK GRV SC HI ADMISTRATION	HAINES DIRECTORY	SACRAMENTO WEST
2007	ELK GRV SC HI ATTENDANCE	HAINES DIRECTORY	SACRAMENTO WEST
2007	ELK GRV SC HI COUNSELING	HAINES DIRECTORY	SACRAMENTO WEST
2007	ELK GRV SC HI REGISTRAR	HAINES DIRECTORY	SACRAMENTO WEST
2007	X [TRALEE WAY INTS]	HAINES DIRECTORY	SACRAMENTO WEST
2007	Y [LISMORE DR INTS]	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ELK GROVE BASEBALL	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ELK GRV SC HL ADMINISTRATION	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ELK GRV SC HL ATTENDANCE	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ELK GRV SC HL COUNSELING	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ELK GRV SC HL REGISTAR	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	X [VALLEY OAK LN INTS]	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	Y [TRALEE WAY INTS]	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	Z [LISMORE DR INTS]	HAINES DIRECTORY	SACRAMENTO WEST
1994	ELK GRV SC HL ADMIN	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ELK GRV SC HL ATDNC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ELK GRV SC HL CAF?	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ELK GRV SC HL CNSLNG	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ELK GRV SC HL FTBLL	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ELK GRV SC HL RGSTR	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1994	ELK GRV SC HL ROP	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ELK GRV SC HL ADMIN	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

1990	ELK GRV SC HL ATDNC	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ELK GRV SC HL CAF?	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ELK GRV SC HL DRVRS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ELK GRV SC HL RGSTR	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ELK GRV SC HL ROP	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ELK GRV SC HL SPCL	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	ELK GRV SC ELK GRV	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	ELK GRV SC ELK GRV	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	ELK GRV SC HL ADMIN	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	ELK GRV SC HL CNSLG	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	ELK GRV SC HL RGSTR	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	ELK GRV SC HL SPCL	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1985	MORENO OMAR	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	MORENO OMAR	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	SC ELK GRV SR ADMIN	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	SC ELK GRV SR ATTND	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	SC ELK GRV SR CFTRA	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	SC ELK GRV SR CNSLG	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	SC ELK GRV SR HIGH	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	ELK GRV SC HI ADMN	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	ELK GRV SC HI CLERK	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	ELK GRV SC HI CNSLG	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	ELK GRV SR HI CAF?	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

1977	ELK GRV SR HI SCH	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9909 ELK GROVE FLORIN RD

1970	STEWART ROBERT G	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	ALLEN WAYNE	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	CALIF ST FISH&GAME	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	CALIF ST FISH&GAME	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	COCHRAN MICHAEL	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	COCHRANE FRANK M	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	E G FOOD MART	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	EHLERS ROBERT E	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	GAGE CHARLES	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	GAGE NORMAN	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	KETTEMAN ALPHONE	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	LEMAS JOE	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	MACK RUTH G	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	MAR VAL FOOD STORE	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	MAR VAL MEATS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	MCCOMBS BUCK	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	MCKEY FRANK H	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	MIYATA MANJO	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	MONTGOMERY WILLIAM	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	NEIHART CHARLES W	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	OBRIEN ARTHUR	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

1970	OLSON DELBERT L	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	OLSON G A	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	PAY LESS CLEANERS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	PERKINS JAMES J	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	PRICE JAMES W	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	PULCIFER JAMES	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	QUALLS ANN	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	RILEY ROGER E	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	RODERICK JOSEPH	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	SCHERMAN JOHN MRS	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	SCHULZE GERALDINE	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	SHELINE ELWOOD F	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	SOUZA RICHARD	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	SPEER KENNETH C	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	VOSSLER ALBERT	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1970	WILLIAMS ALBERT	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9922 ELK GROVE FLORIN RD

2016	ELK GROVE YOUTH CTR	INFOUSA	SOUTH WEST
2011	ELK GROVE YOUTH CTR	INFOUSA	PACIFIC
2007	ELK GRV CMTY SV DST YOUTH CNTR	HAINES DIRECTORY	SACRAMENTO WEST
2007	YOUTH CENTER	HAINES DIRECTORY	SACRAMENTO WEST
2002-03	ELK GRV CMTY SV YOUTH CT	HAINES DIRECTORY	SACRAMENTO WEST
1994	ELK GRV CMNTY YOUTH	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1990	ELK GRV YOUTH CNTR	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9945 ELK GROVE FLORIN RD

1985	NO CURRENT LISTING	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

9961 ELK GROVE FLORIN RD

1980	MCALLISTER LEO	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1980	STJOSEPHS CATH RCTY	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	MCALLISTER LEO	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	STJOSEPH CATH RCTRY	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN
1977	STJOSEPH PARISH CT	HAINES DIRECTORY	SACRAMENTO CITY & SUBURBAN

Comment: No coverage available for Elk Grove prior to 1970.

GeoSearch
On time. On target. In touch.™

City Directory Standard Report

Target Property:

Elk Grove Florin Rd,

Elk Grove, CA 95624

Prepared For:
Environmental Science Assoc-San Francisco

Order #: 110314

Project #: D170242

Date: 6/25/2018

INFOUSA

SOUTH WEST 2016 **ELK GROVE FLORIN RD**

9692	DIMPLE RECORDS	
9700	PARKWAY CAR WASH	
9701	CAPEL YOUNT REAL ESTATE	
9701	CARTAGZ	# 101
9701	MEDI CANN INC	# 100
9701	TAXWORKS PLUS INC	# 101
9710	MAYTAG STORE	
9710	VALLEY OAK MAYTAG APPLIANCE	
9716	SHERWIN-WILLIAMS	
9717	BIO DATA MEDICAL LAB	
9717	DORMINEY JASON DDS	
9717	DORMINEY ORTHODONTICS	
9717	FORDE NICHOLAS H MD	
9717	THUY HA	
9717	VISION CARE OPTOMETRY	
9720	BIG O TIRES	
9727	ADA ACCREDITING & CONSULTING	# 170
9727	ALLERGY & ASTHMA CLINIC	# 180
9727	ALTO DALE L DDS	# 230
9727	ASCHWANDEN-GRAYBERG INSURANCE	# 130
9727	AU ALLAN R MD	# 180
9727	BECKER COMMERCIAL PROPERTIES	# 210
9727	BUTTINO LYNN M OD	# 190
9727	CALIFORNIA AGRICULTURAL	# 100
9727	CAPITAL ORAL & MAXILLOFACIAL	# 230
9727	ELK GROVE FAMILY DENTISTRY	# 270
9727	ELK GROVE ORTHODONTICS	# 280
9727	ELK GROVE PEDIATRICS INC	# 250
9727	ENGEN VENTURES INC	# 110
9727	GOARD APRIL	# 270

9727	HOWELL THOMAS J MD	# 250
9727	INTEGRATED THERAPEUTICS	# 290
9727	JOHNSON LOCHE M DDS	# 230
9727	KANE CHRISTOPHER DDS	# 230
9727	LUCIA MAR USD	
9727	MOORE MICHAEL D DDS	# 115
9727	MOUDERRES EL-HADI MD	# 120
9727	MY PLACE 160 WELLNESS SPA/JUDY	# 160
9727	NEUROLOGY MOUDERRES INC	
9727	NGAI & PHIPPS	# 200
9727	NGAI PETER K DDS	# 200
9727	PHELPS MICHAEL S DDS	# 230
9727	PHIPPS PENNY L DDS	# 200
9727	PUGA BUILDING MAINTENANCE	
9727	RAD HANDZ SKIN & BODY	
9727	ROLLOFSON CHRISTY K DDS	# 270
9727	ROLLOFSON DONALD	# 280
9727	ROLLOFSON DONALD P DDS	# 280
9727	SAIED RAHAT MD	# 250
9727	SALES TAX SPECIALISTS	# 210
9727	SANDRETTI MATTHEW A DDS	
9727	SANDRETTI STEPHANIE L DDS	# 2
9727	SCORTIA ADRIANE R DDS	# 155
9727	TORGERSON KRISHA I MD	# 250
9727	WANG MICHAEL OD	# 190
9742	CIGARETTES PLUS	
9742	JOES SMOKE SHOP	
9742	SANDY'S NAILS	
9749	VANVLIET CLYDE	
9750	NEW YORK PIZZA	
9753	ANSON ROBERT	
9753	LAW OFFICES OF ROBERT B	
9754	MOONLIGHT CLEANERS	

		9754	STEPHEN ANTHONY PHOTOGRAPHY	
		9800	ELK GROVE HIGH SCHOOL	
		9922	ELK GROVE YOUTH CTR	
INFOUSA				
PACIFIC	2011	**ELK GROVE FLORIN RD**		
		9687	BEADWARE	
		9701	GOLD STAR FINANCIAL	
		9701	MEDICANN	# 100
		9710	ELK GROVE APPLIANCE SVC	
		9716	SHERWIN-WILLIAMS	
		9717	BIO DATA MEDICAL LAB	
		9717	CHIN BRUCE OD	
		9717	MICHELSEN RICHARD DDS	
		9717	REDDY PRAVINA DDS	
		9727	ALLERGY & ASTHMA CLINIC	# 180
		9727	AMERICAN LASER CTR	# 120
		9727	ASCHWANDEN-GRAYBERG INSURANCE	# 130
		9727	AU ALLAN R MD	# 180
		9727	BURT ANDREW MD	# 180
		9727	CALIFORNIA AGRICULTURAL	
		9727	CAPITAL ORAL & MAXILLOFACIAL	# 230
		9727	ELK GROVE FAMILY PHYSICIANS	# 140
		9727	ELK GROVE ORTHODONTICS	# 280
		9727	GOARD APRIL	# 270
		9727	JONES PAUL A CPA	# 150
		9727	KANE CHRISTOPHER DDS	# 230
		9727	MASS MUTUAL FINANCIAL GROUP	
		9727	MOYNEUR MEGAN E DDS	# 270
		9727	NGAI & PHIPPS	# 200
		9727	NGAI PETER DDS	# 200
		9727	PHIPPS PENNY L DDS	# 200
		9727	POLICICCHIO DELORES MD	# 140
		9727	RICK SPEARS GRAPHICS	

9727	ROLLOFSON CHRISTY DDS	# 270
9727	ROLLOFSON DONALD P DDS	# 280
9727	THYGESON JOHN E MD	# 250
9727	WANG MICHEAL	
9727	YU JANET MD	# 140
9738	KEN'S MOBILE RV REPAIR	
9742	SANDY'S NAILS	
9748	JAMES BRAD J DC	
9753	ROBERT B ANSON & ASSOC	
9800	ELK GROVE BASEBALL	
9800	ELK GROVE HIGH SCHOOL	
9922	ELK GROVE YOUTH CTR	

HAINES DIRECTORY

SACRAMENTO WEST 2007 **ELK GROVE FLORIN RD**

9692	DIMPLE RECORDS INC ELK GRV	
9692	X [EMERALD PARK DR INTS]	
9700	PARKWAY CAR WASH	
9701	CAPEL YOUNT REAL ESTATE	
9701	COMNTY LENDING	
9701	DL YOUNT CONST COMPANY	
9701	FRANCO CONSTRUCTION CO	
9701	PARTNERS MORTGAGE	
9701	TACO AQUI	
9710	ELK GRV APPLIANCE SERVICE	
9710	ELK GRV FLOWERS BY CASEY	
9710	MAYTAG VALLEY OAK	
9710	VALLEY OAK MAYTAG APPLIANCE CT	
9716	SHERWIN-WILL CO	
9717	BELL MELVIN C DDS	
9717	CHANTRY JEFFREY C DDS	
9717	DIVA BY DESIGN	
9717	GREENWOOD LEE J INC	
9717	MICHELSEN RICHARD DDS	

9717	WEBBER JOHN D DDS
9720	NO CURRENT LISTING
9727	AMER INST OF SPINAL SURGERY
9727	ASCHWANDEN-G INS SERV
9727	AUALLEN RICHARD MD
9727	BUILDING
9727	BURT ANDREW MD
9727	CALFARM INSURANCE AGENCY
9727	CAVA DAVID L LAW OFFICES OF
9727	DENTISTRY BY DESIGN
9727	ELK GRV FMLY PHYSCNS MED GRP I
9727	ELK GRV ORTHODONTICS
9727	ELK GRV PEDIATRICS INC
9727	EVANS LORRAINE D CPA MS
9727	FARMERS INS AGENT
9727	FRIEZE & PAUL ATTY
9727	FRIEZE KENNETH W
9727	GRAYBERG RUSSELL
9727	INTGRTD THERAPEUTICS
9727	JOHNSON LOCHE DDS
9727	JONES PAUL A CPA
9727	KANE CHRISTOPHER J DDS
9727	KNUTSON ERIC J DDS
9727	LAGUNA LASER AESTHETIC CENTER
9727	LASER ESTHETICA MEDICAL CORP
9727	LAW OFFICES OF DAVID L CARA
9727	LEE'S PHARMACY
9727	MASS MUTUAL LIFE
9727	MEDICAL WORD THE
9727	MOORE MICHAEL DDS
9727	NGAI PETER DMD
9727	PAUL CRAIG A
9727	PHELPS MICHAEL S DDS

9727	PHIPPS PENNY L DDS
9727	PHYSICANS CLINICAL LAB
9727	PRASAD NALINI G MD
9727	PROFESSIONAL INS SERV
9727	REICH R J INC DDS
9727	RICK SPEARS GRAPHICS
9727	ROLLOFSON DONALD P DMD INC
9727	ROSENBERG CHARLES MFCC
9727	ROYO EYE & LASER CENTER
9727	ROYO PARIS E INC MD
9727	SAIED RAHAT FAAP MD
9727	STROUP J GARLAND MD
9727	TUNGUYEN JESSIE DPM
9727	TUNGUYEN-CON JESSI DPM
9727	WANG MICHAEL OD
9727	YU JANET MD
9734	DESERT CLEANERS
9738	ALLIANCE COMICS & GAMES
9738	CLASSIC FLOOR DESIGN
9738	DIANA'S MINI MART
9738	KEN'S MOBILE R V REPAIR
9742	BOYD'S PLAZA FLORIST
9742	NAILS BY LE
9744	LA CASE DE MUNECAS&HS OF DOLLS
9746	CARNECERIA PATINOS&MARKET
9746	MARTHA MURILLO
9746	X [PLAZA PARK DR INTS]
9748	ELK GRV NATURAL HEALTH CLINIC
9748	JAMES BRAD J DC
9749	VANVLIET CLYDE
9750	NO CURRENT LISTING
9752	NO CURRENT LISTING
9753	ANSON ROBERT

	9753	ANSON ROBERT B ATTY AT LAW
	9754	MOONLIGHT CLEANERS
	9756	ACTION MOVING&STORAGE
	9756	CAPITOL CITY WIRELESS
	9758	KING'S KUTZ
	9758	X [VALLEY OAK LN INTS]
	9800	ELK GROVE BASEBALL
	9800	ELK GRV SC HI ADMISTRATION
	9800	ELK GRV SC HI ATTENDANCE
	9800	ELK GRV SC HI COUNSELING
	9800	ELK GRV SC HI REGISTRAR
	9800	X [TRALEE WAY INTS]
	9800	Y [LISMORE DR INTS]
	9922	ELK GRV CMTY SV DST YOUTH CNTR
	9922	YOUTH CENTER

HAINES DIRECTORY

SACRAMENTO WEST 2002-03 **ELK GROVE FLORIN RD**

	9696	NO CURRENT LISTING
	9696	X [EMERALD PARK DR INTS]
	9700	PARKWAY CAR WASH
	9701	GALISKY LARRY
	9710	ELK GRV APPLIANCE SERVICE
	9710	ELK GRV LAGUNA APPLIANCE
	9710	MAYTAG VALLEY OAK
	9710	VALLEY OAK MAYTAG APPLIANCE CT
	9716	SHERWIN WILLIAMS CO
	9717	20/20 EYE N SPEC
	9717	BELL MELVIN C DDS
	9717	BELL MELVIN C DDS
	9717	DIVA BY DESIGN E
	9717	GREENWOOD LEE J OD INC
	9717	MICHELSEN RICHARD DDS

9717	WEBBER JOHN D DDS	
9720	BIG O TIRE STORES	
9727	ASCHWANDEN CARL	
9727	AU ALLEN RICHARD MD	
9727	BUILDING	
9727	BURT ANDREW MD	180
9727	C B DOCUMENTATION	210
9727	DENTISTRY BY DESIGN	260
9727	DINIS JOANNE	100
9727	ELK GRV PEDIATRICS INC	250
9727	FARMERS INS AGENT	100
9727	FRIEZE KENNETH W	
9727	FRIEZE&PAUL ATTY	
9727	GRAYBERG RUSSELL	130
9727	JOHNSON LOCHE DDS	230
9727	JONES PAUL A CPA	150
9727	KANE CHRISTOPHER K DDS	
9727	KNUTSON ERIC J DDS	260
9727	LAGUNA LASER ESTHETIC CENTER	140
9727	LAW OFFICES OF DAVID L CARA	
9727	MCCORMICK MICHAEL J MD	
9727	MEDICAL WORD THE	170
9727	MONTESANO PASQUALE MD	140
9727	MOORE MICHAEL DDS	
9727	NGAI PETER DMD	200
9727	PAUL CRAIG A	
9727	PHELPS MICHAEL S DDS	
9727	PHIPPS PENNY L DDS	200
9727	R&R PHYS MDCNE&REHAB MED CLNC	
9727	REICH R J INC DDS	
9727	RICK SPEARS GRAPHICS	160
9727	ROLLOFSON DONALD P DMD INC	
9727	ROYO EYE&LASER CENTER	

9727	ROYO PARIS E MD INC	
9727	SAIED RAHAT MD FAAP	
9727	STROUP J GARLAND MD	
9727	WANG MICHAEL OD	
9728	NO CURRENT LISTING	
9728	X [MOHAMED CIR INTS]	
9738	MOHAMED JOESEPH	
9738	STARR CARDS&COLLECTIBLES	
9742	NAILS BY LE	
9744	NO CURRENT LISTING	
9746	CARNECERIA PATRINOS&MARKET	
9748	ELK GRV NATURAL HEALTH CLNIC	
9748	JAMES BRAD J DC	
9749	VANVLIET CLYDE	
9750	NEW YORK PIZZA	
9750	X [PLAZA PARK DR INTS]	
9752	DONUT WORLD	
9753	ANSON REAL ESTATE	
9753	ANSON ROBERT B ATTORNEY	
9754	MOONLIGHT CLEANERS	
9756	ACTION MOVING&STORAGE	
9756	KEEPING PACE	B
9800	ELK GROVE BASEBALL	
9800	ELK GRV SC HL ADMINISTRATION	
9800	ELK GRV SC HL ATTENDANCE	
9800	ELK GRV SC HL COUNSELING	
9800	ELK GRV SC HL REGISTAR	
9800	X [VALLEY OAK LN INTS]	
9800	Y [TRALEE WAY INTS]	
9800	Z [LISMORE DR INTS]	
9922	ELK GRV CMTY SV YOUTH CT	

HAINES DIRECTORY

SACRAMENTO CITY & SUBURBAN 1994

ELK GROVE FLORIN RD

9696	NO CURRENT LISTING	
9700	PARKWAY CAR WASH	
9701	COURT YRD CHIRO OFC	B
9701	KAMINSKY THOMAS DC	B
9701	SCHAFER BUD INS	
9701	STATE FARM INS	
9710	FIRESIDE FLORIST	
9716	SHERWIN WILLIAMS	
9717	20 20 EYE N SPEC	
9717	BELL MEVLIN C DDS	
9717	E G ELECTROLYSIS	
9717	ELK GRV ELCTRLYSS	
9717	GREENWOOD LEE J OD	
9717	MICHELSEN RICHD DDS	
9717	WEBBER JOHN D DDS	
9720	BIG O TIRES	
9727	ASCHWANDEN CARL	
9727	BUILDING	
9727	BURT ANDREW K MD PC	
9727	CAL FARM INS AGENCY	
9727	CATERINO MICHK COA	
9727	DISTLER JAMES M DDS	
9727	ELK GRV FMLY DENTAL	
9727	ELK GRV PEDIATRICS	
9727	FARMERS INC	
9727	FERGUSON INS AGENCY	
9727	FRIEZE KENNETH W	
9727	FRIEZE&PAUL ATTYS	
9727	GRAYBERG ASCHWANDE	
9727	GRAYBERG RUSSELL	
9727	HAYDEN DIANE H LCSW	
9727	HOMESTEAD RE SERVS	

9727	HUNT MITCHELL W	
9727	JOHNSON ERIC INS AG	
9727	KADINGO RICHARD MD	
9727	LAGUNA CRK CNSLG	
9727	LOVELACE G LCSW	
9727	MARASIGAN E R MD	
9727	MARASIGAN F J MD	
9727	MARASIGAN&MARASIGAN	
9727	MIX GODFREY F DPM	
9727	MOORE MICHAEL DDS	
9727	PAUL CRAIG A	
9727	PHELPS MICHAEL DDS	
9727	PHYSICIANS CLNC LAB	
9727	REICH R J DDS INC	
9727	ROLLIFSON D DMD INC	
9727	ROSENBERG CHAS MFCC	
9727	ROYO EYE CENTER	
9727	ROYO PARIS E MD INC	
9727	SAIED RAHAT MD	
9727	STROUP J GARLAND MD	
9727	W J HOIT SONS	
9727	WILSON CLAY M DDS	
9727	YAMANISHI KEITH OD	
9728	CARLOS LINDA E MA	C
9728	WOODWARD PAUL PSYD	C
9738	NEWBOLD DRIVING SC	B
9740	MICHAEL JS HRSTYLNG	
9740	ORIGINAL M JS HAIR	
9742	NAILS BY LE	
9744	CANDY COMPUTER	
9746	PUPPY LOVE GROOMING	
9748	ELK GRV NTRL HEALTH	
9748	JAMES CHIRO HEALTH	

9748	MONROE PRICILLA ND
9749	NO CURRENT LISTING
9752	NO CURRENT LISTING
9753	NO CURRENT LISTING
9754	MOONLIGHT CLEANERS
9756	NO CURRENT LISTING
9800	ELK GRV SC HL ADMIN
9800	ELK GRV SC HL ATDNC
9800	ELK GRV SC HL CAF?
9800	ELK GRV SC HL CNSLNG
9800	ELK GRV SC HL FTBLL
9800	ELK GRV SC HL RGSTR
9800	ELK GRV SC HL ROP
9922	ELK GRV CMNTY YOUTH

HAINES DIRECTORY

SACRAMENTO CITY & SUBURBAN 1990

ELK GROVE FLORIN RD

9696	NO CURRENT LISTING
9700	PARKWAY CAR WASH
9701	SCHAFER BUD INS
9701	STATE FARM INS
9710	FIRESIDE FLORIST
9710	FLOWERS BY CASEY
9717	20 20 EYE N SPEC
9717	BELL MELVIN C DDS
9717	GANDY CHRIS INS
9717	GREENWOOD BRETT OD
9717	GREENWOOD LEE J OD
9717	MICHELSEN RICHD DDS
9717	STATE FARM INS AGNT
9717	WEBBER JOHN D DDS
9720	BIG O TIRES
9727	BUILDING
9727	CAPITOL RDLGCL GRP

9727	CATERINO MICHL CPA
9727	DISTLER JAMES M
9727	ELK GRV FMLY DENTAL
9727	ELK GRV PEDIATRICS
9727	J PS PHARMACY
9727	KHASIGAN HARRY MD
9727	LEHR LEONARD K MD
9727	MARASIGAN E R MD
9727	MARASIGAN F J MD
9727	MARASIGAN&MARASIGAN
9727	MIX GODFREY F DPM
9727	MOORE MICHAEL DDS
9727	PAC HEALTH CTR MED
9727	PHYSICIANS CLNC LAB
9727	REICH R J DDS INC
9727	ROLLOFSON D DMD INC
9727	ROYO EYE CENTER
9727	ROYO PARIS E MD INC
9727	SAIED RAHAT MD
9727	STROUP J GARLAND MD
9727	TIMBERLAKE PHYS INC
9738	NO CURRENT LISTING
9740	MICHAEL JS HRSTYLNG
9740	ORIGINAL M JS HAIR
9742	CANDY COMPUTER
9742	CANDY COMPUTER
9742	PUPPY LOVE GROOMING
9746	NO CURRENT LISTING
9748	NO CURRENT LISTING
9749	CALDWELL DON
9752	CHICKEN BOBS
9753	NO CURRENT LISTING
9754	MS FITS

9756	T&M CARDS&COLLCTBLS	
9800	ELK GRV SC HL ADMIN	
9800	ELK GRV SC HL ATDNC	
9800	ELK GRV SC HL CAF?	
9800	ELK GRV SC HL DRVRS	
9800	ELK GRV SC HL RGSTR	
9800	ELK GRV SC HL ROP	
9800	ELK GRV SC HL SPCL	
9922	ELK GRV YOUTH CNTR	

