RESOLUTION NO. 2016-016

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ELK GROVE ADOPTING A MITIGATED NEGATIVE DECLARATION AND MITIGATION MONITORING REPORTING PROGRAM (MMRP) FOR THE LAGUNA CREEK TRAIL – CAMDEN SPUR SOUTH PROJECT (PT0121) AND APPROVING THE PROJECT

WHEREAS, the Laguna Creek Trail – Camden Spur South Project (PT0121) (Project) will construct an approximately 0.5-mile paved asphalt multi-use trail from the north end of Camden Park south to Bond Road with a combined bridge/weir crossing at Camden Lake including two areas for park benches, trash receptacles, dog waste bag containers and educational signs; and

WHEREAS, the City prepared an Initial Study/Mitigated Negative Declaration pursuant to CEQA, attached hereto as Exhibit A and incorporated herein by reference, evaluating the potential environmental effects of the Project; and

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

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

WHEREAS, a Mitigation Monitoring and Reporting Program (MMRP) has been prepared in accordance with CEQA, attached hereto as Exhibit B and incorporated herein by reference, 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 December 18, 2015, posting the notice at the Sacramento County Clerk's office, distributing 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); and

WHEREAS, a 30-day review and comment period was opened on December 18, 2015 and closed on January 18, 2016, and the Mitigated Negative Declaration was made available to the public during this review period; and

WHEREAS, the City received written comment letters within the 30-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 Initial Study and Mitigated Negative Declaration; 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 at 8401 Laguna Palms Way, Elk Grove, California 95758 is the custodian of documents and other materials that constitute the record of proceedings upon which the decision to adopt the Mitigated Negative Declaration is based; and

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

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Elk Grove hereby adopts the Mitigated Negative Declaration and the Mitigation Monitoring and Reporting Program for the Laguna Creek Trail – Camden Spur South Project (PT0121), attached hereto as Exhibit A and incorporated herein by this reference 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 California Environmental Quality Act (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 of 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 Environmental Study for the Laguna Creek Trail – Camden Spur South Project (PT0121) and mitigation measures have been developed that will reduce potential environmental impacts to less than significant levels. The Initial Environmental Study identified potentially significant adverse effects in the areas of biological resources, cultural resources, hazardous materials, hydrology and water quality, and noise. Mitigation measures that avoid or mitigate the potentially significant effects to a point where no significant effects would occur were identified in the Initial Study and staff prepared a Mitigated Negative Declaration. Preparation of a Mitigation Monitoring and Reporting Program (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 December 18, 2015. 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 30-day review and comment period was opened on December 18, 2015 and closed on January 18, 2016. The Mitigated Negative Declaration was made available to the public during this review period. The City received written comment letters within the 30-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 Mitigation Monitoring and Reporting Program (MMRP), which is incorporated herein by this reference has been prepared to ensure compliance during project implementation. The City of Elk Grove, Development Services Planning 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 27th day of January 2016.

GARY DAVIS, MAYOR of the
CITY OF ELK GROVE

ATTEST:

JASON LINDGREN, CITY CLERK

APPROVED AS TO FORM:

JONATHAN P. HOBBS,
CITY ATTORNEY

CERTIFICATION
ELK GROVE CITY COUNCIL RESOLUTION NO. 2016-016

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 January 27, 2016 by the following vote:

AYES :	***COUNCILMEMBERS:***	***Davis, Ly, Detrick, Hume, Suen***
NOES:	***COUNCILMEMBERS:***	***None***
ABSTAIN :	***COUNCILMEMBERS:***	***None***
ABSENT:	***COUNCILMEMBERS:***	***None***

Jason Lindgren, City Clerk
City of Elk Grove, California

EXHIBIT A

LAGUNA CREEK TRAIL
SOUTH CAMDEN SPUR PROJECT

INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

PREPARED BY

CITY OF ELK GROVE
DEVELOPMENT SERVICES – PLANNING
8401 LAGUNA PALMS WAY
ELK GROVE, CA 95758

DECEMBER 2015

LAGUNA CREEK TRAIL SOUTH CAMDEN SPUR PROJECT
INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

Prepared by:

CITY OF ELK GROVE
DEVELOPMENT SERVICES – PLANNING
8401 LAGUNA PALMS WAY
ELK GROVE, CA 95758

DECEMBER 2015

LIST OF TABLES

LIST OF FIGURES

APPENDICES

1.0 INTRODUCTION

1.1 INTRODUCTION AND REGULATORY GUIDANCE

This document is an Initial Study (IS) with supporting environmental studies, which provides justification for a Mitigated Negative Declaration (MND) pursuant to the California Environmental Quality Act (CEQA) for the Laguna Creek Trail South Camden Spur Project (Project).

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

If the agency finds no substantial evidence that the proposed project or any of its aspects may cause a significant impact on the environment with mitigation, a MND is 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) will 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 a point where clearly no significant effects would occur, and*

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

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

1.2 LEAD AGENCY

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

1.3 PURPOSE AND DOCUMENT ORGANIZATION

The purpose of this IS/MND is to evaluate the potential environmental impacts of the proposed Laguna Creek Trail South Camden Spur Project. Mitigation measures have also been established that reduce or eliminate any identified significant and/or potentially significant impacts. This document is divided into the following sections:

1.0 INTRODUCTION

This section provides an introduction and describes the purpose and organization of this document.

2.0 PROJECT DESCRIPTION

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

3.0 INITIAL STUDY CHECKLIST

This section describes the environmental setting for each of the environmental subject areas, evaluates a range of impacts classified as "no impact," "less than significant impact," "less than significant impact with mitigation incorporated," or "potentially significant impact" in response to the environmental checklist, provides mitigation measures, where appropriate, to mitigate potentially significant impacts to a less than significant level, and provides an environmental determination of the proposed Project.

4.0 SUMMARY OF MITIGATION MEASURES

This section provides a summary of mitigation measures for the proposed Project.

5.0 LIST OF PREPARERS

This section identifies staff and consultants responsible for preparation of this document.

6.0 LIST OF ABBREVIATIONS

This section is an alphabetical list of abbreviations used throughout this document.

7.0 REFERENCES

This section identifies resources used in the preparation of this document.

2.0 PROJECT DESCRIPTION

2.1 PROJECT LOCATION

The proposed Project is located in Elk Grove, Sacramento County, California. Specifically, the Project site is located between the northern end of Camden Park and Bond Road. Refer to **Figure 2.0-1** and **Figure 2.0-2** for the regional vicinity and project location maps.

2.2 PROJECT PURPOSE AND OBJECTIVES

The City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan identifies the Laguna Creek Trail South Camden Spur Project as a future bicycle and trail project expenditure and shows the proposed project on Figure 5.1 (Existing and Proposed Bicycle and Pedestrian Network). The master plan identifies the need for an off-street multi-use trail system providing connections throughout the City and the Sacramento region. The purpose of the project is to complete a portion of the Laguna Creek Trail system in Elk Grove from the north end of Camden Park to Bond Road and to improve off-street bicycle and pedestrian access between residential and commercial areas in the City.

The following are specific objectives of the proposed project:

- Improve local bicycle and pedestrian access and circulation.
- Provide a safe, off-street means for bicycle and pedestrian users between residential and commercial areas in the City.
- Continue the existing Laguna Creek Trail so the trail can be as long and continuous as possible.
- Improve local air quality and reduce emissions by providing an alternative means of transportation.

2.3 PROJECT DESCRIPTION

EXISTING SETTING

The Laguna Creek Trail currently extends from the north and south ends of Camden Park and continues along Laguna Creek from the south end of Camden Park at Bond Road to just south of the intersection of Bond Road and Waterman Road. Existing land uses surrounding the proposed project include park and open space, agricultural residential, residential, public/quasi-public, and commercial uses. The proposed project site is located west of parks and open space and public/quasi-public land uses and east of commercial land uses and vacant land. Laguna Creek flows west through the project area. The Laguna Creek Trail offers access to Old Town Elk Grove, Camden Lake, residential neighborhoods, and many retail centers and restaurants. Camden Park's main feature is the Laguna Creek Trail, which is used as a scenic horse and jogging trail. Currently, the Laguna Creek Trail is split into three stretches—the longest stretch extending for 2.25 miles from south of the Bond Road/Waterman Road intersection along Laguna Creek to the northern end of Camden Park, the next longest stretch extending for approximately 1 mile from the east of Mix Park along Whitehouse Creek to just north of MacDonald Park, and the shortest stretch extending for approximately one-third mile from Camden Lake to Whitehouse Creek. Refer to **Figure 2.0-3** for the project design.

PROPOSED PROJECT

The City of Elk Grove proposes to construct an approximately 0.5-mile paved asphalt multi-use trail from the north end of Camden Park south to Bond Road with a combined bridge/weir crossing at Camden Lake, as an extension to the Laguna Creek Trail (see **Figure 2.0-3**). The northern end of the proposed project would connect to the western end of the Laguna Creek Trail (Project). The proposed Project includes at least two slightly wider areas for park benches, trash receptacles, dog waste bag containers, and biologic educational signs. The majority of the proposed Project will be constructed within the 100-year floodplain. The proposed Project is consistent with the Elk Grove General Plan and the Elk Grove Bicycle, Pedestrian, and Trails Master Plan. Each of these plans identifies the need for an off-street multi-use trail system providing connections throughout the City and the Sacramento region. The Project would close a gap in the overall Laguna Creek Trail system, provide improved access between residential and commercial areas and schools, and present recreational opportunities and an alternative method for transportation for City residents.

RIGHT-OF-WAY

The proposed Project will be constructed generally within existing City and Cosumnes Community Services District rights-of-way. No right-of-way will be acquired for the proposed Project.

FUNDING

Federal funds (Congestion Management and Air Quality Improvement Program [CMAQ]) have been allocated for the Project, in addition to City of Elk Grove Measure A funds and the City's Local Transportation Fund.

2.4 PROJECT CONSTRUCTION

Analysis contained in this IS/MND has taken into consideration activities within the entire Project area, including proposed contractor staging areas, and all mitigation measures included as part the Project would be implemented throughout these areas.

2.5 REQUIRED PROJECT APPROVALS

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

- Elk Grove City Council – adoption of the MND, Mitigation Monitoring and Reporting Program, and other actions associated with Project approval
- California Department of Transportation (Caltrans) – issuance of National Environmental Policy Act (NEPA) Categorical Exclusion
- US Fish and Wildlife Service (USFWS) – Section 7 consultation

Additional permits would be required prior to construction. These include, but are not limited to:

- Regional Water Quality Control Board (RWQCB) – 401 Water Quality Certification

Figure 2.0-1
Regional Vicinity

City of Elk Grove
Development Services

City of Elk Grove
Development Services

Figure 2.0-2
Project Location

Figure 2.0-3
Project Design

City of Elk Grove
Development Services

- US Army Corps of Engineers (USACE) – Section 404 Nationwide Permit
- California Department of Fish and Wildlife (CDFW) – 1602 Streambed Alteration Agreement

2.6 OTHER PROJECT ASSUMPTIONS

This IS/MND assumes compliance 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 as part of this IS/MND and are available in Appendix A through E:

- Natural Environment Study, PMC, January 2015 (Appendix A)
- Biological Assessment, PMC, January 2015 (Appendix A)
- Wetland Delineation, PMC, January 2014 (Appendix A)
- Historic Property Survey Report, Pacific Legacy, February 2015 (Appendix B)
- Archaeological Survey Report, Pacific Legacy, February 2015 (Appendix B)
- Initial Site Assessment, Kleinfelder, January 2015 (Appendix C)
- Water Quality Assessment Memorandum, PMC, December 2014 (Appendix D)
- Summary Floodplain Encroachment Report, City of Elk Grove, January 2015 (Appendix E)

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3.0 INITIAL STUDY CHECKLIST

The environmental factors checked below would be potentially affected by this Project as indicated by the checklist on the following pages.

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

DETERMINATION

On behalf of this initial evaluation:

☐ I find that the proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the Project have been made by or agreed to by the Project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed Project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to the earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.

Signature	Date
Jessica Jordan, Planning Manager	City of Elk Grove Planning Department
Printed Name	For

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.1. AESTHETICS. 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) Substantially degrade the existing visual character or quality of the site and its surroundings?	☐	☐	☒	☐
d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

ENVIRONMENTAL SETTING

The Project site is surrounded by parks and open space, public/quasi-public open space, agricultural, commercial, and residential land uses. The proposed multi-use trail would extend from the western end of the Laguna Creek Trail in Camden Park to Bond Road. The proposed Project includes a combined bridge/weir crossing at Camden Lake and would be constructed between parks and open space, public/quasi-public, agricultural, and commercial land uses. The proposed multi-use trail would extend the longest stretch of the Laguna Creek Trail, which begins south of the Bond Road/Waterman Road intersection and terminates at the northern end of Camden Park and is approximately 2.25 miles long. The trail is used for scenic recreational purposes, including horseback riding, jogging, walking, and bicycling. The trail is a main feature of Camden Park, which also includes a greenbelt and Camden Lake. Laguna Creek flows west through the northern portion of the Project area.

DISCUSSION OF IMPACTS

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

No Impact. There are no designated scenic vistas in Elk Grove (City of Elk Grove 2003b). The Laguna Creek Trail offers scenic views of Laguna Creek, Whitehouse Creek, and Camden Lake. Scenic views available along the existing Laguna Creek Trail will not be obstructed by the proposed Project. Furthermore, the proposed Project would result in an extension of the Laguna Creek Trail that would provide additional views of Laguna Creek and Camden Lake. Therefore, no impact would occur.

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

Less Than Significant Impact. The proposed Project requires the removal of some trees due to the quality of their health and/or structure, as recommended in the Tree Survey Memorandum prepared for the Project in June 2013. The nearest state highway is State Route 99, which is located approximately three-quarters of a mile west of the Project site; however, the highway does not have a scenic designation in Sacramento County. No rock outcroppings or historic buildings are present in or adjacent to the Project site. Therefore, impacts are considered less than significant.

c) *Would the project substantially degrade the existing visual character or quality of the site and its surroundings?*

Less Than Significant Impact. The proposed Project would extend the existing Laguna Creek Trail from the northern end of Camden Park to Bond Road. The Project will be consistent with the existing visual character of the surrounding open space/park areas and would provide additional views of Laguna Creek and Camden Lake. Impacts are considered less than significant.

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

Less Than Significant Impact. The proposed Project would extend a multi-use trail from the northern end of Camden Park to Bond Road and does not include the addition of new sources of light or glare. Construction of the proposed Project may require the use of construction lighting after daylight hours, which may create a new source of light or glare in the Project area. However, this would be temporary and limited to the time of construction. Therefore, impacts are considered less than significant.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.2. AGRICULTURE AND FORESTRY RESOURCES. 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 nonagricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forestland (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 45260), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forestland or conversion of forestland 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 nonagricultural use or conversion of forestland to non-forest use?	☐	☐	☐	☒

ENVIRONMENTAL SETTING

Agriculture has historically been an important part of Elk Grove's land use and economy. However, the majority of existing land zoned for agricultural uses within city limits is considered fallow (vacant or underutilized). Few crops are grown in the City itself, and there are no major intensive agricultural operations that occur within city limits, though small family farm activities do exist. According to the 2012 Farmland Mapping and Monitoring Program Important Farmland Map for Sacramento County, the Project site and surrounding area are identified as Urban and Built-Up Land and Grazing Land (DOC 2014). There is no land within or adjacent to the Project site enrolled in a Williamson Act contract (DOC 2013). Furthermore, there are no forestlands, timberlands, or timberlands zoned Timberland Production in the vicinity of the Project site.

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 nonagricultural use?

No Impact. The Project site is located in an area identified as Urban/Built-Up and Grazing Land on the Sacramento County Important Farmland Map for 2012 (DOC 2014). No land in the Project area is identified as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (DOC 2014). The Project would not convert Farmland to nonagricultural use, and no impact would occur.

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

No Impact. According to the Sacramento County Williamson Act Map for the 2011/2012 fiscal year, no parcels of land in the Project area are enrolled in a Williamson Act contract (DOC 2013). Therefore, no impact would occur.

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

No Impact. There are no forestlands, timberlands, or timberlands zoned Timberland Production in the vicinity of the Project site. Thus, no impact would occur.

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

No Impact. No forestlands, timberlands, or timberlands zoned Timberland Production are present in the vicinity of the Project site. No impact would occur.

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 nonagricultural use or conversion of forestland to non-forest use?*

No Impact. The proposed Project would construct an extension of the Laguna Creek Trail from the northern end of Camden Park to Bond Road and would not result in land use changes that would convert Farmland to nonagricultural use or forestland to non-forest use. No impact would occur.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.3. AIR QUALITY. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☐	☒
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	☐	☐	☒	☐
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)?	☐	☐	☒	☐
d) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
e) Create objectionable odors affecting a substantial number of people?	☐	☐	☒	☐

ENVIRONMENTAL SETTING

Air quality in a region is determined by its topography, meteorology, and existing air pollutant sources. These factors are discussed in this section, together with the current regulatory structure that applies to the Sacramento Valley Air Basin (SVAB) pursuant to the regulatory authority of the Sacramento Metropolitan Air Quality Management District (SMAQMD).

Climate and Meteorology

Ambient air quality is commonly characterized by climatological conditions, the meteorological influences on air quality, and the quantity and type of pollutants released. The air basin is subject to a combination of topographical and climatic factors that reduce the potential for high levels of regional and local air pollutants. The following subsection describes pertinent characteristics of the air basin and provides an overview of the physical conditions affecting pollutant dispersion in the Project area.

Regional Climate

The SVAB is relatively flat, bordered by mountains to the east, west, and the north. Air flows into the SVAB through the Carquinez Strait, moving across the Delta, and bringing with it pollutants from the heavily populated San Francisco Bay Area. The climate is characterized by hot, dry summers and cool, rainy winters. Characteristic of SVAB winter weather are periods of dense and persistent low-level fog, which are most prevalent between storms. From May to October, the region's intense heat and sunlight lead to high ozone concentrations. Summer inversions are strong and frequent, but are less troublesome than those that occur in the fall. Autumn inversions, formed by warm air subsiding in a region of high pressure, have accompanying light winds that do not provide adequate dispersion of air pollutants.

Most precipitation in the SVAB results from air masses moving in from the Pacific Ocean during the winter months. These storms usually move through the area from the west or northwest. During the winter rainy season (November through February) over half the total annual precipitation falls while the average winter temperature is a moderate 49 degrees. During the summer, daytime temperatures can exceed 100 degrees Fahrenheit. Dense fog occurs mostly in mid-winter and never in the summer. Daytime temperatures from April through October average between 70 and 90 degrees with extremely low humidity. The inland location and surrounding mountains shelter the valley from much of the ocean breezes that keep the coastal regions moderate in temperature. The only breach in the mountain barrier is the Carquinez Strait, which exposes the midsection of the valley to the coastal air mass.

Winds across the study area are an important meteorological parameter because they control the dilution of locally generated air pollutant emissions and their regional trajectory. Based on data obtained from the Sacramento Executive Airport, the closest station that measures wind speed and direction, southwest winds are the most predominant (CARB 1992).

Meteorological Influences on Air Quality

Regional flow patterns affect air quality patterns by directing pollutants downwind of sources. Localized meteorological conditions, such as moderate winds, disperse pollutants and reduce pollutant concentrations. However, the mountains surrounding the Sacramento Valley can create a barrier to airflow, which can trap air pollutants in the valley when meteorological conditions are right. The highest frequency of air stagnation occurs in the autumn and early winter when large high-pressure cells lie over the valley. The lack of surface wind during these periods and the reduced vertical flow caused by less surface heating reduce the influx of outside air and allow air pollutants to become concentrated in a stable volume of air. The surface concentrations of pollutants are highest when these conditions are combined with smoke from agricultural burning or when temperature inversions trap cool air, fog, and pollutants near the ground (SMAQMD 2004).

The ozone season (May through October) in the Sacramento Valley is characterized by stagnant morning air or light winds with the delta sea breeze arriving in the afternoon out of the southwest. Usually the evening breeze transports the airborne pollutants to the north out of the valley. During about half of the days from July to September, however, a phenomenon called the "Schultz Eddy" prevents this from occurring. Instead of allowing for the prevailing wind patterns to move north carrying the pollutants out of the valley, the Schultz Eddy causes the wind pattern to circle back south. Essentially this phenomenon causes the air pollutants to be blown south toward the Sacramento nonattainment area. This phenomenon's effect exacerbates the pollution levels in the area and increases the likelihood of violating federal or state standards (SMAQMD 2004).

REGULATORY SETTING

Air quality within the SVAB is regulated by several jurisdictions including the US Environmental Protection Agency (EPA), the California Air Resources Board (CARB), and the SMAQMD. Each of these agencies develops rules, regulations, and policies to attain the goals or directives imposed upon them through legislation. State and local regulations must be as stringent as EPA regulations and may be more stringent.

Pollutants subject to federal ambient standards are referred to as "criteria" pollutants because the EPA publishes criteria documents to justify the choice of standards. One of the most

important reasons for air quality standards is the protection of those members of the population who are most sensitive to the adverse health effects of air pollution, known as sensitive receptors. The term "sensitive receptors" refers to specific population groups as well as the land uses where they would reside for long periods. Commonly identified sensitive population groups are children, the elderly, the acutely ill, and the chronically ill. Commonly identified sensitive land uses are residences, schools, playgrounds, childcare centers, retirement homes or convalescent homes, hospitals, and clinics. Criteria air pollutants, common sources, and associated effects are summarized in **Table 3.3-1**. The federal and state standards for the criteria pollutants and other State-regulated air pollutants are shown in **Table 3.3-2**.

Federal Air Quality Regulations

At the federal level, the EPA has been charged with implementing national air quality programs. The EPA's air quality mandates are drawn primarily from the federal Clean Air Act (CAA), which was signed into law in 1970. Congress substantially amended the CAA in 1977 and again in 1990.

TABLE 3.3-1
CRITERIA AIR POLLUTANTS SUMMARY OF COMMON SOURCES AND EFFECTS

Pollutant	Description	Sources	Health Effects	Welfare Effects
Carbon monoxide (CO)	Colorless, odorless gas	Motor vehicle exhaust, indoor sources include kerosene wood-burning stoves	Headaches, reduced mental alertness, heart attack, cardiovascular diseases, impaired fetal development, death	Contribute to the formation of smog.
Sulfur dioxide (SO_2)	Colorless gas that dissolves in water vapor to form acid, and interacts with other gases and particulates in the air	Coal-fired power plants, petroleum refineries, manufacture of sulfuric acid and smelting of ores containing sulfur	Eye irritation, wheezing, chest tightness, shortness of breath, lung damage	Contribute to the formation of acid rain, visibility impairment, plant and water damage, aesthetic damage
Nitrogen dioxide (NO_2)	Reddish brown, highly reactive gas	Motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuels	Susceptibility to respiratory infections, irritation of the lung and respiratory symptoms (e.g., cough, chest pain, difficulty breathing)	Contribute to the formation of smog, acid rain, water quality deterioration, global warming, and visibility impairment
Ozone (O_3)	Gaseous pollutant when it is formed in the troposphere	Primarily vehicle exhaust; formed from the combination of reactive organic gases and oxides of nitrogen in the presences of sunlight	Eye and throat irritation, coughing, respiratory tract problems, asthma, lung damage	Plant and ecosystem damage
Lead	Metallic element	Metal refineries, smelters, battery manufacturers, iron and steel producers, use of leaded fuels by racing and aircraft industries	Anemia, high blood pressure, brain and kidney damage, neurological disorders, cancer, lowered IQ	Affects animal and plants, affects aquatic ecosystems
Particulate matter (PM)	Very small particles of dust, soot, or other matter, including tiny droplets of liquids	Diesel engines, power plants, industries, windblown dust, wood stoves	Eye irritation, asthma, bronchitis, lung damage, cancer, heavy metal poisoning, cardiovascular effects	Visibility impairment, atmospheric deposition, aesthetic damage, impaired plant photosynthesis

Source: EPA 2014

TABLE 3.3-2
SUMMARY OF AMBIENT AIR QUALITY STANDARDS

Pollutant	Averaging Time	State Standard[9]	Federal Standard[9]	Principal Health and Atmospheric Effects	Typical Sources
Ozone (O_3)[2]	1 hour 8 hours 8 hours (conformity process[5])	0.09 ppm 0.070 ppm —	—[4] 0.075 ppm[6] 0.08 ppm (4th highest in 3 years)	High concentrations irritate lungs. Long-term exposure may cause lung tissue damage and cancer. Long-term exposure damages plant materials and reduces crop productivity. Precursor organic compounds include many known toxic air contaminants. Biogenic volatile organic compounds (VOC) may also contribute.	Low-altitude ozone is almost entirely formed from reactive organic gases (ROG)/VOCs and nitrogen oxides (NOx) in the presence of sunlight and heat. Major sources include motor vehicles and other mobile sources, solvent evaporation, and industrial and other combustion processes.
Carbon monoxide (CO)	1 hour 8 hours 8 hours (Lake Tahoe)	20 ppm 9.0 ppm[1] 6 ppm	35 ppm 9 ppm —	CO interferes with the transfer of oxygen to the blood and deprives sensitive tissues of oxygen. CO also is a minor precursor for photochemical ozone.	Combustion sources, especially gasoline-powered engines and motor vehicles. CO is the traditional signature pollutant for on-road mobile sources at the local and neighborhood scale.
Respirable particulate matter (PM_{10})[2]	24 hours Annual	50 $\mu g/m^3$ 20 $\mu g/m^3$	150 $\mu g/m^3$ —[2]	Irritates eyes and respiratory tract. Decreases lung capacity. Associated with increased cancer and mortality. Contributes to haze and reduced visibility. Includes some toxic air contaminants. Many aerosol and solid compounds are part of PM_{10}.	Dust- and fume-producing industrial and agricultural operations; combustion smoke; atmospheric chemical reactions; construction and other dust-producing activities; unpaved road dust and re-entrained paved road dust; natural sources (wind-blown dust, ocean spray).
Fine particulate matter ($PM_{2.5}$)[2]	24 hours Annual 24 hours (conformity process[5])	— 12 $\mu g/m^3$ —	35 $\mu g/m^3$ 15.0 $\mu g/m^3$ 65 $\mu g/m^3$ (4th highest in 3 years)	Increases respiratory disease, lung damage, cancer, and premature death. Reduces visibility and produces surface soiling. Most diesel exhaust particulate matter—a toxic air contaminant—is in the $PM_{2.5}$ size range. Many aerosol and solid compounds are part of $PM_{2.5}$.	Combustion including motor vehicles, other mobile sources, and industrial activities; residential and agricultural burning; also formed through atmospheric chemical (including photochemical) reactions involving other pollutants including NOx, sulfur oxides (SOx), ammonia, and ROG.
Nitrogen dioxide (NO_2)	1 hour Annual	0.18 ppm 0.030 ppm	0.100 ppm[7] (98th percentile over 3 years) 0.053 ppm	Irritating to eyes and respiratory tract. Colors atmosphere reddish-brown. Contributes to acid rain. Part of the NOx group of ozone precursors.	Motor vehicles and other mobile sources; refineries; industrial operations.