HAINES DIRECTORY

SACRAMENTO CITY & SUBURBAN 1985

ELK GROVE FLORIN RD

9696	MARASIGAN E R MD	
9696	MARASIGAN F J MD	
9696	MARASIGAN&MARASIGAN	
9696	SMALLEY A JAMES DPM	
9700	PARKWAY DRIVE IN	
9701	TACO AQUI	
9710	ELK GROVE GRDN CNTR	
9717	BELL MELVIN DR DDS	
9717	GREENWOOD LEE J OD	
9717	REICH R J DDS INC	
9717	ROLLOFSON D P DMD	
9738	COUNTRY GLASS&GIFTS	A
9740	MICHAEL JS HAIRSTYL	
9742	BOYDS PLAZA FLORIST	
9742	PLAZA FLORIST	
9744	CANDY COMPUTER	
9746	MYSTRO MUSIC CENTER	
9748	FORES BAKERY MAGIC	
9749	CALDWELL DON	
9752	APRONS DELI&CATERNG	
9752	ELK GROVE DELI	
9753	WISDOM THOMAS	

9754	MOVIE CLUB THE	
9756	HONEY TREAT YOGURT	
9756	SANDEFUR JERRY&ASC	B
9756	SANDEFUR REAL EST	B
9800	ELK GRV SC ELK GRV	
9800	ELK GRV SC ELK GRV	
9800	ELK GRV SC HL ADMIN	
9800	ELK GRV SC HL CNSLG	
9800	ELK GRV SC HL RGSTR	
9800	ELK GRV SC HL SPCL	
9800	MORENO OMAR	
9945	NO CURRENT LISTING	

HAINES DIRECTORY

SACRAMENTO CITY & SUBURBAN 1980

ELK GROVE FLORIN RD

9696	MARASIGAN ERLINDA	
9700	PARKWAY DRIVE IN	
9701	TACO AQUI	
9710	NO CURRENT LISTING	
9717	BELL MELVIN DR DDS	
9717	GREENWOOD LEE J OD	
9717	J&K BOOKKEEPING	
9717	PERICH MICHAEL DDS	
9717	REICH ROGER J	
9738	MCKINZIE REALTY INV	
9738	MCKINZIE REALTY&INV	A
9738	ROD MITCHELL DESIGN	A
9740	MICHAEL JS HAIRSTYL	
9742	PLAZA FLORIST	
9744	FOOTHILL SHOE TREE	
9746	ELK GROVE SUB FCTY	
9748	INTNTL MRKT PLC&CFE	
9749	CALDWELL DON	
9750	SPRINKLER IRRIGATN	

9752	ELK GRV DELI
9753	NO CURRENT LISTING
9754	REALTY ROUNDUP
9756	NO CURRENT LISTING
9800	MORENO OMAR
9800	SC ELK GRV SR ADMIN
9800	SC ELK GRV SR ATTND
9800	SC ELK GRV SR CFTRA
9800	SC ELK GRV SR CNSLG
9800	SC ELK GRV SR HIGH
9961	MCALLISTER LEO
9961	STJOSEPHS CATH RCTY

HAINES DIRECTORY

SACRAMENTO CITY & SUBURBAN 1977 **ELK GROVE FLORIN RD**

9675	L&M FURNITURE
9700	PARKWAY DRIVE IN
9710	MIYATA MANJO
9717	BELL MELVIN DR DDS
9717	GREENWOOD LEE J OD
9749	STEINERT GODFREY DR
9800	ELK GRV SC HI ADMN
9800	ELK GRV SC HI CLERK
9800	ELK GRV SC HI CNSLG
9800	ELK GRV SR HI CAF?
9800	ELK GRV SR HI SCH
9961	MCALLISTER LEO
9961	STJOSEPH CATH RCTRY
9961	STJOSEPH PARISH CT

HAINES DIRECTORY

SACRAMENTO CITY & SUBURBAN 1970 **ELK GROVE FLORIN RD**

9645	ST PETERS LUTH CH
9645	WEISHOFF L R REV

9749	STEINERT GODFERY DR
9909	ALLEN WAYNE
9909	CALIF ST FISH&GAME
9909	CALIF ST FISH&GAME
9909	COCHRAN MICHAEL
9909	COCHRANE FRANK M
9909	E G FOOD MART
9909	EHLERS ROBERT E
9909	GAGE CHARLES
9909	GAGE NORMAN
9909	KETTEMAN ALPHONE
9909	LEMAS JOE
9909	MACK RUTH G
9909	MAR VAL FOOD STORE
9909	MAR VAL MEATS
9909	MCCOMBS BUCK
9909	MCKEY FRANK H
9909	MIYATA MANJO
9909	MONTGOMERY WILLIAM
9909	NEIHART CHARLES W
9909	OBRIEN ARTHUR
9909	OLSON DELBERT L
9909	OLSON G A
9909	PAY LESS CLEANERS
9909	PERKINS JAMES J
9909	PRICE JAMES W
9909	PULCIFER JAMES
9909	QUALLS ANN
9909	RILEY ROGER E
9909	RODERICK JOSEPH
9909	SCHERMAN JOHN MRS
9909	SCHULZE GERALDINE
9909	SHELINE ELWOOD F

9909	SOUZA RICHARD
9909	SPEER KENNETH C
9909	STEWART ROBERT G
9909	VOSSLER ALBERT
9909	WILLIAMS ALBERT

Comment: No coverage available for Elk Grove prior to 1970.

GeoSearch
On time. On target. In touch.™

Historical By Street Number

Target Property:

Elk Grove Florin Rd,

Elk Grove, CA 95624

Prepared For:
Environmental Science Assoc-San Francisco

Order #: 110314

Project #: D170242

Date: 6/25/2018

9645 Elk Grove Florin Rd	St Peters Luth Ch (1970); Weishoff L R Rev (1970); No Listing (1977-2016)
9675 Elk Grove Florin Rd	No Listing (1970); L&M Furniture (1977); No Listing (1980-2016)
9687 Elk Grove Florin Rd	No Listing (1970-2007); Beadware (2011); No Listing (2016)
9692 Elk Grove Florin Rd	No Listing (1970-2002/03); Dimple Records Inc Elk Grv (2007); No Listing (2011); Dimple Records (2016)
9696 Elk Grove Florin Rd	No Listing (1970-1977); Marasigan Erlinda (1980-1985); Smalley A James Dpm (1985); No Current Listing (1990-2002/03); No Listing (2007-2016)
9700 Elk Grove Florin Rd	No Listing (1970); Parkway Drive In (1977-2007); No Listing (2011); Parkway Car Wash (2016)
9701 Elk Grove Florin Rd	No Listing (1970-1977); Taco Aqui (1980-1985); Schafer Bud Ins (1990-1994); State Farm Ins (1990-1994); Court Yrd Chiro Ofc (1994); Kaminsky Thomas Dc (1994); Galisky Larry (2002/03); Capel Yount Real Estate (2007); Comnty Lending (2007); Dl Yount Const Company (2007); Franco Construction Co (2007); Partners Mortgage (2007); Taco Aqui (2007); Gold Star Financial (2011); Medicann (2011); Capel Yount Real Estate (2016); Medi Cann Inc (2016); Cartagz (2016); Taxworks Plus Inc (2016)
9710 Elk Grove Florin Rd	No Listing (1970); Miyata Manjo (1977); No Current Listing (1980); Elk Grove Grdn Cntr (1985); Fireside Florist (1990-1994); Flowers By Casey (1990); Elk Grv Appliance Service (2002/03-2007); Maytag Valley Oak (2002/03-2007); Valley Oak Maytag Appliance Ct (2002/03-2007); Elk Grove Appliance Svc (2011); Maytag Store (2016); Valley Oak Maytag Appliance (2016)
9716 Elk Grove Florin Rd	No Listing (1970-1990); Sherwin Williams (1994-2007); Sherwin-Williams (2011-2016)
9717 Elk Grove Florin Rd	No Listing (1970); Bell Melvin Dr Dds (1977-2007); Greenwood Lee J Od (1977-2007); J&K Bookkeeping (1980); Perich Michael Dds (1980); Reich Roger J (1980-1985); Rollofson D P Dmd (1985); Gandy Chris Ins (1990); Michelsen Richd Dds (1990-2011); State Farm Ins Agnt (1990); Webber John D Dds (1990-2007); 20 20 Eye N Spec (1990-2002/03); E G Electrolysis (1994); Elk Grv Elctrlyss (1994); Diva By Design (2002/03-2007); Bio Data Medical Lab (2011-2016); Chin Bruce Od (2011); Reddy Pravina Dds (2011); Dorminey Jason Dds (2016); Forde Nicholas H Md (2016); Thuy Ha (2016); Vision Care Optometry (2016)
9720 Elk Grove Florin Rd	No Listing (1970-1985); Big O Tires (1990-2002/03); No Current Listing (2007); No Listing (2011); Big O Tires (2016)

9727 Elk Grove Florin Rd	No Listing (1970-1985); Building (1990-2007); Capitol Rdlgcl Grp (1990); Caterino Michl Cpa (1990-1994); Distler James M (1990-1994); Elk Grv Fmly Dental (1990-2007); J Ps Pharmacy (1990); Khasigan Harry Md (1990); Lehr Leonard K Md (1990-1994); Marasigan&Marasigan (1990-1994); Mix Godfrey F Dpm (1990-1994); Moore Michael Dds (1990-2007); Pac Health Ctr Med (1990); Physicians Clnc Lab (1990-1994); Reich R J Dds Inc (1990-2007); Rollofson D Dmd Inc (1990-2007); Royo Eye Center (1990-1994); Saied Rahat Md (1990-2007); Stroup J Garland Md (1990-2007); Timberlake Phys Inc (1990); Aschwanden Carl (1994-2002/03); Cal Farm Ins Agency (1994-2007); Farmers Inc (1994); Frieze Kenneth W (1994-2007); Frieze&Paul Attys (1994-2007); Grayberg Aschwande (1994-2007); Hayden Diane H Lcsw (1994); Homestead Re Servs (1994); Hunt Mitchell W (1994); Johnson Eric Ins Ag (1994); Kadingo Richard Md (1994-2007); Laguna Crk Cnslg (1994); Lovelace G Lcsw (1994); Paul Craig A (1994-2007); Rosenberg Chas Mfcc (1994); W J Hoit Sons (1994); Yamanishi Keith Od (1994); Burt Andrew Md (2002/03-2011); C B Documentation (2002/03); Dentistry By Design (2002/03-2007); Dinis Joanne (2002/03); Johnson Loche Dds (2002/03-2007); Jones Paul A Cpa (2002/03-2011); Kane Christopher K Dds (2002/03-2016); Laguna Laser Esthetic Center (2002/03-2007); Law Offices Of David L Cara (2002/03-2007); Medical Word The (2002/03-2007); Montesano Pasquale Md (2002/03); Ngai Peter Dmd (2002/03-2011); R&R Phys Mdcne&Rehab Med Clnc (2002/03); Rick Spears Graphics (2002/03-2011); Amer Inst Of Spinal Surgery (2007); Aschwanden-G Ins Serv (2007); Evans Lorraine D Cpa Ms (2007); Intgrtd Therapeutics (2007); Laser Esthetica Medical Corp (2007); Lee's Pharmacy (2007); Mass Mutual Life (2007); Phipps Penny L Dds (2007-2016); Physicans Clinical Lab (2007); Prasad Nalini G Md (2007); Rosenberg Charles Mfcc (2007); Royo Paris E Inc Md (2007); Tunguyen Jessie Dpm (2007); Yu Janet Md (2007-2011); California Agricultural (2011-2016); Mass Mutual Financial Group (2011); Wang Micheal (2011); American Laser Ctr (2011); Aschwanden-Grayberg Insurance (2011-2016); Elk Grove Family Physicians (2011-2016); Policicchio Delores Md (2011); Allergy & Asthma Clinic (2011-2016); Thygeson John E Md (2011-2016); Goard April (2011-2016); Moyneur Megan E Dds (2011-2016); Rollofson Christy Dds (2011-2016); Lucia Mar Usd (2016); Neurology Mouderres Inc (2016); Puga Building Maintenance (2016); Sandretti Matthew A Dds (2016); Engen Ventures Inc (2016); Mouderres El-Hadi Md (2016); Scortia Adriane R Dds (2016); My Place 160 Wellness Spa/Judy (2016); Au Allan R Md (2016); Buttino Lynn M Od (2016); Ngai Peter K Dds (2016); Becker Commercial Properties (2016); Sales Tax Specialists (2016); Johnson Loche M Dds (2016); Howell Thomas J Md (2016); Saied Rahat Md (2016); Rollofson Donald (2016); Integrated Therapeutics (2016)
9728 Elk Grove Florin Rd	No Listing (1970-1990); Carlos Linda E Ma (1994); Woodward Paul Psyd (1994); No Current Listing (2002/03); No Listing (2007-2016)
9734 Elk Grove Florin Rd	No Listing (1970-2002/03); Desert Cleaners (2007); No Listing (2011-2016)
9738 Elk Grove Florin Rd	No Listing (1970-1977); Mckinzie Realty Inv (1980); Rod Mitchell Design (1980); Country Glass&Gifts (1985); No Current Listing (1990); Newbold Driving Sc (1994); Mohamed Joeseph (2002/03); Starr Cards&Collectibles (2002/03); Alliance Comics & Games (2007); Classic Floor Design (2007); Diana's Mini Mart (2007); Ken's Mobile R V Repair (2007-2011); No Listing (2016)
9740 Elk Grove Florin Rd	No Listing (1970-1977); Michael Js Hairstyl (1980-1994); Original M Js Hair (1990-1994); No Listing (2002/03-2016)
9742 Elk Grove Florin Rd	No Listing (1970-1977); Plaza Florist (1980-1985); Candy Computer (1990); Puppy Love Grooming (1990); Nails By Le (1994-2007); Boyd's Plaza Florist (2007); Sandy's Nails (2011-2016); Cigarettes Plus (2016); Joes Smoke Shop (2016)
9744 Elk Grove Florin Rd	No Listing (1970-1977); Foothill Shoe Tree (1980); Candy Computer (1985); No Listing (1990); Candy Computer (1994); No Current Listing (2002/03); La Case De Munecas&Hs Of Dolls (2007); No Listing (2011-2016)
9746 Elk Grove Florin Rd	No Listing (1970-1977); Elk Grove Sub Fcty (1980); Mystro Music Center (1985); No Current Listing (1990); Puppy Love Grooming (1994); Carneceria Patrinos&Market (2002/03-2007); Martha Murillo (2007); No Listing (2011-2016)
9748 Elk Grove Florin Rd	No Listing (1970-1977); Intntl Mrkt Plc&Cfe (1980); Fores Bakery Magic (1985); No Current Listing (1990); Elk Grv Ntrl Health (1994-2007); James Chiro Health (1994); Monroe Pricilla Nd (1994); James Brad J Dc (2002/03-2011); No Listing (2016)

9749 Elk Grove Florin Rd	Steinert Godfery Dr (1970-1977); Caldwell Don (1980-1990); No Current Listing (1994); Vanvliet Clyde (2002/03-2007); No Listing (2011); Vanvliet Clyde (2016)
9750 Elk Grove Florin Rd	No Listing (1970-1977); Sprinkler Irrigatn (1980); No Listing (1985-1994); New York Pizza (2002/03); No Current Listing (2007); No Listing (2011); New York Pizza (2016)
9752 Elk Grove Florin Rd	No Listing (1970-1977); Elk Grv Deli (1980-1985); Aprons Deli&Caterng (1985); Chicken Bobs (1990); No Current Listing (1994); Donut World (2002/03); No Current Listing (2007); No Listing (2011-2016)
9753 Elk Grove Florin Rd	No Listing (1970-1977); No Current Listing (1980); Wisdom Thomas (1985); No Current Listing (1990-1994); Anson Real Estate (2002/03); Anson Robert B Attorney (2002/03-2007); Robert B Anson & Assoc (2011); Anson Robert (2016); Law Offices Of Robert B (2016)
9754 Elk Grove Florin Rd	No Listing (1970-1977); Realty Roundup (1980); Movie Club The (1985); Ms Fits (1990); Moonlight Cleaners (1994-2007); No Listing (2011); Moonlight Cleaners (2016); Stephen Anthony Photography (2016)
9756 Elk Grove Florin Rd	No Listing (1970-1977); No Current Listing (1980); Honey Treat Yogurt (1985); Sandefur Jerry&Asc (1985); T&M Cards&Collctbls (1990); No Current Listing (1994); Action Moving&Storage (2002/03-2007); Keeping Pace (2002/03); Capitol City Wireless (2007); No Listing (2011-2016)
9758 Elk Grove Florin Rd	No Listing (1970-2002/03); King's Kutz (2007); No Listing (2011-2016)
9800 Elk Grove Florin Rd	No Listing (1970); Elk Grv Sc Hi Admn (1977-2007); Moreno Omar (1980-1985); Elk Grove Baseball (2002/03-2011); Elk Grove High School (2016)
9909 Elk Grove Florin Rd	Stewart Robert G (1970); Allen Wayne (1970); Calif St Fish&Game (1970); Cochran Michael (1970); Cochrane Frank M (1970); E G Food Mart (1970); Gage Charles (1970); Ketteman Alphone (1970); Lemas Joe (1970); Mack Ruth G (1970); Mar Val Food Store (1970); Mccombs Buck (1970); Mckey Frank H (1970); Miyata Manjo (1970); Montgomery William (1970); Neihart Charles W (1970); Obrien Arthur (1970); Olson Delbert L (1970); Olson G A (1970); Pay Less Cleaners (1970); Perkins James J (1970); Pulcifer James (1970); Qualls Ann (1970); Riley Roger E (1970); Roderick Joseph (1970); Scherman John Mrs (1970); Schulze Geraldine (1970); Sheline Elwood F (1970); Souza Richard (1970); Speer Kenneth C (1970); Vossler Albert (1970); Williams Albert (1970); No Listing (1977-2016)
9922 Elk Grove Florin Rd	No Listing (1970-1985); Elk Grv Youth Cntr (1990-2016); Youth Center (2007)
9945 Elk Grove Florin Rd	No Listing (1970-1980); No Current Listing (1985); No Listing (1990-2016)
9961 Elk Grove Florin Rd	No Listing (1970); Mcallister Leo (1977-1980); Stjoseph Cath Rctry (1977-1980); No Listing (1985-2016)

Comments: No coverage available for Elk Grove prior to 1970.

GeoSearch

On time. On target. In touch.™

Fire Insurance Map Abstract

Target Property:

Elk Grove ISA

Elk Grove Blvd, Elk Grove, Sacramento, California, 95624

Prepared For:

Environmental Science Assoc-San Francisco

Order #: 110314

Job #: 243494

Project #: D170242

Date #: 06/20/18

phone: 888-396-0042 · fax: 512-472-9967 · www.Geo-Search.com

FIRE INSURANCE MAP ABSTRACT RESEARCH RESULTS

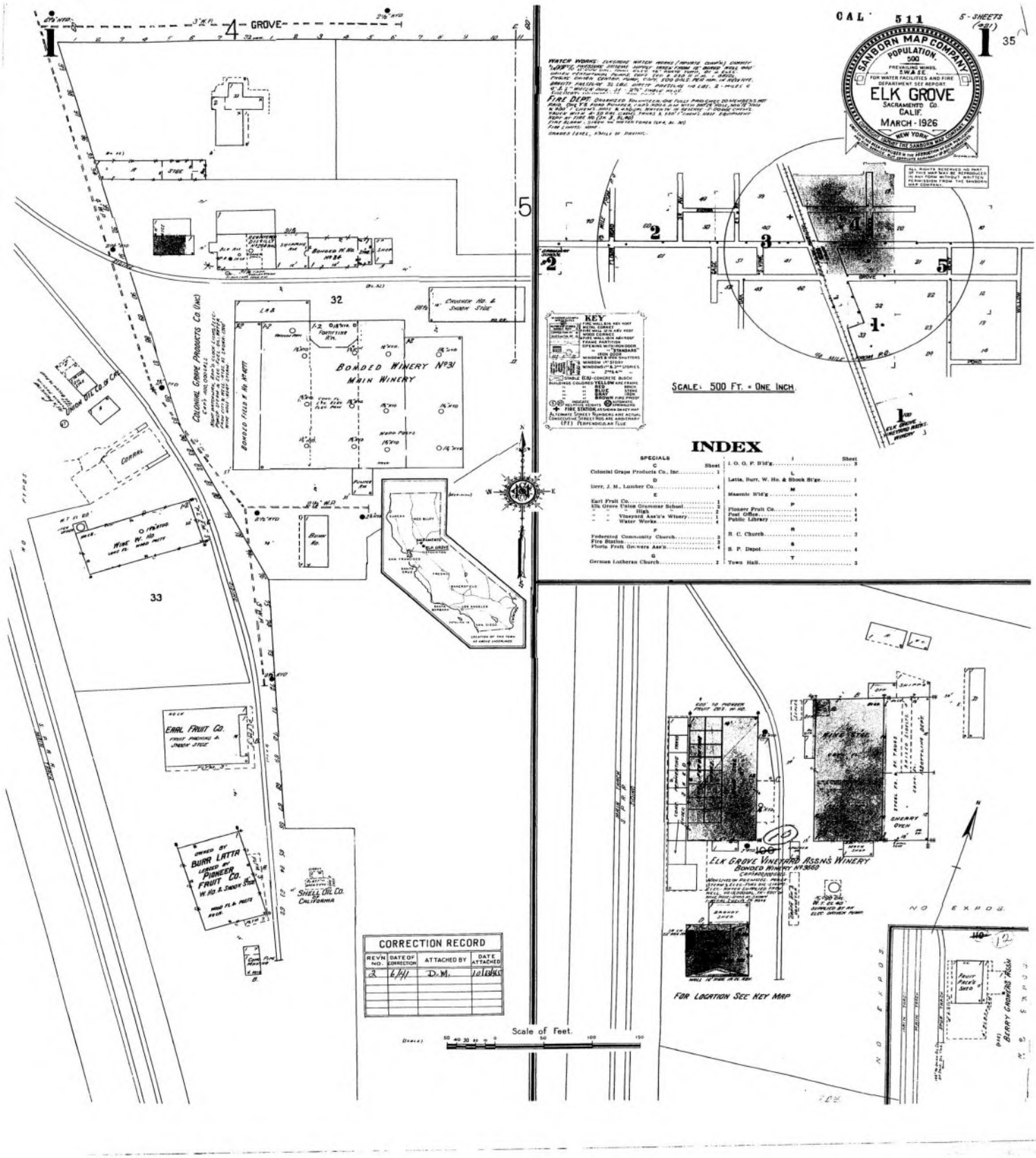
Report Date: 06/20/18
Order Number: 110314
Job Number: 243494
Site Address(es): Elk Grove Blvd, Elk Grove, Sacramento, California, 95624

This abstract is the result of a visual inspection of various Fire Insurance Map collections. Supporting documentation follows in the Appendix to validate our research. Use of this material is meant for research purposes only. Copyrighted Sanborn Maps can be purchased upon request.