Pollutant	Averaging Time	State Standard[9]	Federal Standard[9]	Principal Health and Atmospheric Effects	Typical Sources
Sulfur dioxide (SO_2)	1 hour	0.25 ppm	0.075 ppm[8] (98th percentile over 3 years)	Irritates respiratory tract; injures lung tissue. Can yellow plant leaves. Destructive to marble, iron, steel. Contributes to acid rain. Limits visibility.	Fuel combustion (especially coal and high-sulfur oil), chemical plants, sulfur recovery plants, metal processing; some natural sources like active volcanoes. Limited contribution possible from heavy-duty diesel vehicles if ultra-low sulfur fuel not used.
	3 hours	---	0.5 ppm		
	24 hours	0.04 ppm	0.14 ppm		
	Annual	---	0.030 ppm		
Lead [3]	Monthly	1.5 $\mu g/m^3$	---	Disturbs gastrointestinal system. Causes anemia, kidney disease, and neuromuscular and neurological dysfunction. Also a toxic air contaminant and water pollutant.	Lead-based industrial processes like battery production and smelters. Lead paint, leaded gasoline. Aerially deposited lead from gasoline may exist in soils along major roads.
	Quarterly	---	1.5 $\mu g/m^3$		
	Rolling 3-month average	---	0.15 $\mu g/m^3$		
Sulfate	24 hours	25 $\mu g/m^3$	---	Premature mortality and respiratory effects. Contributes to acid rain. Some toxic air contaminants attach to sulfate aerosol particles.	Industrial processes, refineries and oil fields, mines, natural sources like volcanic areas, salt-covered dry lakes, and large sulfide rock areas.
Hydrogen sulfide	1 hour	0.03 ppm	---	Colorless, flammable, poisonous. Respiratory irritant. Neurological damage and premature death. Headache, nausea.	Industrial processes such as refineries and oil fields, asphalt plants, livestock operations, sewage treatment plants, and mines. Some natural sources like volcanic areas and hot springs.
Visibility reducing particles	8 hours	Visibility of 10 miles or more at relative humidity less than 70%	---	Reduces visibility. Produces haze. Note: Not related to the Regional Haze program under the federal Clean Air Act, which is oriented primarily toward visibility issues in national parks and other "Class I" areas.	See particulate matter above.
Vinyl chloride[3]	24 hours	0.01 ppm	---	Neurological effects, liver damage, cancer. Also considered a toxic air contaminant.	Industrial processes

Source: CARB 2013; EPA 2015b

Notes: ppm = parts per million; $\mu g/m^3$ = micrograms per cubic meter; ppb = parts per billion (thousand million)

1. *Rounding to an integer value is not allowed for the state 8-hour CO standard. Violation occurs at or above 9.05 ppm. Violation of the federal standard occurs at 9.5 ppm due to integer rounding.*
2. *Annual PM_{10} NAAQS revoked October 2006; was 50 $\mu g/m^3$. 24-hour $PM_{2.5}$ NAAQS tightened October 2006; was 65 $\mu g/m^3$. In September 2009, the EPA began reconsidering the $PM_{2.5}$ NAAQS; the 2006 action was partially vacated by a court decision.*
3. *CARB has identified vinyl chloride and the particulate matter fraction of diesel exhaust as toxic air contaminants. Diesel exhaust particulate matter is part of PM_{10} and, in larger proportion, $PM_{2.5}$. Both CARB and the EPA have identified lead and various organic*

compounds that are precursors to ozone and $PM_{2.5}$ as toxic air contaminants. There are no exposure criteria for adverse health effect due to toxic air contaminants, and control requirements may apply at ambient concentrations below any criteria levels specified above for these pollutants or the general categories of pollutants to which they belong. Lead NAAQS are not required to be considered in Transportation Conformity analysis.

4. *Prior to June 2005, the 1-hour NAAQS was 0.12 ppm. The 1-hour NAAQS is still used only in 8-hour ozone early action compact areas, of which there are none in California. However, emission budgets for 1-hour ozone may still be in use in some areas where 8-hour ozone emission budgets have not been developed.*
5. *The 65 $\mu g/m^3$ $PM_{2.5}$ (24-hour) NAAQS was not revoked when the 35 $\mu g/m^3$ NAAQS was promulgated in 2006. Conformity requirements apply for all NAAQS, including revoked NAAQS, until emission budgets for the newer NAAQS are found adequate or State Implementation Plan amendments for the newer NAAQS are completed.*
6. *As of September 16, 2009, the EPA is reconsidering the 2008 8-hour ozone NAAQS (0.075 ppm). On December 17, 2014, the EPA proposed a revision to the primary and secondary ozone standards to a level within a range of 0.065 to 0.070 ppm.*
7. *Final 1-hour NO_2 NAAQS published in the Federal Register on February 9, 2010, effective March 9, 2010. Project-level hot-spot analysis requirements, while not yet required for conformity purposes, are expected.*
8. *The EPA finalized a 1-hour SO_2 standard of 75 ppb in June 2010.*
9. *State standards are "not to exceed" unless stated otherwise. Federal standards are "not to exceed more than once a year" or as noted above.*

The federal and state ambient standards were developed independently with differing purposes and methods, although both processes attempted to avoid health-related effects. As a result, the federal and state standards differ in some cases. In general, the California state standards are more stringent. This is particularly true for ozone, $PM_{2.5}$, and PM_{10}.

The Clean Air Act required the EPA to establish national ambient air quality standards (NAAQS) and also set deadlines for their attainment. Two types of NAAQS have been established: primary standards, which protect public health, and secondary standards, which protect public welfare from non-health-related adverse effects, such as visibility restrictions.

California Air Quality Regulations

The California Clean Air Act (CCAA), 1988, requires that all air districts in the state endeavor to achieve and maintain California ambient air quality standards (CAAQS) for O_3, CO, SO_2, and NO_2 by the earliest practical date. Plans for attaining CAAQS were to be submitted to CARB by June 30, 1991. The CCAA specifies that districts focus particular attention on reducing the emissions from transportation and area-wide emission sources, and the act provides districts with authority to regulate indirect sources. Each district plan is required to either (1) achieve a 5 percent annual reduction, averaged over consecutive three-year periods, in district-wide emissions of each nonattainment pollutant or its precursors, or (2) provide for implementation of all feasible measures to reduce emissions. Any planning effort for air quality attainment would thus need to consider both state and federal planning requirements.

CARB is the agency responsible for coordination and oversight of state and local air pollution control programs in California and for implementing the California Clean Air Act. Any additional development in the region would impede the reduction goals of the CCAA.

Other CARB duties include monitoring air quality (in conjunction with air monitoring networks maintained by air pollution control districts and air quality management districts), establishing CAAQS (which in many cases are more stringent than the NAAQS), and setting emissions standards for new motor vehicles. The emissions standards established for motor vehicles differ depending on various factors including the model year, and the type of vehicle, fuel, and engine used.

Sacramento Metropolitan Air Quality Management District

The SMAQMD, in coordination with the air quality management districts and air pollution control districts of El Dorado, Placer, Solano, Sutter, and Yolo counties, prepared and submitted the

1991 Air Quality Attainment Plan (AQAP) in compliance with the requirements set forth in the CCAA, which specifically addressed the nonattainment status for ozone and to a lesser extent, CO and PM_{10}. The CCAA also requires a triennial assessment of the extent of air quality improvements and emissions reductions achieved through the use of control measures. As part of the assessment, the attainment plan must be reviewed and, if necessary, revised to correct for deficiencies in progress and to incorporate new data or projections. The requirement of the CCAA for a first triennial progress report and revision of the 1991 AQAP was fulfilled with the preparation and adoption of the 1994 Ozone Attainment Plan (OAP).

The OAP stresses attainment of ozone standards and focuses on strategies for reducing ozone precursor emissions of reactive organic gases (ROG) and NO_X. It promotes active public involvement, enforcement of compliance with SMAQMD rules and regulations, public education in both the public and private sectors, development and promotion of transportation and land use programs designed to reduce vehicle miles traveled (VMT) in the region, and implementation of stationary and mobile-source control measures. The OAP became part of the SIP in accordance with the requirements of the CCAA and amended the 1991 Air Quality Attainment Plan. However, at that time the region could not show that the national ozone (1-hour) standard would be met by 1999. In exchange for moving the deadline to 2005, the region accepted a designation of "severe nonattainment" coupled with additional emission requirements on stationary sources. Additional triennial reports were also prepared in 1997, 2000, and 2003 in compliance with the CCAA that act as incremental updates.

As a nonattainment area, the region is also required to submit rate-of-progress milestone evaluations in accordance with the CCAA. Milestone reports were prepared for 1996, 1999, and 2002. These milestone reports include compliance demonstrations that the requirements have been met for the Sacramento nonattainment area. The air quality attainment plans and reports present comprehensive strategies to reduce ROG, NO_X, and PM_{10} emissions from stationary, area, mobile, and indirect sources. Such strategies include the adoption of rules and regulations; enhancement of CEQA participation; implementation of a new and modified indirect source review program; adoption of local air quality plans; and stationary, mobile, and indirect source control measures.

In July 1997, the EPA promulgated a new 8-hour ozone standard. This change lowered the standard for ambient ozone from 0.12 parts per million (ppm) averaged over 1 hour to 0.08 ppm averaged over 8 hours. In general, the 8-hour standard is more protective of public health and more stringent than the 1-hour standard. The promulgation of this standard prompted new designations and nonattainment classifications in June 2004 and resulted in the revocation of the 1-hour standard in June 2005. The region was designated as a nonattainment (serious) area for the national (8-hour) ozone standard with an attainment deadline of June 2013; however, the EPA reclassified the region from a "serious" to a "severe" 8-hour ozone nonattainment area with an extended attainment deadline of June 15, 2019 (EPA 2015a). On January 9, 2015, the EPA approved CARB's plan for the region to attain the 1997 8-hour ozone NAAQS by June 15, 2019 (EPA 2015a).

The SMAQMD has also adopted various rules and regulations pertaining to the control of emissions from area and stationary sources. Some of the more pertinent regulatory requirements applicable to the proposed Project are listed below.

- *Rule 402. Nuisance*. The purpose of this rule is to limit emissions which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause or have natural tendency to cause injury or damage to business or property.

- *Rule 403. Fugitive Dust*. The purpose of this rule is to require that reasonable precautions be taken so as not to cause or allow the emissions of fugitive dust from non-combustion sources from being airborne beyond the property line from which the emission originates.

- *Rule 442.Architectural Coatings*. The developer or contractor is required to use coatings that comply with the volatile organic compound (VOC) content limits specified in the rule.

Ambient Air Quality

Attainment Status for Criteria Air Pollutants

The attainment status of Sacramento County is summarized in **Table 3.3-3**. An attainment designation for an area signifies that pollutant concentrations did not violate the standard for that pollutant in that area. A nonattainment designation indicates that a pollutant concentration violated the standard at least once, excluding those occasions when a violation(s) was caused by an exceptional event, as defined in the criteria.

As depicted in **Table 3.3-3**, Sacramento County is currently designated nonattainment for the State and federal ozone and PM_{10} standards, as well as the State $PM_{2.5}$ standard. Sacramento County is designated either attainment or unclassified for the remaining national and California ambient air quality standards.

TABLE 3.3-3
ATTAINMENT STATUS DESIGNATIONS

Pollutant	California Standard	Federal Standard
Ozone	1-hour – Nonattainment (serious) 8-hour – Nonattainment	1-hour – Attainment 8-hour – Nonattainment (severe-15)
PM_{10}	24-hour – Nonattainment Annual – Nonattainment	24-hour – Attainment
$PM_{2.5}$	Annual – Nonattainment (No State Standard for 24-hour)	24-hour – Nonattainment Annual – Unclassified/Attainment
Carbon Monoxide	1-hour – Attainment 8-hour – Attainment	1-hour – Attainment 8-hour – Attainment
Nitrogen Dioxide	1-hour – Attainment Annual – Attainment	1-hour – Unclassified/Attainment Annual – Unclassified/Attainment
Sulfur Dioxide	1-hour – Attainment 24-hour – Attainment	1-hour (Attainment Pending)
Lead	30-day average – Attainment	3-month rolling average – Unclassified/Attainment
Visibility Reducing Particles	8-hour – Unclassified	No Federal Standard
Sulfates	24-hour – Attainment	No Federal Standard
Hydrogen Sulfide	1-hour – Unclassified	No Federal Standard

Source: SMAQMD 2013

**Air quality meets federal PM_{10} standards. The SMAQMD must request redesignation to attainment and submit a maintenance plan to be formally designated attainment.*

Odors

Typically, odors are generally regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from the psychological (i.e., irritation, anger, or anxiety) to the physiological, including circulatory and respiratory effects, nausea, vomiting, and headache.

The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals have the ability to smell very minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor and in fact an odor that is offensive to one person may be perfectly acceptable to another (e.g., fast-food restaurant). It is important to also note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word strong to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air. When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

Neither the State nor the federal government has adopted any rules or regulations for the control of odor sources. The SMAQMD does not have an individual rule or regulation that specifically addresses odors; however, odors would be applicable to SMAQMD's Rule 204, Nuisance. Any actions related to odors would be based on citizen complaints to local governments and the SMAQMD. No major stationary sources of odors have been identified in the vicinity of the Project site.

Toxic Air Contaminants

Toxic air contaminants (TACs) are not considered criteria pollutants in that the CAA and CCAA do not address them specifically through the setting of national or California ambient air quality standards. Instead, the EPA and CARB regulate hazardous air pollutants and TACs, respectively, through statutes and regulations that generally require the use of the maximum or best available control technology to limit emissions. In conjunction with SMAQMD rules, they establish the regulatory framework for TACs. At the national levels, the EPA has established National Emission Standards for Hazardous Air Pollutants, as required by the CAA Amendments. These are technology-based source-specific regulations that limit allowable emissions of hazardous air pollutants.

At the State level, CARB has authority for the regulation of emissions, including TACs, from motor vehicles, fuels, and consumer products. In California, TACs are regulated primarily through the Tanner Air Toxics Act (Assembly Bill [AB] 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). AB 1807 sets forth a formal procedure for CARB to designate substances as toxic air contaminants, including research, public participation, and scientific

peer review. When looking at all controlled TACs, emissions of diesel-exhaust PM are estimated to be responsible for about 70 percent of the total ambient TAC risk. As a result, CARB has made the reduction of the public's exposure to diesel-exhaust PM one of its highest priorities, with an aggressive plan to require cleaner diesel fuel and cleaner diesel engines and vehicles (CARB 2005).

At the local level, air districts have authority over stationary or industrial sources. All projects that require air quality permits from the SMAQMD are evaluated for TAC emissions. The SMAQMD limits emissions and public exposure to TACs through a number of programs. The SMAQMD prioritizes TAC-emitting stationary sources, based on the quantity and toxicity of the TAC emissions and the proximity of the facilities to sensitive receptors. The SMAQMD requires a comprehensive health risk assessment for facilities that are classified in the significant risk category, pursuant to AB 2588.

DISCUSSION OF IMPACTS

Thresholds of Significance

For the purpose of this analysis, the following thresholds of significance, as identified by the SMAQMD or the State CEQA Guidelines (Appendix G), have been used to determine whether implementation of the proposed Project would result in significant air quality impacts. Implementation of the proposed Project would result in significant air quality impacts if:

- Short-Term Emissions of Criteria Air Pollutants. Construction-generated criteria air pollutant or precursor emissions exceed the SMAQMD-recommended threshold of 85 pounds per day for NO_X or substantially contribute to emissions concentrations (e.g., PM_{10}) that exceed the NAAQS or CAAQS. When emissions of NO_x can be reduced to below 85 pounds per day with implementation of all feasible mitigation measures and offsets, other construction-generated mobile-source pollutants can be considered to be less than significant (SMAQMD 2004).

  The SMAQMD provides screening criteria that can also be used for the evaluation of construction-generated PM_{10}, based on the overall maximum daily area of disturbance associated with proposed projects (refer to **Table 3.3-4**). In accordance with these criteria, areas of disturbance in excess of the SMAQMD's screening criteria would be considered potentially significant. These screening levels are based on the maximum actively disturbed area of a project site. For example, assuming a maximum daily disturbance of less than 15 acres, implementation of recommended "Level Three Mitigation" would typically be considered sufficient to reduce fugitive dust-related impacts to a less than significant level. If the maximum daily area of disturbance would exceed the screening criteria or if a project cannot undertake the mitigation measures that would be required, a more detailed analysis, involving dispersion modeling, may be required (SMAQMD 2004).

TABLE 3.3-4
SMAQMD PARTICULATE MATTER SCREENING LEVELS FOR CONSTRUCTION PROJECTS

Maximum Daily Area of Disturbance	Recommended Mitigation
5 Acres and Below	No Mitigation Required
5.1–8 Acres	Level One Mitigation Required: • Water exposed soil twice daily. • Maintain 2 feet of freeboard space on haul trucks.
8.1–12 Acres	Level Two Mitigation Required: • Water exposed soil three times daily. • Water soil piles three times daily. • Maintain 2 feet of freeboard space on haul trucks.
12.1–15 Acres	Level Three Mitigation Required: • Keep soil moist at all times. • Maintain 2 feet of freeboard space on haul trucks. • Use emulsified diesel or diesel catalysts on applicable heavy-duty diesel construction equipment.

Source: SMAQMD 2004

- Long-Term Emissions of Criteria Air Pollutants. Long-term regional criteria air pollutant or precursor emissions exceed the SMAQMD-recommended threshold of 65 pounds per day for ROG and NO_X or substantially contribute to emissions concentrations (e.g., PM_{10}) that exceed the NAAQS or CAAQS.

- Local Carbon Monoxide Concentrations. Local mobile-source emissions exceed or substantially contribute to CO concentrations that violate the 1-hour ambient air quality standard of 20 ppm or the 8-hour standard of 9 ppm.

- Local Toxic Air Contaminant Concentrations. Exposure of sensitive receptors to TAC emissions exceeds 10 in one million for the Maximally Exposed Individual to contract cancer and/or a Hazard Index of one for the Maximally Exposed Individual.

- Local Odor Concentrations. Frequent exposure of a substantial number of individuals to odorous emissions would be considered significant.

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

No Impact. A project is considered to conflict with or obstruct implementation of regional air quality plans if it would be inconsistent with the emissions inventories contained in the regional air quality plans. Emission inventories are developed based on projected increases in population growth and vehicle miles traveled (VMT) in the region. The proposed Project would construct a bridge/weir crossing at Camden Lake and an extension of the Laguna Creek Trail from the northern end of Camden Park to Bond Road. The Project would not result in an increase in population or VMT. In addition, implementation of the proposed Project would improve the continuity of the off-street trail system within the City and encourage the use of alternative modes of transportation. The Project could potentially result in a reduction of the use of personal

motor vehicles, as it would improve bicycle and pedestrian access between residential and commercial areas and schools. Long-term operation of the proposed Project is anticipated to result in overall beneficial air quality impacts and would not be anticipated to conflict with existing or future air quality planning efforts. For these reasons, no impact would occur.

b) *Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?*

Less Than Significant Impact. The proposed Project does not involve construction of a new roadway or improvements to an existing roadway, nor would it affect local motorized vehicle traffic patterns. The Project does not include the operation of any major stationary sources of emissions. Implementation of the proposed Project would improve the continuity of the City's off-street trail system and encourage the use of alternative modes of transportation, as the Project would improve bicycle and pedestrian access between residential and commercial areas and schools. This could result in a reduction in the use of personal motor vehicles. Therefore, long-term operation of the Project is anticipated to result in overall beneficial air quality impacts.

Short-term increases in emissions would occur during construction. The construction period would be limited and temporary. The Project has a footprint of approximately 1.27 acres and would disturb less than 35 acres and therefore does not surpass the SMAQMD screening threshold for construction-generated NOx emissions. Furthermore, the Project would not surpass the SMAQMD particulate matter screening levels for construction projects, as the area of disturbance is less than 5 acres. Therefore, construction-generated air pollutants associated with the proposed Project would be less that significant and no emissions quantification is required. Additionally, once in operation, the proposed Project would not contribute to any stationary, mobile, or indirect sources of air pollution. Based on the nature of the proposed Project as a bridge/weir crossing and multi-use trail project and the limited duration of construction, the Project is not anticipated to violate an air quality standard or contribute to an existing or projected air quality violation. Therefore, impacts would be less than significant.

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

Less Than Significant Impact. The SMAQMD considers projects that are consistent with the air quality plan and below SMAQMD significance thresholds of the ozone precursor pollutants (i.e., ROG and NO_x) to have less than significant cumulative impacts. As discussed in Issue a), the proposed Project would not conflict with the air quality plan since it would not result in an increase in population or VMT. As discussed in Issue b), predicted construction emissions attributable to the proposed Project would not exceed SMAQMD screening thresholds and by the very nature of the Project, cumulative impacts would be less than significant per the SMAQMD significance threshold since the Project would be consistent with the applicable air quality plan and would not exceed SMAQMD significance thresholds. Impacts are considered less than significant.

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

Less Than Significant Impact. Long-term operation of the proposed Project is anticipated to result in overall beneficial air quality impacts, as it will improve bicycle and pedestrian access between residential and commercial areas and schools, improve the continuity of the City's off-street trail system, and encourage alternative modes of transportation, potentially reducing the use of personal motor vehicles.

CARB identified particulate exhaust emissions from diesel-fueled engines (diesel-exhaust PM) were identified as toxic air contaminants in 1998. Construction of the proposed Project would result in diesel PM emissions from the use of off-road diesel equipment for site grading and excavation, paving, and other construction activities. The closest sensitive receptors to the proposed Project are the homes in the residential neighborhood along the south side of Bond Road and in the residential neighborhood north and east of Camden Park. The health risks of diesel exhaust emissions are primarily linked with long-term exposure and the associated risk of contracting cancer. Since construction activities for the proposed Project would be limited and temporary, and the use of diesel-powered construction equipment would be temporary and episodic, diesel-exhaust PM generated by Project construction would not be expected to create conditions where there would be a greater probability of risks to the health of nearby sensitive receptors.

In accordance with SMAQMD-recommended guidance for the analysis of air quality impacts, if emissions of NOx associated with on-site construction equipment are determined to be less than significant, then other pollutants from on-site mobile sources can also be assumed to be less than significant. As discussed in Issue b) and in comparison to SMAQMD recommendations, predicted construction-generated emissions of NOx, as well as other mobile source emissions, would be considered less than significant. For these reasons, impacts would be less than significant.

e) *Would the project create objectionable odors affecting a substantial number of people?*

Less Than Significant Impact. The occurrence and severity of odor impacts depend on numerous factors, including the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of the receptors. While offensive odors rarely cause any physical harm, they still can be very unpleasant, leading to considerable distress among the public and often generating citizen complaints to local governments and regulatory agencies. Projects with the potential to frequently expose members of the public to objectionable odors would be deemed to have a significant impact.

Construction of the proposed Project would involve the use of a variety of gasoline- or diesel-powered equipment that would emit exhaust fumes. Exhaust fumes, particularly diesel exhaust, may be considered objectionable by some people. In addition, pavement coatings and architectural coatings used during Project construction would also emit temporary odors. However, construction-generated emissions would occur intermittently throughout the workday and would dissipate rapidly with increasing distance from the source. As a result, short-term construction activities would not expose a substantial number of people to frequent odorous emissions. In, addition, the proposed Project would not result in the installation of any equipment that would be considered major odor-emission sources. As a result, potential exposure of sensitive receptors to odorous emissions would be considered less than significant.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.4. 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 Wildlife or US 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, or regulations, or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?	☐	☒	☐	☐
c) Have a substantial adverse effect on federally protected wetlands, as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal wetlands, 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 describes the natural resources present within and immediately surrounding the Project site and includes a discussion of the special-status species and sensitive habitats potentially occurring in the area. Also included is an analysis of impacts that could occur to biological resources due to implementation of the proposed Project and appropriate mitigation measures to reduce or avoid those impacts. The analysis of biological resources presented in this section is based on a review of the current Project description, the Natural Environment Study, Biological Assessment, and Wetland Delineation prepared for the Project (included in **Appendix A**) and available literature, as well as site visits and surveys conducted by Michael Baker International biologists in October 2010, March 2011, May 2011, December 2013, and April 2014.

ENVIRONMENTAL SETTING

A Michael Baker International biologist conducted an evaluation of the Project to characterize the environmental setting on and adjacent to the Project site. The evaluation involved a thorough query of available data and literature from local, State, federal, and

nongovernmental agencies, and site surveys to collect site-specific data regarding habitat suitability for special-status species and identify any potentially jurisdictional waters.

Database searches were performed on the following websites:

- US Fish and Wildlife Service (USFWS) Sacramento Office Species List (2014a)
- USFWS Critical Habitat Portal (2014b)
- California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) (2014a)
- California Native Plant Society (CNPS) Inventory of Rare, Threatened, and Endangered Plants of California (2014)

A search of the USFWS Sacramento office's Species Lists database was performed for the Elk Grove, Florin, Bruceville, Galt, Courtland, Clarksville, Sacramento East, Carmichael, and Sacramento West, California, US Geological Survey (USGS) 7.5-minute quadrangles (quads) to identify federally listed species under USFWS jurisdiction that may be affected by the proposed Project. In addition, a query of the USFWS's Critical Habitat Portal was conducted to identify any designated critical habitat on or in the vicinity of the Project area. The CNDDB provided a list of processed and unprocessed occurrences of special-status species identified within the aforementioned USGS quads. The CNPS database was also queried to identify special-status plant species with the potential to occur in the aforementioned USGS quads. The raw data returned from the database queries is provided in **Appendix A**.

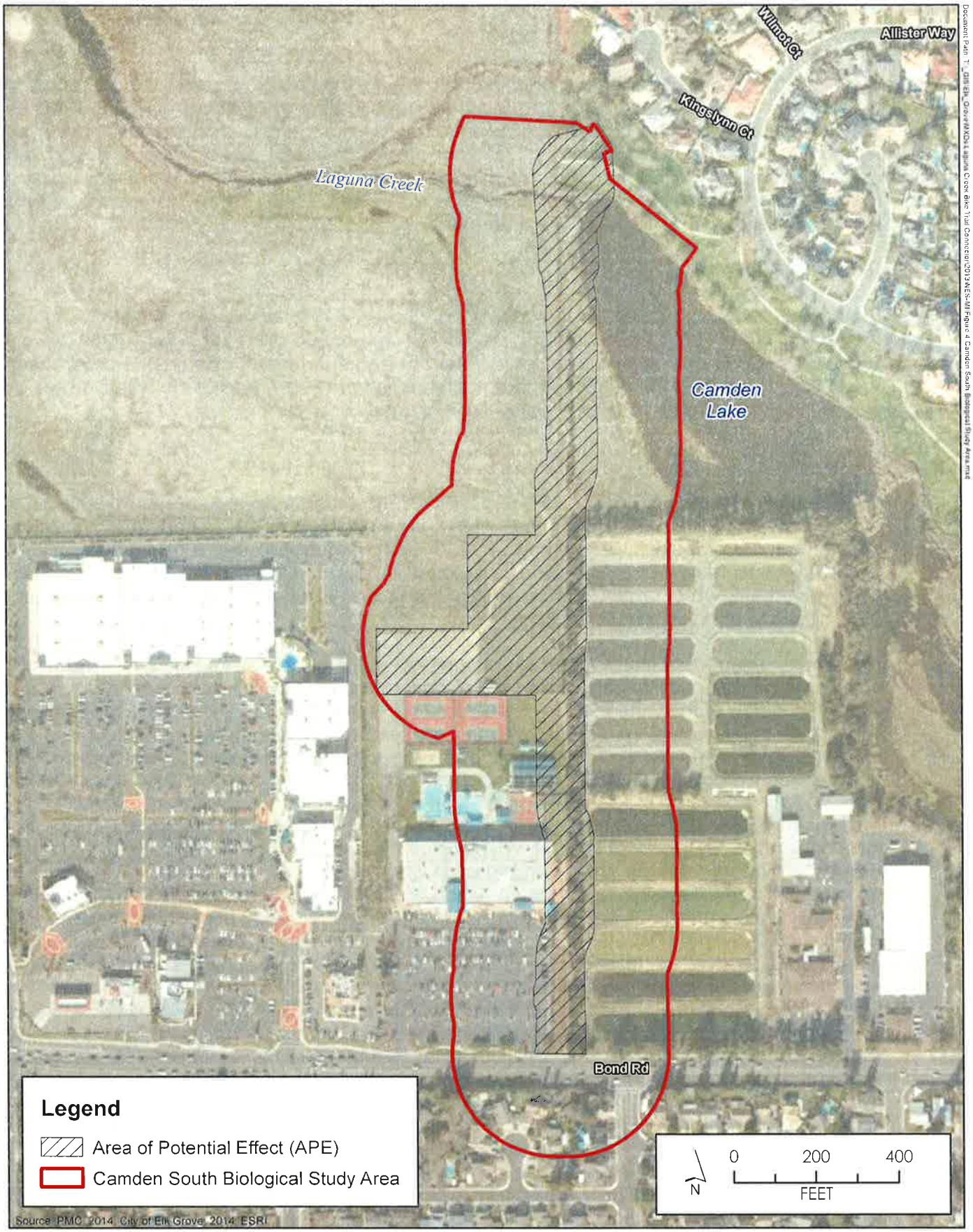
The Biological Study Area (BSA) for the proposed Project was defined using a 250-foot buffer of the Project footprint (**Figure 3.4-1**). The BSA is characterized by urban land uses, annual grassland, man-made drainage ditches, freshwater emergent wetlands, open water, and vernal pool habitat. The BSA is relatively flat through the urban development in the southern portion of the BSA, while in the northern portion of the BSA, the topography slopes from the edge of urban development north toward Laguna Creek. The elevation in the BSA is between 38 and 47 feet above mean sea level. Hydrologic features in the BSA include Laguna Creek, Camden Lake, and man-made ditches. Specifically, 0.24 acre of man-made ditch, 0.48 acre of Laguna Creek, 2.73 acres of Camden Lake, and 0.025 acre of vernal pool occur in the BSA and are considered waters of the United States.

REGULATORY SETTING

Federal

Endangered Species Act

The Endangered Species Act of 1973 (ESA), as amended, provides protective measures for federally listed threatened and endangered species, including their habitats, from unlawful take (16 United States Code (USC) Sections 1531–1544). The ESA defines "take" to mean "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." Title 50, Part 222, of the Code of Federal Regulations (50 CFR Section 222) further defines "harm" to include "an act which actually kills or injures fish or wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures fish or wildlife by significantly impairing essential behavioral patterns including feeding, spawning, rearing, migrating, feeding, or sheltering."



City of Elk Grove
Development Services

Figure 3.4-1
Biological Study Area

ESA Section 7(a)(1) requires federal agencies to utilize their authority to further the conservation of listed species. ESA Section 7(a)(2) requires consultation with the USFWS or the National Marine Fisheries Service (NMFS) if a federal agency undertakes, funds, permits, or authorizes (termed the federal nexus) any action that may affect endangered or threatened species, or designated critical habitat. For projects that may result in the incidental take of threatened or endangered species, or critical habitat, and that lack a federal nexus, a Section 10(a)(1)(b) incidental take permit can be obtained from the USFWS and/or the NMFS.

Clean Water Act

The basis of the Clean Water Act (CWA) was established in 1948; however, it was referred to as the Federal Water Pollution Control Act. The act was reorganized and expanded in 1972 (33 USC Section 1251), and at that time the Clean Water Act became the act's commonly used name. The basis of the CWA is the regulation of pollutant discharges into waters of the United States, as well as the establishment of surface water quality standards.

Section 404

CWA Section 404 (33 USC Section 1344) established the program to regulate the discharge of dredged or fill material into waters of the United States, including wetlands. Under this regulation, certain activities proposed within waters of the United States require that a permit be obtained prior to initiation. These activities include, but are not limited to, placement of fill for the purposes of development, water resource projects (e.g., dams and levees), infrastructure development (e.g., highways and bridges), and mining operations.

The primary objective of this program is to ensure that the discharge of dredged or fill material is not permitted if a practicable alternative to the proposed activities exists that results in less impact to waters of the United States, or the proposed activity would result in significant adverse impacts to these waters. To comply with these objectives, a permittee must document the measures taken to avoid and minimize impacts to waters of the United States and provide compensatory mitigation for any unavoidable impacts.

The US Environmental Protection Agency (EPA) and the USFWS are assigned roles and responsibilities in the administration of this program; however, the US Army Corps of Engineers (USACE) is the lead agency in the administration of day-to-day activities, including issuance of permits. The agencies will typically assert jurisdiction over the following waters: (1) traditional navigable waters (TNW); (2) wetlands adjacent to TNWs; (3) relatively permanent waters (RPW) that are non-navigable tributaries to TNWs and have relatively permanent flow or seasonally continuous flow (typically three months); and (4) wetlands that directly abut RPWs. Case-by-case investigations are usually conducted by the agencies to ascertain their jurisdiction over waters that are non-navigable tributaries and do not contain relatively permanent or seasonal flow, wetlands adjacent to the aforementioned features, and wetlands adjacent to but not directly abutting RPWs (USACE 2007). Jurisdiction is not generally asserted over swales or erosional features (e.g., gullies or small washes characterized by low volume/short duration flow events) or ditches constructed wholly within and draining only uplands that do not have relatively permanent flows.

The extent of jurisdiction within waters of the United States that lack adjacent wetlands is determined by the ordinary high water mark, which is defined in 33 CFR Section 328.3(e) as the "line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the

character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas." Wetlands are further defined under 33 CFR Section 328.3 and 40 CFR Section 230.3 as "those areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" and typically include "swamps, marshes, bogs, and similar areas." The 1987 Corps of Engineers Wetland Delineation Manual (1987 Manual) sets forth a standardized methodology for delineating the extent of wetlands under federal jurisdiction (Environmental Laboratory 1987).

The 1987 Manual outlines three parameters that all wetlands, under normal circumstances, must contain positive indicators to be considered jurisdictional. These parameters include (1) wetland hydrology, (2) hydrophytic vegetation, and (3) hydric soils (Environmental Laboratory 1987). In 2006, the USACE issued a series of regional supplements to address regional differences that are important to the functioning and identification of wetlands. The supplements present "wetland indicators, delineation guidance, and other information" that is specific to the region. The USACE requires that wetland delineations submitted after June 5, 2007, be conducted in accordance with both the 1987 Manual and the applicable supplement.

Section 401

Under CWA Section 401 (33 USC Section 1341), federal agencies are not authorized to issue a permit and/or license for any activity that may result in discharges to waters of the United States, unless a state or tribe where the discharge originates either grants or waives CWA Section 401 certification. CWA Section 401 provides states or tribes with the ability to grant, grant with conditions, deny, or waive certification. Granting certification, with or without conditions, allows the federal permit/license to be issued and remain consistent with any conditions set forth in the CWA Section 401 certification. Denial of the certification prohibits the issuance of the federal license or permit, and waiver allows the permit/license to be issued without state or tribal comment. Decisions made by states or tribes are based on the project's compliance with EPA water quality standards as well as applicable effluent limitations guidelines, new source performance standards, toxic pollutant restrictions, and any other appropriate requirements of state or tribal law. In California, the State Water Resources Control Board is the primary regulatory authority for CWA Section 401 requirements (additional details below).

Migratory Bird Treaty Act

Migratory birds are protected under the Migratory Bird Treaty Act (MBTA) of 1918 (16 USC Sections 703–711). The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed in 50 CFR Section 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR Section 21). The majority of birds found in the Project vicinity would be protected under the MBTA.

Executive Order 11990, Protection of Wetlands (42 FR 26961, 25 May 1977)

Executive Order 11990 requires federal agencies to provide leadership and take action to minimize destruction, loss, or degradation of wetlands and to preserve and enhance the natural qualities of these lands. Federal agencies are required to avoid undertaking or providing support for new construction located in wetlands unless (1) no practicable alternative exists, and (2) all practical measures have been taken to minimize harm to wetlands.

Fish and Wildlife Coordination Act of 1958 (16 USC 661 et seq.)

The Fish and Wildlife Coordination Act requires that whenever any body of water is proposed or authorized to be impounded, diverted, or otherwise controlled or modified, the lead federal agency must consult with the USFWS, the state agency responsible for fish and wildlife management, and the NMFS. Section 662(b) of the act requires the lead federal agency to consider the recommendations of the USFWS and other agencies. The recommendations may include proposed measures to mitigate or compensate for potential damages to wildlife and fisheries associated with a modification of a waterway.

Executive Order 13112 – Invasive Species

This executive order directs all federal agencies to refrain from authorizing, funding, or carrying out actions or projects that may spread invasive species. The order further directs federal agencies to prevent the introduction of invasive species, control and monitor existing invasive species populations, restore native species to invaded ecosystems, research and develop prevention and control methods for invasive species, and promote public education on invasive species. As part of the proposed action, the USFWS and the USACE would issue permits and therefore would be responsible for ensuring that the proposed action complies with Executive Order 13112 and does not contribute to the spread of invasive species.

State

California Endangered Species Act

Under the California Endangered Species Act (CESA), the CDFW has the responsibility for maintaining a list of endangered and threatened species (Fish and Game Code [FGC] Section 2070). The CDFW also maintains a list of "candidate species," which are species formally noticed as being under review for potential addition to the list of endangered or threatened species, and a list of "species of special concern," which serve as species "watch lists."

Pursuant to the requirements of the CESA, an agency reviewing a proposed project within its jurisdiction must determine whether any State-listed endangered or threatened species may be present and determine whether the proposed project will have a potentially significant impact on such species. In addition, the 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. State-listed species are fully protected under the mandates of the CESA. Take of protected species incidental to otherwise lawful management activities may be authorized under FGC Section 206.591. Authorization from the CDFW would be in the form of an incidental take permit.

California Fish and Game Code

Streambed Alteration Agreement (FGC Sections 1600–1607)

State and local public agencies are subject to FGC Section 1602, which governs construction activities that will substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake designated as waters of the State by the CDFW. Under FGC Section 1602, a discretionary Streambed Alteration Agreement must be issued by

the CDFW to the project proponent prior to the initiation of construction activities on lands under CDFW jurisdiction. As a general rule, this requirement applies to any work undertaken within the 100-year floodplain of a stream or river containing fish or wildlife resources.

Native Plant Protection Act

The Native Plant Protection Act (FGC Sections 1900–1913) prohibits the taking, possessing, or sale within the state of any plants with a state designation of rare, threatened, or endangered (as defined by the CDFW). An exception in the act allows landowners, under specified circumstances, to take listed plant species, provided that the owners first notify the CDFW, and give that agency at least 10 days to retrieve the plants before they are plowed under or otherwise destroyed (FGC Section 1913). Project impacts to these species are not considered significant unless the species are known to have a high potential to occur within the area of disturbance associated with construction of the project.

Birds of Prey

Under FGC Section 3503.5, it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto.

Fully Protected Species

California statutes also afford "fully protected" status to a number of specifically identified birds, mammals, reptiles, and amphibians. These species cannot be taken, even with an incidental take permit. FGC Section 3505 makes it unlawful to take "any aigrette or egret, osprey, bird of paradise, goura, numidi, or any part of such a bird." FGC Section 3511 protects from take the following fully protected birds: (a) American peregrine falcon (*Falco peregrinus anatum*); (b) brown pelican (*Pelecanus occidentalis*); (c) California black rail (*Laterallus jamaicensis coturniculus*); (d) California clapper rail (*Rallus longirostris obsoletus*); (e) California condor (*Gymnogyps californianus*); (f) California least tern (*Sterna albifrons browni*); (g) golden eagle (*Aquila chrysaetos*); (h) greater sandhill crane (*Grus canadensis tabida*); (i) light-footed clapper rail (*Rallus longirostris levipes*); (j) southern bald eagle (*Haliaeetus leucocephalus leucocephalus*); (k) trumpeter swan (*Cygnus buccinator*); (l) white-tailed kite (*Elanus leucurus*); and (m) Yuma clapper rail (*Rallus longirostris yumanensis*).

FGC Section 4700 identifies the following fully protected mammals that cannot be taken: (a) Morro Bay kangaroo rat (*Dipodomys heermanni morroensis*); (b) bighorn sheep (*Ovis canadensis*), except Nelson bighorn sheep (subspecies *Ovis canadensis nelsoni*); (c) Guadalupe fur seal (*Arctocephalus townsendi*); (d) ring-tailed cat (genus *Bassariscus*); (e) Pacific right whale (*Eubalaena sieboldi*); (f) salt-marsh harvest mouse (*Reithrodontomys raviventris*); (g) southern sea otter (*Enhydra lutris nereis*); and (h) wolverine (*Gulo gulo*).

FGC Section 5050 protects from take the following fully protected reptiles and amphibians: (a) blunt-nosed leopard lizard (*Crotaphytus wislizenii silus*); (b) San Francisco garter snake (*Thamnophis sirtalis tetrataenia*); (c) Santa Cruz long-toed salamander (*Ambystoma macrodactylum croceum*); (d) limestone salamander (*Hydromantes brunus*); and (e) black toad (*Bufo boreas exsul*).

FGC Section 5515 identifies certain fully protected fish that cannot lawfully be taken, even with an incidental take permit. The following species are protected in this fashion: (a) Colorado River squawfish (*Ptychocheilus lucius*); (b) thicktail chub (*Gila crassicauda*); (c) Mohave chub (*Gila mohavensis*); (d) Lost River sucker (*Catostomus luxatus*); (e) Modoc sucker (*Catostomus microps*); (f) shortnose sucker (*Chasmistes brevirostris*); (g) humpback sucker (*Xyrauchen texanus*); (h) Owens River pupfish (*Cyprinoden radiosus*); (i) unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*); and (j) rough sculpin (*Cottus asperrimus*).

California Wetlands and Other Waters Policies

The California Resources Agency and its various departments do not authorize or approve projects that fill or otherwise harm or destroy coastal, estuarine, or inland wetlands. Exceptions may be granted if all of the following conditions are met:

- The project is water-dependent.
- No other feasible alternative is available.
- The public trust is not adversely affected.
- Adequate compensation is proposed as part of the project.

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act of 1966 (California Water Code Section 13000 et seq.; California Code of Regulations [CCR] Title 23, Chapter 3, Subchapter 15) is the primary state regulation that addresses water quality. The requirements of the act are implemented by the State Water Resources Control Board at the state level and at the local level by the Regional Water Quality Control Board (RWQCB). The RWQCB carries out planning, permitting, and enforcement activities related to water quality in California. The act provides waste discharge requirements and a permitting system for discharges to land or water. Certification is required by the RWQCB for activities that can affect water quality.

Clean Water Act, Section 401 Water Quality Certification

CWA Section 401 (33 USC Section 1341) requires that any applicant for a federal license or permit that may result in a pollutant discharge to waters of the United States obtain a certification that the discharge will comply with EPA water quality standards. The state or tribal agency responsible for issuance of the Section 401 certification may also require compliance with additional effluent limitations and water quality standards set forth in state/tribal laws. In California, the RWQCB is the primary regulatory authority for CWA Section 401 requirements.

The Central Valley RWQCB is responsible for enforcing water quality criteria and protecting water resources in the area. In addition, the RWQCB is responsible for controlling discharges to surface waters of the state by issuing waste discharge requirements (WDR) or commonly by issuing conditional waivers to WDR. The RWQCB requires that a project proponent obtain a CWA Section 401 water quality certification for CWA Section 404 permits issued by the US Army Corps of Engineers.

Delegated Permit Authority

California has been delegated permit authority for the National Pollutant Discharge Elimination System (NPDES) permit program including stormwater permits for all areas except tribal lands.

Issuance of CWA Section 404 dredge and fill permits remains the responsibility of the USACE; however, the state actively uses its CWA Section 401 certification authority to ensure CWA Section 404 permits are in compliance with state water quality standards.

State Definition of Covered Waters

Under California law, "waters of the State" means any surface water or groundwater, including saline waters, within the boundaries of the state. Therefore, water quality laws apply to both surface water and groundwater. After the US Supreme Court decision in *Solid Waste Agency of Northern Cook County v. US Army Corps of Engineers*, the Office of Chief Counsel of the State Water Resources Control Board released a legal memorandum confirming the State's jurisdiction over isolated wetlands. The memorandum stated that under the California Porter-Cologne Water Quality Control Act (Porter-Cologne), discharges to wetlands and other waters of the State are subject to state regulation, and this includes isolated wetlands. In general, the State Water Resources Control Board regulates discharges to isolated waters in much the same way as it does for waters of the United States, using Porter-Cologne rather than Clean Water Act authority.

Local

City of Elk Grove Tree Preservation and Protection (Elk Grove Municipal Code, Chapter 19.12)

Chapter 19.12 of the Elk Grove Municipal Code, Tree Preservation and Protection, strives to protect and preserve trees of local importance, including coast live oak (*Quercus agrifolia*), valley oak (*Q. lobata*), blue oak (*Q. douglasii*), interior live oak (*Q. wislizeni*), oracle oak (*Q. x moreha*), California sycamore (*Platanus racemosa*), and black walnut (*Juglans hindsii*) with a single trunk 6 inches diameter at breast height or greater or a multi-trunk with a combined diameter at breast height of 6 inches or greater. Chapter 19.12 requires mitigation for the removal of trees of local importance with the dimensions described above, trees that have been selected for preservation, all portions of adjacent off-site native trees that have driplines that extend onto a project site, and all off-site native trees that may be impacted by utility installation and/or improvements associated with a project. Current policies require that every inch lost will be mitigated by an inch planted or equivalent credit obtained from a tree mitigation bank.

City of Elk Grove Swainson's Hawk Impact Mitigation Fees

Chapter 16.130 of the Elk Grove Municipal Code, Swainson's Hawk Impact Mitigation Fees, requires mitigation for the loss of Swainson's hawk habitat at a 1:1 ratio. Mitigation can be achieved through the payment of a fee, which is used to fund the City's Swainson's hawk habitat restoration program. Other options for achieving mitigation through the code include the direct transfer to the City of a Swainson's hawk habitat conservation easement along with an easement monitoring endowment or the purchase of credits at a CDFW-approved conservation bank. The site must be surveyed to determine whether it is suitable Swainson's hawk foraging habitat.

City of Elk Grove General Plan

The City's General Plan identifies specific goals, objectives, and policies regarding natural resources (City of Elk Grove 2003a). The General Plan serves as the overall guiding policy document for land use, development, and environmental quality for the City. The Conservation

and Air Quality Element and the Parks, Trails, and Open Space Element include goals and policies to preserve, protect, enhance, and promote the City's valuable natural resources. The General Plan identifies specific goals and policies regarding biological and natural resources. The following policies are applicable to the proposed Project.

Policy CAQ-8: Large trees (both native and non-native) are an important aesthetic (and in some cases, biological) resource. Trees which function as an important part of the City's or a neighborhood's aesthetic character or as natural habitat should be retained to the extent possible during the development of new structures, roadways (public and private, including roadway widening), parks, drainage channels, and other uses and structures.

Policy CAQ-9: Wetlands, vernal pools, marshland, and riparian (streamside) areas are considered to be important resources. Impacts to these resources shall be avoided unless shown to be technically infeasible. The City shall seek to ensure that no net loss of wetland areas occurs, which may be accomplished by avoidance, re-vegetation and restoration on-site or creation of riparian habitat corridors.

Policy PTO-15: The City views open space lands of all types as an important resource which should be preserved in the region, and supports the establishment of multipurpose open space areas to address a variety of needs, including, but not limited to:

- Maintenance of agricultural uses
- Wildlife habitat
- Recreational open space
- Aesthetic benefits
- Flood control

To the extent possible, lands protected in accordance with this policy should be in proximity to Elk Grove to facilitate use of these areas by Elk Grove residents, assist in mitigation of habitat loss within the City, and provide an open space resource close to the urbanized areas of Elk Grove.

Nongovernmental Agency

California Native Plant Society

The CNPS is a nongovernmental agency that classifies native plant species according to current population distribution and threat level in regard to extinction. The CNPS utilizes the data to create/maintain a list of native California plants that have low numbers, limited distribution, or are otherwise threatened with extinction. This information is published in the Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2014). Potential impacts to populations of CNPS-listed plants receive consideration under CEQA review.

The following identifies the definitions of the CNPS listings:

List 1A: Plants believed to be extinct

List 1B: Plants that are rare, threatened, or endangered in California and elsewhere

List 2B: Plants that are rare, threatened, or endangered in California, but are more numerous elsewhere

All of the plant species on List 1 and 2 meet the requirements of the Native Plant Protection Act, Section 1901, Chapter 10, or FGC Sections 2062 and 2067, and are eligible for state listing. Plants appearing on List 1 or 2 are considered to meet the criteria of CEQA Section 15380, and effects on these species are considered "significant." Classifications for plants on List 3 (plants about which more information is needed) and/or List 4 (plants of limited distribution), as defined by the CNPS, are not currently protected under State or federal law. Therefore, no detailed descriptions are provided or impact analysis was performed on species with these classifications.

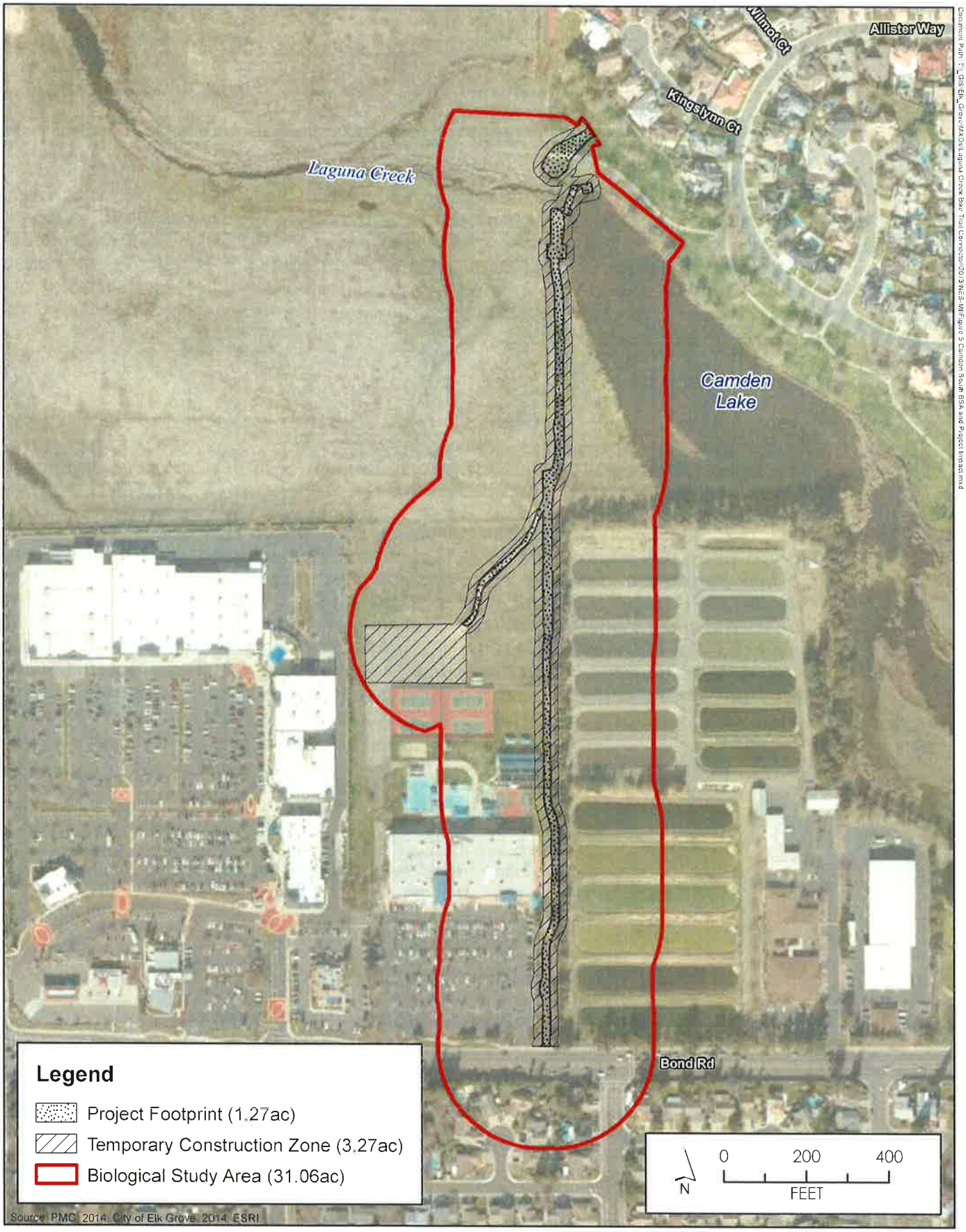
DISCUSSION OF IMPACTS

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 Wildlife or US Fish and Wildlife Service?*

Less Than Significant Impact With Mitigation Incorporated. Candidate, sensitive, or special-status species are commonly characterized as species that are at potential risk to their persistence in a given area or across their range. These species have been identified and assigned a status ranking by governmental agencies such as the CDFW, the USFWS, and nongovernmental organizations such as the CNPS. The degree to which a species is at risk of extinction is the determining factor in the assignment of a status ranking. Some common threats to a species' or population's persistence include habitat loss, degradation, and fragmentation, as well as human conflict and intrusion. For the purposes of this biological review, special-status species are defined by the following codes:

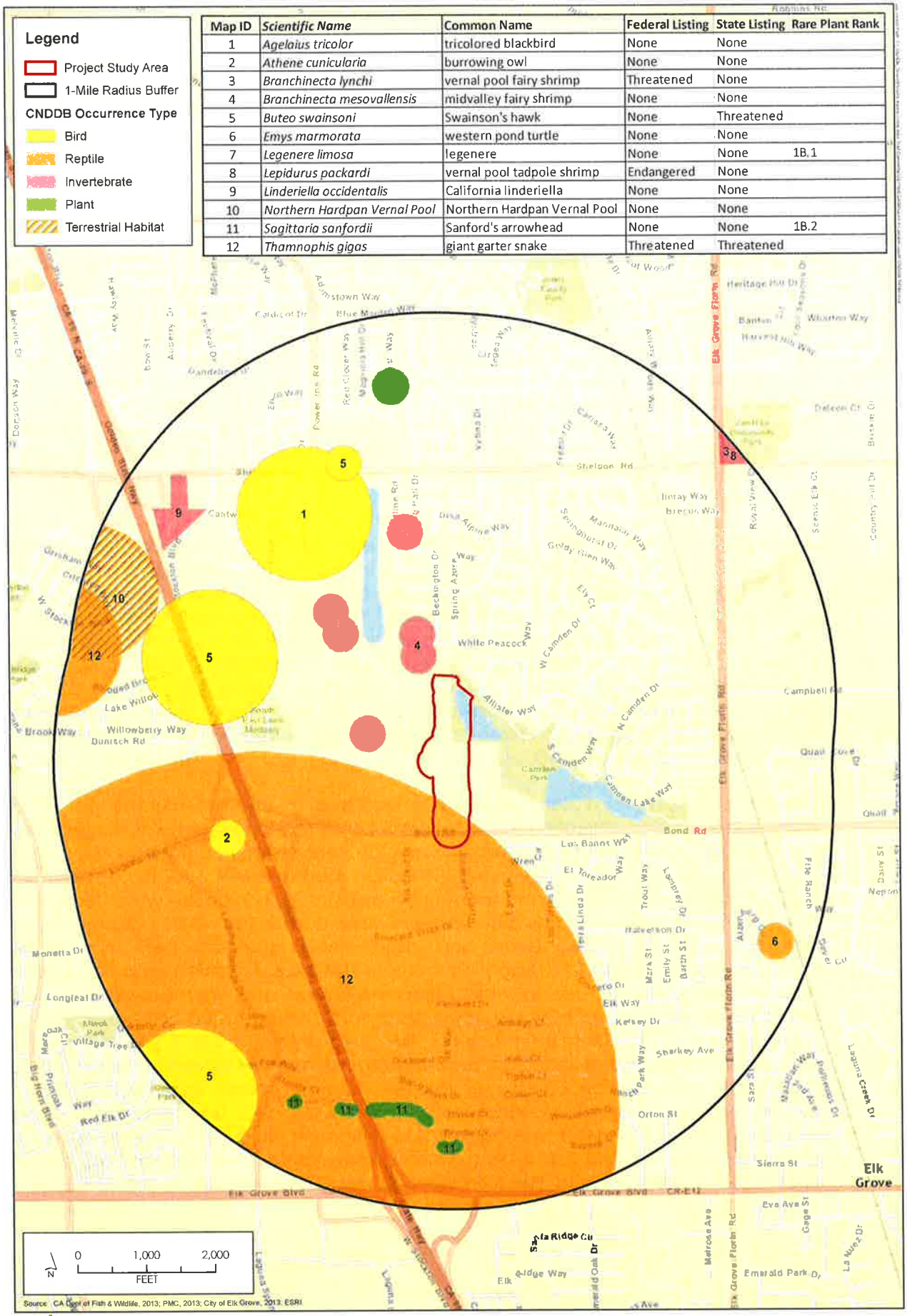
1. Listed, proposed, or candidates for listing under the federal Endangered Species Act (50 CFR 17.11 – listed; 61 Federal Register [FR] 7591, February 28, 1996, candidates)
2. Listed or proposed for listing under the California Endangered Species Act (FGC 1992 Section 2050 et seq.; 14 CCR Section 670.1 et seq.)
3. Designated as Species of Special Concern by the CDFW
4. Designated as Fully Protected by the CDFW (FGC Sections 3511, 4700, 5050, 5515)
5. Species that meet the definition of rare or endangered under CEQA (14 CCR Section15380) including CNPS List Rank 1B and 2

The query of the USFWS, CNPS, and CNDDB databases, combined with site visits and surveys, identified habitat for several special-status species with the potential to occur in the BSA. Refer to **Figure 3.4-2** for the project impact map and **Figure 3.4-3** for a depiction of CNDDB occurrences within 1 mile of the BSA. The Natural Environment Study prepared for the Project and included in **Appendix A** provides a summary of all special-status species identified in the search results, a description of the habitat requirements for each species, and conclusions regarding the potential for each species to be impacted by the proposed Project.