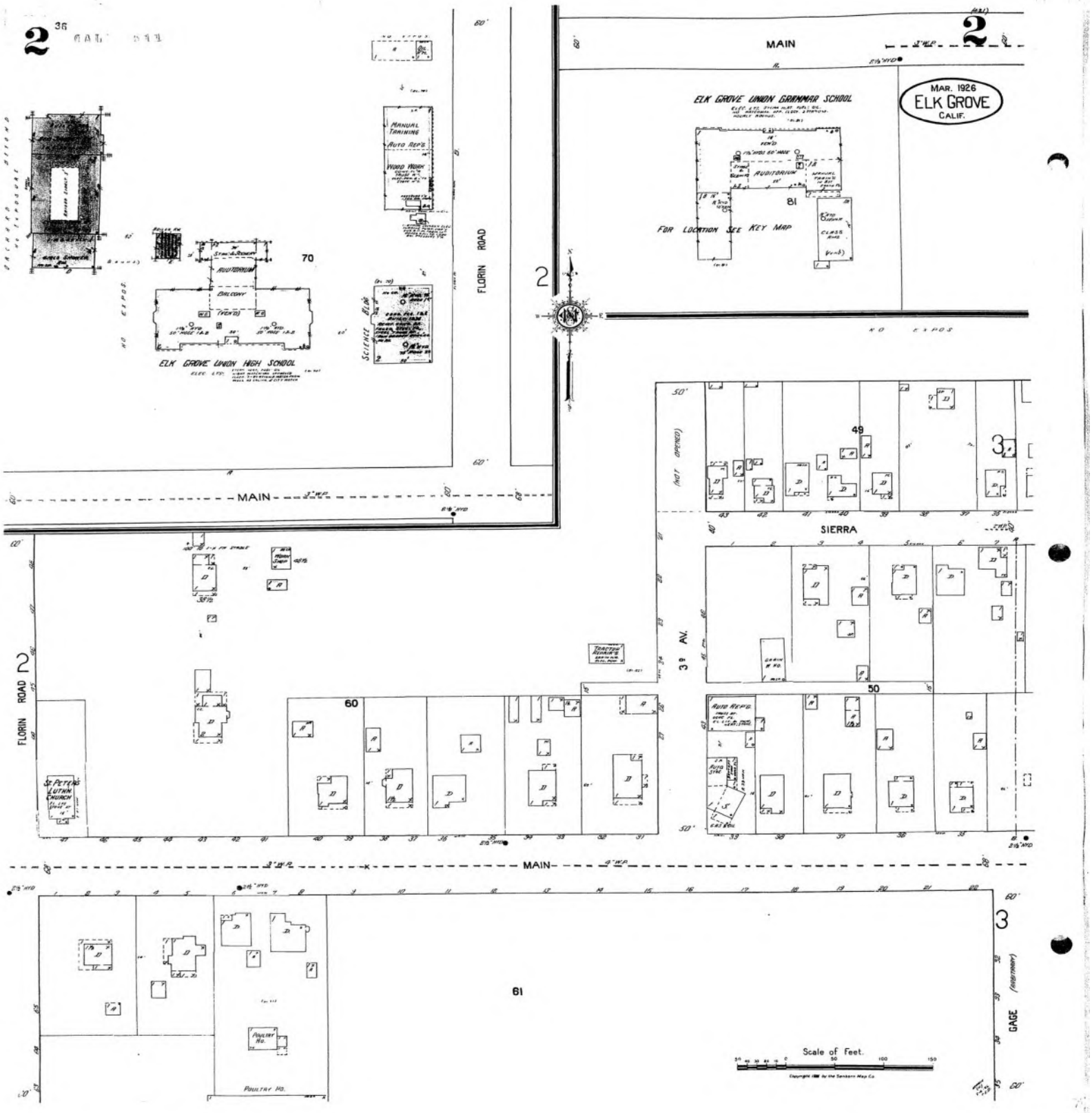
Listed below, please find the results of our search for historic fire insurance maps

State	City	Date	Volume	Sheet Number(s)
CA	Elk_Grove	1941	1	1
CA	Elk_Grove	1941	1	2
CA	Elk_Grove	1941	1	3
CA	Elk_Grove	1941	1	4
CA	Elk_Grove	1941	1	5
CA	Elk_Grove	1926	1	1
CA	Elk_Grove	1926	1	2
CA	Elk_Grove	1926	1	3
CA	Elk_Grove	1926	1	4
CA	Elk_Grove	1926	1	5
CA	Elk_Grove	1912	1	1
CA	Elk_Grove	1912	1	2
CA	Elk_Grove	1905	1	1
CA	Elk_Grove	1905	1	2
CA	Elk_Grove	1895	1	1
CA	Elk_Grove	1895	1	2
CA	Elk_Grove	1884	1	1

Appendix
Supporting Documentation



Sheet 1
1941



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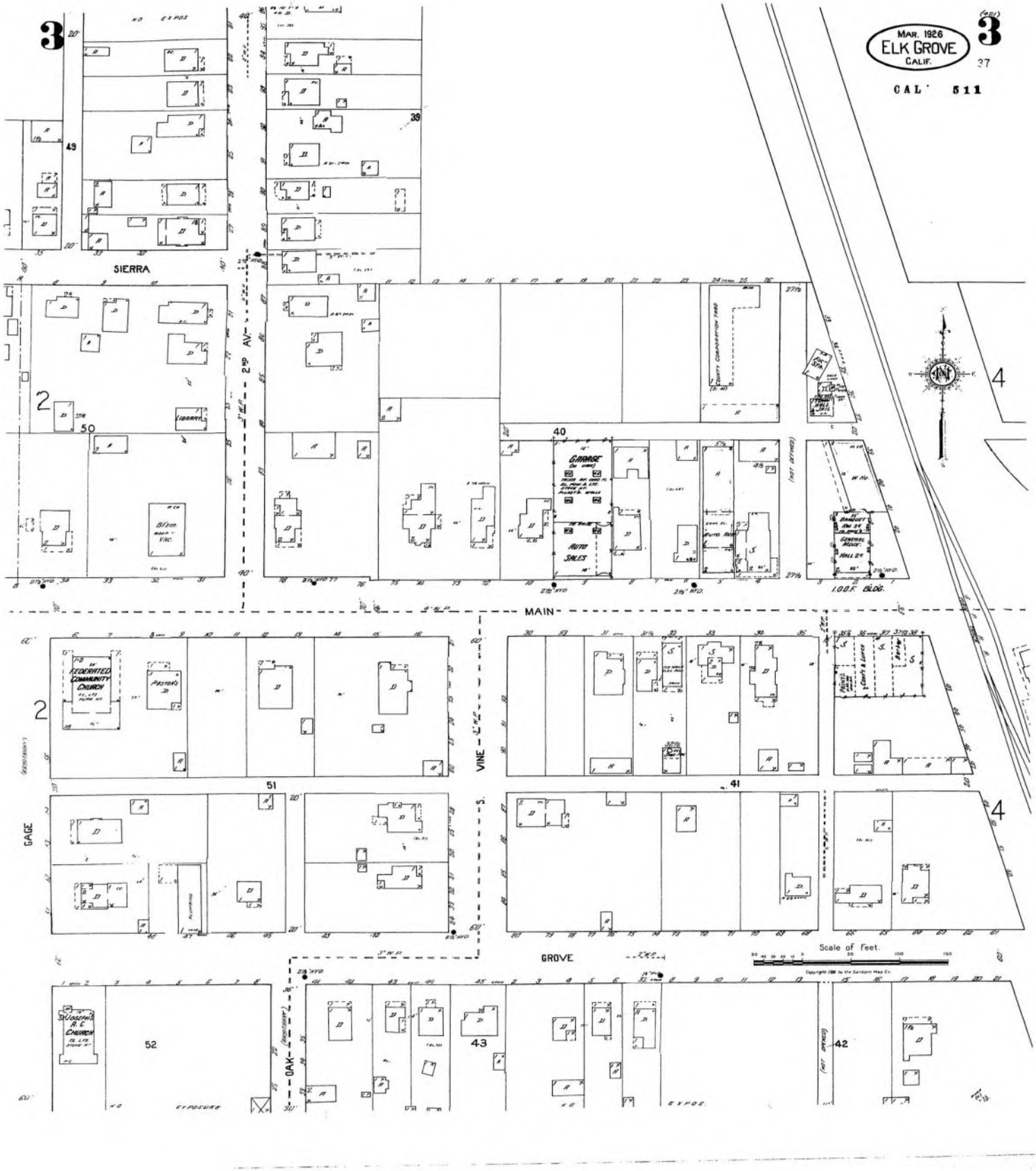

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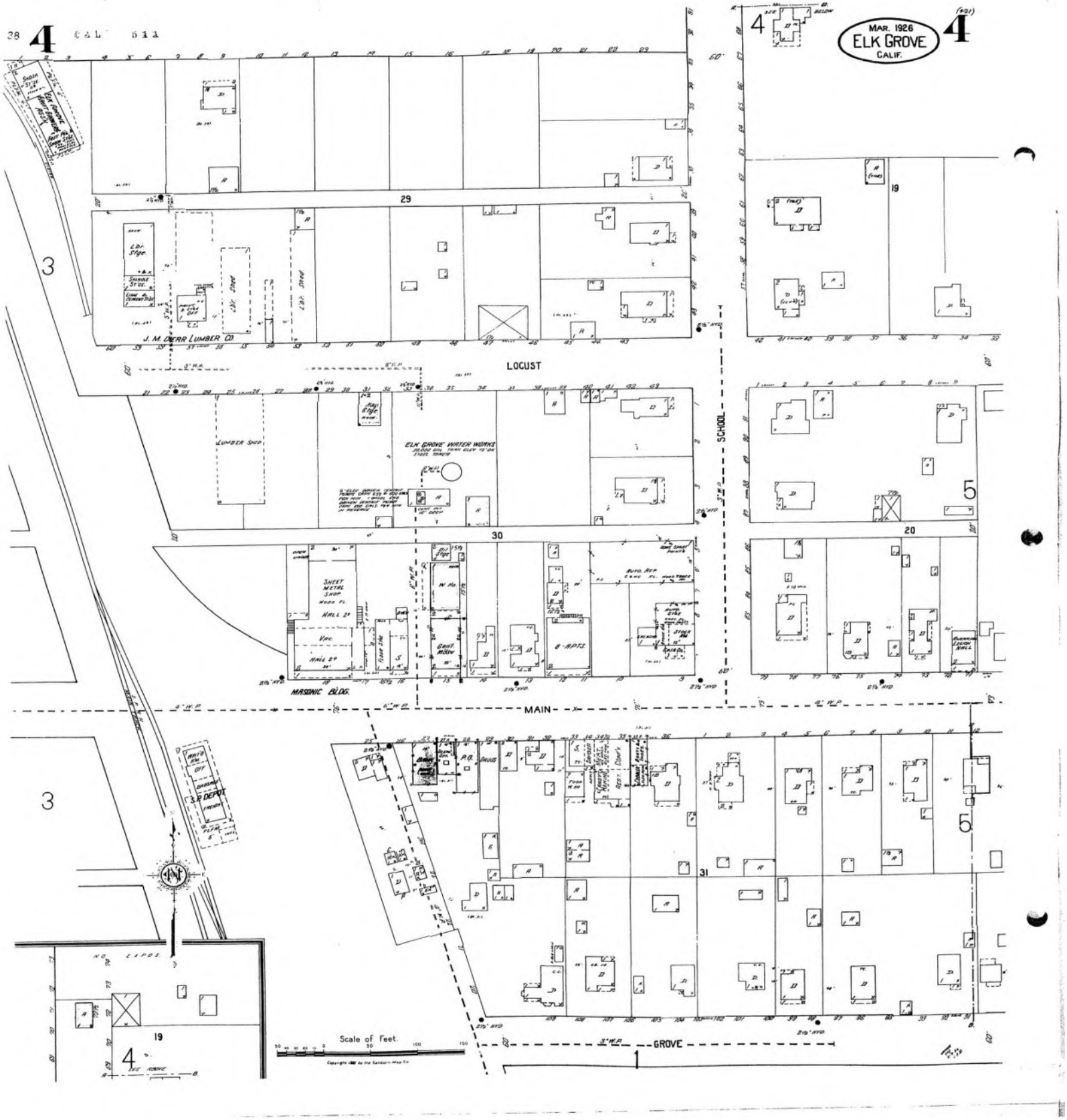

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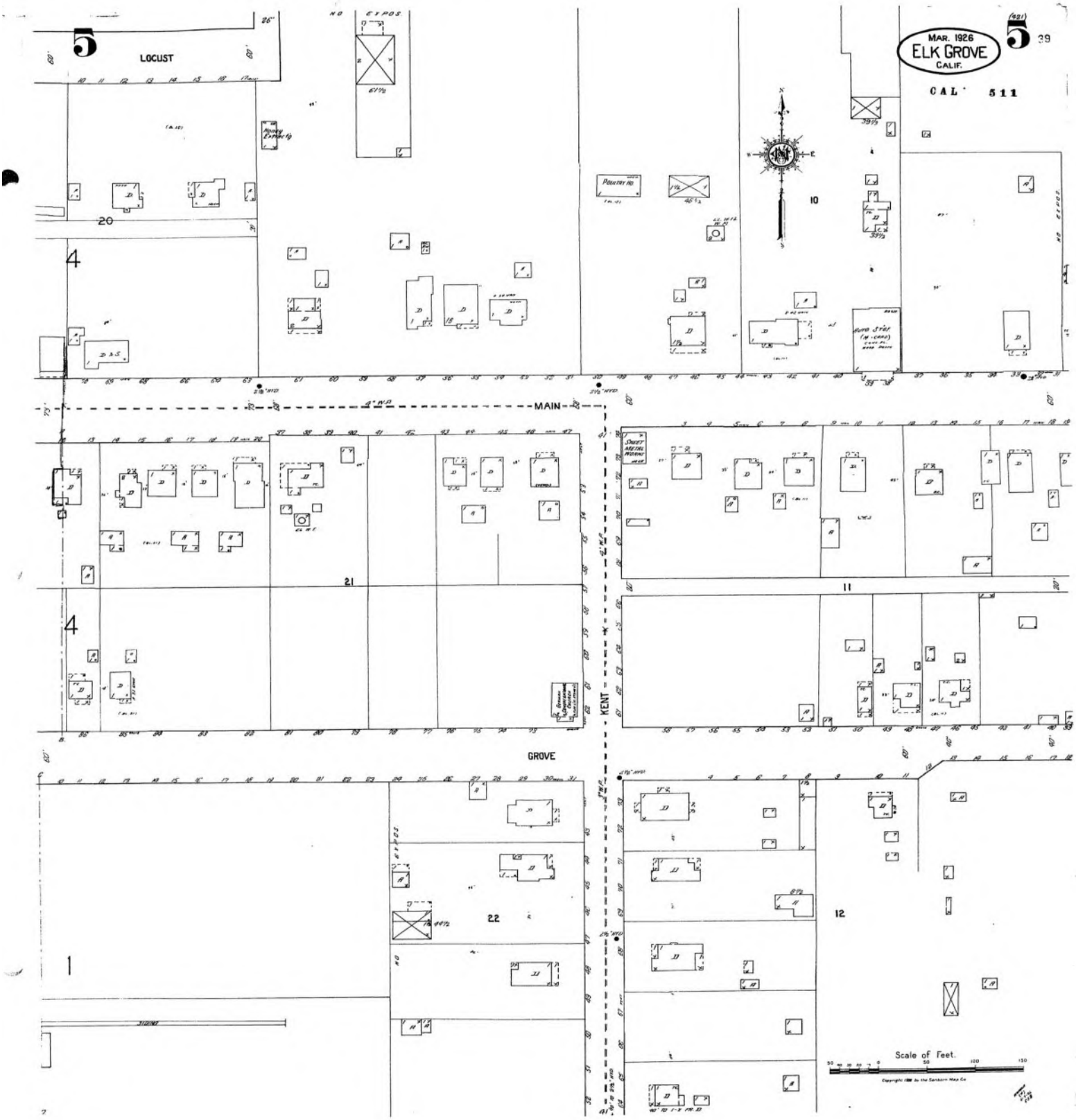

Sheet 5
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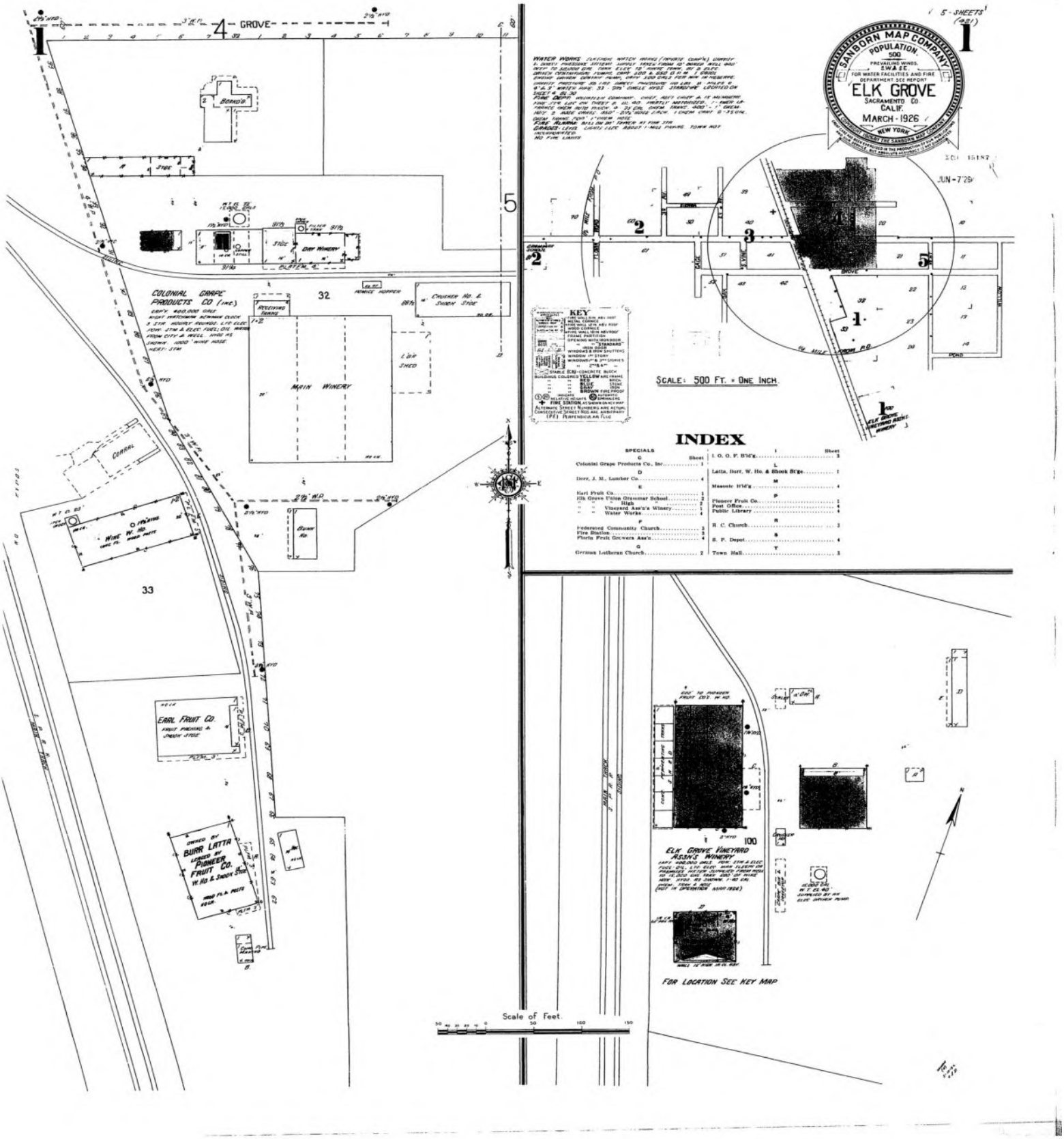

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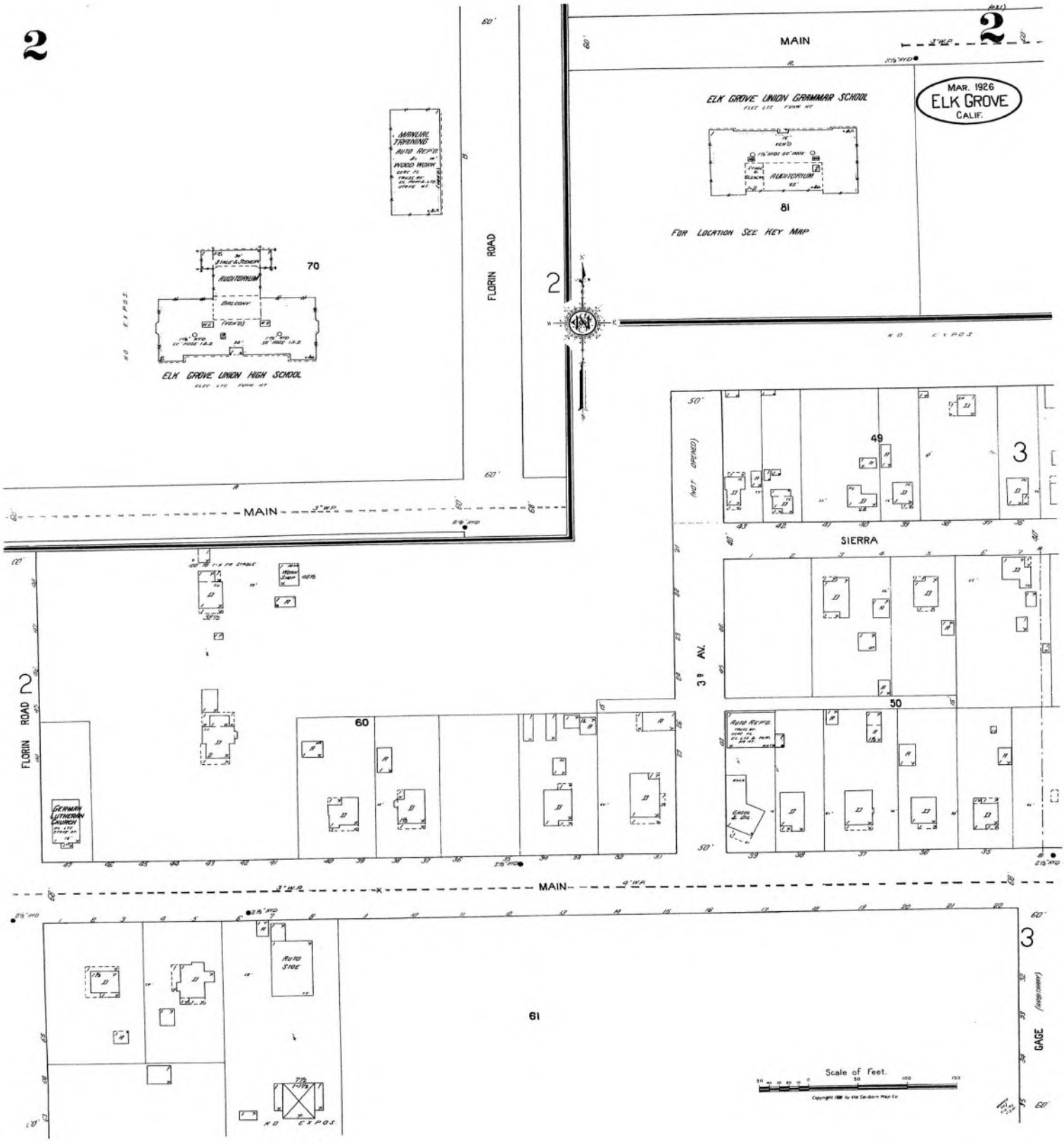
1926



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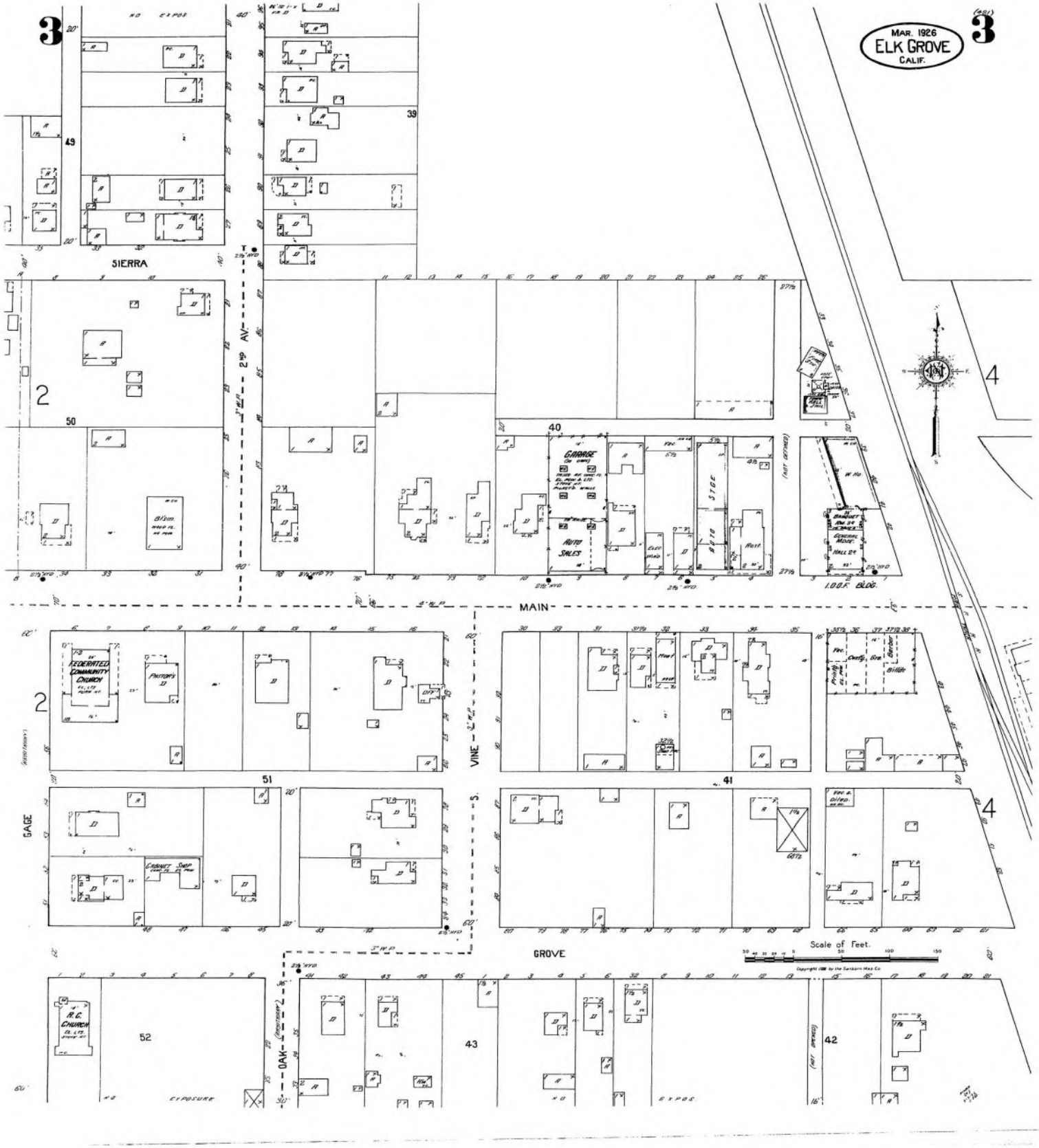
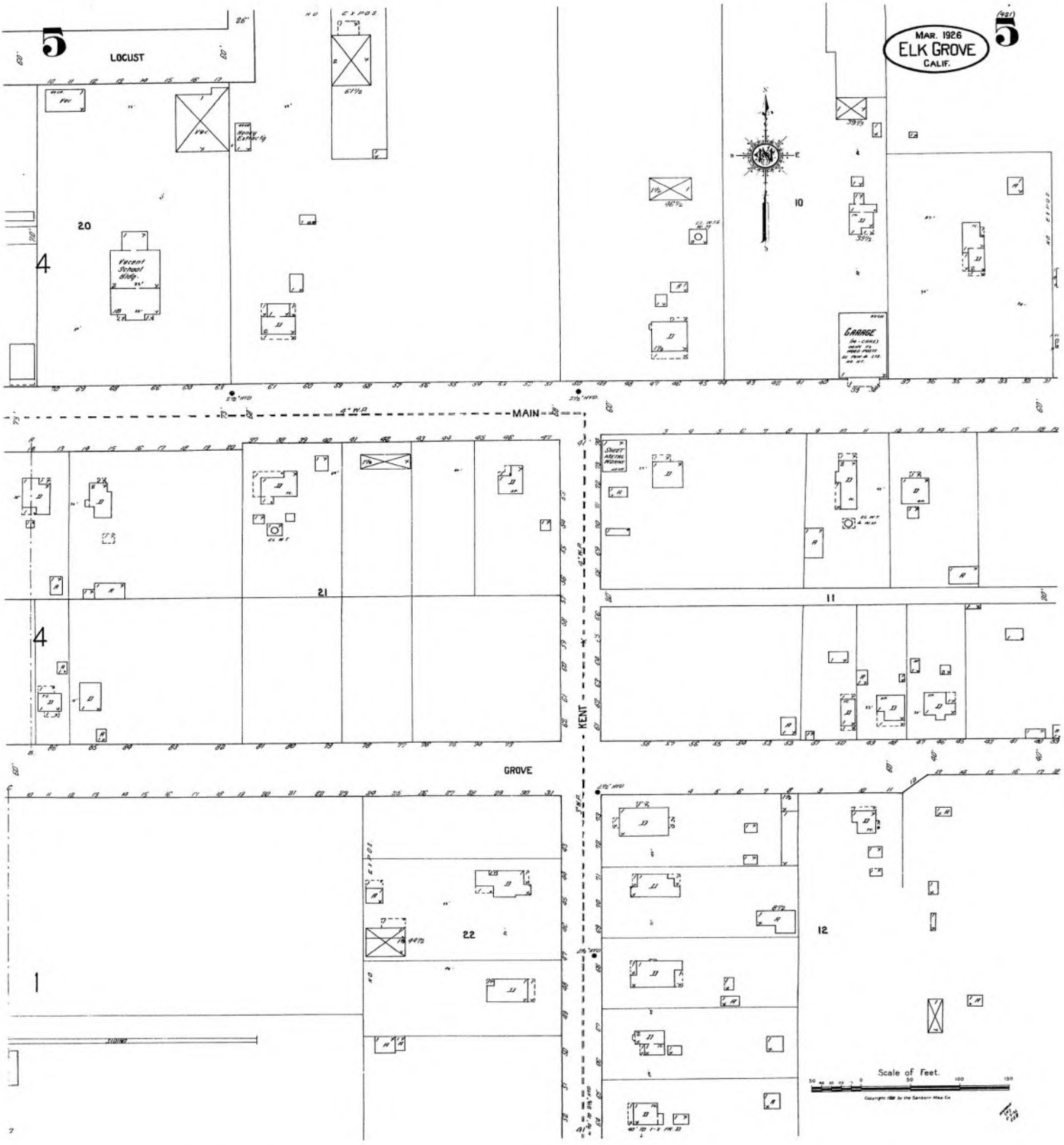
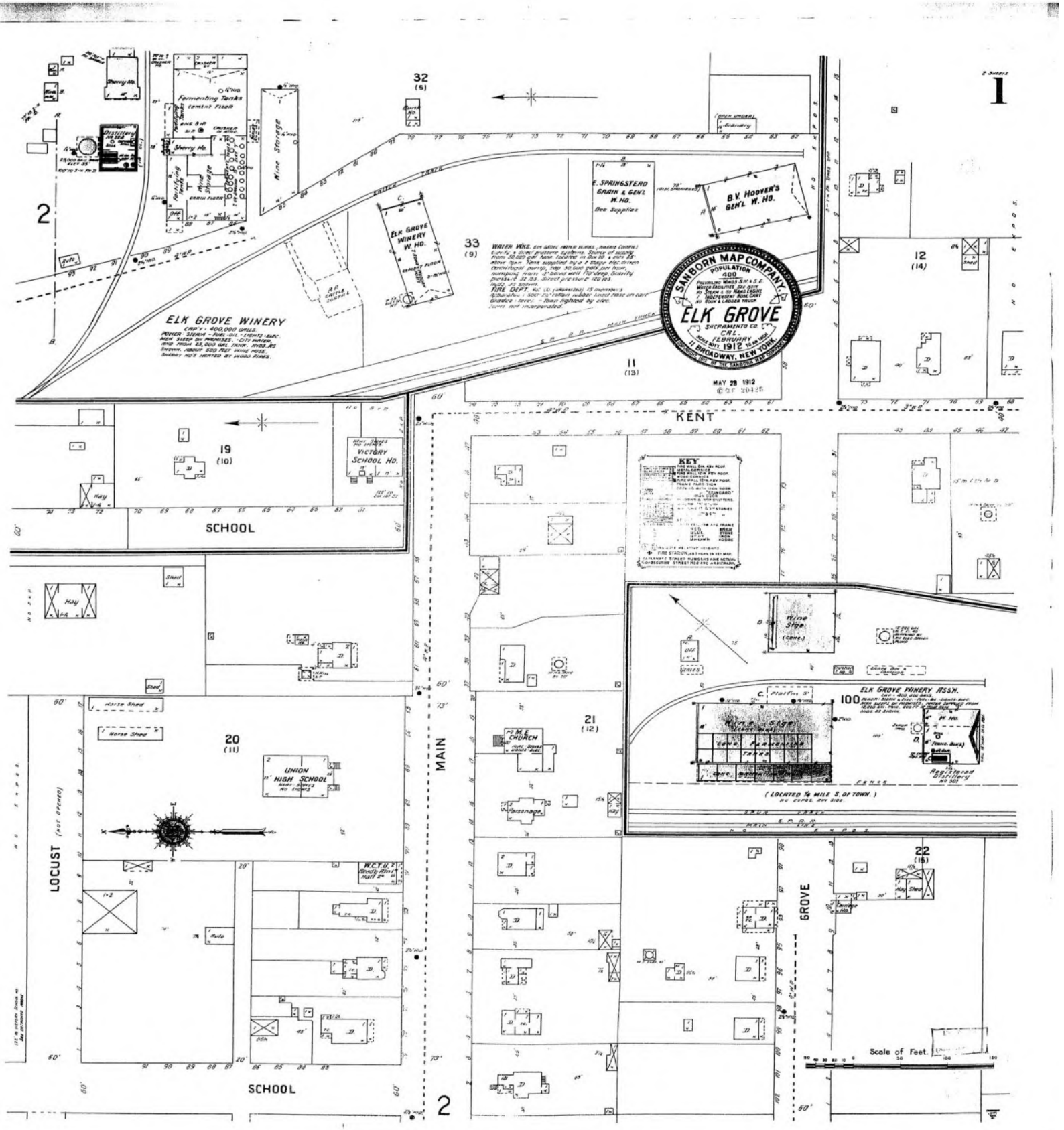


Sheet 3
1926

Sheet 4
1926



Sheet 5
1926



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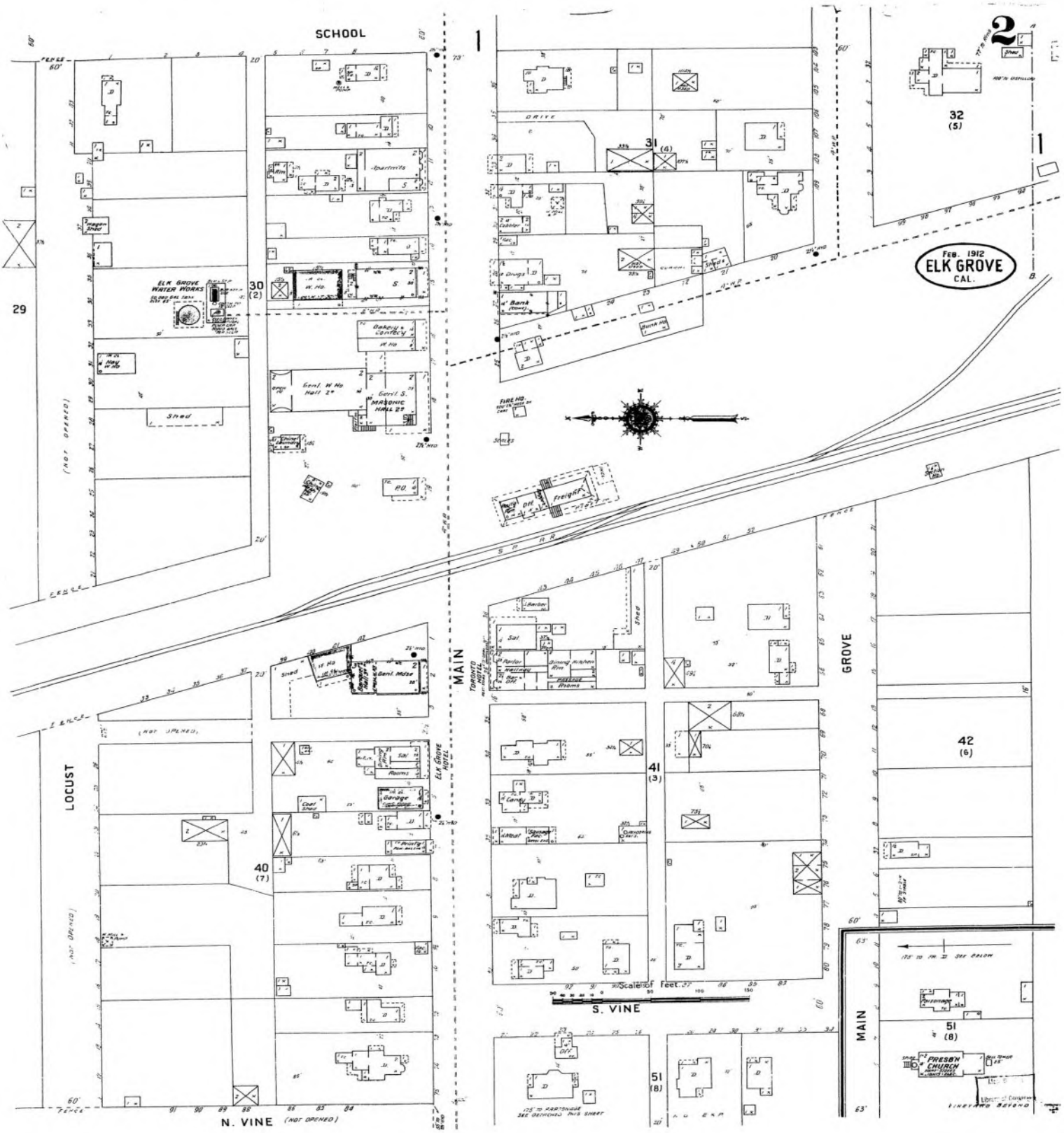

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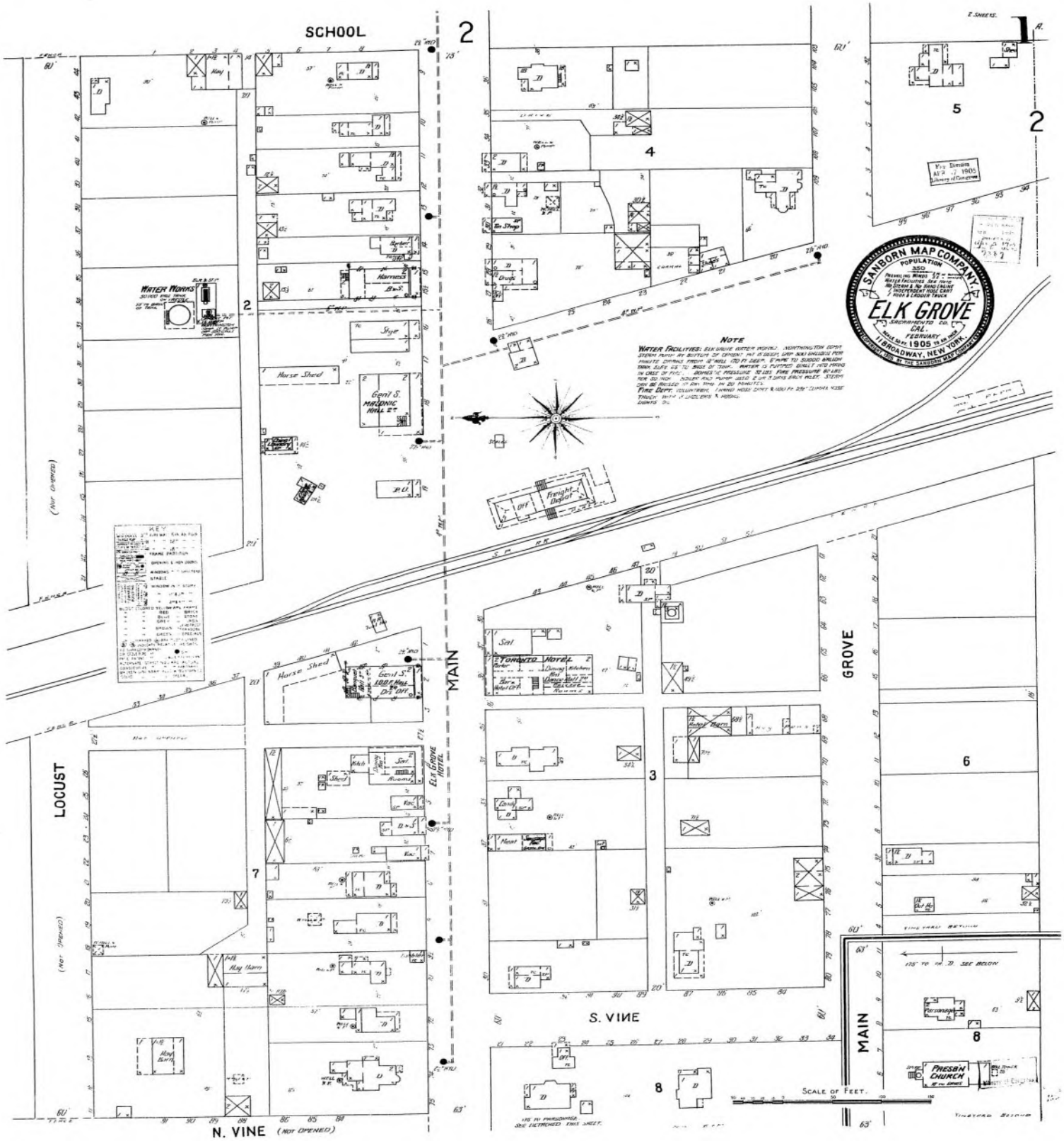

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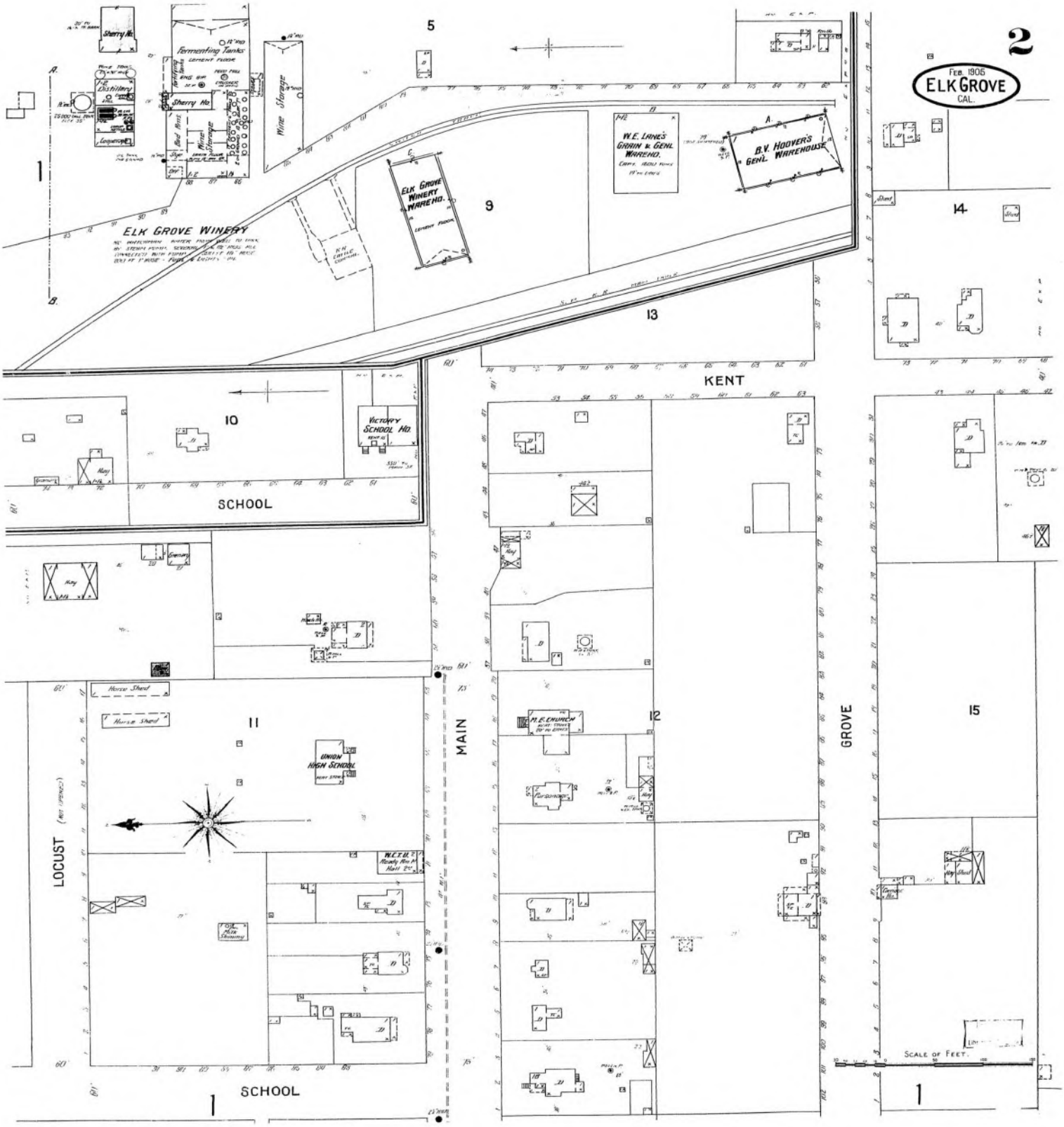

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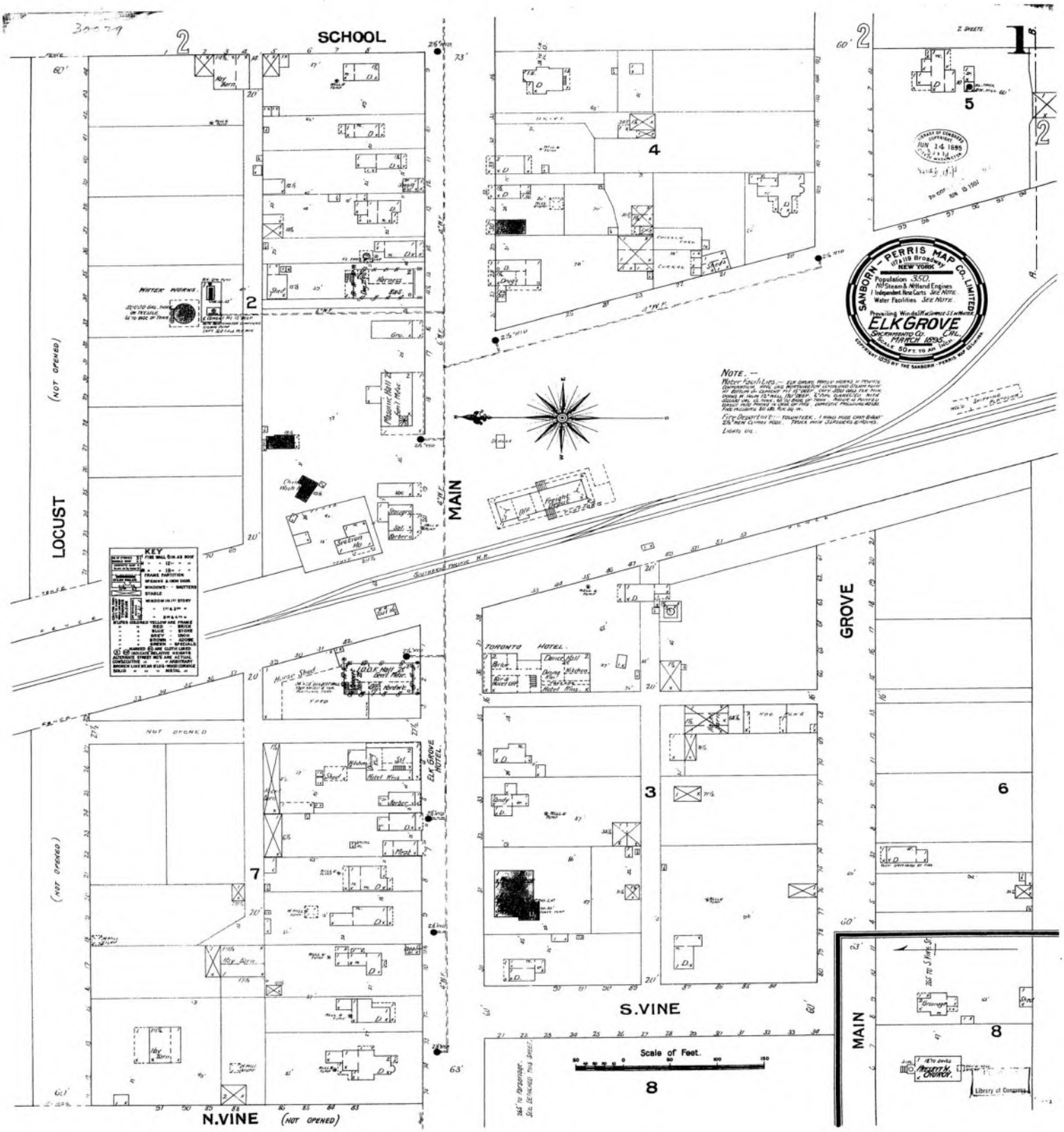