City of Elk Grove
Development Services

Figure 3.4-2
Project Impact Map



Map ID	*Scientific Name*	Common Name	Federal Listing	State Listing	Rare Plant Rank
1	*Agelaius tricolor*	tricolored blackbird	None	None	
2	*Athene cunicularia*	burrowing owl	None	None	
3	*Branchinecta lynchi*	vernal pool fairy shrimp	Threatened	None	
4	*Branchinecta mesovallensis*	midvalley fairy shrimp	None	None	
5	*Buteo swainsoni*	Swainson's hawk	None	Threatened	
6	*Emys marmorata*	western pond turtle	None	None	
7	*Legenere limosa*	legenere	None	None	1B.1
8	*Lepidurus packardi*	vernal pool tadpole shrimp	Endangered	None	
9	*Linderiella occidentalis*	California linderiella	None	None	
10	*Northern Hardpan Vernal Pool*	Northern Hardpan Vernal Pool	None	None	
11	*Sagittaria sanfordii*	Sanford's arrowhead	None	None	1B.2
12	*Thamnophis gigas*	giant garter snake	Threatened	Threatened	

City of Elk Grove
Development Services

Figure 3.4-3
CNDDB Occurrences within One-Mile of the Biological Study Area

Special-Status Plant Species

Eleven special-status plant species were identified as having the potential to occur within the BSA: bristly sedge (*Carex comosa*), Bolander's water-hemlock (*Cicuta maculate* var. *bolanderi*), Peruvian dodder (*Cuscuta obtusiflora* var. *glandulosa*), dwarf downingia (*Downingia pusilla*), woolly rose mallow (*Hibiscus lasiocarpus* var. *occidentalis*), legenere (*Legenere limosa*), Mason's lilaeopsis (*Lilaeopsis masonii*), Sanford's arrowhead (*Sagittaria sanfordii*), marsh skullcap (*Scutellaria galericulata*), side-flowering skullcap (*Scutellaria lateriflora*), and saline clover (*Trifolium hydrophilum*). A rare plant survey was conducted by a Michael Baker International biologist for the proposed Project on May 6, 2011, to evaluate the presence and absence of rare plants within the BSA. Two individuals were identified in Laguna Creek that were indiscernible between the more common water plantain and Sanford's arrowhead due to a lack of inflorescences. The plants were found adjacent to the water's edge with common cattail and bulrush. If these plants are Sanford's arrowhead, based on engineering provided, the proposed Project would avoid the low-water channel where these plants occur and no impact would occur to these plants. No other special-status plant species were identified during the survey effort; however, suitable habitat exists within the BSA for all 11 special-status plant species.

If any special-status plants are present within the Project footprint and/or the temporary construction zone, individuals may be directly impacted by trampling, compaction, or removal. These species are generally associated with fresh emergent wetland or annual grassland habitats. The proposed Project would result in 0.015 acre of permanent and 0.057 acre of temporary impact to fresh emergent wetland associated with Laguna Creek, and 0.049 acre of permanent and 0.144 acre of temporary impact to open water associated with Camden Lake. In addition, 1.136 acres of temporary impact and 0.616 acre of permanent impact to annual grassland habitats that may support special-status plants are anticipated due to Project construction. No permanent or temporary impacts to vernal pool habitat are anticipated.

Impacts to special-status plants will be minimized through the implementation of several mitigation measures. Mitigation measure **MM 3.4.1** will reduce the area of disturbance to the smallest footprint possible in order to avoid unnecessary encroachment into areas that may support special-status plants. Mitigation measures **MM 3.4.2** through **MM 3.4.5** ensure that special-status plants that may be associated with on-site water features will not be negatively impacted by a decrease in water quality. This will be accomplished by restricting work in wetted areas and implementing standard best management practices (BMPs). In addition, mitigation measure **MM 3.4.6** shall minimize adverse effects to special-status plants due to Project-induced erosion and encroachment of exotic plants by requiring temporarily disturbed areas to be revegetated with native species. Implementation of mitigation measures **MM 3.4.9** through **MM 3.4.12** will minimize impacts to special-status plants by requiring preconstruction surveys. If rare plants are discovered they shall be completely avoided and all workers shall be instructed on proper avoidance. If plants cannot be completely avoided, the appropriate agency shall be consulted to determine appropriate mitigation which may include any of the measure detailed in **MM 3.4.12**. As shown, implementation of mitigation measures **MM 3.4.1** through **MM 3.4.6** and **MM 3.4.9** through **MM 3.4.12** will reduce impacts to a less than significant level.

Special-Status Animal Species

Based on the results of the literature review and habitat assessment, 14 special-status wildlife species have the potential to occur in the vicinity of the BSA: vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), western pond turtle (*Emys marmorata*), giant garter snake (*Thamnophis gigas*), tricolored blackbird (*Agelaius tricolor*), grasshopper sparrow (*Ammodramus savannarum*), western burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), northern harrier (*Circus cyaneus*), white-tailed kite (*Elanus leucurus*), least bittern (*Ixobrychus exilis*), song sparrow (*Melospiza melodia*), yellow-headed blackbird (*Xanthocephalus xanthocephalus*), and western red bat (*Lasiurus blossevilii*). Individual discussions of these species or guilds are presented below.

Vernal Pool Crustaceans

One (0.025-acre) vernal pool was identified within the BSA. Formal surveys have not been conducted throughout the entire BSA; however, there are two vernal pool fairy shrimp and one vernal pool tadpole shrimp occurrences within 1 mile of the BSA. Due to the previously documented occurrences in the Project vicinity, the presence of these species is inferred within the BSA for the purposes of analyzing impacts. The Project will not result in direct impacts to any vernal pool habitat. The proposed Project is not anticipated to result in alterations to the hydroperiod of the adjacent vernal pool habitat, as the trail will be constructed east of an existing man-made drainage. Therefore, the proposed Project should not result in the removal or alteration of uplands contributing to the vernal pool watershed and no indirect effects should be incurred to vernal pool crustacean habitat.

Impacts to vernal pool crustaceans will be minimized through the implementation of several mitigation measures. Mitigation measure **MM 3.4.1** will reduce the area of disturbance to the smallest footprint possible in order to avoid unnecessary encroachment into vernal pool habitats. Mitigation measures **MM 3.4.4** and **MM 3.4.5** will ensure that vernal pools will not be degraded by erosion, sedimentation, or other harmful materials. In addition, mitigation measure **MM 3.4.6** shall minimize adverse effects to vernal pool crustaceans due to Project-induced erosion and encroachment of exotic plants by requiring temporarily disturbed areas to be revegetated with native species. Implementation of mitigation measures **MM 3.4.11** and **MM 3.4.13** will minimize impacts to vernal pool crustaceans by fully avoiding vernal pool features and educating workers in proper avoidance techniques. As shown, implementation of mitigation measures **MM 3.4.1**, **MM 3.4.4** through **MM 3.4.6**, **MM 3.4.11**, and **MM 3.4.13** will reduce impacts to vernal pool crustaceans to a less than significant level.

Western Pond Turtle

The aquatic habitats of Camden Lake and Laguna Creek within the BSA provide suitable habitat for this species. The proposed Project will result in 0.015 acre of permanent impact and 0.057 acre of temporary impact to fresh emergent wetland habitat within Laguna Creek, as well as 0.049 acre of permanent and 0.144 acre of temporary impact to open water habitat associated with Camden Lake. In addition, the proposed Project will result in 0.081 acre of permanent impact and 0.194 acre of temporary impact to annual grasslands adjacent to Laguna Creek and Camden Lake that may provide suitable overwintering and nesting habitat for the species. Indirect impacts occur for a number of reasons, though primarily through increased human/wildlife interactions,

habitat fragmentation, encroachment by exotic weeds, and area-wide changes in surface water flows due to development of previously undeveloped areas. The proposed Project will be traveled by pedestrians, increasing the amount and severity of indirect impacts to this species and its habitat in the BSA.

Impacts to western pond turtle will be minimized through the implementation of several mitigation measures. Mitigation measure **MM 3.4.1** will reduce the area of disturbance to the smallest footprint possible in order to avoid unnecessary encroachment into habitats utilized by turtles. In addition, aquatic habitat for the western pond turtle shall be protected from degradation through the implementation of mitigation measures **MM 3.4.2** through **MM 3.4.6**. Implementation of mitigation measures **MM 3.4.11** and **MM 3.4.14** will minimize impacts to western pond turtle by educating workers in proper avoidance techniques and requiring preconstruction surveys. As shown, implementation of mitigation measures **MM 3.4.1** through **MM 3.4.6**, **MM 3.4.11**, and **MM 3.4.14** will reduce impacts to western pond turtle to a less than significant level will reduce impacts to western pond turtle to less than significant by minimizing the area of disturbance during construction, requiring revegetation of disturbed areas, implementing a Worker Environmental Awareness Program about sensitive biological resources and proper avoidance measures, and requiring a preconstruction survey for western pond turtle and, if necessary, removal of individuals identified and avoidance of nests..

Giant Garter Snake

Giant garter snake is federally and State-listed as threatened. The giant garter snake inhabits marshes, sloughs, ponds, small lakes, low-gradient streams, other waterways, agricultural wetlands, such as irrigation and drainage canals and rice fields, and the adjacent uplands (USFWS 1999). Potentially suitable aquatic habitat for giant garter snake is present in Laguna Creek and Camden Lake. All undeveloped communities within 200 feet of aquatic habitat are considered potentially suitable upland habitat (USFWS 1999). The closest occurrence of giant garter snake is ±3.4 miles southeast of the BSA (CDFW 2014b) and east of State Route (SR) 99. This occurrence is located near Elk Grove Creek, which is separated from Laguna Creek and Camden Lake by extensive development. No aquatic features containing the essential habitat components connect Laguna Creek and Elk Grove Creek, east of SR 99. The closest extant occurrence on Laguna Creek is located approximately 5.4 river miles west of the BSA, near the Sacramento County Wastewater Treatment Plant (see **Figure 3.4-4**). There are two possibly extirpated occurrences on Laguna Creek just west of the BSA and SR 99.

Due to the distance between the extant occurrence on Laguna Creek to the west and the presence of potential dispersal barriers (e.g., roads) between this occurrence and the BSA, as well as the lack of suitable dispersal habitat between the BSA and the extant occurrence near Elk Grove Creek, the presence of this species within the BSA is considered unlikely. Therefore, no mitigation measures are proposed.

Impacts to giant garter snake will be minimized through the implementation of several mitigation measures. Mitigation measure **MM 3.4.1** will reduce the area of disturbance to the smallest footprint possible in order to avoid unnecessary encroachment into giant garter snake habitat. Implementation of mitigation measures **MM 3.4.11** will minimize impacts to giant garter snakes by educating workers in proper identification and avoidance techniques. Mitigation measures **MM 3.4.23** and **MM 3.4.25** require avoidance of any snakes that may be encountered on-site by ensuring that the snake can move away on its own volition as well as preconstruction surveys. Mitigation

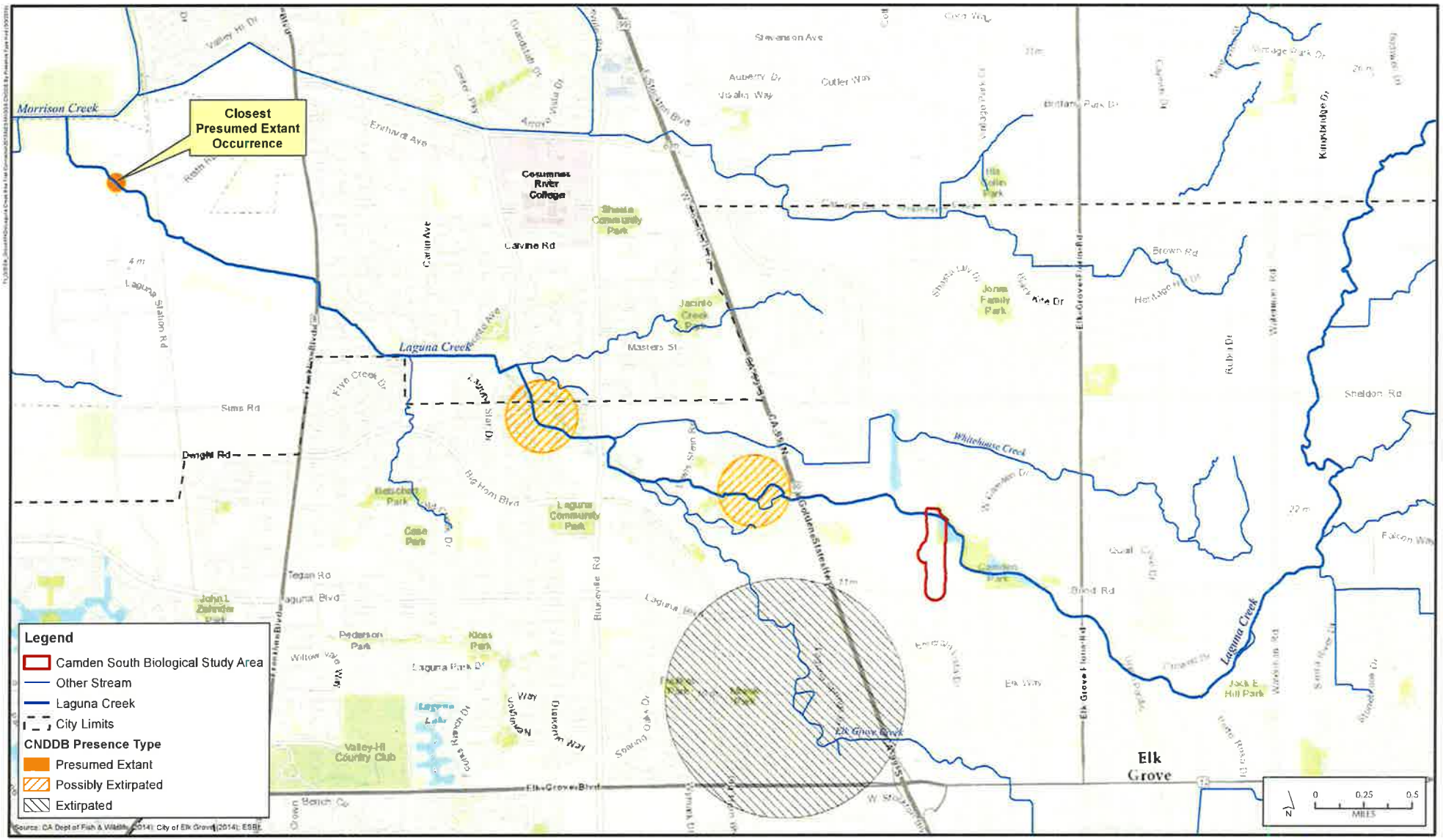
measure **MM 3.4.24** shall minimize adverse effects to giant garter snakes due to the placement of erosion control matting. As shown, implementation of mitigation measures **MM 3.4.1**, **MM 3.4.11**, and **MM 3.4.23** through **MM 3.4.25** will reduce impacts to giant garter snakes to a less than significant level.

Raptors and Migratory Birds

Various migratory birds and raptor species have the potential to inhabit the Project vicinity. Tricolored blackbird, grasshopper sparrow, western burrowing owl, Swainson's hawk, northern harrier, white-tailed kite, least bittern, song sparrow, and yellow-headed blackbird are afforded additional protection by State laws. Swainson's hawk is listed in California as a threatened species under the California Endangered Species Act. The tricolored blackbird, grasshopper sparrow, western burrowing owl, northern harrier, least bittern, song sparrow, and yellow-headed blackbird are California species of special concern. The white-tailed kite is a California fully protected species. Some raptor and migratory bird species, such as red-tailed hawk (*Buteo jamaicensis*), American kestrel (*Falco sparverius*), and oak titmouse (*Baeolophus inornatus*), are not considered special-status species because they are not rare or protected under the Endangered Species Act or the CESA; however, the nests of all raptor species are protected under the MBTA and Section 3503.5 of the Fish and Game Code (FGC). The nests of all migratory birds are protected under the MBTA, which makes it illegal to destroy any active migratory bird nest. The trees, shrubs, and grasslands found in the BSA and in the vicinity provide potential nesting habitat for raptors and migratory birds that occur in the region. In addition, the annual grasslands located within and adjacent to the BSA represent suitable foraging habitat for the Swainson's hawk and other raptor species, as well as suitable nesting habitat for western burrowing owl.

If nesting migratory birds and/or raptors are present during Project construction, the proposed Project may cause direct mortality through impacts to habitats that contain active nests. Excessive noise, disturbance, and vibrations can cause nesting raptors and birds to abandon their nests. The loss of active nests or direct mortality is prohibited by the MBTA and FGC Section 3503.5. The proposed Project could result in indirect impacts to migratory birds and raptors through habitat degradation and removal of trees/shrubs suitable for nesting, as well as from increased human presence. In addition, the annual grassland habitats located in the southern portion of the BSA and adjacent lands could provide suitable foraging habitat for Swainson's hawk (shown on **Figure 3.4-5**), as well as suitable nesting habitat for western burrowing owl. The proposed Project would result in 1.136 acres of temporary impact and 0.616 acre of permanent impact to annual grassland habitats suitable for Swainson's hawk foraging.

Impacts to raptors and birds will be minimized through the implementation of several mitigation measures. Mitigation measure **MM 3.4.1** will reduce the area of disturbance to the smallest footprint possible in order to avoid unnecessary encroachment into habitats utilized by birds for foraging and nesting. Implementation of mitigation measure **MM 3.4.11** ensures all workers are aware of the potential for nesting birds to occur on the project site and are educated in proper avoidance techniques. Mitigation measures **MM 3.4.15** through **MM 3.4.18** require preconstruction surveys and avoidance of protected nests and burrowing owl burrows. Finally, mitigation measure **MM 3.4.19** will ensure that permanent impacts to Swainson's hawk foraging habitat are compensated for through the City's Swainson's Hawk Mitigation Fee program. As shown, implementation of mitigation measures **MM 3.4.1**, **MM 3.4.11**, and **MM 3.4.15** through **MM 3.4.19** will reduce impacts to raptors and migratory birds to a less than significant level.



City of Elk Grove
Development Services

Figure 3.4-4

CNDDB Giant Garter Snake Occurrences
in the Vicinity of the Biological Study Area

City of Elk Grove
Development Services

Figure 3.4-5
Impacts to Swainson's Hawk Habitat

Special-Status Bat Species

Bats, including western red bat, are known to occur in the vicinity of the BSA. These species are California species of special concern due to recent population declines. Habitat for bat species consists of foraging habitat, night-roosting cover, maternity roost sites, and winter hibernacula. These bat species may forage in a variety of habitats. In general, the CDFW is most concerned about the loss of maternity roosting sites. Suitable roosting sites within these habitats include caves, rock crevices, cliffs, buildings, tree bark, and snags. Potential maternity and night-roosting sites occur in snags, under bark, and in human structures (i.e., bridges) within the BSA. Precautions must be taken to avoid the deliberate killing or injury of bats. The most common and effective method of avoiding these offenses is to carry out the work at an appropriate time of the year. The great majority of roosts are used only seasonally, so there is usually some period when bats are not present. Although there are differences between species, maternity sites are generally occupied between May and September and hibernation sites between October and March, depending on the weather. An adequate survey and good understanding of the seasonal activity patterns of the particular species involved will help in determining the optimum time to carry out the proposed work. The recommended times shown in **Table 3.4-1** should be modified in light of site-specific species information.

TABLE 3.4-1
ANNUAL BAT ACTIVITY

Bat Usage of Site	Optimum Period for Carrying Out Work (Some Variation Between Species)
Maternity	October 1–May 1
Summer (not a proven maternity site)	September 1–May 1
Hibernation	May 1–October 1
Mating/swarming	November 1–August 1

If maternity roost sites are located within the BSA during construction activities, the proposed Project has the potential to directly and indirectly impact special-status bat species. Bats are at their most vulnerable in buildings or other roost sites during the summer, when large numbers may be gathered together and young bats, unable to fly, may be present. Removal of maternity roost sites may cause direct mortality of numerous bats. Noise and dust from construction could indirectly impact bat species during construction.

Impacts to special-status bats will be minimized through the implementation of several mitigation measures. Mitigation measure **MM 3.4.1** will reduce the area of disturbance to the smallest footprint possible in order to avoid unnecessary encroachment into habitats utilized by bats for foraging and roosting. Implementation of mitigation measure **MM 3.4.11** ensures all workers are aware of the potential for bats to occur on the project site with worker training. Mitigation measures **MM 3.4.20** through **MM 3.4.22** require preconstruction surveys, replacement of roosting habitat, and avoidance of maternity roosts. As shown, implementation of mitigation measures **MM 3.4.1**, **MM 3.4.11**, and **MM 3.4.20** through **MM 3.4.22** will reduce impacts to special-status bat species to a less than significant level.

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, or regulations, or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?*

Less Than Significant Impact With Mitigation Incorporated. Sensitive habitats include (a) areas of special concern to resource agencies; (b) areas protected under CEQA; (c) areas designated as sensitive natural communities by the CDFW; (d) areas outlined in FGC Section 1600; (e) areas regulated under CWA Section 404; and (f) areas protected under local regulations and policies. Annual grassland and urban habitats are not considered to be natural communities of special concern; however, annual grassland may provide potential habitat for special-status species, which is discussed in issue a) above. The BSA contains jurisdictional features characterized by freshwater emergent wetland, vernal pool, man-made ditch, and open water.

The proposed Project will result in permanent and temporary impacts to the man-made ditch and freshwater emergent wetland habitat within Laguna Creek, as well as temporary impacts to open water habitat within Camden Lake. These impacts are summarized in **Table 3.4-2** in the discussion of issue c) below and are depicted on **Figure 3.4-6**. Implementation of mitigation measures **MM 3.4.1** through **MM 3.4.6** will reduce impacts to less than significant by preventing degradation to sensitive aquatic habitats through minimizing the project footprint to the greatest extent possible and implementing BMPs and other measures to preserve water quality, as well as reseeding all temporarily disturbed areas.

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 wetlands, etc.), through direct removal, filling, hydrological interruption, or other means?*

Less Than Significant Impact With Mitigation Incorporated. Approximately 0.24 acre of man-made ditches, 0.48 acre of fresh emergent wetland associated with Laguna Creek, 2.73 acres of open water associated with Camden Lake, and 0.025 acre of vernal pool occur within the BSA. All features are considered waters of the United States and are therefore subject to CWA regulations. Impacts to these features will require a CWA 404 nationwide permit from the USACE and CWA 401 water quality certification from the RWQCB. In addition, Laguna Creek will be subject to, and the man-made ditch may be subject to, FGC Sections 1600–1607. As a result, impacts to these features will also require authorization from the CDFW via a streambed alteration agreement. **Table 3.4-2** lists the permanent and temporary impacts to jurisdictional features in the BSA.

City of Elk Grove
Development Services

Figure 3.4-6
Impacts to Jurisdictional Features

TABLE 3.4-2
IMPACT TO JURISDICTIONAL FEATURES

Feature Type	Total Acres in the BSA	Acres Permanently Impacted	Acres Temporarily Impacted
Laguna Creek (fresh emergent wetland)	0.48	0.015	0.057
Camden Lake (open water)	2.73	0.049	0.144
Man-Made Ditch	0.24	0.084	0.057
Vernal Pool	0.025	0	0
Total	**3.475**	**0.148**	**0.258**

As shown in **Table 3.4-2**, a total of 0.084 acre of man-made ditch is anticipated to be permanently impacted and a total of 0.057 acre of man-made ditch is anticipated to be temporarily impacted by Project activities; a total of 0.015 acre of fresh emergent wetland is anticipated to be permanently impacted and a total of 0.057 acre of fresh emergent wetland is anticipated to be temporarily impacted by Project activities; and a total of 0.049 acre of open water is anticipated to be permanently impacted and a total of 0.144 acre of open water is anticipated to be temporarily impacted by Project activities. The Project would not result in any impacts to vernal pools. Implementation of mitigation measures **MM 3.4.7** and **MM 3.4.8** will reduce impacts to jurisdictional features to a less than significant level through the purchase of mitigation credits and on-site restoration.

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?*

No Impact. A review of the CDFW Biogeographic Information & Observation System (BIOS) (2014c) was performed for the Project to determine whether the BSA is located within an Essential Connectivity Area. The review of the BIOS viewer indicated that the BSA does not occur within an Essential Connectivity Area. Furthermore, the Project site is surrounded by urban land uses, which further impair any corridor function. As such, no impact is anticipated, and no additional avoidance and minimization measures are proposed.

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

No Impact. The proposed Project is consistent with the Elk Grove General Plan and the Elk Grove Bicycle, Pedestrian, and Trails Master Plan and would not conflict with any local policies or ordinances protecting biological resources. No protected trees are proposed for removal as a result of the proposed Project; thus, there will be no conflict with Chapter 19.12 of the Elk Grove Municipal Code, Tree Preservation and Protection. Therefore, no impact is anticipated and no additional avoidance and minimization measures are proposed.

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. The proposed Project would not conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or State habitat conservation plan. The BSA is located within the South Sacramento Habitat Conservation Plan planning area; however, this plan has not been adopted to date. As a result, the proposed Project would not conflict with the plan, and no impact is anticipated. No avoidance and minimization measures are proposed.

Mitigation Measures

MM 3.4.1 During Project development, the work area shall be reduced to the smallest footprint feasible in sensitive habitat areas.

Timing/Implementation: *During Project development*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.2 Work shall coincide with the driest time. If water is present at the time of construction, water shall be diverted around the work area and work shall resume after the site is dry. Work within the dewatered areas shall be timed with awareness of precipitation forecasts and likely increases in water flows and flood stages. Construction activities within jurisdictional features shall cease prior to storm events until all reasonable erosion control measures have been implemented. Construction equipment and material shall be removed from the floodplain if inundation is likely. Revegetation, restoration, and erosion control work shall not be confined to this time period.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.3 If work in the flowing portion of the creek/ditch is unavoidable, the entire flow shall be diverted around or through the work area during excavation and/or construction operations. Flows shall be diverted using gravity flow through temporary culverts/pipes or pumped around the work site with the use of hoses. When a temporary dam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream to maintain aquatic life below the dam pursuant to FGC Section 5937. Any temporary dam or other artificial obstruction constructed shall only be built from clean materials such as sandbags, gravel bags, water dams, or clean/washed gravel that will cause little or no siltation.