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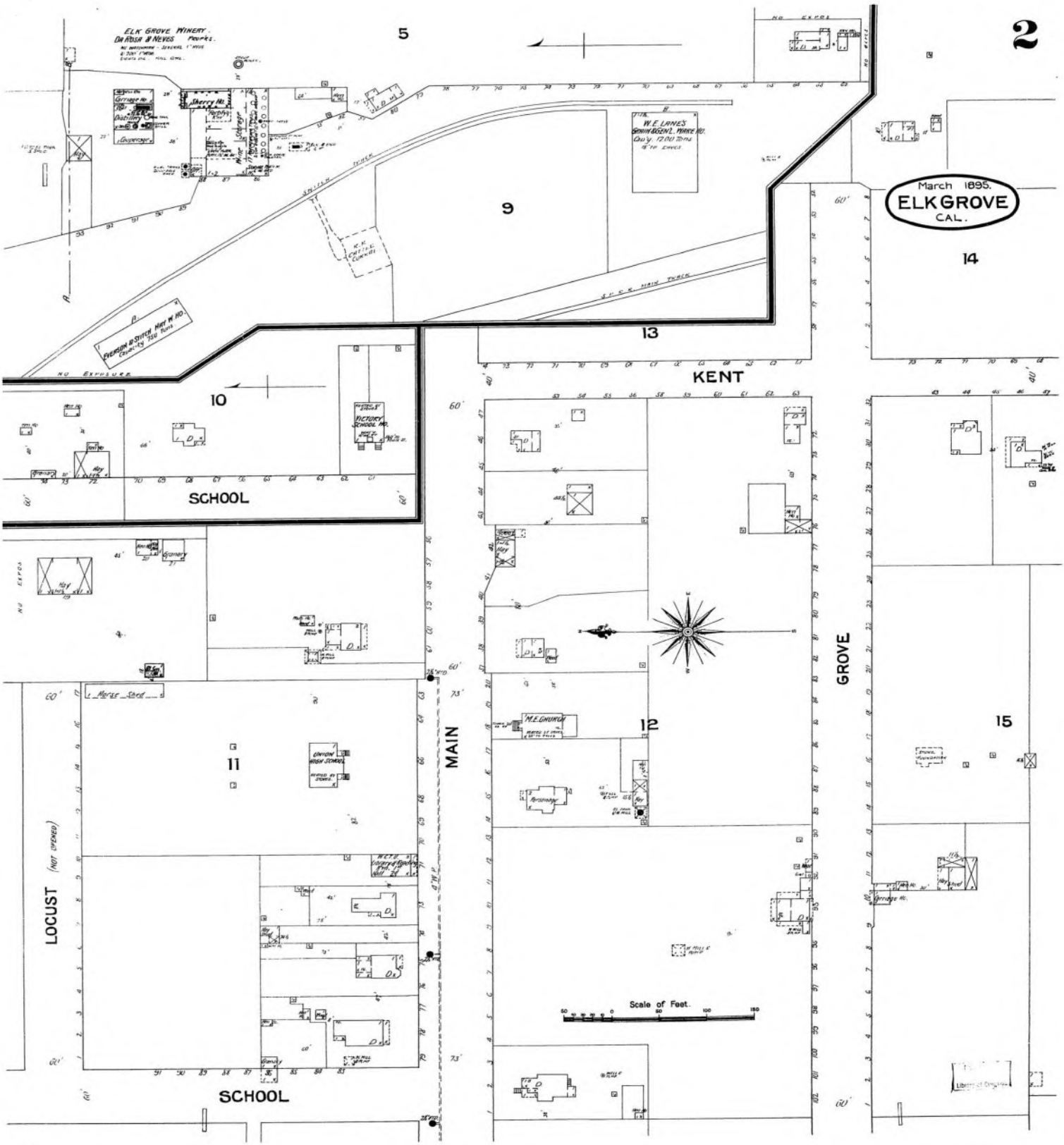

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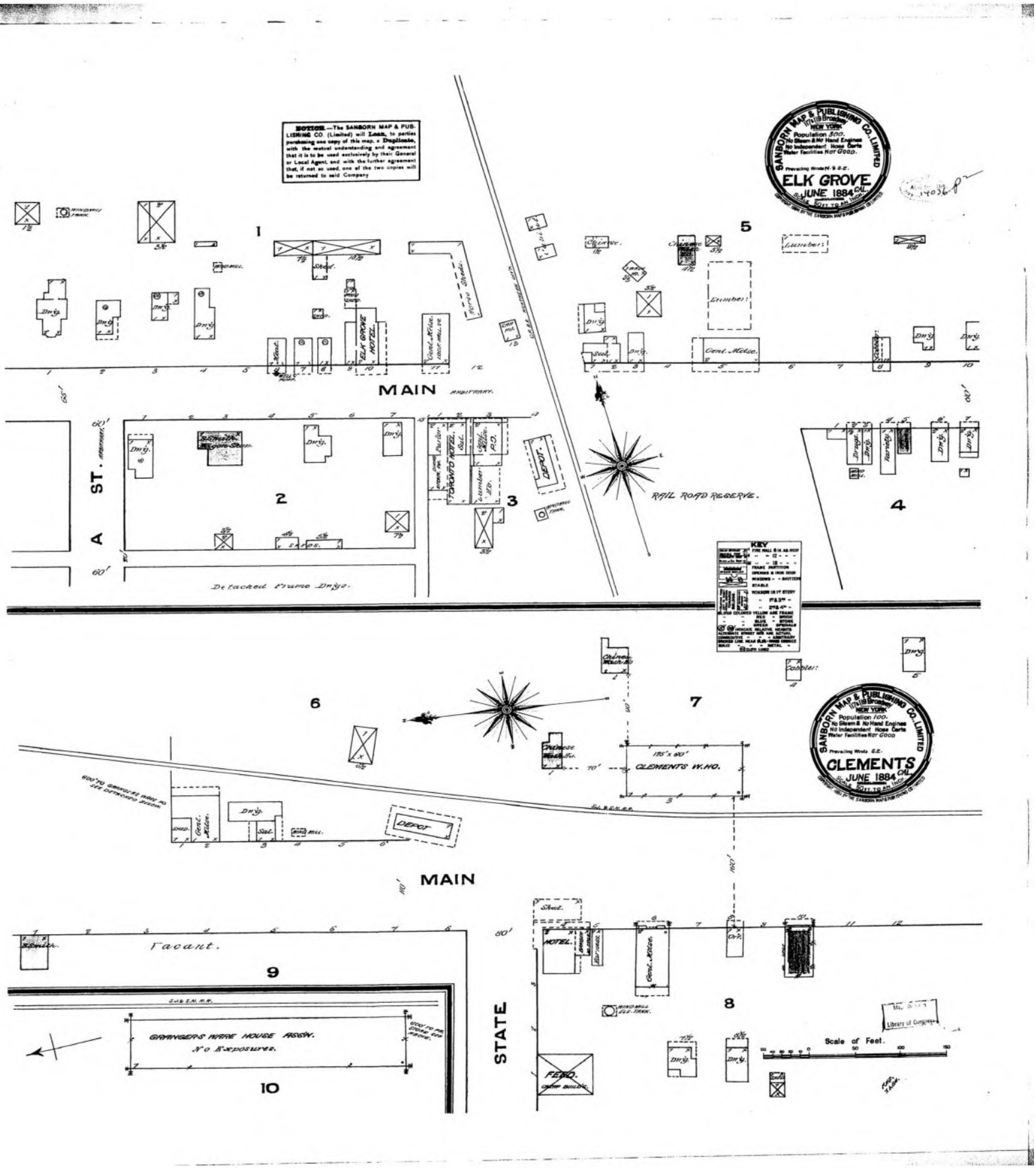

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Appendix G

Water Quality Technical Memorandum

ESA

Water Quality Assessment Memorandum

Arterial Roads Rehabilitation and Bicycle Lane Improvement Project (WPR014)

City of Elk Grove, Sacramento County, California
Caltrans District 3
RPSTPL-5479 (060)

July 2019

Caltrans
CALIFORNIA DEPARTMENT OF TRANSPORTATION

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Chapter 1. Project Description

1.1. Project Location

The proposed project is located in the City of Elk Grove (City) in Sacramento County, California (**Figure 1**). The project is primarily located along Waterman Road between Bond Road and Grant Line Road, and an additional segment on Elk Grove Florin Road (**Figure 2**).

1.2. Project Description

The project will include pavement rehabilitation or surface treatment (as deemed necessary) on segments of Waterman Road and Elk Grove Florin Road, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in Eastern Elk Grove. The project will take place on the following segments:

1. Waterman Road – approximately 700 feet south of Bond Road to 850 feet north of Rancho Drive.
2. Waterman Road – approximately 850 feet north of Rancho Drive to Elk Grove Blvd.
3. Waterman Road – approximately 80 feet north of Dino Drive/Mainline Drive to Kent Street.
4. Waterman Road – Kent Street to approximately 400 feet south of Brinkman Court.
5. Waterman Road – approximately 400 feet south of Brinkman Court to Mosher Road.
6. Waterman Road – Mosher Road to approximately 1,000 feet south of Mosher Road.
7. Waterman Road – approximately 1,000 feet south of Mosher Road to Grant Line Road.
8. Elk Grove Florin Road – Elk Grove Blvd to Valley Oak Lane.

Segments 1, 5, and 6 will rehabilitate pavement and widen shoulders to accommodate a Class 2 Bike Lane in both directions.

Segments 2, 3, 4, 7, and 8 will have pavement rehabilitation or surface treatment, and restriping to provide a Class 2 Bike Lane in both directions.

Segment 2 will also include restriping to move an existing southbound lane drop from beginning near Waterman Road's intersection with Brinkman Court to commencing further north at Dino Drive. This restriping is required to fit Class 2 Bike Lanes within the existing roadway surface.

The project will create a new mid-block pedestrian crossing along Elk Grove-Florin Road between Cadura Circle and Plaza Park Drive; and extend an existing sidewalk segment on the western side of

Waterman Road to the Laguna Creek Trail entrance/parking area. Additionally, the project will also require utility relocations.

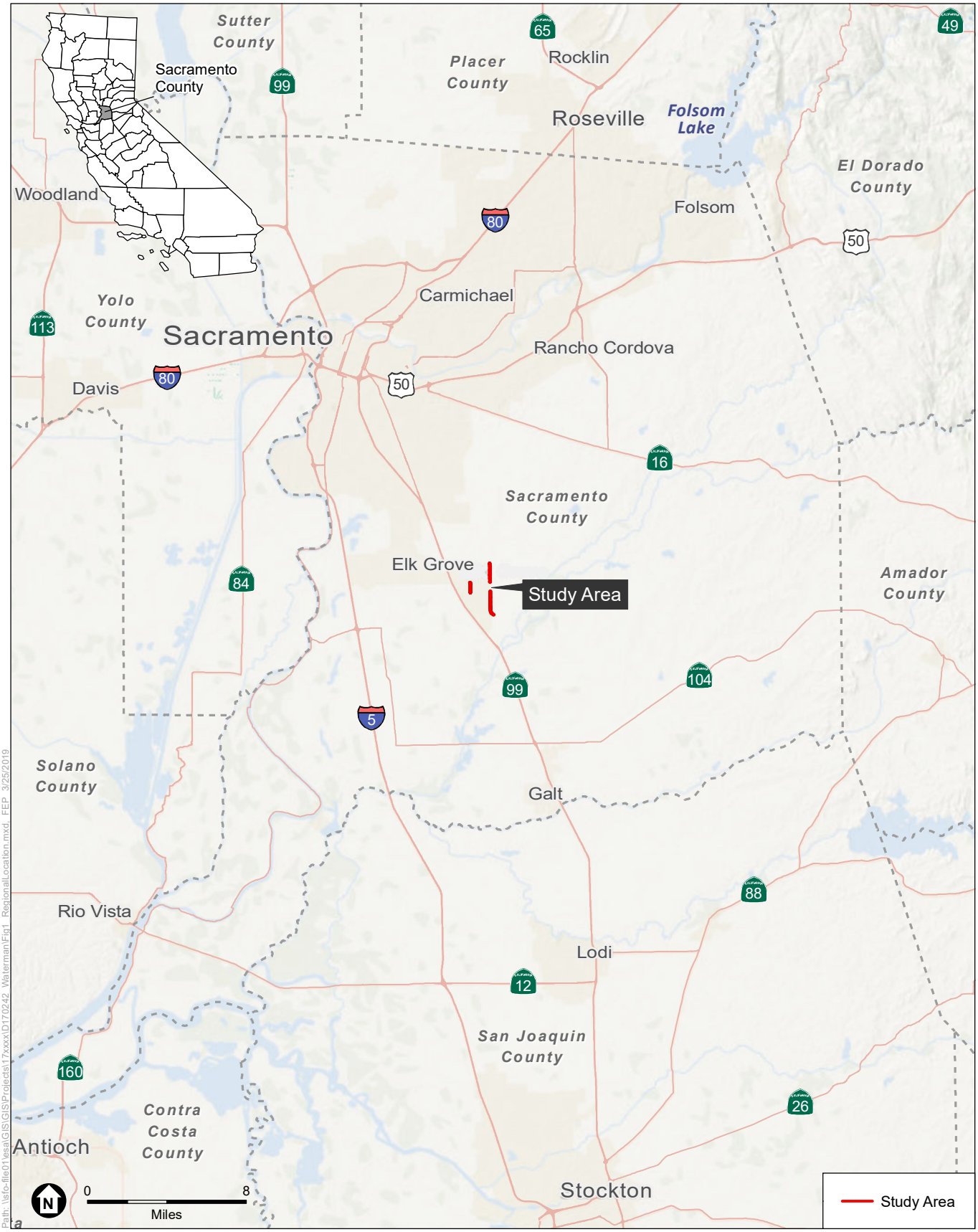
Construction of the project may occur in phases, depending on funding or other factors impacting schedule.

1.2.1. Need

The segments requiring pavement rehabilitation are of a condition that further deterioration would likely result in costlier replacement of pavement in the future. Further, the selected segments are shown in the City of Elk Grove's 2014 Bicycle, Pedestrian, and Trails Master Plan as having future Class 2 bike lanes. Implementation of the project will extend the useful life of the pavement, improve ride quality for both motorists and cyclists, and will fill in gaps in the existing Class 2 bike lane network in East Elk Grove, especially along Waterman Road.

1.3. Project Setting

Existing land uses surrounding the project site include low-density residential, high-density residential, industrial and light industrial with some agricultural uses in the area. The project area includes 7 segments along Waterman Road ranging from 950 to 2,700 feet in length; and a 2,700-foot segment along Elk Grove Florin Road. The study area is relatively flat, with elevations ranging from approximately 88 (Segment 8) to 43 (Segment 7) feet above mean sea level (msl). Laguna Creek is the primary natural drainage that flows through Elk Grove, and is located immediately north of Segment 1, near the intersection of Bond and Waterman Roads. Laguna Creek flows in a southwesterly direction past the project site, then easterly through the City, before turning south and converging with Morrison Creek before ultimately merging with the Sacramento River, downstream of the Sacramento Regional San Wastewater Treatment Plant and approximately 19 miles downstream of the project site. Elk Grove Creek flows from east to west across Waterman Road between Segments 3 and 4. In addition, the Cosumnes River is another notable drainage of the region which is located just 1.6 miles southeast of the southern portion of Segment 7.

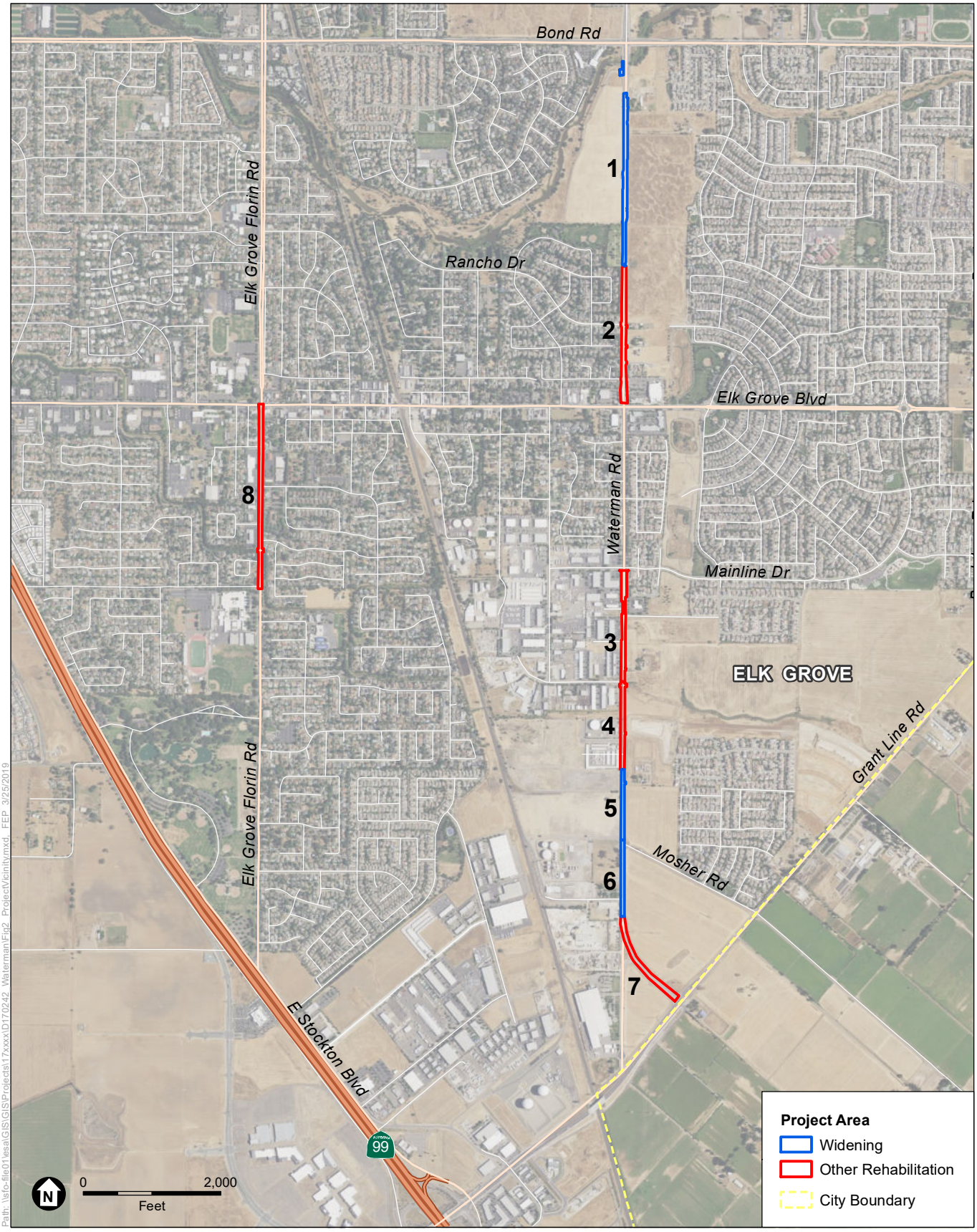


SOURCE: Esri, 2015; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 1
Regional Location

ESA



SOURCE: USDA, 2016; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2

Project Vicinity

ESA

Chapter 2. Regulatory Setting

The following text summarizes laws and requirements applicable to the project.

2.1. Federal Laws and Requirements

2.1.1. Clean Water Act

In 1972, Congress amended the Federal Water Pollution Control Act, making the addition of pollutants to the Waters of the United States (US) from any point source unlawful unless the discharge is in compliance with a National Pollutant Discharge Elimination System (NPDES) permit. Known today as the Clean Water Act (CWA), Congress has amended it several times. In the 1987 amendments, Congress directed dischargers of storm water from municipal and industrial/construction point sources to comply with the NPDES permit scheme. Important CWA sections are:

- Sections 303 and 304 require states to promulgate water quality standards, criteria, and guidelines.
- Section 401 requires an applicant for a federal license or permit to conduct any activity that may result in a discharge to Waters of the US to obtain certification from the State that the discharge will comply with other provisions of the act. (Most frequently required in tandem with a Section 404 permit request. see below)
- Section 402 establishes the NPDES, a permitting system for the discharges (except for dredge or fill material) of any pollutant into Waters of the US Regional Water Quality Control Boards (RWQCB) administer this permitting program in California. Section 402(p) requires permits for discharges of storm water from industrial/construction and municipal separate storm sewer systems (MS4s).
- Section 404 establishes a permit program for the discharge of dredge or fill material into Waters of the US. This permit program is administered by the United States Army Corps of Engineers (USACE).

The objective of the CWA is "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters."

USACE issues two types of 404 permits: Standard permits and General permits. There are two types of General permits: Regional permits and Nationwide permits. Regional permits are issued for a general category of activities when they are similar in nature and cause minimal environmental effect. Nationwide permits are issued to authorize a variety of minor project activities with no more than minimal effects.

There are two types of Standard permits: Individual permits and Letters of Permission. Ordinarily, projects that do not meet the criteria for a Nationwide Permit may be permitted under one of

USACE's Standard permits. For Standard permits, the USACE decision to approve is based on compliance with U.S. Environmental Protection Agency's (EPA's) Section 404 (b) (1) Guidelines (US EPA CFR 40 Part 230), and whether permit approval is in the public interest. The Section 404(b) (1) Guidelines were developed by the US EPA in conjunction with USACE, and allow the discharge of dredged or fill material into the aquatic system (Waters of the US) only if there is no practicable alternative which would have less adverse effects. The Guidelines state that USACE may not issue a permit if there is a least environmentally damaging practicable alternative (LEDPA), to the proposed discharge that would have lesser effects on Waters of the US, and not have any other adverse environmental consequences. Per Guidelines, documentation is needed that a sequence of avoidance, minimization, and compensation measures has been followed, in that order. The Guidelines also restrict permitting activities that violate water quality or toxic effluent standards, jeopardize the continued existence of listed species, violate marine sanctuary protections, or cause "significant degradation" to Waters of the US. In addition, every permit from the USACE, even if not subject to the Section 404(b) (1) Guidelines, must meet general requirements (see 33 CFR 320.4).

2.1.2. Safe Drinking Water Act

The Safe Drinking Water Act was established to protect the quality of waters actually or potentially designated for drinking use, whether from aboveground or underground sources. Contaminants of concern in a domestic water supply are those that either pose a health threat or in some way alter the aesthetic acceptability of the water. Primary and secondary Maximum Contaminant Levels (MCL) are established for numerous components of concern including turbidity, total dissolved solids (TDS), chloride, fluoride, nitrate, priority pollutant metals and organic compounds, selenium, bromate, trihalomethane and haloacetic acid precursors, radioactive compounds, and gross radioactivity. All domestic water suppliers must follow the requirements established by this act and its associated amendments.

2.2. State Laws and Requirements

2.2.1. Porter-Cologne Water Quality Control Act

California's Porter-Cologne Act, enacted in 1969, provides the legal basis for water quality regulation within California. It predates the CWA and regulates discharges to Waters of the State. Waters of the State include more than Waters of the US, such as groundwater and surface waters not considered Waters of the US. Additionally, the Porter-Cologne Act prohibits discharges of "waste" as defined and this definition is broader than the CWA definition of "pollutant". Discharges under the Porter-Cologne Act must be regulated by the Waste Discharge Requirements (WDRs) Program,

which may regulate the project even when the discharge is already permitted or exempt under the CWA.

The State Water Resources Control Board (SWRCB) and RWQCB 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 study area are contained in the applicable RWQCB Basin Plan. States designate beneficial uses for all water body segments, 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, each state 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 components and the standards cannot be met through point source controls, 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.

2.2.2. State Water Resources Control Board and Regional Water Quality Control Boards

The SWRCB administers water rights, water pollution control, and water quality functions throughout the state. RWCQBs are responsible for protecting beneficial uses of water resources within their regional jurisdiction using planning, permitting, and enforcement authorities to meet this responsibility. The Central Valley Regional Water Quality Control Board (CVRWQCB) has adopted the Fourth Edition of the Water Quality Control Plan (Basin Plan) for the Sacramento River and San Joaquin River Basins, which identifies the current and potential beneficial uses for surface and groundwater within the Central Valley region (CVRWQCB, 1998). The Basin Plan has been updated periodically with the most recent amendment put into effect July 8, 2016 (Regional Board Resolution No. R5-2014-0074 (CVRWQCB, 2016).

2.2.3. National Pollution Discharge Elimination System (NPDES) Program

2.2.3.1. STATE CONSTRUCTION GENERAL PERMIT

Construction General Permit (Final Order No. 2012-0006-DWQ, NPDES No. CAS000002 amending 2009-0009 DWQ as amended by 2010-0014 DWQ and 2012-0006-DWQ), adopted on July 17, 2012, became effective on July 17, 2012. The permit regulates stormwater discharges from construction sites which result in a Disturbed Soil Area (DSA) of one acre or greater, and/or are smaller sites that are part of a larger common plan of development. For all projects subject to the CGP, applicants are required to develop and implement an effective Storm Water Pollution Prevention Plan (SWPPP).

By law, all storm water discharges associated with construction activity where clearing, grading, and excavation results in soil disturbance of at least one acre must comply with the provisions of the CGP. Construction activity that results in soil disturbances of less than one acre is subject to this CGP if there is potential for significant water quality impairment resulting from the activity as determined by the RWQCB. Operators of regulated construction sites are required to develop SWPPPs; to implement sediment, erosion, and pollution prevention control measures; and to obtain coverage under the CGP.

The CGP separates projects into Risk Levels 1, 2, or 3. Risk levels are determined during the planning and design phases, and are based on potential erosion and transport to receiving waters. Requirements apply according to the Risk Level determined. For example, a Risk Level 3 (highest risk) project would require compulsory storm water runoff pH and turbidity monitoring, and pre- and post-construction aquatic biological assessments during specified seasonal windows.

2.2.4. Section 401 Permitting

Under Section 401 of the CWA, any project requiring a federal license or permit that may result in a discharge to a water of the United States must obtain a 401 Certification, which certifies that the project will be in compliance with State water quality standards. The most common federal permit triggering 401 Certification is a CWA Section 404 permit, issued by USACE. The 401 permit certifications are obtained from the appropriate RWQCB, dependent on the project location, and are required before USACE issues a 404 permit.

In some cases, the RWQCB may have specific concerns with discharges associated with a project. As a result, the RWQCB may issue a set of requirements known as Waste Discharge Requirements (WDRs) under the State Water Code (Porter-Cologne Act) that define activities, such as the inclusion of specific features, effluent limitations, monitoring, and plan submittals that are to be implemented for protecting or benefiting water quality. WDRs can be issued to address both permanent and temporary discharges of a project.

2.2.5. Section 1602 Agreement

Compliance with Section 1602 of the California Fish and Game Code requires a Streambed Alteration Agreement. Under this section, any person, state, local government agency, or public utility must notify the California Department of Fish and Wildlife (CDFW) before the start of any activity that may impact a river, stream, or lake under three circumstances. These three circumstances include activities that may substantially divert or obstruct the natural flow of any river, stream, or lake; substantially change or use any material from the bed, channel, or bank of any

river, stream, or lake; or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake.

Section 1602 applies to all perennial, intermittent, and ephemeral rivers, streams, and lakes in California. There are three types of standard Streambed Alteration Agreements: standard, standard long-term, and master. Standard Agreements are appropriate for activities expected to take place within a five-year time frame, standard long-term agreements are necessary for activities expected to continue past a five-year time frame, and master agreements are similar to a programmatic agreement that is used for activities expected to continue past a five-year time frame.

2.3. Regional and Local Requirements

2.3.1. Sacramento County MS4 Permit

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 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 Plans (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.

2.3.2. Elk Grove General Plan

The City's General Plan (2003, as amended through 2009 and currently being updated) contains policies and implementation measures that apply to development within the city limits. Policies applicable to the project, from the General Plan Conservation Element and the Safety Element, include measures relevant to surface water and groundwater resources, and water quality protection in the city:

Policy CAQ-13: Implement the City's NPDES Permit through the review and approval of development projects and other activities regulated by the permit.

Policy CAQ-14: The City shall seek to minimize the amount of impervious surfaces and directly connected impervious surfaces in areas of new development and redevelopment and use on-site

infiltration of runoff in areas with appropriate soils where infiltration of storm water would not pose a potential threat to groundwater quality.

Policy CAQ-18: Post-development peak storm water runoff discharge rates and velocities shall be designed to prevent or reduce down-stream erosion, and to protect stream habitat.

Policy CAQ-20: Fill may not be placed in any 100-year floodplain as delineated by currently effective FEMA Flood Insurance Rate Maps or subsequent comprehensive drainage plans unless specifically approved by the city. No fill shall be permitted in wetland areas unless approved by the City and appropriate state and federal agencies.

Policy SA-13: The City shall require that all new projects not result in new or increased flooding impacts on adjoining parcels on upstream and downstream areas.

Policy SA-23: The City shall require all new urban development projects to incorporate runoff control measures to minimize peak flows of runoff and/or assist in financing or otherwise implementing Comprehensive Drainage Plans.

Chapter 3. Affected Environment

3.1. Introduction

This chapter describes the physical condition of the project site (see **Figure 1-2**) and surrounding area including the existing land use, topography, geology and soils, surface water features, precipitation and climate, groundwater conditions, and floodplains. The physical and regulatory settings serve as the baseline for the impact evaluation presented in Chapter 4, Environmental Consequences.

3.2. General Setting

The following discussion reviews general setting information for the project.

3.2.1. Topography and Climate

The project site is located within the boundary of the City of Elk Grove, within a largely developed area in the southeastern portion of the City. The project site, which extends along Waterman Road between Sheldon Road and Bond Road, includes an existing road and immediately adjacent lands. These have generally flat or nearly flat topography, with on site elevations ranging from 88 to 43 feet above mean sea level (amsl). In the greater vicinity of the project, the City lies on a relatively flat alluvial plain, with elevations in City limits that range from approximately 10 feet amsl near the Sacramento River to 150 feet amsl along the City's eastern margin. Land uses that surround the project include low-density residential, high-density residential, industrial, light industrial, and agriculture/grazing. Existing bicycle lanes are included along areas of Waterman Road with some recent improvements completed between Sheldon and Bond Roads.

Average annual precipitation in the City ranges from 15 to 20 inches. Temperatures in the City have reached as low as 18 degrees and as high as 115 degrees Fahrenheit. During a typical year, the coolest month of the year is December and the warmest month of the year is July, with the most precipitation occurring in January.

3.2.2. Geologic Setting, Soils, and Groundwater

The study area is located within what is known as the Great Valley geomorphic province. The geology of the Great Valley geomorphic province is classified by thick Jurassic through Holocene-aged sedimentary deposits. The majority of Elk Grove consists of soils characterized by low erosion potential and low to medium runoff rates. Based on information collected from the US Department of Agriculture's Web Soil Survey (USDA, 2018) for the project area, the most prominent soil types were:

Redding Gravelly Loam. Redding gravelly loam is present in the project area and vicinity, with slopes of 0 to 8 percent. The unit is comprised of alluvial fan remnants containing loamy alluvium derived from igneous, metamorphic, and sedimentary rock over clayey and/or cemented alluvium. Generally, typical profiles include up to about 2 feet of gravelly loam overlying 0 to 3 inches of clay, with possible layers of cemented gravelly material underlying the clay. The soils are moderately well drained with shallow groundwater.

San Joaquin Silt Loam. The San Joaquin series consists of moderately well drained soils on low terraces. Slopes range from 0 to 1 percent. The soils are typically fine grained and formed from dominantly granitic sources. At depths of 20 to 40 inches, the soils can become very firm to strongly cemented.

San Joaquin-Urban Land Complex. The soil unit is found in areas that have been shaped for urban land uses. The soils are about 50 percent San Joaquin soil and 35 percent Urban land with other fill materials making up the rest. San Joaquin soil are moderately deep and has a very slow permeability.

However, in general for all areas that are likely to be encountered, they have been disturbed if not replaced during previous road construction activities where the normal soil series may have been truncated or otherwise altered.

The proposed project is located within the South American Groundwater Subbasin (Subbasin 5-021.65) of the Sacramento Valley aquifer system (CDWR, 2004). Aquifers in this area generally consist of sand and gravel with considerable amounts of silt and clay. Groundwater in the vicinity of Elk Grove is a sodium calcium bicarbonate or calcium sodium bicarbonate (CDWR, 2004). Streams, subsurface inflows from adjacent areas, percolation of rainfall, and applied water provide recharge to the aquifer system in the City. Groundwater level data are available in the general vicinity of the project site, but not for the project site itself. The closest well for which groundwater level data were available was located along Elk Grove Boulevard, about one-half mile east of the intersection of Elk Grove Boulevard and Waterman Road (well number 07N06E32P001M), which indicated that groundwater levels are generally between 98 and 120 feet below ground surface (CDWR, 2018).

3.2.3. Hydrology and Water Quality

The project site and its immediate vicinity is mostly level though hummocky in some areas. Drainage from Waterman Road is carried either in roadside ditches or in catch basins where there are roadside curbs. Drainage along Elk Grove Florin Road flows along curb and gutters and collected in catch basins. Areas where driveways cross roadside ditches include small culverts. At least some of the runoff collected in the drainages are directed toward vernal pools surrounding Waterman Road

and within the City's right-of-way in the project area. Drainages and the vernal pools located near the project site carry flows only intermittently, during and following rain events.

The study area is located in the Morrison Creek watershed (Hydrologic Unit Code [HUC] 1802016304), which is part of the Lower Sacramento Subbasin (HUC 18020163). During major storm events, stormwater is collected in the roadside ditches and during periods of sufficient flow over larger areas of the project site can enter Laguna or Elk Grove Creek. Laguna Creek, in turn, flows south and west until it merges with Morrison Creek, and eventually discharges into the Sacramento River, as described previously. Elk Grove Creek is a tributary to Laguna Creek west of the study area near Lewis Stern Road before it joins Morrison Creek.

The Federal Emergency Management Agency (FEMA), through its Flood Insurance Rate Maps (FIRMs) documents and delineates the occurrence of floodplains and flood hazard areas in populated areas of the US. In the project vicinity, FEMA has delineated both the 100-year (i.e., 1% annual chance of return) and the 500-year (0.2% annual chance of return) floodplain areas. Based on a review of current FEMA maps, the project passes through floodplains that correspond to crossings of Laguna Creek at Waterman Road, just south of Bond Road (Segment 1); Elk Grove Creek at Waterman Road just south of Kent Street (Segment 3/4); and also Elk Grove at Elk Grove Florin Road south of Plaza Park Drive (Segment 8). The project would only rehabilitate the existing roadway at the Elk Grove crossings at Segment 3/4 and Elk Grove Florin Road at Segment 8. The project proposes some widening at the location of the crossing of Laguna Creek at Waterman Road south of Bond Road, but would remain within existing City right-of-way and would not impact the creek or alter the vertical clearance of the creek.

3.2.4. Aquatic Habitats

Environmental Science Associates (ESA) conducted a field survey in May 2018 to delineate the aquatic resources within the study area. The survey area included the project site as well as areas immediately adjacent to the project site encompassing approximately a total of 200.5 acres. Based on the findings of the field survey, ESA prepared an Aquatic Resources Delineation Report to identify aquatic resources directly within the project limits in April 2019.[1] The aquatic resources delineation concluded that there are 1.597 acres of aquatic resources in the study area. These include:

- 0.223 acre of seasonal wetland;
- 0.454 acre of vernal pool;

[1] The Biological Study Area includes the project footprint and a 250 foot buffer around the footprint. So this includes many features that will not be impacted directly by the project.

- 0.119 acre of vernal swale;
- 0.458 acre of perennial channel; and
- 0.343 acre of intermittent channel.

3.2.5. Water Quality Objectives/Standards and Beneficial Uses

Laguna Creek is the primary natural drainage that flows through Elk Grove, and intersects the northern end of the project site. Elk Grove Creek also intersects the site and is a tributary to Laguna Creek. Laguna Creek ultimately discharges to the Sacramento River. Beneficial uses have not been specifically identified for Laguna Creek; however, beneficial uses for the Sacramento River have been identified by the Central Valley RWQCB and include municipal and domestic supply, irrigation and stock watering, process, power, contact recreation, other non-contact recreation, warm freshwater habitat, cold freshwater habitat, and wildlife habitat.

3.2.6. Existing Water Quality

Water quality in the roadside drainages located on site, and nearby vernal pools, has not been analyzed. Water quality has, however, been documented along Morrison Creek, of which Laguna Creek is a tributary. The State Water Resources Control Board's 2014/2016 Integrated Clean Water Act Section 303(d) List (SWRCB, 2018) provides a summary of impaired water bodies throughout California. The list identifies specific pollutants for which a given water body is listed, and provides information regarding the pollutant source and the status of corrective action taken to manage each pollutant, as applicable. Laguna Creek is not included on the 2010 303(d) list. However, Morrison Creek is listed for the following pollutants:

- Diazinon (pesticide)
- Pentachlorophenol (pesticide)
- Pyrethroids (pesticide)
- Sediment Toxicity

Chapter 4. Environmental Consequences

4.1. Introduction

This chapter provides an analysis of the potential impacts to surface water, groundwater quality, and site drainage as a result of project implementation. Where applicable, mitigation that would reduce the significance of identified impacts is provided.

4.2. Potential Impacts to Water Quality

The following text reviews potential impacts to water quality.

4.2.1. Short-Term Construction Impacts

Project construction would involve roadway improvements in the existing right-of-way that include widening existing pavement areas in Segments 1, 5, and 6.

During the construction process, these activities would require the use of heavy equipment on site, including but not limited to grading equipment, excavators, bulldozers, semi-trucks, and paving equipment. Existing drainages would be filled, and re-excavated in their proposed locations. Existing culverts would be removed and, as warranted, re-excavated to support installation of the updated culverts. These activities would disturb existing surface vegetation, as well as surface sediments at the project site. This loosening of surficial soils could result, in the event of a storm, in increased erosion from the project site, as well as an increase in sedimentation downstream. Drainage potential to Laguna or Elk Grove Creek is enhanced during periods of high to very high stormflows. As a result, the project could result in increased sediment loads downstream, either in existing vernal pool areas or along Laguna/Elk Grove Creeks. Increased sediment load in either of these areas could meaningfully impact water quality, resulting in water quality degradation.

In addition to sediment, the use of heavy machinery on site would increase potential for construction related water quality pollution during storm events. Construction related oils, greases, paint, fuels, and other potential construction period water quality pollutants could become entrained in stormwater, resulting in degraded water quality downstream.

To minimize these potential impacts, construction site best management practices (BMPs) would be implemented for the project, in accordance with applicable NPDES requirements, and other water quality regulations designed to minimize impacts to water quality. Specifically, the construction site BMPs and minimization measures shown in Section 5 of this Memorandum would be implemented during project construction. Adherence to these measures would ensure that potential construction period water quality impacts would be reduced to less than significant.

4.2.2. Long-Term Operation Impacts

Implementation of the project would result in an expansion of the existing roadway and thereby increase the area of impervious surfaces within the project site. In contrast to pervious surfaces, impervious surfaces prevent the infiltration of water into the subsurface. Therefore, during storm events, a net increase in impervious surfaces can result in a net increase in stormwater flows, and can also result in an earlier release of peak stormwater flows from a given area. These changes can result in a net increase in the volume of water emanating from a given area during storms. Increases in runoff volume can cause a number of downstream impacts, including increased flooding, as well as increased erosion and sedimentation potential. Additionally, impervious surfaces tend to collect oils, greases, brake dust, and other automobile-related pollutants during the dry season, and readily discharge these into adjacent surface waters during storm events (especially during a first flush event).

Potential impacts associated with increased impervious surfaces under the project would be partially avoided given existing soil conditions on site and in the vicinity of the project. As discussed previously, gravelly surficial soils in the project vicinity are underlain by low-permeability clay layers, typically within 1 to 2 feet of the subsurface. These layers result in ponding and vernal pools observed during the wet season. As a result, infiltration capacity in the project vicinity is already limited under existing conditions. In addition, the project would accommodate increased bicycle traffic and should have no net effect on vehicular traffic. Increased bicycle use is generally not associated with a substantive increase in pollutant loading, thus the widening of the select segments in the project area would not substantively increase pollution sources. Therefore, installation of new impervious surfaces would have limited potential to further increase stormwater runoff or runoff pollutants from the project site. Any potential releases of water quality pollutants from the project site could be mitigated via implementation of treatment BMPs and minimization measures listed in Section 5 of this document. Adherence to these measures would ensure that operation period impacts considered here would be reduced to less than significant levels.

4.2.3. Cumulative Impacts

The addition of new paved surface within the project site would cover a very small percentage of the total area in the Laguna Creek and Morrison Creek watersheds, which together comprise thousands of acres. As discussed above, the new impervious surfaces associated with the project are not expected to substantially increase runoff in this area. Similar soils are present across much of the surrounding region. As a result, it is anticipated that increases in runoff from other similar projects in the project vicinity would also be minimal. With respect to cumulative water quality, the proposed BMPs and other required measures discussed for direct impacts would minimize pollutant release into downstream waterways. Drainage from the majority of the project site is routed into the large

vernal pools adjacent to the project. These pools do not receive drainage from other nearby projects or roadways, and therefore, there is no potential for cumulative impacts to occur within the pools. With respect to Laguna Creek and downstream areas, discharge to these waterways occurs primarily during very large storm events. During such events, large stormwater volume would be anticipated to dilute any remaining pollutants that were not removed by the proposed BMPs. Therefore, the project is not anticipated to meaningfully contribute to degradation of water quality downstream, even under a cumulative scenario, and the project would not result in a cumulatively considerable impact on stormwater flow or water quality.

Chapter 5. Avoidance and Minimization Measures

5.1. Introduction

Short term impacts to surface water quality could occur during construction of the proposed project. The following measures are recommended for inclusion on applicable plans prepared for the proposed project. All BMP's and other avoidance/minimization measures will be prepared in consultation with the project engineer, the City, the RWQCB, and other appropriate agencies.

The contractor shall conform to the requirements of the state NPDES General Construction Permit and any applicable General Permit in effect at the time of project construction. As part of this permit requirement, a SWPPP (following guidance in the current version of the Stormwater Quality Improvement Plan (SQIP), and in compliance with the partnership's shared municipal stormwater permit) shall be prepared prior to construction consistent with the requirements of the RWQCB. The SWPPP will incorporate all applicable BMPs to ensure that adequate measures are taken during construction to minimize water quality impacts.

Although not anticipated, if dewatering and discharging to land is necessary, the contractor shall conform to the requirements of the Statewide General Waste Discharge Requirements (WDRs) for Dewatering to Land with a Low Threat to Water Quality (Order No. 2003-0003-DWQ).

5.2. Potential Construction Water Quality Effects and Recommendations

The City shall require that the construction contractor implement the following mitigation measures:

Mitigation Measure WQ-1: The contractor shall implement and maintain BMPs to protect water quality of jurisdictional Waters adjacent to the project site. BMPs to be implemented, include, but are not limited to:

- Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally between April 15 and October 15) when all jurisdictional features within and adjacent to the project area are anticipated to be dry.
- Install fiber rolls, or other equivalent erosion and sediment control measures between the project area and Waters, as necessary, to ensure that construction debris and sediment does not inadvertently enter these Waters. All areas of exposed soil will be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition,

in order to minimize ground disturbance, fiber rolls or other equivalent control measures will not be keyed-in or buried.

- Immediately after project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, stabilizing the area and seeding with a native grass seed mix and planting native plants.
- Fiber rolls, or other equivalent erosion and sediment control measures will not be removed from the project area until vegetation has reestablished within all temporarily-impacted areas to at least 70 percent of pre-project vegetation cover conditions or better.
- No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of Receiving Waters.
- All machinery used during construction of the project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water.
- Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations.
- Implement construction vehicle track-out controls. Restrict vehicle use to properly designated exit points and wherever construction vehicle entry/exit points intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road prior to the use of these access points.
- Before any ground-disturbing activities, the contractor shall prepare and implement a SWPPP (as required under the State Water Resource Control Board's [SWRCB] General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]), that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP will be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat.

Mitigation Measure WQ-2: The contractor shall prepare and implement a SWPPP with the following objectives:

- to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the project;
- to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction;

- to outline and provide guidance for BMP monitoring;
- to identify project discharge points and receiving waters;
- to address post-construction BMP implementation and monitoring; and
- to address sedimentation, siltation, and turbidity.

Mitigation Measure WQ-3: Prior to any ground-disturbing activity, the City shall ensure that temporary orange barrier fencing is installed around sensitive habitat areas (i.e. waters of the U.S., special-status wildlife habitat, active bird nests) to be avoided, as appropriate. Construction personnel and construction activities shall avoid areas inside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality.

Installation of the barrier fence will occur under the supervision of a qualified biologist. The temporary orange barrier fencing will also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP. The fencing shall be shown on the final construction documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer will be established, where no construction activities (i.e., vehicle traffic or equipment operation) will occur outside the outer boundaries of the roadside ditches that will be excavated as part of the Project.

5.3. Post Construction Water Quality Effects and Recommendations

Ongoing yearly maintenance activities / BMPs shall include:

- Spot removal of sediment and other debris blocking the drainage ditches;
- Cleaning debris from culvert entrances and inlets;
- Monitoring sediment buildup and removal of sediment if sediment begins to impede culverts or other waterways;
- Monitoring culvert outlets for excessive erosion and repairing as necessary with rock slope protection (riprap), erosion control blankets, or turf reinforcement mats.
- Assess and revise, as necessary, these annual maintenance activities to ensure the effectiveness of drainage as designed.

Chapter 6. References

California Department of Water Resources (CDWR), *Water Data Library, Groundwater Levels for Station 384092N1213447W001,* http://wdl.water.ca.gov/waterdatalibrary/groundwater/hydrographs/brr_hydro.cfm?CFGRIDKEY=27854, accessed June 27, 2018.

California Department of Water Resources (CDWR), California's Groundwater Bulletin 118, Sacramento Valley Groundwater Basin, South American Subbasin, Last update February 27, 2004.

Central Valley Regional Water Quality Control Board (CVRWQCB), Order R5-2016-0040 NPDES No. CAS0085324 Waste Discharge Requirements, Municipal Separate Storm Sewer System, 2016.

Central Valley Regional Water Quality Control Board (CVRWQCB), Water Quality Control Plan, Basin Plan, 2016.

State Water Resources Control Board (SWRCB), *Final 2014/2016 California Integrated Report (Clean Water Act Section 303(d) List/305(b) Report,* https://www.waterboards.ca.gov/water_issues/programs/tmdl/2014_16state_ir_reports/category5_report.shtml, accessed June 28, 2018.

U.S. Department of Agriculture (USDA), Department of Conservation, *Web Soil Survey, Sacramento County,* https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm*, accessed June 27, 2018.*

Appendix H
Construction Noise Memorandum

ESA

ESA

2600 Capitol Avenue
Suite 200
Sacramento, CA 95816
916.564.4500 phone
916.564.4501 fax

www.esassoc.com

memorandum

date March 29, 2019

to Thaleena Bhattal, Environmental Planner, Caltrans - District 3

from Luke Evans, Senior Managing Associate, Environmental Science Associates (ESA)

subject **Construction Noise Memorandum for the Arterial Roads Rehabilitation and Bicycle Lane Improvement Project, Federal Project Number: RPSTPL 5479(060)**

Introduction

The project will include pavement rehabilitation or surface treatment (as deemed necessary) on segments of Waterman Road and Elk Grove Florin Road, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with the goal of providing continuous bike routes in Eastern Elk Grove. The project will take place on the following segments:

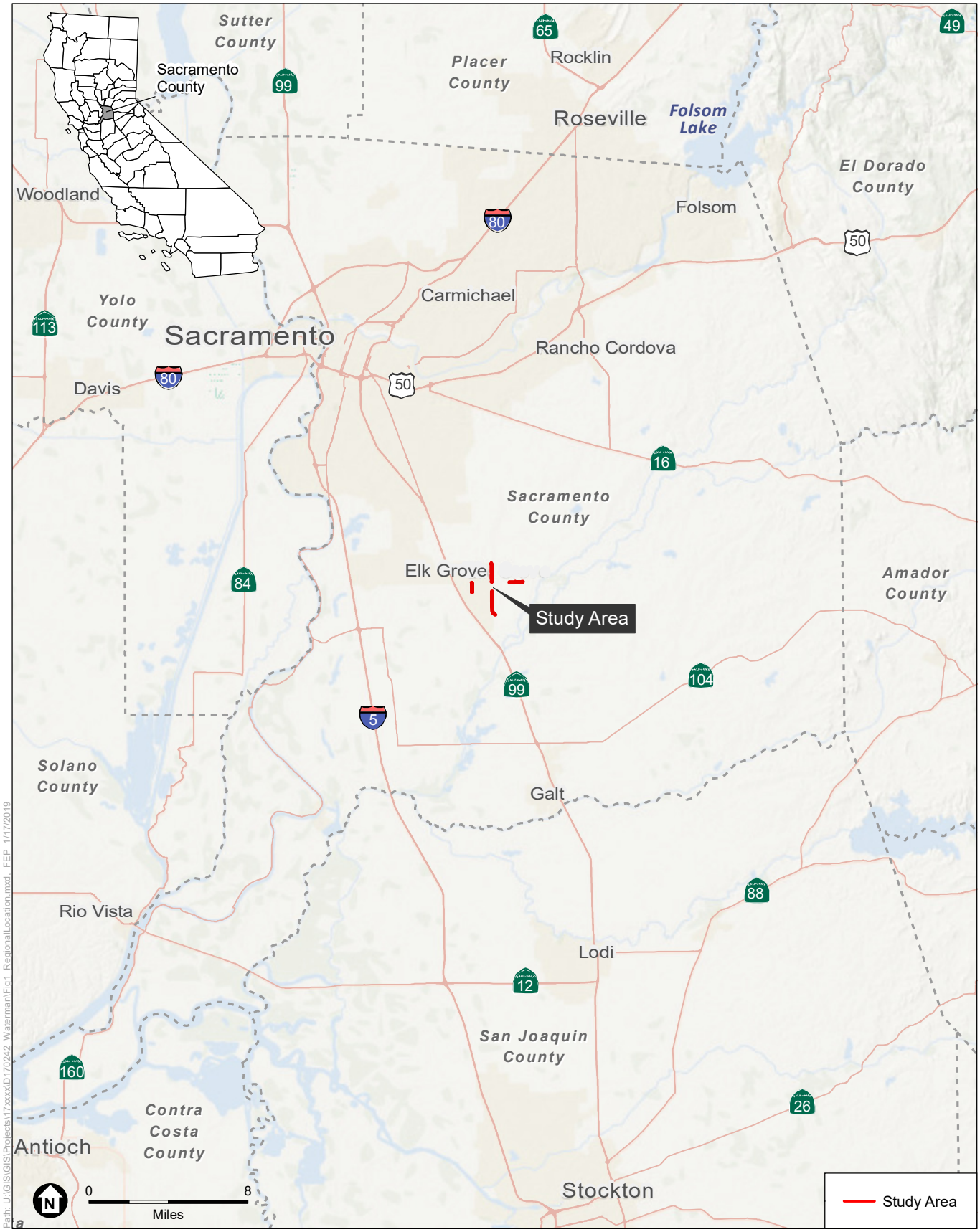
1. Waterman Road – approximately 700 feet south of Bond Road to 850 feet north of Rancho Drive.
2. Waterman Road – approximately 850 feet north of Rancho Drive to Elk Grove Blvd.
3. Waterman Road – approximately 80 feet north of Dino Drive/Mainline Drive to Kent Street.
4. Waterman Road – Kent Street to approximately 400 feet south of Brinkman Court.
5. Waterman Road – approximately 400 feet south of Brinkman Court to Mosher Road.
6. Waterman Road – Mosher Road to approximately 1,000 feet south of Mosher Road.
7. Waterman Road – approximately 1,000 feet south of Mosher Road to Grant Line Road.
8. Elk Grove Florin Road – Elk Grove Blvd to Valley Oak Lane.