Timing/Implementation: *During Project excavation and construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.4 Prior to initiation of construction activities within jurisdictional features, construction best management practices (BMPs) shall be employed on-site to prevent degradation to on- and off-site waters of the United States. Methods

shall include the use of appropriate measures to intercept and capture sediment prior to entering jurisdictional features, as well as erosion control measures along the perimeter of all work areas to prevent the displacement of fill material. All BMPs shall be in place prior to initiation of any construction activities and shall remain until construction activities are completed. All erosion control methods shall be maintained until all on-site soils are stabilized.

Timing/Implementation: *Prior to start of construction within jurisdictional features*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.5 Standard staging area practices for sediment-tracking reduction shall be implemented where necessary and may include vehicle washing and street sweeping.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.6 All exposed/disturbed areas and access points left barren of vegetation as a result of construction activities shall be restored using locally native grass seeds, locally native grass plugs, and/or a mix of quick-growing sterile nonnative grass with locally native grass seeds. Seeded areas shall be covered with broadcast straw and/or jute netted (monofilament erosion blankets are not permitted).

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.7 For the approximate 0.015 acre of Laguna Creek and approximate 0.049 acre of Camden Lake permanently affected by the proposed Project, the City shall replace the affected acreage at a 1:1 ratio (i.e., 1 acre for every 1 acre of impact), or another approved ratio as determined by the USACE. Impacts shall be offset through the dedication of 0.064 shaded riverine aquatic mitigation credit(s) in a USACE-approved mitigation bank or through the payment of in-lieu fees to an approved conservation bank.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.8 For the approximate 0.084 acre of man-made ditch permanently affected by the proposed Project, the City shall replace the affected acreage at a 1:1 ratio, or another approved ratio as determined by the USACE. Impacts may be offset through the restoration and relocation of the ditch within the Project area, through the dedication of mitigation credit(s) in a USACE-approved mitigation bank, or through the payment of in-lieu fees to an approved conservation bank.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.9 Prior to any vegetation removal or ground-disturbing activities, focused surveys shall be conducted to determine whether special-status plants occur within the Project footprint and/or temporary construction zone. If no special-status plant species are found, the Project will not have any impacts to the species and no additional mitigation measures are necessary.

Timing/Implementation: *Prior to vegetation removal or ground-disturbing activities*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.10 If special-status plant species are located within the Biological Study Area (BSA) but outside the Project footprint, the plants shall be avoided by installing protective fencing and by warning construction personnel of their presence.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.11 A Worker Environmental Awareness Program (WEAP) shall be implemented to educate construction workers about the presence of special-status species and sensitive biological resources in and/or near the Project area and to instruct them on proper avoidance.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.12 If any of the species are found on-site and cannot be avoided, the City shall consult with the USFWS and/or the CDFW, as applicable, to determine appropriate mitigation for special-status plants, which may include but is not limited to the following conservation measures:

- Salvage portions of the habitat or plant populations that will be lost as a result of implementation of the proposed Project.
- Transplant the plants that would be adversely affected by the proposed Project for either reestablishment after construction is complete or planting in a new area in appropriate habitat.
- Develop a propagation program for the salvage and transfer of rare, threatened, or endangered plant populations from the Project site before the initiation of construction activities.
- Involve qualified biologists in the propagation and transport of rare, threatened, or endangered plant species. (Note: Propagation methods for the salvaged plant population must be developed on a case-by-case basis and must include the involvement of local conservation easements, preserves, and/or open space, where applicable). The propagation and transfer of individual plant species must be performed at the correct time

of year and successfully completed before the Project's construction activities eliminate or disturb the plants and habitats of concern.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.13 Protective fencing will be installed between the vernal pool and the construction limits to prevent accidental disturbance and to protect water quality during construction.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.14 A preconstruction survey for western pond turtle shall be conducted within 24 hours of the onset of construction activities adjacent to Laguna Creek and Camden Lake. The survey area shall include a 100-foot buffer of the area to be affected. If juvenile or adult turtles are found within the survey area, the individuals should be moved at least 500 feet downstream in suitable habitat. If a turtle nest is found within the survey area, construction activities shall not take place within 100 feet of the nest until the turtles have hatched or the eggs have been moved to an appropriate location.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.15 If clearing and/or construction activities would occur during the raptor nesting season (January 15–August 15), preconstruction surveys to identify active nests shall be conducted by a qualified biologist within 14 days of construction initiation. Surveys must be performed by a qualified biologist for the purpose of determining presence/absence of active nest sites within the proposed impact area, including construction access routes and a 250-foot buffer (if feasible). If no active nests are found, no further mitigation is required. Surveys shall be repeated if construction activities are delayed or postponed for more than 30 days.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.16 If an active nest (excluding western burrowing owl) is located during preconstruction surveys, construction activities shall be restricted as necessary to avoid disturbance of the nest until it is abandoned or a qualified biologist deems disturbance potential to be minimal. Restrictions may include establishment of exclusion zones (no ingress of personnel or equipment at a minimum radius of 30 meters (100 feet) around an active raptor nest and a 15-meter (50-foot) radius around an active migratory bird nest) or alteration of the construction schedule. Activities permitted within exclusion zones and the size may be adjusted through consultation with the CDFW and/or the City.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.17 Trees containing active migratory bird and/or raptor (excluding Swainson's hawk) nests that must be removed as a result of Project implementation shall be removed during the non-breeding season (September 1–January 1). Swainson's hawks are State and federally listed as threatened species; therefore, impacts to Swainson's hawk nest trees require regulatory authorization from the CDFW prior to removal.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.18 If no burrowing owls are detected, no further mitigation is required. If active burrowing owls are detected, the City shall implement the avoidance, minimization, and mitigation methodologies outlined in the CDFW's (2012) Staff Report on Burrowing Owl Mitigation prior to initiating Project-related activities that may impact burrowing owls.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.19 The City shall mitigate for the permanent loss of 0.616 acre of Swainson's hawk foraging habitat at a 1:1 ratio. Mitigation will be accomplished through the City of Elk Grove Swainson's Hawk Impact Mitigation Fee (Elk Grove Municipal Code Chapter 16.130).

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.20 Prior to the removal of any buildings or oak trees, a bat survey shall be performed by a qualified biologist between March 1 and July 31. If bat roosts are identified, the City shall require that the bats be safely flushed from the sites where roosting habitat is planned to be removed prior to roosting season (typically May to August) and prior to the onset of construction activities. If maternity roosts are identified during the maternity roosting season (typically May to September), they must remain undisturbed until a qualified biologist has determined the young bats are no longer roosting. If roosting is found to occur on-site, replacement roost habitat (e.g., bat boxes) shall be provided to offset roosting sites removed. If no bat roosts are detected, no further action is required if the trees and buildings are removed prior to the next breeding season. If removal is delayed, an additional survey shall be conducted 30 days prior to removal to ensure that a new colony has not established itself.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.21 If a female or maternity colony of bats is found on the Project site, and the Project can be constructed without the elimination or disturbance of the roosting colony (e.g., if the colony roosts in a large oak tree not planned for removal), a qualified biologist shall determine what buffer zones shall be employed to ensure the continued success of the colony. Such buffer zones may include a construction-free barrier of 200 feet from the roost and/or the timing of the construction activities outside of the maternity roost season (after July 31 and before March 1).

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.22 If an active nursery roost is documented on-site and the Project cannot be conducted outside of the maternity roosting season, bats shall be excluded from the site after July 31 and before March 1 to prevent the formation of maternity colonies. Non-breeding bats shall be safely evicted under the direction of a bat specialist.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.23 If a giant garter snake is encountered within the Project work area, construction will cease until the snake has been allowed to move away under its own volition.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.24 Tightly woven erosion control matting (mesh size less than 0.25 inch) or similar material shall be used for erosion control and other purposes at the Project site to ensure that giant garter snakes are not trapped or become entangled by the erosion control material. The edge of the material shall be buried in the ground to prevent snakes from crawling underneath the material. The use of plastic, monofilament, jute, or similar erosion control netting with mesh size larger than 0.25 inch that could entangle snakes will be prohibited.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.25 A survey shall be conducted for the giant garter snake within the Project work area 24 hours prior to the onset of construction and any time activities are halted for more than two weeks thereafter.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.5. CULTURAL RESOURCES. Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☒	☐	☐
c) Directly or indirectly destroy a unique paleontological resource or site or unique geological feature?	☐	☒	☐	☐
d) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☒	☐	☐

ENVIRONMENTAL SETTING

A Historic Property Survey Report (HPSR) and an Archaeological Survey Report (ASR) were prepared for the proposed Project in February 2015 and are included in **Appendix B**. The City of Elk Grove General Plan EIR (2003a) Cultural Resources Sensitivity Map identifies areas surrounding Laguna Creek as sensitive for cultural resources. Areas along rivers and creeks in the Sacramento Valley are known to contain cultural resources because of the villages build by Native Americans over periods of hundreds of years. Approximately eight Plains Miwok tribelets existed along the Cosumnes River drainage and Sacramento River within the Elk Grove Planning Area (City of Elk Grove 2003b). The majority of the prehistoric and historic Native American and archaeological sites in Elk Grove are village mounds (City of Elk Grove 2003b).

The Area of Potential Effect (APE) for a project encompasses the geographic area in which a project may result in impacts to cultural resources. The APE for the proposed Project includes approximately 9 acres within boundaries determined by Caltrans District 3 and the City of Elk Grove. The APE includes portions of the existing public rights-of-way and streets, and includes an encroachment onto Cosumnes Community Services District property. The Project's horizontal APE consists of a linear, irregularly shaped corridor that extends from a point north of the northern end of Camden Park, on the north side of Laguna Creek, south to Bond Road, west of the Emerald Crest Drive/Bond Road intersection. Refer to **Figure 3.5-1** for the APE map for the proposed Project.

BACKGROUND

A record and information search was conducted at the North Central Information Center of the California Historical Resources Information System on December 8, 2010. This included a review of the following:

- National Register of Historic Places (Directory of Determinations of Eligibility, National Park Service 2010)

Figure 3.5-1
APE Map

- National Register of Historic Places and California Register of Historic Resources listings (2008 and Updates) (National Park Service 2008; State of California 2008)
- California Inventory of Historic Resources (State of California 1976)
- California Historical Landmarks (State of California 1996)
- California Points of Historical Interest listing (State of California 1992)
- OHP Historic Property Data File (State of California 2010)
- Caltrans State and Local Bridge Survey (State of California 1989)
- Historic Maps including 1855 GLO PLAT, 1909 USGS Florin Quadrangle, and 1953 US Army Corps of Engineers Florin Sheet
- California Cemeteries Inventory

The record and information search revealed that the APE and 0.5-mile radius do not contain any previously identified cultural resources. Eleven cultural resource studies have been conducted within a 0.5-mile radius. Of the studies, three included portions of the APE. All but a small portion of the APE has been previously studied by these three surveys. In addition, a pedestrian survey of the APE was conducted and did not identify prehistoric or historic period resources.

Native American consultation, pursuant to Section 106 of the National Historic Preservation Act, was completed for the proposed Project. A letter was sent to the Native American Heritage Commission (NAHC) on October 21, 2014, requesting a search of the Sacred Lands Inventory for information regarding cultural resources within the APE. On November 6, 2014, the NAHC responded to the letter stating that the search of the Sacred Lands File failed to indicate the presence of cultural resources in the immediate Project area. The NAHC provided a list of 16 tribal groups or individuals who may have knowledge of cultural resources in the APE or may have an interest in the proposed Project (**Appendix B**). Letters signed by Susan Bauer, Senior Environmental Planner, M1, Caltrans District 3, were sent to these groups and three additional groups and individuals on November 19, 2015. In December 2014, Hannah Ballard of Pacific Legacy made follow-up phone calls to all the parties on the NAHC list. Ms. Ballard spoke directly to six of the potentially interested Native Americans previously contacted by letter. A written response was received from Daniel Fonseca Miwok/Maidu, Shingle Springs Rancheria Tribal Historic Preservation Officer and Most Likely Descendent requesting updated information on the proposed Project in addition to copies of any and all record searches and/ or surveys in or around the APE. Documentation of the Native American consultation effort is provided in **Appendix B**.

The City of Elk Grove initiated Assembly Bill 52 consultation with Steven Hutchason, Executive Director of Environmental Services, Wilton Rancheria, on October 6, 2015.

DISCUSSION OF IMPACTS

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

No Impact. The HPSR prepared for the proposed Project determined that no historic resources are present within the APE or within 0.5 mile of the APE. Therefore, no impact would occur.

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

Less Than Significant Impact With Mitigation Incorporated. According to the HPSR and ASR prepared for the proposed Project, there are no known archaeological resources within 0.5 mile of the APE, and the high degree of disturbance and low potential for buried sites indicates there is a low potential for unknown archaeological resources to be encountered during ground-disturbing activities. Therefore, the proposed Project would not be expected to impact any archaeological resources. Per Policy HR-6-Action 2 of the City's General Plan, requirements would be included in the construction contract requiring immediate notification of the Planning Department if any archaeological resource is uncovered during construction. In the event of this type of discovery, construction would stop and an archaeologist that meets the Secretary of the Interior's Professional Qualifications Standards in prehistoric or historical archaeology would be retained to evaluate the finds and recommend appropriate action. Adherence to the City policy and incorporation of mitigation measure **MM 3.5.1** will further reduce impacts to less than significant by ensuring that any buried archaeological and/or paleontological resources encountered during construction of the proposed project are handled properly and in accordance with California Public Resource Code Section 5097.5.

c) *Would the project directly or indirectly destroy a unique paleontological resource or site or unique geological feature?*

Less Than Significant Impact With Mitigation Incorporated. Project construction would involve grading activities requiring minimal soil excavation for the extension of a multi-use trail. According to the HPSR and ASR prepared for the proposed Project, there are no identified paleontological resources within 0.5 mile of the APE, and discovery of this type of resources is not anticipated. Per Policy HR-6-Action 2 of the City's General Plan, requirements would be included in the construction contract that the Planning Division shall be notified immediately if any paleontological artifact is uncovered during construction. The City's implementation of this policy, according to the State CEQA Guidelines, would result in less than significant impacts to paleontological resources. Adherence to the City policy and incorporation of mitigation measure **MM 3.5.1** will further reduce impacts to less than significant by ensuring that any buried archaeological and/or paleontological resources encountered during construction of the proposed project are handled properly and in accordance with California Public Resource Code Section 7050.5(b).

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

Less Than Significant Impact With Mitigation Incorporated. According to the HPSR and ASR prepared for the proposed Project, the Project site and APE are located on a dissected alluvial fan belonging to the lower member of the Riverbank Formation, which dates to the middle Pleistocene and predates human occupation of the area. This indicates a low potential for buried archaeological deposits. No cultural resources or human remains were observed within the APE during the intensive pedestrian survey conducted in November 2014 as part of the archaeological investigations. However, the potential to discover or disturb human remains exists during any ground-disturbing activity. Implementation of mitigation measure **MM 3.5.2** will further reduce impacts to

less than significant by ensuring that any buried archaeological and/or paleontological resources encountered during construction of the proposed project are handled properly and in accordance California Health and Safety Code Section 7050.5(b).

Mitigation Measures

MM 3.5.1 In accordance with California Public Resources Code Section 5097.5, which prohibits knowing and willful excavation of undiscovered cultural resources without permission from the appropriate public agency with jurisdiction over the lands, and in order to mitigate for the potential discovery of archaeological or paleontological resources, the following measure will be implemented during construction and included in the construction contract:

> If buried archaeological and/or paleontological resources, such as chipped or ground stone, historic debris, building foundations, human bone, or fossils, are inadvertently discovered during ground-disturbing activities, work will stop in that area and within 100 feet of the find until a qualified archaeologist can assess the significance of the find and, if necessary, develop appropriate treatment measures in consultation with the City and all other appropriate agencies.

Timing/Implementation: *Throughout Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.5.2 In order to mitigate for the potential discovery or disturbance of any human remains, the protocol of California Health and Safety Code Section 7050.5(b) will be adhered to as follows:

> In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) or Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner, and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.

If the remains are determined to be Native American, City policy dictates that the procedures outlined in CEQA Section 15064.5(d) and (e) be followed.

Timing/Implementation: *Throughout Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.6. GEOLOGY AND SOILS. Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☐	☒
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 risks to life or property?	☐	☐	☒	☐
e) 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 wastewater?	☐	☐	☐	☒

ENVIRONMENTAL SETTING

Regional Geology

Elk Grove is located within the Great Valley geomorphic province, which is primarily described as a relatively flat alluvial plain, about 50 miles wide and 400 miles long, with thick sequences of sedimentary deposits of Jurassic through Holocene age. The Great 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 Range.

Topography

The Project area is located in the Sacramento Valley, which is primarily flat land with no hills or valleys. The Project site is located in an area of relatively level terrain with elevations ranging

between approximately 38 feet and 47 feet above mean sea level. Laguna Creek flows west through the northern portion of the Project site. The creek channel creates a naturally formed depression in the landscape where it flows.

Faults and Seismicity

No known active faults or Alquist-Priolo earthquake hazard zones occur in the City, although several inactive subsurface faults are identified in the Delta. According to the Fault Activity Map of California, the nearest faults to the City with activity within the last 200 years are the Concord, Hayward, and Cleveland Hill faults (CGS 2010). The closest known fault to the City is the Willows fault zone, located approximately 10 miles to the north. The Safety Element of the Sacramento County General Plan (2011) identifies two major subsurface fault zones on the eastern and western sides of the City. The Midland fault zone is located approximately 20 miles west, while the Bear Mountain fault zone is located approximately 20 miles east. The closest known active subsurface fault is the Dunnigan Hills fault, located approximately 25 miles northwest of the City.

Ground Shaking

In populated areas, the greatest potential for loss of life and property damage is a result of ground shaking from a nearby earthquake. Because the Project site is not located in an area near any active faults or fault zones, the potential for ground shaking in the immediate area is diminished. However, major seismic events occurring in adjacent areas, especially the San Francisco Bay Area, could cause the Project site to experience ground shaking activity.

Liquefaction

Liquefaction is the loss of soil strength due to seismic forces generating various types of ground failure. The potential for liquefaction must account for soil types and density, the groundwater table, and the duration and intensity of ground shaking.

Soils

According to the Web Soil Survey provided by the US Department of Agriculture, Natural Resources Conservation Service, soil types within the Project area include Bruella sandy loam (0 to 2 percent slopes), San Joaquin silt loam (0 to 3 percent slopes), and San Joaquin silt loam, leveled (0 to 1 percent slopes). Soils within the Project area are generally well drained to moderately well drained and more than 80 inches above the water table (NRCS 2006).

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. No known active faults or Alquist-Priolo earthquake hazard zones occur in the vicinity of the Project site. Therefore, the Project would have no impact associated with fault rupture hazards.

ii) Strong seismic ground shaking?

Less Than Significant Impact. The Project site is not located within an Alquist-Priolo earthquake hazard zone; however, major seismic events occurring in adjacent areas, especially the San Francisco Bay Area, could cause the Project area to experience ground-shaking activity. The proposed Project would involve construction of a bridge/weir crossing at Camden Lake and extension of the Laguna Creek Trail from the northern end of Camden Park to Bond Road. The proposed Project will not result in the development of habitable structures or other development that would typically cause an increase in population which could be adversely affected by seismic ground shaking. The Project would be constructed in accordance with the multi-use trail standards and guidelines set forth in the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan. Therefore, impacts are considered to be less than significant.

iii) Seismic-related ground failure, including liquefaction?

No Impact. Liquefaction is most likely to occur in deposits of water-saturated alluvium or similar deposits of artificial fill. The Project site is underlain by Bruella sandy loam, San Joaquin silt loam, and San Joaquin silt loam, leveled, which are well drained to moderately well drained soils (NRCS 2006). Elk Grove is not in an area of Sacramento County known to be susceptible to liquefaction. Additionally, the depth to the groundwater table at the Project site is approximately 70 to 85 feet below the ground surface (City of Elk Grove 2003b). Therefore, no impact would occur.

iv) Landslides?

No Impact. The Project site and surrounding area are relatively flat. The possibility of a landslide is unlikely, as there are no topographical features in the vicinity of the Project site that would create a risk of exposure to landslide. No impact would occur.

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

Less Than Significant Impact. Construction of the proposed Project would involve minimal grading at the northern end of Camden Park to Bond Road for installation of a bridge/weir crossing at Camden Lake and extension of the Laguna Creek Trail. Construction activities may result in short-term wind-driven erosion of soils. The City's Land Grading and Erosion Control Chapter 16.44 establishes procedures to minimize erosion and sedimentation during construction activities. The Regional Water Quality Control Board (RWQCB) requires that a National Pollutant Discharge Elimination System (NPDES) construction activity permit be issued prior to construction. The permit requires the City to impose water quality and watershed protection measures for all development projects, including erosion control. Compliance with Elk Grove Municipal Code Chapter 16.44 would reduce impacts associated with soil erosion to 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 Impact. The Project area is relatively flat and therefore landslides are not anticipated. The depth to groundwater at the Project site is approximately 70 to 85 feet below ground surface, and Elk Grove is not in an area of Sacramento County known to be susceptible to liquefaction, lateral spreading, subsidence, or collapse. The Project site is underlain by Bruella sandy loam, San Joaquin silt loam, and San Joaquin silt loam, leveled, which are well drained to moderately well drained soils. This base geological condition does not contribute to structure failures such as subsidence or lateral spreading. Impacts would be less than significant.

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 Impact. Expansive soils are typically those with high clay contents. Minerals in certain clays swell with increased moisture and contract during dry periods. According to the Web Soil Survey provided by the Natural Resources Conservation Service, the Project site is underlain by Bruella sandy loam, San Joaquin silt loam, and San Joaquin silt loam, leveled. Typically, sandy loam soils have less than 20 percent clay content and silt loam soils have less than 30 percent clay content. The San Joaquin soils group contains approximately 5 inches of claypan in the subsoil, which causes a high shrink swell-potential. Properly designed foundations, buildings, roads, and paved surfaces can help to prevent potential damage caused by expansive soils. Construction and design of the proposed Project would be designed with grades constructed to help prevent water from collecting on or adjacent to pavements, thereby discouraging soil saturation adjacent to the trail and proposed facilities including the bridge/weir crossing, park benches, trash receptacles, dog waste bag containers, and biologic educational signs. Therefore, impacts would be less than significant.

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 wastewater?*

No Impact. The proposed Project would not use or construct septic tanks or alternative wastewater disposal systems. No impact would occur.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.7. 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 any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☐	☒

ENVIRONMENTAL SETTING

The earth's climate has been warming for the past century. It is believed that this warming trend is related to the release of certain gases into the atmosphere. The greenhouse gases (GHGs) include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and hydrofluorocarbons. GHGs absorb infrared energy that would otherwise escape from the earth. As the infrared energy is absorbed, the air surrounding the earth is heated. An overall warming trend has been recorded since the late nineteenth century, with the most rapid warming occurring over the past two decades.

Human activities have contributed to an increase in the atmospheric abundance of GHGs. There are uncertainties as to exactly what the climate changes will be in various local areas of the earth, and what the effects of clouds will have in determining the rate at which the mean temperature will increase. There are also uncertainties associated with the magnitude and timing of other consequences of a warmer planet: sea level rise, spread of certain diseases out of their usual geographic range, the effect on agricultural production, water supply, sustainability of ecosystems, increased strength and frequency of storms, extreme heat events, air pollution episodes, and the consequence of these effects on the economy (CARB 2004).

REGULATORY SETTING

The State of California has been studying the impacts of climate change since 1988, when AB 4420 was approved. This legislation directed the California Energy Commission (CEC), in consultation with CARB and other agencies, to study the implications of global warming on California's environment, economy, and water supply. The CEC was also directed to prepare and maintain the State's inventory of GHG emissions. That bill directed CARB to adopt regulations to achieve the maximum feasible and cost-effective reduction of greenhouse gas emissions from motor vehicles. CARB staff's proposal implementing these regulations was approved by CARB in September 2004. With implementation, the average reduction of greenhouse gases from new California cars and light trucks will be about 30 percent by 2016 (CARB 2013).

In 2006, California adopted AB 32, the Global Warming Solutions Act. AB 32 codifies the State's goal by requiring that California's global warming emissions be reduced to 1990 levels by 2020. This reduction will be accomplished through an enforceable statewide cap on global warming emissions that was phased in starting in 2012. In order to effectively implement the cap, AB 32

directs CARB to develop appropriate regulations and establish a mandatory reporting system to track and monitor global warming emissions levels.

The SMAQMD adopted significance thresholds for GHG emissions on October 23, 2014. The SMAQMD greenhouse gas significance thresholds are 1,100 metric tons of carbon dioxide equivalent per year for the construction and operational phases of projects and 10,000 direct metric tons of carbon dioxide equivalent per year for stationary source projects. The Sacramento County Climate Action Plan, adopted November 9, 2011, and the City of Elk Grove Climate Action Plan, adopted March 27, 2013, do not identify thresholds of significance for GHG emissions.

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 Impact. The proposed Project does not involve construction of a new roadway or improvements to an existing roadway, nor would it affect local motorized vehicle traffic patterns. The Project does not include the operation of any major stationary sources of emissions. Furthermore, the proposed Project consists of construction of a bridge/weir crossing at Camden Lake and extension of an existing multi-use trail from the northern end of Camden Park to Bond Road. Extension of this off-street multi-use trail has the potential to result in overall beneficial air quality impacts and reduction of greenhouse gases, as it improves bicycle and pedestrian access between residential and commercial areas and schools, potentially helping to reduce the use of motor vehicles. Increases in GHG emissions would occur during the construction period due to the use of construction equipment and worker trips to the Project site. Once the Project is implemented, there will be no resultant increases in automobile trips to the area because the multi-use trail will not require daily visits and will only be used by bicyclists and pedestrians. Construction-generated emissions are temporary, intermittent, and limited to the construction period. Therefore, impacts are considered less than significant.

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

No Impact. The proposed Project involves construction of a bridge/weir crossing at Camden Lake and extension of the Laguna Creek Trail as a multi-use trail from the northern end of Camden Park to Bond Road. The proposed Project would contribute to the continuity of the off-street multi-use trail system in the City and encourage the use of alternative modes of transportation. The Project could potentially reduce the use of personal motor vehicles in the City, which is often the largest single source of greenhouse gas pollution, as it will improve bicycle and pedestrian access between residential and commercial areas and schools. Therefore, by its nature, the Project is consistent with applicable plans, policies, and regulations adopted for the purpose of reducing greenhouse gas emissions. No impact would occur.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.8. 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 area or, where such a plan has not been adopted, within 2 miles of a public airport or a public use airport, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
g) Impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
h) 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?	☐	☐	☒	☐

ENVIRONMENTAL SETTING

An Initial Site Assessment (ISA) was prepared for the proposed Project in January 2015 (included in **Appendix C**). The Project site is located in Elk Grove in Sacramento County. No known hazardous waste or materials sites exist in the Project vicinity (City of Elk Grove 2003b). According to the California Department of Toxic Substances Control EnviroStor database search results, no hazardous material or hazardous waste sites exist in the Project vicinity (DTSC 2015b). Skyranch Airport, a privately owned, publicly used airport, is located approximately 3.5 miles southeast of the Project site; however, this facility is no longer in operation. Borges-Clarksburg Airport is a private-use airport located approximately 6.75 miles northwest of the proposed Project site.