Segments 1, 5, and 6 will rehabilitate pavement and widen shoulders to accommodate a Class 2 Bike Lane in both directions.

Segments 2, 3, 4, 7, and 8 will have pavement rehabilitation or surface treatment, and restriping to provide a Class 2 Bike Lane in both directions.

The project will create a new mid-block pedestrian crossing along Elk Grove-Florin Road between Cadura Circle and Plaza Park Drive; and extend an existing sidewalk segment on the western side of Waterman Road to the Laguna Creek Trail entrance/parking area. Additionally, the project will also require utility relocations.

Construction of the project may occur in phases, depending on funding or other factors impacting schedule.

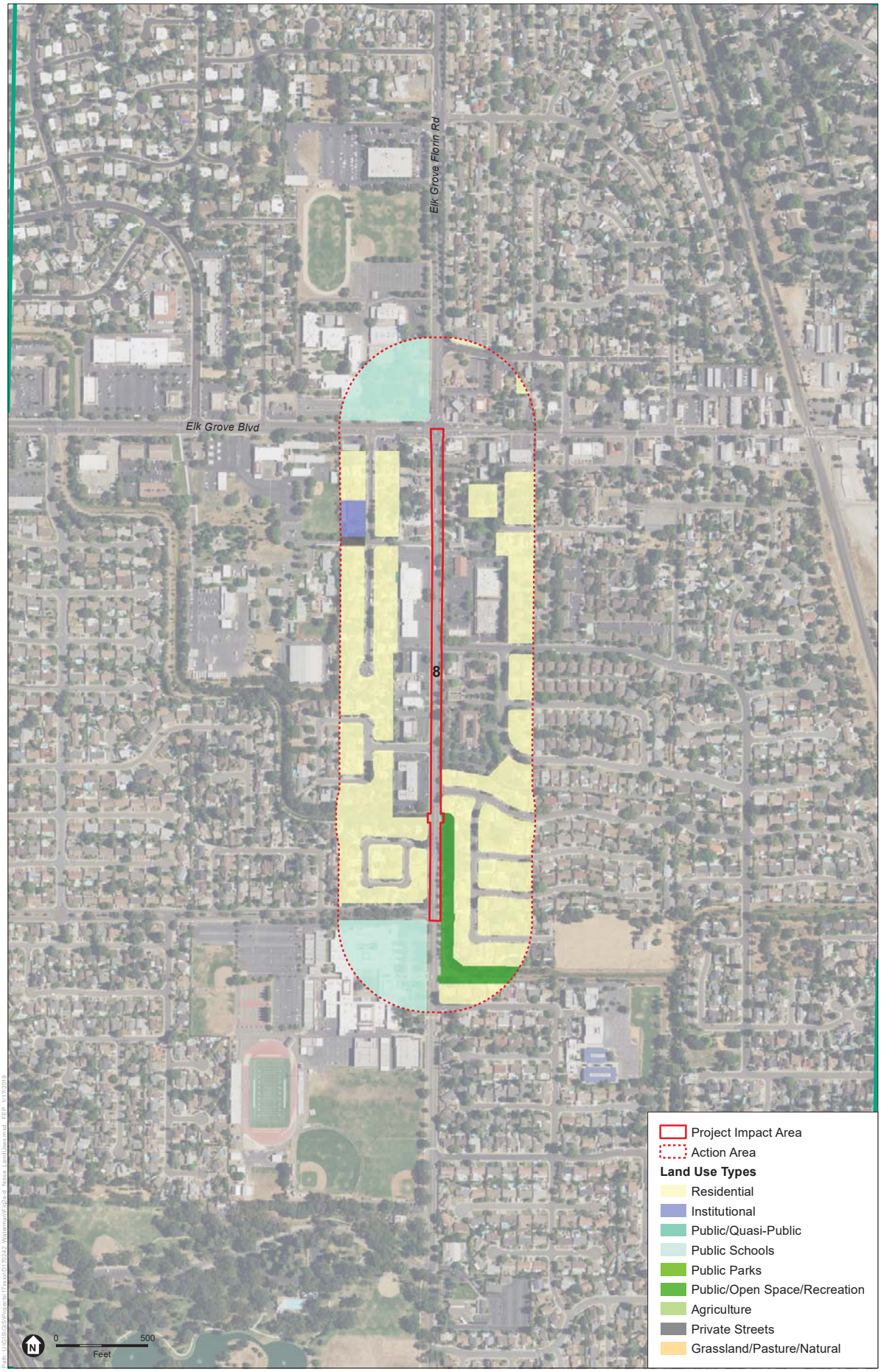


SOURCE: Esri, 2015; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 1
Regional Location

ESA

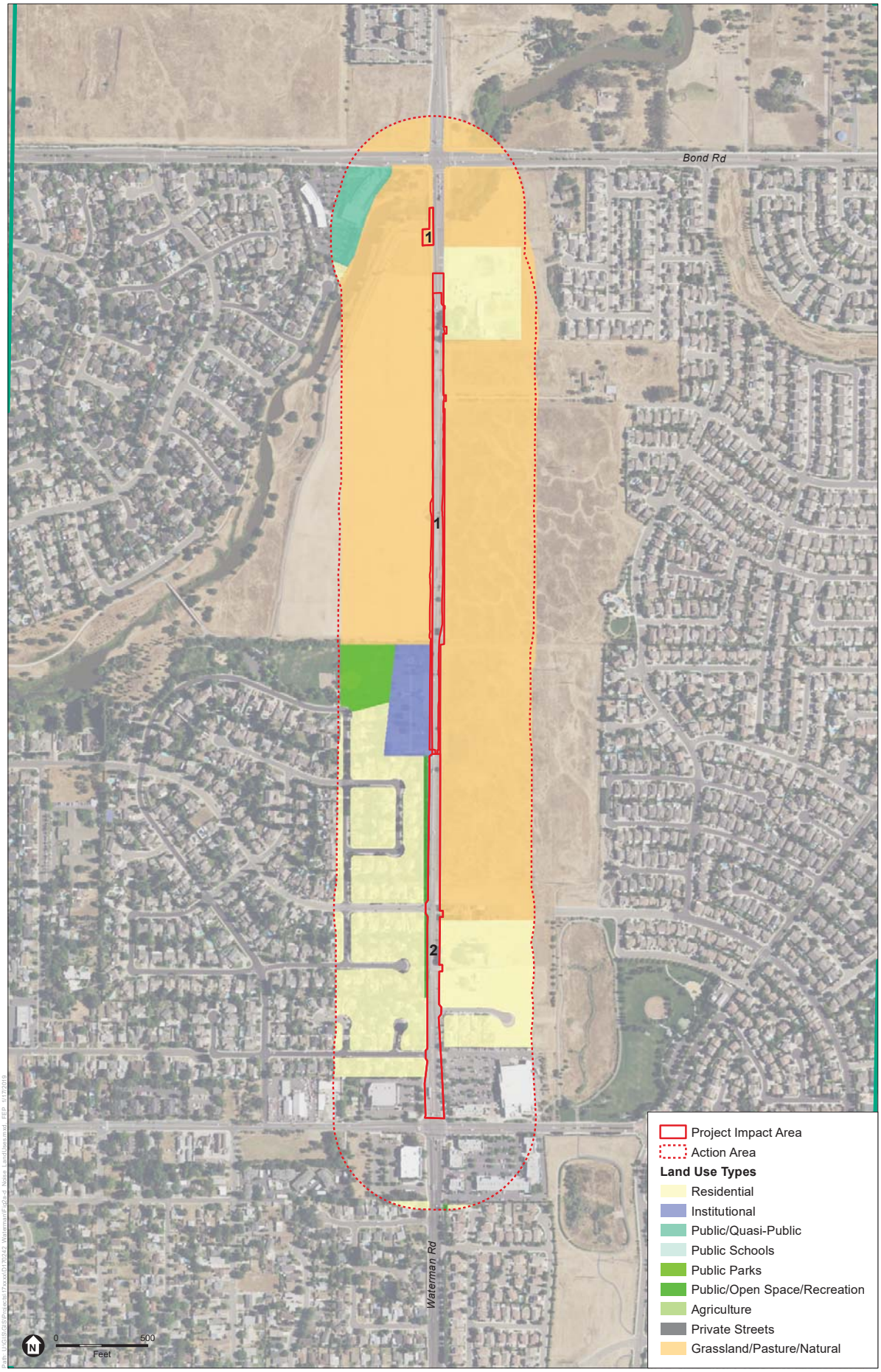


SOURCE: USDA, 2016; ESRI, 2012; City of Elk Grove, 2018; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2-1a
Sensitive Land Uses within 500 feet of the Project Area

ESA

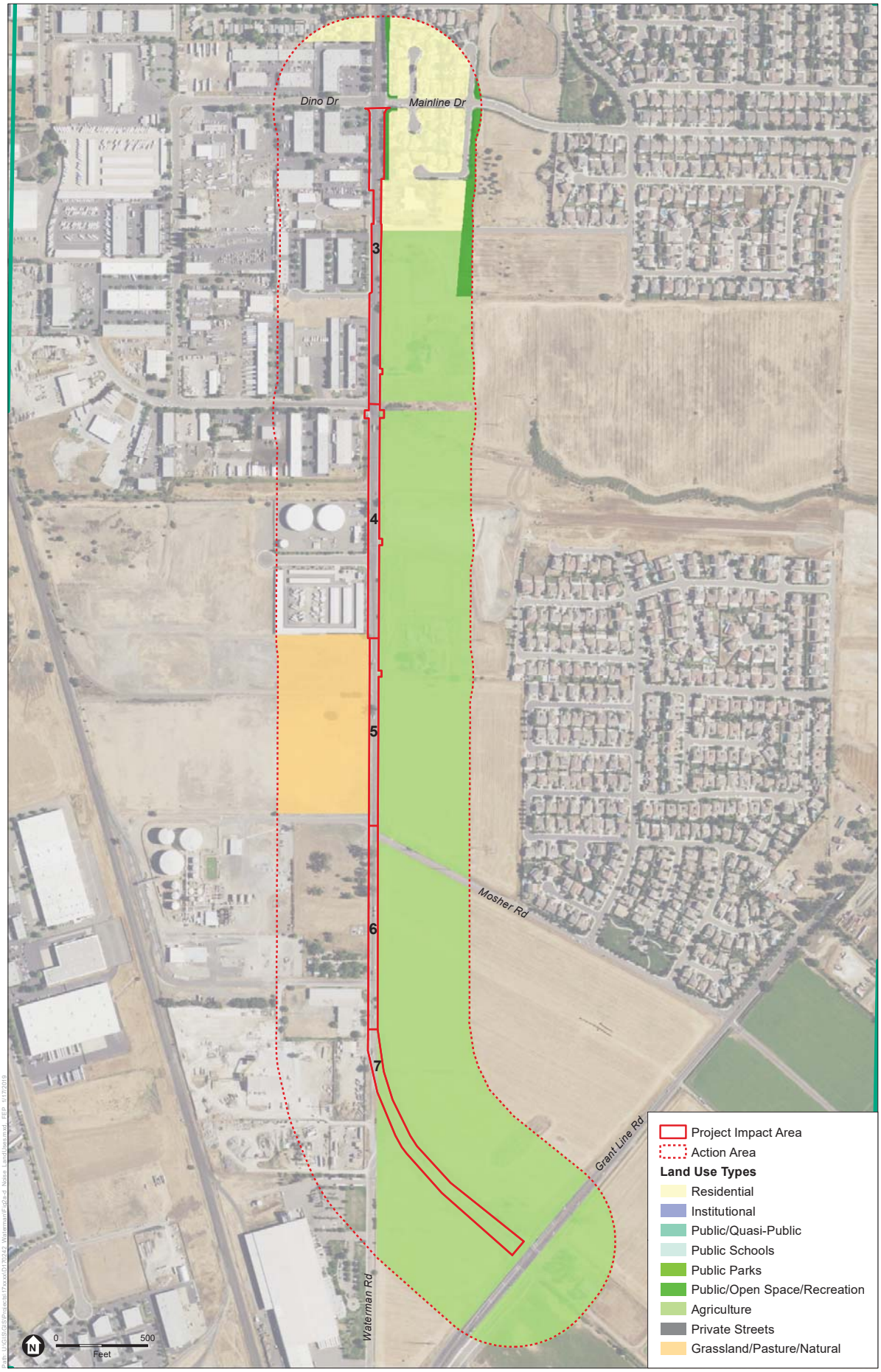


SOURCE: USDA, 2016; ESRI, 2012; City of Elk Grove, 2018; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2-1b
Sensitive Land Uses within 500 feet of the Project Area

ESA



SOURCE: USDA, 2016; ESRI, 2012; City of Elk Grove, 2018; ESA, 2019

Elk Grove Arterial Roads Rehabilitation Project

Figure 2-1c
Sensitive Land Uses within 500 feet of the Project Area

ESA

The latest Caltrans Traffic Noise Protocol (Caltrans, 2011) defines the procedures for analysis of noise-related impacts resulting from traffic. Under Title 23, Part 772 of the Code of Federal Regulations (23 CFR 772), a project is described a "Type 1" project if it involves one of the following:

- The construction of a highway on a new location; or
- The physical alteration of an existing highway where there is either:
  - Substantial horizontal alteration. A project that halves the distance between the traffic noise source and the closest receptor between the existing condition to the future build condition or
  - Substantial vertical alteration. A project that removes shielding, thereby exposing the line of sight between the receptor and the traffic noise source. This is done by altering either the vertical alignment of the highway or the topography between the highway traffic noise source and the receptor; or
- The addition of a through-traffic lane(s). This includes the addition of a through-traffic lane that functions as a high-occupancy vehicle (HOV) lane, high-occupancy toll (HOT) lane, bus lane, or truck climbing lane; or
- The addition of an auxiliary lane, except for when the auxiliary lane is a turn lane; or
- The addition or relocation of interchange lanes or ramps added to a quadrant to complete an existing partial interchange; or
- Restriping existing pavement for the purpose of adding a through traffic lane or an auxiliary lane; or
- The addition of a new or substantial alteration of a weigh station, rest stop, ride-share lot, or toll plaza.

The definition above is extended to roadway projects carried out by local jurisdictions that use federal transportation funding, such as the proposed project. The proposed project would not result in lane additions and no substantial alterations in the vertical or horizontal alignment of the roadway. The proposed project would not alter the existing horizontal alignment of the roadway that would half the distance between the existing roadway and the nearest receptor. Consequently, according to the latest Caltrans Traffic Noise Analysis Protocol, this is not a Type I Project. This definition is extended to federal aid roadways. There is no need for additional operational traffic noise analysis per 23 CFR 772. Consequently, this memorandum focuses on construction-related noise impacts.

Existing Uses

The area surrounding the site supports a variety of land uses including single family and multi-family residences, commercial and industrial properties. Residential land uses are located within approximately 50 feet of Segments 2 and 8. Land uses adjacent to Segments 3, 4, 5, 6 and 7 consist of non-residential uses such as vacant land, industrial and commercial uses. The location of sensitive receptors within 500 feet of Segments 1 through 8 are shown in Figure 2.

Regulatory Setting

Federal

23 CFR 772 requires that construction noise impacts be identified, but does not specify specific methods or abatement criteria for evaluating construction noise. The discussion of construction noise impacts includes:

- A description of the type of equipment anticipated to be used and when and where it would be used.
- Predicted construction noise levels in the project area.
- Conclusions regarding the severity of construction noise impacts.
- Identification of construction noise abatement, if any.

While no adverse construction noise impacts are anticipated, project plans and specifications would identify noise abatement measures that would minimize or eliminate adverse construction noise impacts to the community should they be identified. In determining the feasibility of construction noise abatement, Caltrans would consider the benefits achieved and the overall adverse social, economic, and environmental effects and the costs of the construction noise abatement measures.

State

Construction noise is regulated by the 2015 Caltrans Standard Specifications Section 14-8.02, "Noise Control," which states the following:

- Control and monitor noise resulting from work activities. Do not exceed 86 dBA at 50 feet from the job site from 9:00 p.m. to 6:00 a.m.

Since the adoption of the 2015 Caltrans Standards Specifications by Caltrans in December 16, 2015, it has been a mandatory requirement for all projects on the State Highway System. These specifications are not mandatory for local agency projects. However, the 2015 Caltrans Standard Specifications listed above have been adopted by a number of local agencies for their road projects in the past.

Local

The City has established noise goals and policies in the Services, Health and Safety (and Noise) Chapter of the City's General Plan (City of Elk Grove, 2018). The General Plan contains noise level performance standard of 50 dBA L_{eq} during the daytime hours (7:00 a.m. to 10:00 p.m.) and 40 dBA L_{eq} during the nighttime hours (10:00 p.m. to 7:00 a.m.) for stationary noise sources that are tonal or impulsive (e.g., use of construction equipment). According to Policy N-1-7 of the General Plan, the City's noise level performance standards do no not apply to transportation and City infrastructure construction activities as long as construction occurs between the hours of 7:00 a.m. and 7:00 p.m., Monday through Friday, and 8:00 a.m. and 5:00 p.m. on weekends and federally recognized holidays. Work may occur beyond these time frames for construction safety or because of existing congestion that makes completing the work during these time frames infeasible.

The following standard regarding construction noise is from the City of Elk Grove Municipal Code Chapter 6.32.100 (Exemptions):

Construction Noise. *Noise sources associated with construction, repair, remodeling, demolition, paving or grading of any real property, provided said activities only occur between the hours of 7:00 a.m. and 7:00 p.m. when located adjacent to residential uses. Noise associated with these activities not located adjacent residential uses may occur between the hours of 6:00 a.m. and 8:00 p.m. However, when an unforeseen or unavoidable condition occurs during a construction project and the nature of the project necessitates that work in process be continued until a specific phase is completed, the contractor or owner shall be allowed to continue work after 8:00 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.*

Sensitive Receptors

Land uses surrounding the project site consist of residential, industrial and commercial land uses. Noise-sensitive land uses are typically defined as residences, schools, institutions, places of worship, hospitals, care centers, and hotels. There are noise-sensitive receptors located within 50 feet of project-related construction areas.

Construction Noise

Construction is expected to begin in April 2020 and be completed in 100 to 120 working days. Approximately 20 to 30 personnel are expected to be at the construction site on any given day. Noise at the construction sites would be intermittent and its intensity would vary. The degree of construction noise impacts may vary for different areas of the project site and also vary depending on the construction activities. **Table 1** shows typical noise levels produced by the types of construction equipment that would likely be used during construction of the proposed project.

TABLE 1
CONSTRUCTION NOISE LEVELS FROM A DISTANCE OF 50 FEET

Type of Equipment	L_{max}, dBA	Hourly L_{eq}, dBA/% Use[1]
Backhoe	80	76/40%
Concrete Mixer Truck	85	81/40%
Loader	80	76/40%
Pneumatic Tools	85	82/50%
Air Compressor	80	76/40%
Excavator	85	81/40%

NOTES: 1. Percent used during the given time period (usually an hour – hourly L_{eq}) were obtained from the FHWA Roadway Construction Noise Model User's Guide, (FHWA, 2006).

SOURCE: Federal Highway Administration, 2006. *FHWA Roadway Construction Noise Model*. January 2006.

The single-family residences located adjacent to Elk Grove Florin Road and Waterman Road along segments 2 and 8 would be located within 50 feet from where onsite construction would occur. Assuming two of the loudest construction equipment operating at the same time and place (e.g., pneumatic tools, concrete mixer truck), the nearest existing single-family residence would be exposed to a noise level of approximately 88 dBA L_{max} during project construction. However, no adverse noise impacts from construction of the proposed project are anticipated because construction would be conducted in accordance with applicable City General Plan and Municipal Code noise standards, as well as Caltrans Standard Specifications Section 14-8.02. Construction noise would be short-

term and intermittent, and would occur during daylight hours only. In addition, the following control measures, as based on Caltrans Standard Specifications Section 14-8.02, would be required to be implemented to minimize noise and vibration disturbances at sensitive receptors during periods of construction.

1. Control and monitor noise resulting from work activities. Do not exceed 86 dBA at 50 feet from the job site from 9:00 p.m. to 6:00 a.m.
2. Implement a construction noise and vibration-monitoring program to limit the impacts.
3. Plan noisier operations during times of least sensitivity to receptors.
4. Keep noise levels relatively uniform and avoid impulsive noises.
5. Maintain good public relations with the community to minimize objections to the unavoidable construction impacts. Provide frequent activity update of all construction activities.

Compliance with the above standard requirements would provide sufficient noise abatement to avoid an adverse effect. A combination of abatement techniques with equipment noise control can be selected to provide the most effective means to minimize effects of construction activity impacts. Application of abatement measures would reduce the construction impacts; however, a temporary increase in noise and vibration would likely occur.

References Cited

California Department of Transportation (Caltrans). *2015 Standard Specifications.* December 2015.

California Department of Transportation (Caltrans). *Traffic Noise Analysis Protocol.* May 2011.

Federal Highway Administration (FHWA). *Roadway Construction Noise Model User's Guide*. January 2006.

City of Elk Grove. *City of Elk Grove Draft General Plan*. July 2018.

Appendix I
Response to Public Comments

ESA

Appendix I – Response to Public Comments

Introduction

This appendix contains comments received on the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014) (SCH# 2020070484) during the agency/public review period for the Initial Study/Mitigated Negative Declaration (IS/MND) from July 24, 2020 to August 24, 2020.

Comments Received on the Draft Mitigated Negative Declaration

The public comment period for the Project was initiated on July 24, 2020 and was open for 32 days. Two comment letters or emails were received. A list of the comment letters received is provided below, with the individual comment letters and the City's response to them provided on the following pages.

Comment No.	Commenter	Affiliation
1	Dylan Wood, Environmental Scientist	California Department of Fish and Wildlife (CDFW)
2	Amy Spitzer, Environmental Services Specialist	Sacramento Municipal Utilities District (SMUD)

Letter 1

Luke Evans

From: Luke Evans
Sent: Friday, August 21, 2020 3:16 PM
To: Luke Evans
Subject: CDFW Comments on the MND for the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (SCH: 2020070484)

From: Wood, Dylan@Wildlife [mailto:Dylan.A.Wood@wildlife.ca.gov]
Sent: Tuesday, August 18, 2020 5:26 PM
To: Kristin Parsons <kparsons@elkgrovecity.org>
Cc: Wildlife R2 CEQA <R2CEQA@wildlife.ca.gov>; state.clearinghouse@opr.ca.gov
Subject: Comments on the MND for the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (SCH: 2020070484)

[EXTERNAL EMAIL]

Dear Ms. Parsons:

RE: Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014) (PROJECT) MITIGATED NEGATIVE DECLARATION (MND) SCH# 2020070484

The California Department of Fish and Wildlife (CDFW) received a Notice of Intent to Adopt an MND from the City of Elk Grove (the City) for the Project pursuant the California Environmental Quality Act (CEQA) and CEQA Guidelines.[1]

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

CDFW ROLE

CDFW is California's **Trustee Agency** for fish and wildlife resources and holds those resources in trust by statute for all the people of the State. (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a).) CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species. (*Id.*, § 1802.) Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

PROJECT DESCRIPTION SUMMARY

The proposed Project will rehabilitate and improve pavement and/or surface treatments (as deemed necessary) on several segments of Waterman Road and Elk Grove Florin Road, as described in the Initial Study, and as needed will widen roadway shoulders to accommodate Class 2 bike lanes with

the goal of providing continuous bike routes in the eastern portion of the City. The purpose of the Project is to reconstruct and rehabilitate Waterman Road and Elk Grove Florin Road to provide bike lanes in each direction on each roadway.

COMMENTS AND RECOMMENDATIONS

CDFW offers the comments and recommendations below to assist the City in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources. Editorial comments or other suggestions may also be included to improve the document or facilitate an effective environmental review process. Where CDFW recommends specific revisions to the MND, deletions are marked with a strikethrough (~~example~~) while additions are marked as underlined (example).

Comment 1: MM BIO-4 revisions needed to mitigate impacts to nesting raptors to a level of less-than-significant.