REGULATORY SETTING

A material is considered hazardous if it appears on a list of hazardous materials prepared by a federal, state, or local agency, or if it has characteristics defined as hazardous by such an agency. A hazardous material is defined in Title 22 of the California Code of Regulations (CCR) as follows:

> *A substance or combination of substances which, because of its quantity, concentration, or physical, chemical or infectious characteristics, may either (1) cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (2) pose a substantial present or potential hazard to human health or environment when improperly treated, stored, transported or disposed of or otherwise managed* (CCR, Title 22, Section 66260.10).

Chemical and physical properties that cause a substance to be considered hazardous, including the properties of toxicity, ignitability, corrosivity, and reactivity, are defined in the CCR, Title 22, Sections 66261.20–66261.24. Factors that influence the health effects of exposure to hazardous material include the dose to which the person is exposed, the frequency of exposure, the exposure pathway, and individual susceptibility. In addition, the release of hazardous materials into the environment could potentially contaminate soils, surface water, and groundwater supplies.

Under Government Code Section 65962.5, the California Department of Toxic Substances Control (DTSC) maintains a list of hazardous substance sites. This list, referred to as the Cortese List, includes CALSITE hazardous material sites, sites with leaking underground storage tanks, and landfills with evidence of groundwater contamination. In addition, the Sacramento County Environmental Management Department (SCEMD) maintains records of toxic or hazardous material incidents, and the RWQCB keeps files on hazardous material sites.

Most hazardous materials regulation and enforcement in Sacramento County, and therefore in Elk Grove, is managed and overseen by the SCEMD, which refers large cases of hazardous materials contamination or violations to the Central Valley RWQCB and the DTSC. It is not at all uncommon for other agencies such as the SMAQMD and both the federal and California Occupational Safety and Health Administrations (OSHA) to become involved when issues related to hazardous materials arise.

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 Impact. The proposed Project would not include the routine transport, use, or disposal of hazardous materials that would create a significant hazard to the public. Small amounts of hazardous materials would be used during construction (i.e., equipment maintenance, fuel, solvents, etc.). Any use of hazardous materials would be in compliance with applicable local, State, and federal standards associated with the handling of hazardous materials. Therefore, impacts would be less than significant.

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 Impact With Mitigation Incorporated. Once construction is finished, the proposed Project would not create a significant hazard to the public or the environment. No refueling or major maintenance of construction equipment will be performed on location, and no heavy equipment or hazardous materials will be staged on-site. The use and handling of hazardous materials during construction activities would occur in accordance with applicable federal, State, and local laws, including California Occupational Health and Safety Administration (Cal/OSHA) requirements. These actions would minimize the potential and extent of any minor spill.

The proposed Project would extend an existing multi-use trail and construct a bridge/weir crossing at Camden Lake. A site reconnaissance survey was performed on October 21, 2014, during the preparation of the ISA for the proposed Project. The ISA concluded that there was no evidence of a hazardous waste impact observed at the time of the site reconnaissance survey. A review of historical topographic maps for the Project area did not identify any on- or off-site features that would suggest a potential hazardous waste impact to the Project site. According to the ISA, the Sacramento-Yolo Mosquito and Vector Control District property and the associated fish ponds east of the Project site are not considered a potential hazardous waste impact to the Project site. Groundwater is not anticipated to be encountered during Project construction, as the depth to groundwater at the Project site is approximately 70 to 85 feet below ground surface. Furthermore, it is not anticipated that impacted soil will be encountered during construction of the proposed Project. Implementation of mitigation measures **MM 3.8-1** and **MM 3.8-2** would further reduce impacts to less than significant.

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?*

No Impact. The nearest school to the Project site is Ellen Feickert Elementary School, located approximately 0.4 mile south of the Project site. There are no existing or proposed preschools, elementary, middle, or high schools within one-quarter mile of the Project site; therefore, there would be no impact related to hazardous emissions, materials, substances, or waste near schools.

d) *Would the project be located on a site that 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?*

No Impact. The provisions in Government Code Section 65962.5 are commonly referred to as the Cortese List. An online search of the Cortese List conducted on March 5, 2015, found no records within or adjacent to the Project site. No impact would occur.

e) *For a project located within an airport land use plan area or, where such a plan has not been adopted, within 2 miles of a public airport or a 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/airstrip to the Project site is Borges-Clarksburg Airport, located approximately 6.75 miles northwest of the Project site. The Project site is located approximately 3.5 miles northwest of Sunset Skyranch Airport; however, this airport is closed. Furthermore, the proposed Project would not result in a safety hazard associated with airports for people residing or working in the Project area since it is not located within 2 miles of a public airport or public use airport or in an airport land use plan. The proposed Project does not include any structures or equipment that would obstruct navigable airspace. No impact would occur.

f) *For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?*

No Impact. The Project site is not located in the vicinity of any private airstrips. Therefore, the Project would not result in any safety hazards for people residing or working in the Project area, and no impact would occur.

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

No Impact. Upon incorporation, the City adopted the Sacramento County Multi-Hazard Disaster Plan, which was established to address planned response to extraordinary emergency situations associated with natural disasters and technological incidents. The proposed Project consists of extension of the Laguna Creek Trail from the northern end of Camden Park to Bond Road and construction of a bridge/weir crossing at Camden Lake. The Project would not impede or conflict with the objectives or policies of the Multi-Hazard Disaster Plan. No road closures or traffic detours would be required during Project construction. Implementation of the proposed Project would provide an additional route for emergency vehicles through the Project area, if necessary. No impact would occur.

h) *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 Impact. The proposed Project consists of the extension of an existing multi-use trail and construction of a bridge/weir crossing at Camden Lake. The Project site is surrounded by parks and open space, public/quasi-public open space, agricultural, commercial, and residential land uses. The Project would not result in new development that would induce population growth. Emergency access would be maintained throughout construction. In the event of a fire, the Cosumnes Community Services District Fire Department would provide fire and emergency services to the Project area. Therefore, impacts would be less than significant.

Mitigation Measures

MM 3.8.1 If impacted soil (as evidenced by staining and/or odors) is encountered during construction activities, the Caltrans Unknown Hazard Procedures shall be implemented during construction activities. The resident engineer overseeing construction shall have available field monitoring equipment (e.g., PID) to facilitate timely detection of potentially hazardous conditions in the field.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.8.2 If groundwater is encountered during construction/excavation activities and dewatering becomes necessary, regulatory compliance and permitting consistent with the Central Valley Regional Water Quality Control Board and National Pollutant Discharge Elimination System requirements shall be adhered to, and groundwater sampling shall be conducted.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.9. HYDROLOGY AND WATER QUALITY. Would the project:					
a)	Violate any water quality standards or waste discharge requirements?	☐	☒	☐	☐
b)	Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	☐	☐	☒	☐
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	☐	☐	☒	☐
d)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?	☐	☐	☒	☐
e)	Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☒	☐	☐
f)	Otherwise substantially degrade water quality?	☐	☒	☐	☐
g)	Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	☐	☐	☐	☒
h)	Place within a 100-year flood hazard area structures that would impede or redirect flood flows?	☐	☐	☐	☒
i)	Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of a failure of a levee or dam?	☐	☐	☐	☒
j)	Inundation by seiche, tsunami, or mudflow?	☐	☐	☐	☒

ENVIRONMENTAL SETTING

A Water Quality Assessment Memorandum was prepared for the proposed Project in December 2014 and is included in this document as **Appendix D**. A Summary Floodplain Encroachment Report was prepared for the proposed Project in January 2015 and is included in this document as **Appendix E**.

Surface Water

Elk Grove is part of the Sacramento River watershed, a 27,000-square-mile watershed including portions of the Sacramento River and Cosumnes River (City of Elk Grove 2003b). The proposed Project begins just north of Laguna Creek at the north end of Camden Park. Laguna Creek is part of the Morrison Creek Stream Group, is one of the main hydrologic features within the City Planning Area, and is the main creek that flows through Elk Grove. Portions of the creek have been altered by development.

Groundwater

The depth to groundwater at the Project site is estimated at approximately 40 to 50 feet below sea level (approximately 70 to 85 feet below ground surface). General groundwater depth may be influenced by local pumping, rainfall, and irrigation patterns. The proposed Project is underlain by the Sacramento Valley Groundwater Basin and more specifically, by the South American Subbasin. The South American Subbasin is defined by the American River to the north, the Cosumnes and Mokelumne rivers to the south, the Sierra Nevada range to the east, and the Sacramento River to the west.

Floodplain

The City of Elk Grove General Plan EIR (2003b) Planning Area Floodplain Map shows the Project site partially within a 100-year floodplain and adjacent to a 500-year floodplain area, as the Project crosses Laguna Creek and extends north and south of Laguna Creek.

REGULATORY SETTING

The State Water Resources Control Board (SWRCB) and the RWQCB enforce State of California statutes, which are equivalent to or more stringent than the federal statutes. The RWQCBs are responsible for establishing water quality standards and objectives that protect the beneficial uses of various waters. In the Project area, the Central Valley RWQCB is responsible for protecting surface waters and groundwater from both point sources of pollution (i.e., discharge from a pipe, ditch, or other well-defined source), and non-point sources (i.e., diffuse sources with no discernible distinct point of source, often referred to as runoff or polluted runoff from agriculture, urban areas, mining, construction sites, and other sites). The City of Elk Grove has a current National Pollutant Discharge Elimination System (NPDES) General Permit, reissued by the Central Valley RWQCB in 2008, which regulates stormwater discharges associated with construction activities. Preparation of a stormwater pollution prevention plan (SWPPP) would be required for the proposed Project to minimize polluted runoff during construction.

DISCUSSION OF IMPACTS

a) Would the project violate any water quality standards or waste discharge requirements?

Less Than Significant Impact With Mitigation Incorporated.

Construction Water Quality Impacts

The proposed Project involves the construction of an extension of the Laguna Creek Trail from the northern end of Camden Park to Bond Road. The State Water Resources Control Board requires dischargers whose projects disturb 1 or more acres of soil, or

whose projects disturb less than 1 acre but are part of a larger common plan of development that in total disturbs 1 or more acres, to obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity (Construction General Permit 99-08-DWQ). Effective July 1, 2010, all dischargers are required to obtain coverage under the Construction General Permit Order 2009-0009-DWQ adopted September 2, 2009. Construction activity subject to this permit includes clearing, grading, and disturbances to the ground such as stockpiling or excavation.

BMPs will be included in the grading plans to minimize erosion potential and water quality degradation of the Project area in accordance with Elk Grove Municipal Code Title 16, Chapter 16.44, Land Grading and Erosion Control. 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. Additionally, the State has published a set of BMPs for both pre- and post-construction periods, which would be applied to the Project. The City would identify the appropriate BMPs for the proposed Project. Compliance with the provisions of the best management practices and with Elk Grove Municipal Code Chapter 16.44 and implementation of mitigation measures **MM 3.9.1** through **MM 3.9.4** would reduce impacts associated with water quality standards and discharge requirements to a less than significant level by ensuring compliance with the National Pollutant Discharge Elimination System (NPDES) permits and Best Management Practices (BMPs).

Operational Water Quality Impacts

The proposed Project consists of construction of extension of a multi-use trail from the northern end of Camden Park to Bond Road and a bridge/weir crossing at Camden Lake within a Project impact of approximately 0.5 acres. The proposed Project would require relocation of a storm drain inlet, manhole, and two irrigation control valves. Impervious surfaces would be increased within the Project footprint.

b) *Would the project substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?*

Less Than Significant Impact. The proposed Project would result in an increase in impervious surfaces (totaling approximately .21 acres) between the northern end of Camden Park and Bond Road within a Project impact footprint of approximately 0.5 acres. However, impacts to groundwater resources would be minimal. The proposed Project does not contain elements that either add to or draw from groundwater. Additionally, the proposed Project would not be constructed immediately above any pre-existing well, nor would areas known to contain wells be disturbed by construction of the proposed Project. Therefore, impacts to groundwater supplies would be less than significant.

c) *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, in a manner which would result in substantial erosion or siltation on- or off-site?*

Less Than Significant Impact. The proposed Project consists of construction of a multi-use trail between the northern end of Camden Park and Bond Road and construction of a bridge/weir crossing at Camden Lake. The Project would not result in the alteration of a course of a stream or river. Minor loss of vegetation and general disturbance of the soil for construction of the proposed Project would occur between the northern end of Camden Park and Bond Road. Construction of the proposed Project may result in temporary alteration of on-site drainage patterns, which could increase erosion and siltation on- and off-site during wind storm events. Removal of vegetation and soil can accelerate erosion processes within the Project area and increase the potential for sediment to enter Laguna Creek and/or Camden Lake.

The Project would also be subject to Chapter 16.44 of the Elk Grove Municipal Code, Land Grading and Erosion Control, which 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 Elk Grove Municipal Code Chapter 16.44 will reduce impacts associated with erosion and siltation to less than significant.

d) *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 substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?*

Less Than Significant Impact. The proposed Project consists of extension of a multi-use trail from the northern end of Camden Park to Bond Road and construction of a bridge/weir crossing at Camden Lake. The Project is partially located within the 100-year floodplain of Laguna Creek but would not alter the course of the creek or any other stream or river. Construction of the proposed Project may result in temporary alteration of on-site drainage patterns, which could increase result in on- or off-site flooding. The proposed Project would result in an increase in impervious surfaces between the northern end of Camden Park and Bond Road. Any additional stormwater runoff due to a localized increase in impervious surfaces will flow onto adjacent natural or landscaped areas for absorption by vegetation and/or percolation into the ground and will not result in flooding on- or off-site. The existing drainage patterns are not being altered. Therefore, impacts will be reduced to less than significant.

e) *Would the project 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?*

Less Than Significant Impact With Mitigation Incorporated. The proposed Project would result in an increase in approximately .21 acres of impervious surfaces within a Project footprint of approximately 1.27 acres. The quantity of additional runoff generated from the proposed Project would not be substantial and is not expected to contribute to runoff water that would exceed the capacity of existing or planned stormwater drainage systems in the Project vicinity. Compliance with the Elk Grove Municipal Code Chapter 16.44 and implementation of mitigation measures **MM 3.9.1** through **MM 3.9.4**

would reduce impacts associated with runoff by ensuring compliance with the National Pollutant Discharge Elimination System (NPDES) permits and Best Management Practices (BMPs).

f) *Would the project otherwise substantially degrade water quality?*

Less Than Significant Impact With Mitigation Incorporated. Refer to Issue a) above. The proposed Project consists of extension of the Laguna Creek Trail between the northern end of Camden Park and Bond Road and construction of a bridge/weir crossing at Camden Lake within a Project impact footprint of 0.5 acres. The Project site is located north of Laguna Creek but is not anticipated to substantially degrade water quality within the creek and is not anticipated to substantially degrade water quality of groundwater beneath the site. Compliance with the provisions of the NPDES, the SWPPP, and Elk Grove Municipal Code Chapter 16.44 and implementation of mitigation measures **MM 3.9.1** through **MM 3.9.4** would reduce impacts associated with water quality to a less than significant level by ensuring compliance with the National Pollutant Discharge Elimination System (NPDES) permits and Best Management Practices (BMPs).

g) *Would the project place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?*

No Impact. The proposed Project is partially located within the 100-year and 500-year floodplain; however, the Project does not include a housing component. Therefore, no impact would occur.

h) *Would the project place structures within a 100-year flood hazard area that would impede or redirect flood flows?*

No Impact. Portions of the Project site are located in 100-year and 500-year flood hazard areas. However, the proposed Project consists of construction of an extension of a multi-use trail and a bridge/weir crossing at Camden Lake; it does not include construction of any structures that would impede or redirect flood flows. Therefore, no impact would occur.

i) *Would the project expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of a failure of a levee or dam?*

No Impact. The proposed Project consists of construction of an extension of a multi-use trail and a bridge/weir crossing at Camden Lake. The proposed Project does not include any housing or structures and therefore would not expose people or structures to the risks of flooding as a result of a failure of a levee or dam. No impact would occur.

j) *Would the project be subject to inundation by seiche, tsunami, or mudflow?*

No Impact. The Project area is not located near any ocean coast or seiche hazard areas and would not involve the development of residential or other sensitive land uses in or near these areas. Therefore, the proposed Project would not expose people to potential impacts involving seiche or tsunami. No potential for mudflows is anticipated. No impact would occur.

Mitigation Measures

MM 3.9.1 Any dewatering activities during construction would be in compliance with applicable National Pollutant Discharge Elimination System (NPDES) permits and other water quality regulations.

Construction best management practices (BMPs) would be implemented for the Project in adherence with all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. A stormwater pollution prevention plan (SWPPP) may or may not be required for the Project, depending on the area of disturbance. Specific BMPs to be used during construction would be identified as Project design advances and finalized with the approved SWPPP; however, these measures would be designed to accommodate drainage requirements and avoid on- and off-site flooding. If a SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. With implementation of BMPs required for the NPDES Construction General Permit and other applicable water quality regulations (joint NPDES permit for MS4s [NPDES No. CAS082597]), effects from short-term flooding during Project construction would be negligible.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.9.2 Construction BMPs will be implemented for the Project in adherence with all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. An SWPPP may or may not be required for the Project, depending on the area of disturbance. If the Project does require an SWPPP, it will require the contractor to identify the location of the designated staging areas; include specific requirements for equipment fueling, maintenance, and storage processes; and include stormwater BMPs to prevent the release of polluted stormwater into adjacent waterways. If an SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. With adherence to the NPDES requirements and implementation of applicable BMPs, short-term impacts to water quality related to materials discharge will be adequately controlled during construction.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.9.3 BMPs will be implemented for the Project in adherence with all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. Specific BMPs to be used during construction would be identified as Project design advances and finalized in the approved Project SWPPP based on the risk level determined under the NPDES General Construction Permit guidelines, such as stabilized construction entrances and exits, sandbag barriers, gravel bag berms, and fiber rolls to control increased erosion and sedimentation and to prevent construction site runoff from entering adjacent waterways. If an SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. The

General Construction Permit lists the following requirements for Risk Level 2, the most likely risk level for the proposed Project, for minimizing sediment, erosion, and water quality impacts:

- Good site "housekeeping"
- Sediment controls
- Run-on and runoff controls
- Inspection, maintenance, and repair of BMPs
- Numeric action levels
  - Turbidity: 250 Nephelometric Turbidity Units
  - pH: 6.5–8.5
- Rain event action plan
- Effluent monitoring

As part of the NPDES requirements, the contractor will be required to identify and implement BMPs that would ensure no debris or other pollutants from the construction of the multi-use trail and combined bridge/weir crossing structure. Appropriate BMPs would also be incorporated into Project plans to protect worker safety, and applicable hazardous materials regulations pertaining to collection, testing, and disposal of contaminated groundwater would be followed.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.9.4 Treatment BMPs will be implemented as required by NPDES permits to remove pollutants from runoff water. Specific BMPs would be identified as Project design advances and would be identified in final design plans. With implementation of BMPs required by NPDES permits, and with adherence to other applicable water quality regulations, pollutant levels in stormwater runoff would not be expected to exceed applicable water quality standards.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.10. LAND USE AND PLANNING. Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to, the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	☐	☐	☐	☒

ENVIRONMENTAL SETTING

The City of Elk Grove General Plan Land Use Map (2009) designates Commercial (C), Public/Quasi-Public (P/QP), Low Density Residential (LDR), and Public Parks (PP) land uses in the Project vicinity. Zoning in the Project vicinity includes Recreation (O), Residential (RD-4 and RD-5), Agricultural-Residential (AR-5), and Shopping Center (SC) (City of Elk Grove 2015a). The Project is located through and between a public park (Camden Park) and commercial, agricultural, and public land uses. The longest stretch of the Laguna Creek Trail is approximately 2.25 miles long and begins south of the Bond Road/Waterman Road intersection and terminates at the northern end of Camden Park, at which point the proposed Project would extend the trail south to Bond Road. Camden Park includes a portion of the existing Laguna Creek Trail, Camden Lake, and a greenbelt.

REGULATORY SETTING

City of Elk Grove General Plan

The City of Elk Grove General Plan (adopted November 2003 and reflecting amendments through July 2009) is a broad framework for planning the City's future. 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 citizens. All other City codes and standards, including Specific Plans and the Development Code, must be consistent with the General Plan. The General Plan includes policies that relate to the proposed Project. **Table 3.10-1** summarizes these policies.

TABLE 3.10-1
CITY OF ELK GROVE GENERAL PLAN LAND USE CONSISTENCY WITH THE LAGUNA CREEK TRAIL SOUTH CAMDEN SPUR PROJECT

General Plan Policy (as adopted)	Consistent with Project?	Analysis
PTO-1: The City of Elk Grove supports the development, maintenance, and enhancement of parks and trails serving a variety of needs at the neighborhood, area, and citywide level. The City may seek to accomplish the provision of parks and trials in cooperation with the Elk Grove Community Services District.	Yes	The proposed Project would extend the existing trail from Camden Park to a commercial area including California Family Fitness and other commercial facilities on Bond Road.
PTO-7: The trails system in Elk Grove should provide for connectivity, so that all trails are linked to the extent possible for greater use as recreational and travel routes. The following features should be included in the trails system in Elk Grove: • Trails should link residential areas with parks, commercial and office areas, and other destinations. • Trails along major roadways should avoid meanders or other design features which make bicycle use less convenient or safe. • Trails should be located off-street to the extent possible. • Easements such as access roads should be placed in joint use as trails.	Yes	The proposed Project would provide a safe, off-street travel route between Camden Park and California Family Fitness on Bond Road. Additionally, the proposed Project improves connectivity for bicyclists and pedestrians within the City.
PTO-8: The City's desired trails system is shown in Figure PTO-2. Flexibility shall be considered when making decisions on specific trail locations within projects, so long as the trails shown in figure PTO-2 are implemented and other policies (such as connectivity) are incorporated in the trails system.	Yes	The proposed Project will connect to the existing Laguna Creek Trail at the northern end of Camden Park and extend the multi-use trail south to Bond Road as shown in figure PTO-2 of the City of Elk Grove General Plan.
PTO-11: Trails which parallel streams should be primarily located beyond the riparian corridor and wetlands to minimize wildlife impacts and shall be restricted to non-motorized traffic.	Yes	The proposed Project includes a bridge/weir crossing at Camden Lake and will be perpendicular to Laguna Creek.
PTO-12: Trails should be designed with the safety of users and adjacent property owners in mind. To the extent possible, the bicycle trails system should provide safe, off-street options suitable for use by children and less-experienced riders.	Yes	The proposed Project would consider the safety of users and adjacent property owners in its design and would be designed in accordance with the multi-use trail standards and guidelines set forth in the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan.

DISCUSSION OF IMPACTS

a) Would the project physically divide an established community?

No Impact. The Project site extends from the northern end of Camden Park to Bond Road through and between public park, agricultural, commercial, and public/quasi-public land uses. The proposed Project would extend the existing Laguna Creek Trail and construct a bridge/weir crossing at Camden Lake; it would not physically divide an

established community. No barriers to movement through communities would be installed. Furthermore, the Project would improve the off-street multi-use trail connectivity in the area. 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?*

No Impact. The proposed Project would construct a multi-use trail from the terminus of the existing Laguna Creek Trail at the northern end of Camden Park to Bond Road. The proposed Project is consistent with the City of Elk Grove General Plan and the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan, which identify the need for an off-street multi-use trail system providing connections throughout the City. The proposed Project is listed with the highest priority in the Priority Elk Grove Trail Projects list included in the Bicycle, Pedestrian, and Trails Master Plan. Therefore, no impact would occur.

c) *Would the project conflict with any applicable habitat conservation plan or natural community conservation plan?*

No Impact. Currently, no habitat conservation plans or natural community conservation plans are in place in the Project region. The South Sacramento Habitat Conservation Plan is a planned conservation plan that will cover the City of Elk Grove, including the Project location. However, no habitat conservation plans or natural community plans applicable to the Project area have been adopted. Therefore, no impact would occur.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.11. 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

The Surface Mining and Reclamation Act of 1975 requires the State Geologist to inventory and classify selected mineral resources in California. The proposed Project site is located in an area of Elk Grove that is covered by the MRZ-3 classification for mineral resources. The MRZ-3 classification covers areas "containing aggregate deposits, the significance of which cannot be evaluated from available data" (City of Elk Grove 2003b). No mineral extraction activities occur in the vicinity of the Project site. None of the roadways in the vicinity of the Project site serve as routes for traffic involved in mineral extraction activities.

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. The proposed Project would not result in the use or extraction of any mineral or energy resources and would not restrict access to known mineral resource areas. Furthermore, the proposed Project would not result in the loss of availability of a known mineral resource. Therefore, no impact would occur.

b) *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. Refer to Issue a) above. The proposed Project would have no impact on mineral resources. No impact would occur.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.12. NOISE. Would the project result in:				
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance or of applicable standards of other agencies?	☐	☒	☐	☐
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	☐	☒	☐	☐
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	☐	☐	☐	☒
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	☐	☒	☐	☐
e) For a project located within an airport land use plan area or, where such a plan has not been adopted, within 2 miles of a public airport or a public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

ENVIRONMENTAL SETTING

Noise-sensitive land uses generally include those uses where exposure to noise would result in adverse effects, as well as uses where quiet is an essential element of their intended purpose. The City's General Plan does not define noise-sensitive land uses, but typical noise-sensitive land uses include receptors such as residences, parks, schools, and/or hospitals. The Project site is located between parks, public/quasi-public, agricultural, and commercial land uses, and residential land uses are in the Project vicinity. Motor vehicle traffic along Bond Road is the primary contributor to the existing noise environment at the southern end of the Project site. Noise-sensitive land uses located near the proposed Project include Camden Park and residential developments north, east, and south of the Project site.

Acoustic Fundamentals

Sound is mechanical energy transmitted through a medium (air) in the form of a wave from a disturbance or vibration. Noise, however, is generally defined as sound that is loud, unpleasant, unexpected, or disagreeable.

Amplitude

Amplitude is the difference between ambient air pressure and the peak pressure of the sound wave. Amplitude is measured in decibels (dB) on a logarithmic scale. For example, a 10 dB sound is 10 times the pressure difference of a 0 dB sound; a 20 dB sound is 100 times the pressure difference of a 0 dB sound. Another feature of the decibel scale is the way in which sound

amplitudes from multiple sources are added together. A 65 dB source of sound, such as a truck, when joined by another 65 dB source results in a sound amplitude of 68 dB, not 130 dB (i.e., doubling the source strength increases the sound pressure by 3 dB). Amplitude is interpreted by the ear as corresponding to different degrees of loudness. Laboratory measurements correlate a 10 dB increase in amplitude with a perceived doubling of loudness and establish a 3 dB change in amplitude as the minimum audible difference perceptible to the average person.

Frequency

Frequency is the number of fluctuations of the pressure wave per second. The unit of frequency is the Hertz (Hz). One Hz equals one cycle per second. The human ear is not equally sensitive to sound of different frequencies. Sound waves below 16 Hz or above 20,000 Hz cannot be heard at all, and the ear is more sensitive to sound in the higher portion of this range than in the lower. To approximate this sensitivity, environmental sound is usually measured in A-weighted decibels (dBA). On this scale, the normal range of human hearing extends from about 10 dBA to about 140 dBA.

Sound and the Human Ear

Because of the ability of the human ear to detect a wide range of sound pressure fluctuations, sound pressure levels are expressed in logarithmic units called decibels. The sound pressure level in decibels is calculated by taking the log of the ratio between the actual sound pressure and the reference sound pressure squared. The reference sound pressure is considered the absolute hearing threshold.

In addition, because the human ear is not equally sensitive to all sound frequencies, a specific frequency-dependent rating scale was devised to relate noise to human sensitivity. A dBA scale performs this compensation by discriminating against frequencies in a manner approximating the sensitivity of the human ear. The basis for compensation is the faintest sound audible to the average ear at the frequency of maximum sensitivity. This dBA scale has been chosen by most authorities for purposes of environmental noise regulation. **Table 3.12-1** includes examples of A-weighted noise levels from common indoor and outdoor activities.