MM BIO-4 describes preconstruction surveys and response for nesting birds that may be impacted by the Project. While CDFW recognizes that existing disturbance/noise levels in the Project vicinity and the urban setting of the Project, the MND also notes that "excavators, compactors, grinding machines, backhoes, bobcats, pavement scarifiers, rollers, scrapers, or other potential large equipment to be used on the Project." As these kinds of equipment may result in additional disturbance that could result in impacts to nesting birds. This would be especially relevant for Project areas without an urbanized "buffer" between the Project and suitable nesting habitat. For instance, Segment 1 of the Project involves widening activities approximately 0.10-0.25 miles from Laguna Creek, which contains suitable habitat for nesting birds. As a result, surveying at a 250-foot radius as described in MM BIO-4 may not effectively capture nesting activity.

To address this comment, CDFW recommends the following changes to MM BIO-4: **1-1**

If construction (including equipment staging and tree removal) will occur during the breeding season for migratory birds and raptors (generally between February 1 and August 31), the City shall retain a qualified biologist to conduct a preconstruction nesting bird and raptor survey before the onset of construction activities. The preconstruction nesting bird and raptor surveys shall be conducted between February 1 and August 31 within suitable habitat at the Project area. The minimum survey radii surrounding the work area shall be the following: i) 250 feet for passerines; ii) 500 feet for small raptors such as accipiters; iii) 1,000 feet for larger raptors such as buteos; iv) 0.25 miles for raptors in proximity to Segment 1 Project areas near Laguna Creek. ~~Surveys for raptor nests should also extend 250 feet from the Project area~~ to ensure that nesting raptors are not indirectly affected by construction noise. The survey shall be conducted no more than 30 days before the initiation of construction activities. If no active nests are detected during the survey, no additional mitigation is required and construction can proceed."

ENVIRONMENTAL DATA

CEQA requires that information developed in environmental documents be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).) Accordingly, please report any special-status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). The types of information reported to CNDDB can be found at the following link: https://wildlife.ca.gov/Data/CNDDB/Plants-and-Animals. The completed form can be sent electronically to CNDDB at the following email address: CNDDB@wildlife.ca.gov. **1-2**

FILING FEES

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.) 1-3

CONCLUSION

CDFW appreciates the opportunity to comment on the MND to assist the City in identifying and mitigating Project impacts on biological resources.

Questions regarding this email or further coordination should be directed to Dylan Wood, Environmental Scientist at 916-358-2384 or dylan.a.wood@wildlife.ca.gov.

Sincerely,

Dylan Wood
California Department of Fish and Wildlife
Environmental Scientist
(916) 358-2384

CALIFORNIA DEPARTMENT OF FISH and WILDLIFE

References:

[1] CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

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[1] CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

Letter 1 Response: Dylan Wood, California Department of Fish and Wildlife, August 18, 2020

1-1 The City appreciates the Department's interest in the Project. As requested by the Department, the City has updated Mitigation Measure BIO-4. Pre-construction surveys will extend to the radii indicated in the Department's recommendations, to the extent practicable where right-of-way and access rights are available. To that end, the revised measure shall read:

> If construction (including equipment staging and tree removal) will occur during the breeding season for migratory birds and raptors (generally between February 1 and August 31), the City shall retain a qualified biologist to conduct a preconstruction nesting bird and raptor survey before the onset of construction activities. The preconstruction nesting bird and raptor surveys shall be conducted between February 1 and August 31 within suitable habitat at the Project area. The minimum survey radii surrounding the work area shall be as follows, to the extent practicable where City right-of-way and access rights are available: 1) 250 feet for passerines; 2) 500 feet for small raptors such as accipiters; 3) 1,000 feet for larger raptors such as buteos; and 4) 0.25 mile for raptors in proximity to Segment 1 Project areas near Laguna Creek~~. Surveys for raptor nests should also extend 250 feet from the Project area~~ to ensure that nesting raptors are not indirectly affected by construction noise. The survey shall be conducted no more than 30 days before the initiation of construction activities. If no active nests are detected during the survey, no additional mitigation is required and construction can proceed.

1-2 No special-status species or special-status natural communities were detected during the surveys, so no such data was submitted to the California Natural Diversity Database (CNDDB).

1-3 The City will submit applicable fees when the Notice of Determination is filed with the County Clerk and the State Clearinghouse.

SMUD®

Letter 2

Sent Via E-Mail

August 11, 2020

Kristin Parsons
Project Manager
City of Elk Grove
8401 Laguna Palms Way
Elk Grove, CA 95758
kparsons@elkgrovecity.org

Subject: **Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014) / MND / 2020070484**

Dear Ms. Parsons:

The Sacramento Municipal Utility District (SMUD) appreciates the opportunity to provide comments on the Mitigated Negative Declaration (MND) for the Arterial Roads Rehabilitation and Bicycle Lane Improvements Project (WPR014) (Project, SCH 2020070484). SMUD is the primary energy provider for Sacramento County and the proposed Project area. SMUD's vision is to empower our customers with solutions and options that increase energy efficiency, protect the environment, reduce global warming, and lower the cost to serve our region. As a Responsible Agency, SMUD aims to ensure that the proposed Project limits the potential for significant environmental effects on SMUD facilities, employees, and customers.

It is our desire that the Project will acknowledge any impacts related to the following:

- Overhead and or underground transmission and distribution line easements. Please view the following links on smud.org for more information regarding transmission encroachment:
  - https://www.smud.org/en/Business-Solutions-and-Rebates/Design-and-Construction-Services
  - https://www.smud.org/en/Corporate/Do-Business-with-SMUD/Land-Use/Transmission-Right-of-Way
- Utility line routing
- Electrical load needs/requirements
- Energy Efficiency
- Climate Change
- Cumulative impacts related to the need for increased electrical delivery
- The potential need to relocate and or remove any SMUD infrastructure that may be affected in or around the project area

2-1

More specifically, SMUD would like to have potential impacts to the following electrical infrastructure, if any, incorporated into the project description:

- Segment 1, 2:
  - Existing 12/69kV overhead facilities along Waterman Road from Bond to Elk Grove Blvd.
  - Existing 12kV underground facilities at various locations along Waterman Road.
- Segment 3,4,5,6,7
  - Existing 12/69kV overhead facilities along Waterman Road from Mainline Dr. to Grant Line Rd.
  - Existing 12kV underground facilities at various locations along Waterman Road.
  - Future planned upgrade to distribution substation along Waterman Road.
  - Future underground 12kV facilities along Waterman Road.
- Segment 7
  - Future underground 12kV facilities along Waterman Road, re-aligned segment of Waterman Road.
- Segment 8
  - Existing 12kV underground facilities at various locations along Elk Grove-Florin Road.

2-2

SMUD would like to be involved with discussing the above areas of interest as well as discussing any other potential issues. We aim to be partners in the efficient and sustainable delivery of the proposed Project. Please ensure that the information included in this response is conveyed to the Project planners and the appropriate Project proponents.

Environmental leadership is a core value of SMUD, and we look forward to collaborating with you on this Project. Again, we appreciate the opportunity to provide input on this MND. If you have any questions regarding this letter, please do not hesitate to contact me at 916.732.5384, or by email at Amy.Spitzer@smud.org.

Sincerely,

Amy Spitzer
Environmental Services Specialist
Sacramento Municipal Utility District
6201 S Street
Sacramento, CA 95817

cc: Entitlements

Letter 2 Response: Amy Spitzer, Sacramento Municipal Utility District, August 11, 2020

2-1 The City thanks the District for its comment. Coordination with SMUD for any necessary easements associated with any existing or planned SMUD facilities will continue throughout final design. The proposed impacts to utilities are discussed within Section 3.19 of the IS/MND. Impacts relating to Energy and Climate Change are discussed within Sections 3.6 and 3.8 respectively. The City adopted the City of Elk Grove Climate Action Plan (CAP) on March 27, 2013 and updated in February 2019 to comply with Assembly Bill 32 (AB 32). The CAP identified how the City and the broader community could reduce regional GHG emissions and included reduction targets, strategies, and specific actions. The City considers a specific project proposal consistent with the CAP if it complies with the GHG reduction measures contained in the adopted CAP. The Project was determined to be consistent with the CAP as specified in Section 3.8.

2-2 The City recognizes that coordination with SMUD will be required during project design and implementation, particularly with respect to SMUD's existing or planned facilities. The City and its engineering consultants will initiate consultation as the Project moves into final design.

EXHIBIT B

ARTERIAL ROADS REHABILITATION AND BICYCLE LANE IMPROVEMENTS PROJECT (WPR014)
MITIGATION MONITORING AND REPORTING PROGRAM

	Description	Document/ Reference	Page	Responsible Party	Action(s) Taken to Comply: Timing/Phase	Action(s) Taken to Comply: Remarks	Certification of Completion: Initial	Certification of Completion: Date
	MM AQ-1: The following Basic Construction Emissions Control Practices are considered feasible for controlling fugitive dust from a construction site. Control of fugitive dust is required by SMAQMD Rule 403 and enforced by SMAQMD staff. • Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads. • Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose materials 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 (mph). • All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used. The following practices describe exhaust emission control from diesel powered fleets working at a construction site. California regulations limit idling from both on-road and off-road diesel powered equipment. The California Air Resources Board enforces the idling limitations. • 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. • Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated.	Initial Study	4.1	Public Works Department	During construction			
	MM BIO-1: Restrict Ground-disturbing Activities to the Dry Season (Between April 15 and October 15). All ground-disturbing activities associated with construction of the Project shall be restricted to the dry season (between approximately April 15 and October 15) to avoid the period when special-status species (vernal pool fairy shrimp, vernal pool tadpole shrimp, and western spadefoot) could be breeding. If construction would need to continue past October 15, the City or its designated representative shall request an authorization from USFWS to extend the work period.	Initial Study	4.2	Public Works Department	During construction			
	MM BIO-2: Conduct a Preconstruction Survey for Western Spadefoot. No more than 48 hours prior to construction, preconstruction surveys for western spadefoot shall be conducted within the PIA. If western spadefoot are observed within the PIA, work shall stop until the animal voluntarily leaves the area.	Initial Study	4.2	Public Works Department	No more than 48 hours prior to construction			

ARTERIAL ROADS REHABILITATION AND BICYCLE LANE IMPROVEMENTS PROJECT (WPR014)
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	MM BIO-3: Measures to Protect Burrowing Owl. Prior to construction, pre-construction surveys shall be conducted by a qualified biologist to determine presence/absence of burrowing owls and/or occupied burrows in and within 500 feet of the PIA according to the CDFW's Staff Report on Burrowing Owls (CDFW 2012). A winter survey shall be conducted between December 1 and January 31 and a nesting survey shall be conducted between April 15 and July 15. Preconstruction surveys shall also be conducted within 30 days prior to construction to ensure that no additional burrowing owls have established territories since the initial surveys. If no burrowing owls are found during any of the surveys, no further mitigation will be necessary. If burrowing owls are found, then the following measures shall be implemented prior to the commencement of construction: • During the non-breeding season (September 1 through January 31) burrowing owls occupying the BSA should be evicted from the BSA by passive relocation as described in the California Department of Fish and Wildlife's Staff Report on Burrowing Owls (March 2012). • During the breeding season (February 1 through August 31) occupied burrows shall not be disturbed and shall be provided with a 250-foot protective buffer unless a qualified biologist approved by CDFW verifies through non-invasive means that either: 1) the birds have not begun egg laying, or 2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. Once the fledglings are capable of independent survival, the burrow can be destroyed. • If a burrowing owl or active nest is discovered before or during construction the biologist shall notify a CDFW representative. • A worker education and awareness program should be provided to all on-site personnel by a qualified biologist before the commencement of materials staging or ground disturbing activities. The biologist should explain to construction workers how best to avoid impacts to burrowing owl and should include topics on species identification, life history, descriptions, and habitat requirements during various life stages. Handouts, illustrations, photographs, and Project mapping showing areas where minimization and avoidance measures can be included as part of this education program. The program shall increase the awareness of site workers about existing federal and state laws regarding endangered species as well as increase their compliance with conditions and requirements of resource agencies.	Initial Study	4.2	Public Works Department	No more than 48 hours prior to construction			

ARTERIAL ROADS REHABILITATION AND BICYCLE LANE IMPROVEMENTS PROJECT (WPR014)
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	MM BIO-4: Conduct a Preconstruction Nesting Migratory Bird and Raptor Survey and Establish No-disturbance Buffers, if Necessary. If construction (including equipment staging and tree removal) will occur during the breeding season for migratory birds and raptors (generally between February 1 and August 31), the City shall retain a qualified biologist to conduct a preconstruction nesting bird and raptor survey before the onset of construction activities. The preconstruction nesting bird and raptor surveys shall be conducted between February 1 and August 31 within suitable habitat at the Project area. The minimum survey radii surrounding the work area shall be as follows, to the extent practicable where City right-of-way and access rights are available: 1) 250 feet for passerines; 2) 500 feet for small raptors such as accipiters; 3) 1,000 feet for larger raptors such as buteos; and 4) 0.25 mile for raptors in proximity to Segment 1 Project areas near Laguna Creek to ensure that nesting raptors are not indirectly affected by construction noise. The survey shall be conducted no more than 30 days before the initiation of construction activities. If no active nests are detected during the survey, no additional mitigation is required and construction can proceed. If migratory birds or raptors are found to be nesting in or adjacent to the Project area, a 250-foot no-disturbance buffer shall be established around raptor nests and a 50-foot buffer around non-raptor nests to avoid disturbance of the nest area and to avoid take. The buffer shall be maintained around the nest area until the end of the breeding season or until a qualified biologist determines that, the young have fledged and are foraging on their own. The extent of these buffers shall be determined by the biologist (coordinating with the CDFW) and shall depend on the species identified, level of noise or construction disturbance, line of sight between the nest and the disturbance, ambient levels of noise and other disturbances, and other topographical or artificial barriers.	Initial Study	4.3	Public Works Department	No more than 30 days prior to construction			

ARTERIAL ROADS REHABILITATION AND BICYCLE LANE IMPROVEMENTS PROJECT (WPR014)
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MITIGATION MEASURES	**MM BIO-5:** Preserve CDFW-approved Foraging Habitat for Swainson's Hawk at a 1:1 Ratio for Permanent Impacts or Submit Payment of a Swainson's Hawk Impact Mitigation Fee to the City of Elk Grove. To compensate for permanent loss of Swainson's hawk foraging habitat, the Project shall follow the City's Swainson's Hawk Mitigation Fee program. Per the program, approved property must be acquired, or a mitigation fee paid to the City prior to the start of construction, as described in Chapter 16.130 of the Elk Grove Municipal Code or City's existing bank.	Initial Study	4.3	Public Works Department	Prior to construction			
	MM BIO-6: Implement Erosion Control. An erosion control barrier shall be placed on the outer edge of the new roadside ditch alignment along Waterman Road from approximately 700 feet south of Bond Road to Rancho Drive. The barrier shall not be keyed into the ground (no trench shall be excavated for the barrier), and construction of the ditches shall be performed from the road to avoid ground disturbance beyond the new roadside ditch.	Initial Study	4.4	Public Works Department	Prior to and during construction			
	MM BIO-7: Conduct Environmental Awareness Training. Before any work occurs in the PIA, including grading and equipment staging, all construction personnel shall participate in an environmental awareness training regarding special-status species and sensitive habitats present in the BSA. If new construction personnel are added to the Project, they must receive the mandatory training before starting work. As part of the training, an environmental awareness handout shall be provided to all personnel that describe and illustrates sensitive resources to be avoided during Project construction. This would include avoiding waters of the U.S. outside the PIA.	Initial Study	4.4	Public Works Department	Prior to and during construction			
	MM BIO-8: Install Temporary Barrier Fencing, and/or Flagging to Protect Environmentally Sensitive Habitat Areas. Before any ground-disturbing activity occurs within the PIA, the City shall ensure that temporary orange barrier fencing is installed around the PIA adjacent to sensitive habitat areas to be avoided, as appropriate. Construction personnel and construction activities shall avoid areas outside the fencing. The exact location of the fencing shall be determined by the resident engineer coordinating with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality. The fencing material shall consist of temporary plastic mesh-type construction fence (Tensor Polygrid or equivalent) installed between the work area and environmentally sensitive habitat areas (i.e., waters of the U.S., special-status wildlife habitat, active bird nests), as appropriate, and shall meet Caltrans standards and specifications. To minimize potential ground disturbance, the base of the fencing shall not be buried or keyed-in. Installation of the barrier fence shall occur under the supervision of a qualified biologist. The temporary orange barrier fencing shall also be installed in a manner that is consistent with applicable water quality requirements contained within the Project's SWPPP or Water Pollution Control Plan (WPCP). The fencing shall be shown on the final construction documents. The fencing shall be checked regularly and maintained until all construction is complete. No construction activity shall be allowed until this condition is satisfied. In addition, a construction buffer shall be established, where no construction activities (i.e., vehicle traffic or equipment operation) shall occur outside the outer boundaries of the roadside ditches that will be excavated as part of the Project.	Initial Study	4.4	Public Works Department	Prior to and during construction			
	MM BIO-9: Conduct Weekly Monitoring Visits. A representative from the City shall make periodic monitoring visits to construction areas occurring in or adjacent to environmentally sensitive habitat areas. The construction contract shall specify that the construction contractor shall maintain the fencing/flagging protecting sensitive biological resources. Additionally, the City shall utilize a qualified biologist on-call to assist the City and the construction crew in complying with all Project implementation restrictions and guidelines as needed.	Initial Study	4.5	Public Works Department	Weekly during construction			

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	MM BIO-10: Implement Best Management Practices to Protect Water Quality. The City shall require that the construction contractor implement the following BMPs to protect water quality of waters of the U.S. adjacent to the PIA. • Conduct ground disturbing activities adjacent to jurisdictional waters during the dry period (generally between April 15 and October 15) when all jurisdictional features (with the exception of Laguna Creek) adjacent to the PIA are anticipated to be dry. • Install fiber rolls, or other equivalent erosion and sediment control measures between the PIA and waters of the U.S., as necessary, to ensure that construction debris and sediment does not inadvertently enter these features. All areas of exposed soil shall be covered or otherwise stabilized 48 hours prior to potential precipitation events of greater than 0.5 inch. In addition, in order to minimize ground disturbance, fiber rolls or other equivalent control measures shall not be keyed-in or buried. • Immediately after Project construction is complete, all exposed soil shall be stabilized. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix and planting native plants. • Fiber rolls, or other equivalent erosion and sediment control measures shall not be removed from the PIA until vegetation has reestablished within all temporarily-impacted areas to at least 70 percent of pre-project vegetation cover conditions or better. • No refueling, storage, servicing, or maintenance of equipment shall take place within 100 feet of waters of the U.S. • All machinery used during construction of the Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water. • Any spills or leaks from construction equipment (i.e., fuel, oil, hydraulic fluid, and grease) shall be cleaned up in accordance with applicable local, state, and/or federal regulations. • Implement construction vehicle track-out controls. Restrict vehicle use to properly designated exit points and wherever construction vehicle entry/exit points intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road prior to the use of these access points. • Before any ground-disturbing activities, the City or its designee shall prepare and implement a SWPPP (as required under the SWRCB's General Construction Permit Order 2009-0009-DWQ [and as amended by most current order(s)]) or a WPCP, as applicable, that includes erosion control measures and construction waste containment measures to ensure that waters of the state are protected during and after Project construction. A SWPPP is required when ground disturbance is one acre or more. Due to size of the ground disturbance (>1 acre), a SWPPP shall be prepared and implemented. The SWPPP shall include site design to minimize offsite storm water runoff that might otherwise affect adjacent stream habitat. • The SWPPP shall be prepared with the following objectives: (a) to identify pollutant sources, including sources of sediment, that may affect the quality of storm water discharges from the construction of the Project; (b) to identify BMPs to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the site during construction; (c) to outline and provide guidance for BMP monitoring; (d) to identify Project discharge points and receiving waters; (e) to address post-construction BMP implementation and monitoring; and (f) to address sedimentation, siltation, and turbidity.	Initial Study	4.5	Public Works Department	Prior to and during construction			

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	MM BIO-11: No Off-road Vehicle or Equipment Activity Outside of Construction Footprint. To reduce the likelihood of soil and vegetation disturbance outside of the PIA, which could impact water quality and hydrology for adjacent waters of the U.S. and special-status species habitats, no vehicle traffic or heavy equipment activity shall occur outside of the PIA/construction buffer, defined as the maximum area of permanent ground disturbance (i.e., area of roadway construction and the new ditches areas of excavation).	Initial Study	4.6	Public Works Department	During construction			
	MM BIO-12: Conduct Pre-Construction Tree Survey. Prior to construction, an International Society of Arboriculture Certified Arborist shall conduct a tree survey to document all trees within the PIA. The survey shall also determine which trees in the PIA will need to be removed, which trees can be protected in place, and which trees could be trimmed rather than removed.	Initial Study	4.7	Public Works Department	Prior to construction			
	MM BIO-13: Mitigate for Impacts to Protected Trees. Mitigation for the removal of protected trees is required. The City would be responsible for implementing the mitigation and would abide by the measures outlined in Article IV (Mitigation for Tree Loss) of Chapter 19.12 (Tree Preservation and Protection) of the City of Elk Grove Municipal Code. Mitigation would include one of the following options: 1) On-site or off-site replacement; 2) Payment of an in-lieu fee; or 3) credit for existing trees.	Initial Study	4.7	Public Works Department	Prior to construction			
	MM CUL-1: Unanticipated Discovery Protocol for Archaeological Resources and Human Remains. If prehistoric or historic-period archaeological resources are encountered during Project implementation, all construction activities within 100 feet shall halt, and a qualified archaeologist, defined as an archaeologist meeting the U.S. Secretary of the Interior's Professional Qualification Standards for Archeology, shall inspect the find within 24 hours of discovery and notify the City of their initial assessment. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted stones. Historic-period materials might include building or structure footings and walls, and deposits of metal, glass, and/or ceramic refuse. If the City determines, based on recommendations from a qualified archaeologist and a Native American representative (if the resource is Native American-related), that the resource may qualify as a historical resource or unique archaeological resource (as defined in CEQA Guidelines § 15064.5) or a tribal cultural resource (as defined in PRC § 21080.3), the resource shall be avoided if feasible. If avoidance is not feasible, the City shall consult with appropriate Native American tribes (if the resource is Native American-related), and other appropriate interested parties to determine treatment measures to avoid, minimize, or mitigate any potential impacts to the resource pursuant to PRC § 21083.2, and CEQA Guidelines § 15126.4. This shall include documentation of the resource and may include data recovery (according to PRC § 21083.2), if deemed appropriate, or other actions such as treating the resource with culturally appropriate dignity and protecting the cultural character and integrity of the resource (according to PRC § 21084.3). In the event of discovery or recognition of any human remains during Project implementation, Project construction activities within 100 feet of the find shall cease until the Sacramento County Coroner has been contacted to determine that no investigation of the cause of death is required. The Coroner shall contact the NAHC within 24 hours if the Coroner determines the remains to be Native American in origin. The NAHC will then identify the person or persons it believes to be the most likely descendant (MLD) from the deceased Native American (PRC § 5097.98), who in turn would make recommendations to the City for the appropriate means of treating the human remains and any associated funerary objects (CEQA Guidelines § 15064.5[d]).	Initial Study	4.7	Public Works Department	During construction			

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	MM HAZ-1: The City or its designated construction contractor shall conduct an aerially deposited lead (ADL) study in accordance with Caltrans and DTSC regulations prior to construction. The results shall inform the Project as to the appropriate management of soil in those areas that would be disturbed, in accordance with established regulatory standards. This measure shall apply to those portions of Segments 1 through 7 that do not have sidewalks, curbs, and gutters adjacent to the existing paved roadways, and shall apply only to those uncovered areas that would be disturbed as part of Project implementation.	Initial Study	4.8	Public Works Department	Prior to and during construction			
	MM HAZ-2: The selected construction contractor shall prepare for City approval a Construction Area Traffic Control Plan conforming to the requirements of Section 12 of the City's Standard Construction Specifications.	Initial Study	4.8	Public Works Department	Prior to and during construction			
	MM HWQ-1: Ongoing yearly maintenance activities / BMPs shall include: • Spot removal of sediment and other debris blocking the drainage ditches; • Cleaning debris from culvert entrances and inlets; • Monitoring sediment buildup and removal of sediment if sediment begins to impede culverts or other waterways; • Monitoring culvert outlets for excessive erosion and repairing as necessary with rock slope protection (riprap), erosion control blankets, or turf reinforcement mats. • Assess and revise, as necessary, these annual maintenance activities to ensure the effectiveness of drainage as designed.	Initial Study	4.8	Public Works Department	Annually for three years after construction			

CERTIFICATION
ELK GROVE CITY COUNCIL RESOLUTION NO. 2020-229

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 September 23, 2020 by the following vote:

AYES: COUNCILMEMBERS: Ly, Nguyen, Suen

NOES: COUNCILMEMBERS: None

ABSTAIN: COUNCILMEMBERS: Hume

ABSENT: COUNCILMEMBERS: Detrick

Jason Lindgren, City Clerk
City of Elk Grove, California