Unfortunately, there is no completely satisfactory way to measure the subjective effects of noise, or of the corresponding reactions of annoyance and dissatisfaction. This is primarily because of the wide variation in individual thresholds of annoyance, and habituation to noise over differing individual experiences with noise.

Thus, an important way of determining a person's subjective reaction to a new noise is the comparison of it to the existing environment, referred to as the "ambient" environment. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by the hearers. With regard to increases in A-weighted noise level, knowledge of the following relationships will be helpful in understanding this report (EPA 1971):

- Except in carefully controlled laboratory experiments, a change of one dB cannot be perceived by humans.
- Outside of the laboratory, a three dB change is considered a just-perceivable difference.
- A change in level of at least five dB is required before any noticeable change in community response would be expected.
- A 10 dB change is subjectively heard as approximately a doubling in loudness.

TABLE 3.12-1
NOISE ENVIRONMENT

Indoors	A-weighted decibels	Perceived loudness relative to 60 dba		Outdoors
	140	Threshold of Pain	x256	
	130	Deafening	x128	Military Jet Takeoff with Afterburner (at 50 feet)
	120		x64	
Rock Band	110	Uncomfortably Loud	x32	Jet Takeoff at 200 Feet
Inside Subway Train, New York	100		x16	747-100 Takeoff (4 miles from start of roll)
Noisy Cocktail Bar	90	Very Loud	x8	Power Lawnmower (at 50 feet) Ambulance Siren (at 100 feet) 727-200 Takeoff (4 miles from start of roll)
Jet Aircraft Cabin, at Cruise Shouting (at 3 Feet)	80		x4	Diesel Truck, 40 mph (at 50 feet)
Noisy Restaurant Vacuum Cleaner at 3 Feet	70	Moderately Loud	x2	Automobile, 65 mph (at 50 feet) Busy Street (at 50 feet) 757-200 Takeoff (4 miles from start of roll)
Large Business Office Normal Conversation (at 3 Feet)	60		x1	Automobile, 30 mph (at 50 feet)
Quiet Office	50	Moderately Quite	x1/2	Cessna 172 Landing (3,300 feet from runway end)
	40		x1/4	
Quiet Library	30	Very Quiet	x1/8	Quiet Urban Area, Nighttime Quiet Suburban Area, Nighttime
Concert Hall, Background	20		x1/16	Quiet Rural Area, Nighttime
Recording Studio	10	Barely Audible	x1/32	Leaves Rustling
	0	Threshold of Hearing	x1/64	

Sources: Caltrans 2002; Egan 1972; HUD 2009

Negative Effects of Noise on Humans

Negative effects of noise exposure include physical damage to the human auditory system, interference, and disease. Exposure to noise may result in physical damage to the auditory system, which may lead to gradual or traumatic hearing loss. Gradual hearing loss is caused by sustained exposure to moderately high noise levels over a period of time, while traumatic hearing loss is caused by sudden exposure to extremely high noise levels over a short period of time. However, gradual and traumatic hearing loss both may result in permanent hearing damage. In addition, noise may interfere with or interrupt sleep, relaxation, recreation, and communication. Although most interference may be classified as annoying, the inability to hear a warning signal may be considered dangerous. Noise may also be a contributor to diseases associated with stress, such as hypertension, anxiety, and heart disease. The degree to which noise contributes to such diseases is dependent on the noise frequency, bandwidth, level, and exposure time.

Characteristics of Sound Propagation and Attenuation

Noise can be generated by a number of sources, including mobile sources such as automobiles, trucks, and airplanes, and stationary sources such as construction sites, machinery, and industrial operations. Noise generated by mobile sources is typically reduced at a rate between 3.0 and 4.5 dBA per doubling of distance. The rate depends on the ground surface and the number or type of objects between the noise source and the receiver. Hard and flat surfaces, such as concrete or asphalt, have an attenuation rate of 3.0 dBA per doubling of distance. Soft surfaces, such as uneven or vegetated terrain, have an attenuation rate of about 4.5 dBA per doubling of distance. Noise generated by stationary sources typically attenuates at a rate between 6.0 and about 7.5 dBA per doubling of distance.

Sound levels can be reduced by placing barriers between the noise source and the receiver. In general, barriers contribute to decreasing noise levels only when the structure breaks the "line of sight" between the source and the receiver. Buildings, concrete walls, and berms can all act as effective noise barriers. Wooden fences or broad areas of dense foliage can also reduce noise, but are less effective than solid barriers.

Noise Descriptors

The selection of a proper noise descriptor for a specific source is dependent upon the spatial and temporal distribution, duration, and fluctuation of the noise. The noise descriptors most often encountered when dealing with traffic, community, and environmental noise are defined below (Caltrans 1998; Lipscomb and Taylor 1978).

- L_{max} (Maximum Noise Level): The maximum instantaneous noise level during a specific period of time.

- L_{min} (Minimum Noise Level): The minimum instantaneous noise level during a specific period of time.

- L_{eq} (Equivalent Noise Level): The energy mean noise level. The instantaneous noise levels during a specific period of time in dBA are converted to relative energy values. From the sum of the relative energy values, an average energy value is calculated, which is then converted back to dBA to determine the L_{eq}.

- L_{dn} (Day-Night Noise Level): The 24-hour L_{eq} with a 10 dBA "penalty" for the noise-sensitive hours between 10 p.m. and 6 a.m. The L_{dn} attempts to account for the fact that noise during this specific period of time is a potential source of disturbance with respect to normal sleeping hours.

- CNEL (Community Noise Equivalent Level): The CNEL is similar to the L_{dn} described above, but with an additional 5 dBA "penalty" for the noise-sensitive hours between 7 p.m. to 10 p.m., which are typically reserved for relaxation, conversation, reading, and television. If using the same 24-hour noise data, the CNEL is typically approximately 0.5 dBA higher than the L_{dn}.

REGULATORY SETTING

Local Plans, Policies, Regulations, and Ordinances

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

City of Elk Grove General Plan

The Noise Element of the City's General Plan (2003a) contains policies designed to protect the community from the harmful and annoying effects of exposure to excessive noise. General Plan policies applicable to the proposed Project are summarized below.

NO-3: Noise created by new proposed non-transportation noise sources shall be mitigated so as not to exceed the noise level standards of Table NO-A as measured immediately within the property line of lands designated for noise-sensitive uses.

> **NO-3-Action 1:** Limit construction activity to the hours of 7 a.m. to 7 p.m. whenever such activity is adjacent to residential uses.
>
> **NO-3-Action 3:** The City shall require that stationary construction equipment and construction staging areas be set back from existing noise-sensitive land uses.

The City's General Plan also includes maximum allowable noise standards for projects affected by non-transportation noise sources. Noise compatibility of proposed development is determined in comparison to these standards. The City's noise standards for projects affected by stationary (i.e., non-transportation) noise sources are as shown in **Table 3.12-2**.

TABLE 3.12-2
PERFORMANCE STANDARDS FOR STATIONARY (NON-TRANSPORTATION) NOISE SOURCES

Source	Noise Level (Hourly L_{eq}, dBA)	
	Daytime (7a.m. to 10 p.m.)	Nighttime (10 p.m. to 7 a.m.)
Part 1: Typical Sources[1]	55	45
Part 2: Sources Which Are Tonal, Impulsive, Repetitive, or Consist Primarily of Speech or Music[2]	50	40

Source: City of Elk Grove 2003a, Noise Element, Table NO-A
Notes:
1. *The standards above will apply generally to noise sources that are not tonal, impulsive, or repetitive in nature. Typical noise sources in this category would include HVAC systems, cooling towers, fans, blowers, etc.*
2. *The standards in Part 2 apply to noises which are tonal in nature, impulsive or repetitive, or which consist primarily of speech or music (e.g., humming sounds, outdoor speaker systems, etc.). Typical noise sources in this category include: pile drivers, drive-through speaker boxes, punch presses, steam valves, and transformer stations.*

These noise level standards in Parts 1 and 2 above do not apply to residential units established in conjunction with industrial or commercial uses (e.g., caretaker dwellings).
The City may impose noise level standards which are more or less restrictive than those specified above based upon determination of existing low or high ambient noise levels.

As depicted in **Table 3.12-2**, the City's maximum acceptable exterior noise standard for residential land uses affected by non-transportation noise sources is 55 dBA L_{eq} during the daytime hours (i.e., 7 a.m. to 10 p.m.) and 45 dBA during the nighttime hours (i.e., 10 p.m. to 7 a.m.). To account for increased annoyance potential, non-transportation sources with tonal, impulsive, or repetitive noise characteristics (i.e., pile driver) are reduced by 5 dBA.

City of Elk Grove Noise Ordinance

Elk Grove Municipal Code Title 6, Chapter 6.32, Noise Control, regulates noise generated by non-transportation sources. Section 6.32.100, Exemptions, restricts construction activities to occur between the hours of 6 a.m. and 8 p.m., Monday through Friday, and between the hours of 7 a.m. and 8 p.m. on Saturday and Sunday.

DISCUSSION OF IMPACTS

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

a) Would the project result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance or of applicable standards of other agencies?

Less Than Significant Impact With Mitigation Incorporated. Construction noise typically occurs intermittently and varies depending on the nature or phase (e.g., land clearing, grading and excavation, etc.) of construction. Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. Typical noise levels for construction equipment are summarized in **Table 3.12-3**.

TABLE 3.12-3
TYPICAL CONSTRUCTION EQUIPMENT NOISE LEVELS

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

Sources: EPA 1971

During construction, noise from equipment would cause short-term localized increases in ambient noise levels. The actual noise levels at any particular location would depend on a variety of factors, including the type of construction equipment or activity involved, distance to the source of the noise, obstacles to noise that exist between the receptor and the source, time of day, and similar factors. Construction of the proposed Project would result in a temporary, periodic increase in ambient noise levels that would exceed City noise standards. While this increase would be temporary, intermittent, and limited to daytime hours, this is considered a significant impact unless mitigation is incorporated. Implementation of mitigation measures **MM 3.12.1** through **MM 3.12.4** will reduce impacts to less than significant by limiting the hours of noise-generating construction operations to daytime hours, locating construction equipment and staging areas away from sensitive land uses, requiring construction equipment to be equipped with noise-reduction intake and exhaust mufflers and engineer shrouds, and prohibiting the idling of motorized construction equipment when not in use.

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

Less Than Significant Impact With Mitigation Incorporated. Construction activities associated with the proposed Project will include construction of a bridge/weir crossing at Camden Lake and a multi-use trail from the northern end of Camden Park to Bond Road. Construction would be temporary and would occur between the hours of 7 a.m. and 7 p.m. in accordance with the City's General Plan, as specified in mitigation measure **MM 3.12.1**. No pile driving or other activities commonly associated with vibration would occur. Implementation of mitigation measures **MM 3.12.1** through **MM 3.12.4** would reduce impacts to less than significant.

c) *Would the project result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?*

No Impact. The proposed Project would construct a bridge/weir crossing at Camden Lake and a multi-use trail from the northern end of Camden Park to Bond Road. Due to the nature of the proposed Project as a multi-use trail, implementation of the Project would not result in a substantial permanent increase in ambient noise levels once in operation.

d) *Would the project result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?*

Less Than Significant Impact With Mitigation Incorporated. The proposed Project would result in an increase in ambient noise levels in the Project vicinity during construction due to construction activities and equipment at the Project site. However, this increase would be temporary, intermittent, and limited to daytime hours. Because the Project site is located along Camden Park and near residences, which can be considered sensitive land uses, temporary construction noise is considered potentially significant unless mitigation is incorporated. Implementation of mitigation measures **MM 3.12.1** through **MM 3.12.4** will reduce short-term construction-related noise impacts to less than significant by limiting the hours of noise-generating construction operations to daytime hours, locating construction equipment and staging areas away from sensitive land uses, requiring construction equipment to be equipped with noise-reduction intake and exhaust mufflers and engineer shrouds, and prohibiting the idling of motorized construction equipment when not in use.

e) *For a project located within an airport land use plan area or, where such a plan has not been adopted, within 2 miles of a public airport or a public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

No Impact. The proposed Project is not located in an airport land use plan or within 2 miles of a public airport. No impact would occur.

f) *For a project located within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?*

No Impact. The proposed Project is not located in the vicinity of a private airstrip. No impact would occur.

Mitigation Measures

MM 3.12.1 Noise-generating construction operations shall be limited to between the hours of 7 a.m. and 7 p.m. in accordance with Elk Grove General Plan Noise Policy NO-3-Action-1.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.12.2 Construction equipment and equipment staging areas shall be located at the farthest distance possible from adjacent sensitive land uses.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.12.3 Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturer recommendations. Equipment engine shrouds shall be closed during equipment operation.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.12.4 When not in use, motorized construction equipment shall not be left idling.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.13. POPULATION AND HOUSING. Would the project:				
a) Induce substantial population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

ENVIRONMENTAL SETTING

In the 10 years prior to the incorporation of the City of Elk Grove in July 2000, the population increased by 70.5 percent, which is equivalent to a 7 percent average annual increase. The City began to rapidly develop as a result of an increase in jobs in the Sacramento region and the availability of land outside the downtown Sacramento area. According to the California Department of Finance, the population of Elk Grove was approximately 160,688 in 2014, which is a 1.2 percent increase from the previous year (DOF 2014). Several housing developments are planned in the City. West of the Project site, an area of land is planned for low-density residential use (City of Elk Grove 2003a). The proposed Project does not involve the addition of new housing or the displacement of existing housing.

DISCUSSION OF IMPACTS

a) *Would the project induce substantial population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?*

No Impact. The proposed Project does not include the construction of new homes or businesses, nor does it include construction of a new roadway or extension of an existing roadway which could potentially induce population growth. Given that the proposed Project involves extension of the existing Laguna Creek Trail and a bridge/weir crossing at Camden Lake, the Project is not anticipated to induce growth. Therefore, no impact would occur.

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

No Impact. No residential structures would be displaced as a result of the proposed Project. No impact would occur.

c) *Would the project displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?*

No Impact. As discussed in Issue b) above, the proposed Project would not involve the removal or relocation of any housing. The proposed Project would not displace any people or necessitate the construction of any replacement housing. Therefore, no impact would occur.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.14. PUBLIC SERVICES. 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:				
a) Fire protection?	☐	☐	☐	☒
b) Police protection?	☐	☐	☐	☒
c) Schools?	☐	☐	☐	☒
d) Parks?	☐	☐	☐	☒
e) Other public facilities?	☐	☐	☐	☒

ENVIRONMENTAL SETTING

The proposed Project includes a bridge/weir structure over Camden Lake and an extension of the Laguna Creek Trail from the northern end of Camden Park to Bond Road. The City of Elk Grove receives general public safety and law enforcement services from the City Police Department. The Cosumnes Community Services District Fire Department provides fire protection and emergency services to the City. The Elk Grove United School District provides educational services to the area in the Project vicinity. Additionally, the City provides maintenance of public facilities, including those intended for bicyclist and pedestrian use.

DISCUSSION OF IMPACTS

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:

a–e) Fire protection, police protection, schools, parks, other public facilities?

No Impact. The proposed Project would extend the Laguna Creek Trail from the northern end of Camden Park to Bond Road. The proposed Project would improve pedestrian and bicycle access between residential and commercial and schools, but it does not include new development for habitation nor does it include the development of new businesses. Therefore, the proposed Project would not induce population growth and furthermore, it does not include any components that would result in an increased demand for fire protection, police protection, schools, parks, or other public services. Establishment of additional facilities to maintain acceptable service levels would not be necessary. Therefore, no impact would occur.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.15. 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

The City's General Plan (2003a) contains goals and policies established to conserve existing national, State, and regional recreational areas, as well as encourages 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 (2014) includes goals that encourage an exceptional public parks network through the City and public use of all available pedestrian and bicycle trails. The proposed Project is listed with the highest priority in the Priority Elk Grove Trail Projects list included in the Bicycle, Pedestrian, and Trails Master Plan. The proposed Project involves the extension of a recreational trail (Laguna Creek Trail) from the northern end of Camden Park to Bond Road. Camden Park is approximately 21.4 acres and includes Camden Lake, a greenbelt, and a portion of the Laguna Creek Trail, which is used for activities such as horseback riding, bicycling, jogging, and walking.

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?*

Less Than Significant Impact. The proposed Project would extend the Laguna Creek Trail from the northern tip of Camden Park to Bond Road. The proposed multi-use trail will improve pedestrian and bicycle access between residential and commercial areas and schools, potentially increasing the accessibility of Camden Park for nearby residents. However, residents already have access to Camden Park under existing conditions via the existing Laguna Creek Trail. Therefore, substantial physical deterioration of Camden Park and other recreational facilities is not expected to result from the proposed Project. Although the Project involves extension of a multi-use trail which would provide recreational opportunities, it does not include a residential or commercial component that would increase human presence in the area which could result in increased use of existing parks or recreational facilities. Therefore, impacts are considered less than significant.

b) *Does the project include recreational facilities or require the construction or expansion of existing facilities which might have an adverse physical effect on the environment?*

Less Than Significant Impact. The proposed Project involves construction of a bridge/weir crossing at Camden Lake and an extension of the Laguna Creek Trail from the northern end of Camden Park to Bond Road. Although, the Project includes construction of a multi-use trail, it does not require construction or expansion of existing facilities beyond what is being proposed. Furthermore, the proposed Project is consistent with the City of Elk Grove General Plan and the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan, which identify the need for an off-street multi-use trail system providing connections throughout the City. The proposed Project is listed with the highest priority in the Priority Elk Grove Trail Projects list included in the list of projects in the City of Elk Grove Bicycle, Pedestrian, and Trials Master Plan. The proposed improvements will not impact the usability of the trail during construction, as there is currently no bicycle or pedestrian traffic at this due to the termination of the trail approximately 100' beyond the improvement site. The proposed project does not anticipate any permanent or adverse physical impacts; therefore, impacts are considered less than significant.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.16. TRANSPORTATION/TRAFFIC. Would the project:				
a) Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	☐	☐	☐	☒
b) Conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	☐	☐	☐	☒
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	☐	☐	☐	☒
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☐	☒
e) Result in inadequate emergency access?	☐	☐	☐	☒
f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	☐	☐	☐	☒

ENVIRONMENTAL SETTING

The proposed Project would extend the Laguna Creek Trail from the northern end of Camden Park to Bond Road as a Class I facility. The Laguna Creek Trail is currently split into three segments. The longest segment of the trail is approximately 2.25 miles long and extends from an equestrian staging area south of the Bond Road/Waterman Road intersection to the northern end of Camden Park, where the proposed extension of the trail would begin. The proposed Project does not involve construction on or improvements to roadways.

DISCUSSION OF IMPACTS

a) Would the project conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and

relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

No Impact. The proposed Project does not involve construction of a new roadway or significant physical alteration of an existing roadway. The proposed Project includes the extension of an existing multi-use trail, which will contribute to the continuity of the off-street multi-use trail system in the City and encourage the use of alternative modes of transportation between residential, recreational, and commercial areas. Therefore, no impact would occur.

b) *Would the project conflict with an applicable congestion management program including but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?*

No Impact. The proposed Project does not involve construction of a new roadway or significant physical alteration of an existing roadway. The proposed Project involves the extension of an off-street multi-use trail, which would improve the continuity of the trail system within the City and improve bicycle and pedestrian access to residential, recreational, and commercial areas and schools. Therefore, the proposed Project would have no impact on an established level of service standard.

c) *Would the project result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?*

No Impact. The proposed Project involves construction of an off-street, multi-use trail. The Project does not include any structures that would impede a height limitation in close proximity to an airport. The proposed Project would not result in a change in air traffic patterns and no impact would occur.

d) *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 proposed Project would be designed in accordance with the multi-use trail standards and guidelines set forth in the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan. Trail design and maintenance will provide for trail safety and security. The proposed trail would not create physical entrapment areas, would allow trail user defensible space, and would provide adequate site distance for trail users. No impact would occur.

e) *Would the project result in inadequate emergency access?*

No Impact. Construction activities associated with the proposed Project would be off-street. Off-street construction activities are not expected to interfere with emergency access on local roadways. Trail design would be consistent with the multi-use trail standards and guidelines provided in the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan (i.e., minimum tread width is 10 feet of paved trail) so that upon completion of construction, emergency vehicles would be able to use the trail in the event of an emergency. Therefore, no impact would occur.

f) Would the project conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

No Impact. The proposed Project involves an extension of the Laguna Creek Trail from the northern end of Camden Park to Bond Road and is consistent with the adopted policies, plans, and programs supporting alternative transportation, including the City of Elk Grove General Plan and the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan, which identify the need for an off-street multi-use trail system providing connections throughout the City. The proposed Project is listed with the highest priority in the Priority Elk Grove Trail Projects list included in the City of Elk Grove Bicycle, Pedestrian, and Trials Master Plan. No impact would occur.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.17. UTILITIES AND SERVICE SYSTEMS. Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	☐	☐	☐	☒
b) 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?	☐	☐	☐	☒
c) Require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☒	☐
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	☐	☐	☐	☒
e) Result in a determination by the wastewater treatment provider that 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?	☐	☐	☐	☒
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	☐	☐	☒	☐
g) Comply with federal, state, and local statutes and regulations related to solid waste?	☐	☐	☐	☒

ENVIRONMENTAL SETTING

Water

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

Wastewater Service

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

Solid Waste Service

Solid waste services in Elk Grove are provided by Sacramento County's Department of Waste Management and Recycling. Central Valley Waste Services provides solid waste services to single-family residential customers. Solid waste within the city limits is typically delivered to Sacramento County's Kiefer Landfill, which is the primary municipal solid waste disposal facility in Sacramento County, located at the intersection of Grant Line Road and Kiefer Boulevard. Waste is accepted from the general public, businesses, and private waste haulers.

At present, the Kiefer Road Landfill, which comprises approximately 1,084 acres, is the only landfill within the jurisdiction of Sacramento County that is permitted to accept solid waste for disposal. The maximum tons per day allowed at the Kiefer Road Landfill is 10,815 tpd, with an average intake of 6,362 tons per day. The landfill has a total capacity of 117 million cubic yards (58 million tons). The Kiefer Road Landfill is classified as a major landfill, which is defined as a facility that receives more than 50,000 tons of solid waste per year. The Kiefer Road Landfill has been operating below permitted capacity and is projected to have capacity for about the next 20 to 30 years (City of Elk Grove 2003b).

Electrical, Telephone, and Natural Gas Services

Electrical services within the city limits are provided by the Sacramento Municipal Utility District (SMUD). Telephone services in Elk Grove are provided by Frontier Communications (formerly Citizens Communications) and Pacific Bell. Natural gas services to customers within the city limits are provided by the Pacific Gas and Electric Company (PG&E).

Utility Relocations

Underground and overhead utility relocations are not anticipated for the proposed Project.

DISCUSSION OF IMPACTS

a) *Would the project exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?*

No Impact. The proposed Project consists of construction of a bridge/weir crossing at Camden Lake and extension of the Laguna Creek Trail from the northern end of Camden Park to Bond Road. The Project does not include any uses that would generate wastewater or any components that would result in an increased demand for wastewater treatment. Therefore, the proposed Project would not exceed the wastewater treatment requirements of the Regional Water Quality Control Board and no impact would occur.

b) *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. The proposed Project does not include any uses that would generate wastewater, nor does it include new development for habitation or new businesses. Population growth would not result from the proposed Project that would require or result in construction or expansion of new water or wastewater treatment facilities. No impact would occur.

c) *Would the project require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?*

Less Than Significant Impact. Minor changes in impervious surfaces would occur as a result of constructing the paved multi-use trail from the northern end of Camden Park to Bond Road. The proposed Project is not expected to generate excessive runoff, as the increase in impervious surfaces would be minor within a Project footprint of approximately 1.27 acres. Construction of new stormwater drainage facilities or expansion of existing facilities would not be made necessary by the proposed Project. Impacts would be less than significant.

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

No Impact. No increase in demand for water would occur as a result of the proposed Project. There may be a temporary need for water during construction to control dust; however, the Project is not expected to result in the need for water supply beyond what is currently available and no increase in demand for long-term water supply would be generated. Therefore, no impact would occur.

e) *Would the project result in a determination by the wastewater treatment provider that 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 proposed Project does not include any uses that would generate wastewater. Therefore, the Project would not affect capacity of the local wastewater treatment provider. No impact would occur.

f) *Would the project be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?*

Less Than Significant Impact. Solid waste generated by the proposed Project would be transported to the Kiefer Road Landfill, which has been operating below permitted capacity and is projected to have capacity for about the next 20 to 30 years (City of Elk Grove 2003b). Therefore, impacts would be less than significant.

g) *Would the project comply with federal, state, and local statutes and regulations related to solid waste?*

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

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
3.18. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of rare or endangered plants or animals, 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 that 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 rare or endangered plants or animals, or eliminate important examples of the major periods of California history or prehistory?

Less Than Significant Impact With Mitigation Incorporated. As discussed in subsection 3.4, Biological Resources, of this IS/MND, the Project site is not located within an identified corridor as identified in the CDFW (2014c) BIOS Viewer. Several special-status plant and wildlife species have the potential to occur in the BSA for the Project, including special-status plant species and special status-wildlife species. However, Implementation of mitigation measures **MM 3.4.1** through **MM 3.4.22** (included in subsection 3.4, Biological Resources, of this IS/MND) would reduce impacts to biological resources to a less than significant level. The potential for discovery or disturbance of historical, archaeological or paleontological resources, or human remains is not anticipated. However, implementation of mitigation measures **MM 3.5.1** and **MM 3.5.2** (included in subsection 3.5, Cultural Resources, of this IS/MND) would reduce impacts to a less than significant level. Impacts are considered less than significant with mitigation incorporated.

b) *Does the project have impacts that are individually limited, but cumulatively considerable?*

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

The proposed Project would extend the Laguna Creek Trail from the northern end of Camden Park south to Bond Road and would construct a bridge/weir crossing at Camden Lake. The proposed Project is consistent with the City of Elk Grove General Plan and the City of Elk Grove Bicycle, Pedestrian, and Trails Master Plan. The Project is listed in the City's Bicycle, Pedestrian, and Trails Master Plan, which expresses the City's desire to have a comprehensive off-street multi-use trail system that provides connectivity throughout the City and the wider Sacramento region. The proposed Project would complete a portion of the off-street Laguna Creek Trail system and improve bicycle and pedestrian access in the City. The Project would make no significant contribution to cumulatively adverse impacts associated with existing or proposed development projects in the City, as it would not directly generate vehicle trips. Construction of the proposed Project, along with other construction in the City and in Sacramento County, would contribute to cumulative environmental impacts. However, the proposed Project's contribution would be minimal, and impacts are considered less than cumulatively considerable.

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

Less Than Significant Impact. During operation, the proposed Project would not create a significant hazard to the public or the environment, as it would improve bicycle and pedestrian access between the northern end of Camden Park and Bond Road in Elk Grove. Construction of the proposed Project will result in a temporary, periodic increase in ambient noise levels and GHG emissions. However, because noise and greenhouse gas emission increases during construction will be temporary, intermittent, and limited to daytime hours, this is considered a less than significant impact. Implementation of mitigation measures **MM 3.12.1** through **MM 3.12.4** (included in subsection 3.12, Noise, of this IS/MND) will further reduce impacts to less than significant.

4.0 List of Mitigation Measures

4.1 MITIGATION MEASURES

BIOLOGICAL RESOURCES (SUBSECTION 3.4)

MM 3.4.1 During Project development, the work area shall be reduced to the smallest footprint feasible in sensitive habitat areas.

Timing/Implementation: *During Project development*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.2 Work shall coincide with the driest time. If water is present at the time of construction, water shall be diverted around the work area and work shall resume after the site is dry. Work within the dewatered areas shall be timed with awareness of precipitation forecasts and likely increases in water flows and flood stages. Construction activities within jurisdictional features shall cease prior to storm events until all reasonable erosion control measures have been implemented. Construction equipment and material shall be removed from the floodplain if inundation is likely. Revegetation, restoration, and erosion control work shall not be confined to this time period.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.3 If work in the flowing portion of the creek/ditch is unavoidable, the entire flow shall be diverted around or through the work area during excavation and/or construction operations. Flows shall be diverted using gravity flow through temporary culverts/pipes or pumped around the work site with the use of hoses. When a temporary dam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream to maintain aquatic life below the dam pursuant to FGC Section 5937. Any temporary dam or other artificial obstruction constructed shall only be built from clean materials such as sandbags, gravel bags, water dams, or clean/washed gravel that will cause little or no siltation.

Timing/Implementation: *During Project excavation and construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.4 Prior to initiation of construction activities within jurisdictional features, construction best management practices (BMPs) shall be employed on-site to prevent degradation to on- and off-site waters of the United States. Methods shall include the use of appropriate measures to intercept and capture sediment prior to entering jurisdictional features, as well as erosion control measures along the perimeter of all work areas to prevent the displacement of fill material. All BMPs shall be in place prior to initiation of any construction activities and shall remain until construction activities are completed. All erosion control methods shall be maintained until all on-site soils are stabilized.

Timing/Implementation: *Prior to start of construction within jurisdictional features*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.5 Standard staging area practices for sediment-tracking reduction shall be implemented where necessary and may include vehicle washing and street sweeping.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.6 All exposed/disturbed areas and access points left barren of vegetation as a result of construction activities shall be restored using locally native grass seeds, locally native grass plugs, and/or a mix of quick-growing sterile nonnative grass with locally native grass seeds. Seeded areas shall be covered with broadcast straw and/or jute netted (monofilament erosion blankets are not permitted).

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.7 For the 0.015 acre of Laguna Creek and 0.049 acre of Camden Lake permanently affected by the proposed Project, the City shall replace the affected acreage at a 1:1 ratio (i.e., 1 acre for every 1 acre of impact), or another approved ratio as determined by the USACE. Impacts shall be offset through the dedication of 0.064 shaded riverine aquatic mitigation credit(s) in a USACE-approved mitigation bank or through the payment of in-lieu fees to an approved conservation bank.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.8 For the 0.084 acre of man-made ditch permanently affected by the proposed Project, the City shall replace the affected acreage at a 1:1 ratio, or another approved ratio as determined by the USACE. Impacts may be offset through the restoration and relocation of the ditch within the Project area, through the dedication of mitigation credit(s) in a USACE-approved mitigation bank, or through the payment of in-lieu fees to an approved conservation bank.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.9 Prior to any vegetation removal or ground-disturbing activities, focused surveys shall be conducted to determine whether special-status plants occur within the Project footprint and/or temporary construction zone. If no special-

status plant species are found, the Project will not have any impacts to the species and no additional mitigation measures are necessary.

Timing/Implementation: *Prior to vegetation removal or ground-disturbing activities*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.10 If special-status plant species are located within the Biological Study Area (BSA) but outside the Project footprint, the plants shall be avoided by installing protective fencing and by warning construction personnel of their presence.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.11 A Worker Environmental Awareness Program (WEAP) shall be implemented to educate construction workers about the presence of special-status species and sensitive biological resources in and/or near the Project area and to instruct them on proper avoidance.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.12 If any of the species are found on-site and cannot be avoided, the City shall consult with the USFWS and/or CDFW, as applicable, to determine appropriate mitigation for special-status plants, which may include but is not limited to the following conservation measures.

- Salvage portions of the habitat or plant populations that will be lost as a result of implementation of the proposed Project.
- Transplant the plants that would be adversely affected by the proposed Project for either reestablishment after construction is complete or for planting in a new area, in appropriate habitat.
- Develop a propagation program for the salvage and transfer of rare, threatened, or endangered plant populations from the Project site before the initiation of construction activities.
- Involve qualified biologists in the propagation and transport of rare, threatened, or endangered plant species. (Note: Propagation methods for the salvaged plant population must be developed on a case-by-case basis and must include the involvement of local conservation easements, preserves, and/or open space, where applicable). The propagation and transfer of individual plant species must be performed at the correct time of year and successfully completed before the Project's construction activities eliminate or disturb the plants and habitats of concern.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.13 Protective fencing will be installed between the vernal pool and the construction limits to prevent accidental disturbance and to protect water quality during construction.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.14 A preconstruction survey for western pond turtle shall be conducted within 24 hours of the onset of construction activities adjacent to Laguna Creek and Camden Lake. The survey area shall include a 100-foot buffer of the area to be affected. If juvenile or adult turtles are found within the survey area, the individuals should be moved at least 500 feet downstream in suitable habitat. If a turtle nest is found within the survey area, construction activities shall not take place within 100 feet of the nest until the turtles have hatched or the eggs have been moved to an appropriate location.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.15 If clearing and/or construction activities would occur during the raptor nesting season (January 15–August 15), preconstruction surveys to identify active nests shall be conducted by a qualified biologist within 14 days of construction initiation. Surveys must be performed by a qualified biologist for the purpose of determining presence/absence of active nest sites within the proposed impact area, including construction access routes and a 250-foot buffer (if feasible). If no active nests are found, no further mitigation is required. Surveys shall be repeated if construction activities are delayed or postponed for more than 30 days.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.16 If an active nest (excluding western burrowing owl) is located during preconstruction surveys, construction activities shall be restricted as necessary to avoid disturbance of the nest until it is abandoned or a qualified biologist deems disturbance potential to be minimal. Restrictions may include establishment of exclusion zones (no ingress of personnel or equipment at a minimum radius of 30 meters (100 feet) around an active raptor nest and a 15-meter (50-foot) radius around an active migratory bird nest) or alteration of the construction schedule. Activities permitted within exclusion zones and the size may be adjusted through consultation with the CDFW and/or the City.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.17 Trees containing active migratory bird and/or raptor (excluding Swainson's hawk) nests that must be removed as a result of Project implementation shall be removed during the non-breeding season (September 1–January 1).

Swainson's hawks are State and federally listed as threatened species; therefore, impacts to Swainson's hawk nest trees require regulatory authorization from the CDFW prior to removal.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.18 If no burrowing owls are detected, no further mitigation is required. If active burrowing owls are detected, the City shall implement the avoidance, minimization, and mitigation methodologies outlined in the CDFW's (2012) Staff Report on Burrowing Owl Mitigation prior to initiating Project-related activities that may impact burrowing owls.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.19 The City shall mitigate for the permanent loss of 0.616 acre of Swainson's hawk foraging habitat at a 1:1 ratio. Mitigation will be accomplished through the City of Elk Grove Swainson's Hawk Impact Mitigation Fee (Elk Grove Municipal Code Chapter 16.130).

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.20 Prior to the removal of any buildings or oak trees, a bat survey shall be performed by a qualified biologist between March 1 and July 31. If bat roosts are identified, the City shall require that the bats be safely flushed from the sites where roosting habitat is planned to be removed prior to roosting season (typically May to August) and prior to the onset of construction activities. If maternity roosts are identified during the maternity roosting season (typically May to September), they must remain undisturbed until a qualified biologist has determined the young bats are no longer roosting. If roosting is found to occur on-site, replacement roost habitat (e.g., bat boxes) shall be provided to offset roosting sites removed. If no bat roosts are detected, no further action is required if the trees and buildings are removed prior to the next breeding season. If removal is delayed, an additional survey shall be conducted 30 days prior to removal to ensure that a new colony has not established itself.

Timing/Implementation: *Prior to Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.21 If a female or maternity colony of bats is found on the Project site, and the Project can be constructed without the elimination or disturbance of the roosting colony (e.g., if the colony roosts in a large oak tree not planned for removal), a qualified biologist shall determine what buffer zones shall be employed to ensure the continued success of the colony. Such buffer zones may include a construction-free barrier of 200 feet from the roost and/or the

timing of the construction activities outside of the maternity roost season (after July 31 and before March 1).

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.22 If an active nursery roost is documented on-site and the Project cannot be conducted outside of the maternity roosting season, bats shall be excluded from the site after July 31 and before March 1 to prevent the formation of maternity colonies. Non-breeding bats shall be safely evicted under the direction of a bat specialist.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.23 If a giant garter snake is encountered within the Project work area, construction will cease until the snake has been allowed to move away under its own volition.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.24 Tightly woven erosion control matting (mesh size less than 0.25 inch) or similar material shall be used for erosion control and other purposes at the Project site to ensure that giant garter snakes are not trapped or entangled by the erosion control material. The edge of the material shall be buried in the ground to prevent snakes from crawling underneath the material. The use of plastic, monofilament, jute, or similar erosion control netting with mesh size larger than 0.25 inch that could entangle snakes will be prohibited.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.4.25 A survey shall be conducted for the snake within the Project work area 24 hours prior to the onset of construction and any time activities are halted for more than two weeks thereafter.

Timing/Implementation: *Prior to and during Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

CULTURAL RESOURCES (SUBSECTION 3.5)

MM 3.5.1 In accordance with California Public Resources Code Section 5097.5, which prohibits knowing and willful excavation of undiscovered cultural resources without permission from the appropriate public agency with jurisdiction over the lands, and in order to mitigate for the potential discovery of archaeological or paleontological resources, the following measure will be implemented during construction and included in the construction contract:

If buried archaeological and/or paleontological resources, such as chipped or ground stone, historic debris, building foundations, human bone, or fossils, are inadvertently discovered during ground-disturbing activities, work will stop in that area and within 100 feet of the find until a qualified archaeologist can assess the significance of the find and, if necessary, develop appropriate treatment measures in consultation with the City and all other appropriate agencies.

Timing/Implementation: *Throughout Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.5.2 In order to mitigate for the potential discovery or disturbance of any human remains, the protocol of California Health and Safety Code Section 7050.5(b) will be adhered to as follows:

In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) or Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner, and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.

If the remains are determined to be Native American, City policy dictates that the procedures outlined in CEQA Section 15064.5(d) and (e) be followed.

Timing/Implementation: *Throughout Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

HAZARDS AND HAZARDOUS MATERIALS (SUBSECTION 3.8)

MM 3.8.1 If impacted soil (as evidenced by staining and/or odors) is encountered during construction activities, the Caltrans Unknown Hazard Procedures shall be implemented during construction activities. The resident engineer overseeing construction shall have available field monitoring equipment (e.g., PID) to facilitate timely detection of potentially hazardous conditions in the field.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.8.2 If groundwater is encountered during construction/excavation activities and dewatering becomes necessary, regulatory compliance and permitting consistent with the Central Valley Regional Water Quality Control Board and

National Pollutant Discharge Elimination System requirements shall be adhered to, and groundwater sampling shall be conducted.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

HYDROLOGY AND WATER QUALITY (SUBSECTION 3.9)

MM 3.9.1 Any dewatering activities during construction would be in compliance with applicable National Pollutant Discharge Elimination System (NPDES) permits and other water quality regulations.

Construction best management practices (BMPs) would be implemented for the Project in adherence with all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. A stormwater pollution prevention plan (SWPPP) may or may not be required for the Project, depending on the area of disturbance. Specific BMPs to be used during construction would be identified as Project design advances and finalized with the approved SWPPP; however, these measures would be designed to accommodate drainage requirements and avoid on- and off-site flooding. If an SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. With implementation of BMPs required for the NPDES Construction General Permit and other applicable water quality regulations (joint NPDES permit for MS4s [NPDES No. CAS082597]), effects from short-term flooding during Project construction would be negligible.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.9.2 Construction BMPs will be implemented for the Project in adherence with all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. An SWPPP may or may not be required for the Project, depending on the area of disturbance. If the Project does require an SWPPP, it will require the contractor to identify the location of the designated staging areas; include specific requirements for equipment fueling, maintenance, and storage processes; and include stormwater BMPs to prevent the release of polluted stormwater into adjacent waterways. If an SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. With adherence to the NPDES requirements and implementation of applicable BMPs, short-term impacts to water quality related to materials discharge will be adequately controlled during construction.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.9.3 BMPs will be implemented for the Project in adherence with all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. Specific BMPs to be used during construction would be identified as Project design advances and finalized in the approved Project

SWPPP based on the risk level determined under the NPDES General Construction Permit guidelines, such as stabilized construction entrances and exits, sandbag barriers, gravel bag berms, and fiber rolls to control increased erosion and sedimentation and to prevent construction site runoff from entering adjacent waterways. If an SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. The General Construction Permit lists the following requirements for Risk Level 2, the most likely risk level for the proposed Project, for minimizing sediment, erosion, and water quality impacts:

- Good site "housekeeping"
- Sediment controls
- Run-on and runoff controls
- Inspection, maintenance, and repair of BMPs
- Numeric action levels
  - Turbidity: 250 Nephelometric Turbidity Units
  - pH: 6.5–8.5
- Rain event action plan
- Effluent monitoring

As part of the NPDES requirements, the contractor will be required to identify and implement BMPs that would ensure no debris or other pollutants from the construction of the multi-use trail and combined bridge/weir crossing structure. Appropriate BMPs would also be incorporated into Project plans to protect worker safety, and applicable hazardous materials regulations pertaining to collection, testing, and disposal of contaminated groundwater would be followed.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.9.4 Treatment BMPs will be implemented as required by NPDES permits to remove pollutants from runoff water. Specific BMPs would be identified as Project design advances and would be identified in final design plans. With implementation of BMPs required by NPDES permits, and with adherence to other applicable water quality regulations, pollutant levels in stormwater runoff would not be expected to exceed applicable water quality standards.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

NOISE (SUBSECTION 3.12)

MM 3.12.1 Noise-generating construction operations shall be limited to between the hours of 7 a.m. and 7 p.m. in accordance with the Elk Grove General Plan Noise Policy NO-3-Action-1.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.12.2 Construction equipment and equipment staging areas shall be located at the farthest distance possible from adjacent sensitive land uses.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.12.3 Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturer recommendations. Equipment engine shrouds shall be closed during equipment operation.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

MM 3.12.4 When not in use, motorized construction equipment shall not be left idling.

Timing/Implementation: *During Project construction*

Enforcement/Monitoring: *City of Elk Grove Planning Department*

5.0 List of Preparers

5.1 LIST OF PREPARERS

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6.0 List of Abbreviations

AB	Assembly Bill
APE	Area of Potential Effect
AQAP	Air Quality Attainment Plan
ASR	Archaeological Survey Report
BMP	best management practice
BSA	Biological Study Area
CAA	Clean Air Act
CAAQS	California ambient air quality standards
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CH_4	methane
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO_2	carbon dioxide
CWA	Clean Water Act
dB	decibel
dBA	A-weighted decibel
DOC	California Department of Conservation
DOF	California Department of Finance
DTSC	California Department of Toxic Substances Control
EIR	Environmental Impact Report
EPA	US Environmental Protection Agency
ESA	Endangered Species Act
FGC	Fish and Game Code
FR	Federal Register
GHG	greenhouse gas

HPSR	Historic Property Survey Report
Hz	Hertz
IS	Initial Study
ISA	Initial Site Assessment
L_{dn}	Day-Night Noise Level
L_{eq}	Equivalent Noise Level
L_{max}	Maximum Noise Level
L_{min}	Minimum Noise Level
MBTA	Migratory Bird Treaty Act
MND	Mitigated Negative Declaration
NAAQS	national ambient air quality standards
NAHC	Native American Heritage Commission
NEPA	National Environmental Policy Act
NMFS	National Marine Fisheries Service
NO_2	nitrogen dioxide
NOx	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
N_2O	nitrous oxide
OAP	Ozone Attainment Plan
OSHA	Occupational Safety and Health Administration
O_3	ozone
PM	particulate matter
ppb	parts per billion
ppm	parts per million
ROG	reactive organic gases
RPW	relatively permanent waters
RWQCB	Regional Water Quality Control Board
SCEMD	Sacramento County Environmental Management Department
SMAQMD	Sacramento Metropolitan Air Quality Management District
SO_2	sulfur dioxide
SR	State Route
SRCSD	Sacramento Regional County Sanitation District
SSHCP	South Sacramento Habitat Conservation Plan
SVAB	Sacramento Valley Air Basin

SWPPP	stormwater pollution prevention plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TNW	traditionally navigable waters
USACE	US Army Corps of Engineers
USC	United States Code
USFWS	US Fish and Wildlife Service
USGS	US Geological Survey
VMT	vehicle miles traveled
VOC	volatile organic compound
WDR	waste discharge requirements
WEAP	Worker Environmental Awareness Program

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7.0 REFERENCES

7.1 REFERENCES

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Exhibit A – Laguna Creek Trail – South Camden Spur Project (PT0121)

Website location for Appendices to Mitigated Negative Declaration:

http://www.elkgrovecity.org/city_hall/departments_divisions/planning/environmental_review/environmental_documents/?portalId=109669&pageId=144965&objectId.15286=1997844&contextId.15286=144966&parentId.15286=245226

Embedded Link to webpage:

Environmental Documents

EXHIBIT A-A

APPENDICES

Appendix A – Natural Environment Study, Biological Assessment, and Wetland Delineation

Laguna Creek Trail
South Camden Spur ***BA***

Biological Assessment

Multi-Use Trail from Camden Park North to Bond Road
City of Elk Grove, Sacramento County, California
District 3
Federal Project Number: SR2SL-5479(036)

January 2015

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Biological Assessment

Multi-Use Trail from Camden Park North to Bond Road
City of Elk Grove, Sacramento County, California
District 3
Federal Project Number: SR2SL-5479(036)

January 2015

STATE OF CALIFORNIA
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Summary of Findings, Conclusions and Determinations

The City of Elk Grove (City) proposes to extend a multi-use trail from the west end of the existing Laguna Creek Trail at the northern end of Camden Park south to Bond Road. The proposed project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The project proposes to close an identified gap in the trail infrastructure that serves the City from Bond Road to Camden Park. Laguna Creek Trail offers access to Old Town Elk Grove, Camden Lake, residential neighborhoods, and many retail centers and restaurants. Camden Park's main feature is Laguna Creek Trail, which is used as a scenic horse and jogging trail.

This document identifies and quantifies resources that may be affected by project implementation. Various studies were undertaken to identify and map biological resources within the project vicinity. The following impacts on biological resources may result from the proposed project.

Federally Listed Species Impacts and Mitigation

Vernal Pool Crustaceans

The project will not result in direct impacts to any vernal pool crustacean habitat. The proposed project is not anticipated to result in alterations to the hydroperiod of the adjacent vernal pool habitat, as the trail will be constructed east of an existing man-made drainage (**Figure 7**). Therefore, the proposed project should not result in the removal or alteration of uplands contributing to the vernal pool watershed and no indirect effects should be incurred to vernal pool crustacean habitat.

In addition, implementation of the proposed avoidance and minimization measures will ensure the proposed project avoids potential indirect impacts to vernal pool fairy shrimp and vernal pool tadpole shrimp; therefore, the proposed project ***may affect, but is not likely to adversely affect*** these species.

Giant Garter Snake (*Thamnophis gigas*)

Potentially suitable aquatic habitat for giant garter snake is present within Laguna Creek and Whitehouse Creek. All undeveloped communities within 200 feet of aquatic habitat are considered potentially suitable upland habitat (USFWS 1999b). The

closest occurrence (#169) of giant garter snake is ±3.4 miles southeast of the action area (CDFW 2014e) and east of State Route 99 (SR 99). This occurrence is located near Elk Grove Creek, which is separated from the Laguna Creek and Camden Lake by extensive development. No aquatic features containing the essential habitat components connect Laguna Creek and Elk Grove Creek, east of SR 99.

The closest extant occurrence (#198) on Laguna Creek is located approximately 5.4 river miles west of the action area, near the Sacramento County Wastewater Treatment Plant (**Figure 9**). There are two possibly extirpated occurrences (#14 and #84) on Laguna Creek just west of the action area and SR 99. Due to the distance between the extant occurrence on Laguna Creek to the west and the presence of potential dispersal barriers (e.g., roads) between this occurrence and the action area, as well as the lack of suitable dispersal habitat between the action area and the extant occurrence near Elk Grove Creek, the presence of this species within the action area is considered unlikely. Therefore, the proposed project ***may affect, but is not likely to adversely affect*** giant garter snakes.

No critical habitat has been designated in the action area; therefore, no impact to critical habitat is expected.

Table of Contents

List of Figures

List of Tables

List of Abbreviated Terms

amsl	above mean sea level
BA	biological assessment
BMP	best management practice
CDFW	California Department of Fish and Wildlife
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
FGC	Fish and Game Code
NMFS	National Marine Fisheries Service
NRCS	Natural Resources Conservation Service
OHWM	ordinary high water mark
TCZ	temporary construction zone
USACE	U.S. Army Corps of Engineers
USC	U.S. Code
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WEAP	Worker Environmental Awareness Program
WoUS	waters of the U.S.

Chapter 1. Introduction

The purpose of this biological assessment (BA) is to provide technical information and to review the proposed project in sufficient detail to determine to what extent the proposed project may affect federally threatened, endangered, or proposed species. The BA is prepared in accordance with legal requirements found in Section 7(a)(2) of the Endangered Species Act (16 U.S. Code (USC) 1536(c)) and with Federal Highway Administration and California Department of Transportation regulation, policy, and guidance. The document presents technical information upon which later decisions regarding project impacts are developed.

1.1. Project History

In 2011, the City of Elk Grove (City) received authorization from the U.S. Fish and Wildlife Service (USFWS) and the U.S. Army Corps of Engineers (USACE) to expand the existing Laguna Creek trail via a north–south alignment west of the California Family Fitness facility, north of Bond Road, to Camden Park North (USFWS File #08ESMF00-2011-F-0881-1). The previously authorized project included 0.6 mile of trail, along with a clear span bridge crossing at Laguna Creek, approximately 100 feet downstream of a weir on Camden Lake, where it outfalls to Laguna Creek. Project impacts from the previously authorized activities included indirect impacts to 0.022 acre of vernal pool crustacean habitat, temporary direct impacts to 0.02 acre of aquatic habitat for the giant garter snake; as well as 0.62 acre of permanent impact and 0.77 acre of temporary impact to upland habitat for the giant garter snake.

The previously authorized project was never constructed and since has been redesigned to shift the trail prism to the east. The proposed project still includes the clear span bridge crossing at Laguna Creek; however, improvements to the failing weir on Camden Lake have been added. As a result of the change in project description, impacts to vernal pool crustacean and giant garter snake habitat differ slightly from those previously authorized.

1.2. Consultation History

No consultation with the USFWS has occurred to date for the current proposed project; however, in 2011 the USACE requested formal consultation for the previously authorized trail alignment from Camden Park North south to Bond Road. The following is a summary of that consultation.

- On May 27, 2011, the USACE requested formal consultation for the previously proposed Laguna Creek Trail Camden Spur Project (USACE File #SPK-2011-00034).

- On April 11, 2012, the USFWS issued a Biological Opinion (USFWS File #08ESMF00-2011-F-0881-1) for the Laguna Creek Trail Camden Spur Project (**Appendix A**). The USFWS determined that it was appropriate to append the previously proposed project to the USFWS (1996a) Programmatic Formal Endangered Species Act Consultation on Issuance of 404 Permits for Projects with Relatively Small Effects on Listed Vernal Pool Crustaceans within the Jurisdiction of the Sacramento Field Office, California (USFWS File #1-1-96-F-001), as well as the USFWS (1997) Programmatic Formal Consultation for U.S. Army Corps of Engineers 404 Permitted Projects with Relatively Small Effects on the Giant Garter Snake within Butte, Colusa, Glenn, Fresno, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter, and Yolo Counties, California (USFWS File #1-1-97-F-0149).

1.3. Project Purpose and Need

1.3.1. Purpose

The purpose of this project is to provide bicycle-pedestrian trail connectivity between the Camden Point and Camden Estates residential areas (north of Laguna Creek) to schools and commercial retail-shopping-dining uses along or south of Bond Road. There is currently no trail crossing of Laguna Creek between East Stockton Boulevard to the west and Elk Grove Florin Road to the east. This project is the south half of two projects to improve this trail system in Elk Grove.

1.3.2. Need

The project will enhance pedestrian safety for school children commuting to four schools: Ellen Feickert and James A. McKee elementary schools, Joseph Kerr Middle School, and Sheldon High School. It will link with the existing trail system as well as with bike routes and other pedestrian paths. It provides an alternative mode of travel

and encourages safer pedestrian and bicycle (non-motorized) transportation and allows access along natural environmental features such as Laguna Creek and Whitehouse Creek. It also provides for use of alternative transportation means to access park and ride lots adjacent to State Route 99 via the connection to Bond Road.

1.4. Description of the Proposed Action

The City proposes to extend a multi-use trail from the west end of the existing Laguna Creek Trail, at the northern end of Camden Park, south to Bond Road. The proposed project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and south of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The project proposes to close an identified gap in the trail infrastructure that serves the City from Bond Road to Camden Park.

No additional right-of-way is required for the proposed trail alignment and bridge structure beyond encroachment onto Consumnes Community Services District property. The proposed project would require relocation of a storm drain inlet, a storm manhole, and irrigation control valves. The project is consistent with the Elk Grove General Plan and the Elk Grove Bicycle, Pedestrian, and Trails Master Plan. Each plan identifies the need for an off-street multi-use trail system providing connections throughout the city and the Sacramento region.

1.4.1. Project Location

The proposed project is located in the City of Elk Grove, Sacramento County, California (**Figures 1** and **2**). More specifically the project is located in Section 25, Township 7 North, and Range 5 East. Land uses within the action area are designated as public open space, public park, and low-density residential according to the City of Elk Grove General Plan Land Use Policy Map (City of Elk Grove 2009). The action area is generally bounded by Laguna Creek and Camden Park to the north and Bond Road to the south.

1.4.2. Construction Schedule

- Pre-construction work includes setting up water pollution control features to prevent silt laden materials or runoff from entering Laguna Creek. Water pollution control features will be based on Caltrans and/or California Storm Water Quality Association standard best management practices (BMPs).

- Construction work includes clearing away existing vegetative growth along the trail route, clearing trees, earthmoving work – including excavation and fill placement, import of aggregate materials and hot mix asphalt pavement or concrete, placement of new storm drain pipe – including excavation and backfill, construction of a reinforced concrete headwall, placement of rock slope protection and pavement striping activities. Bridge work includes delivery and assembly of a prefabricated steel bridge, including drilling of foundation piers, concrete abutment walls, and retaining walls. Work includes trenching in new irrigation lines and heads and replacement of any damaged landscaping within existing landscaped areas of Camden Park. Temporary landscape irrigation will be added to the south side of Laguna Creek on the east side of the path for new trees to be provided by the project.

- Typical equipment includes combination front-end loaders/backhoes, tracked backhoes, motor grader(s), asphalt paving equipment, earth/pavement roller/compactors, concrete delivery trucks, pickup trucks, dump trucks, trenchers, crane for bridge assembly, drilling rig, and other miscellaneous equipment such as air compressors, small generators (welders & power), and other portable power tools.

- All work will be performed during daylight hours. Work will start in the spring upon conclusion of the rainy season, typically in May or June and be completed by the end of October.

- Temporary construction access on the south side of Laguna Creek will use the parking lot behind the commercial building (California Family Fitness) at 8569 Bond Road and an existing dirt road. Temporary construction access on the north side of Laguna Creek will use the existing concrete path in Camden Park. Any damage to existing facilities or features will be repaired prior to completion of the project.

- Excess earth and other deleterious materials (rubble, vegetative debris, trash, etc.) will be hauled away and disposed of at an appropriate disposal facility.

- Preliminary Design Plans are attached. The new path footprint will be 14' wide; with 2' decomposed granite shoulders on either side of a 10' wide asphalt or concrete path. The finish surface of the new path will be raised to

above the 2-year water surface level within the Laguna Creek floodplain. The new bridge will be constructed above the 100-year water surface.

- Total fill to be placed on the project is estimated at 1,800 cubic yards. About 500 cubic yards of fill material will be placed within the existing ditch from plan station 20+25 to plan station 24+25. The finish grade of 1,300 lineal feet of the new path will be raised above the existing ground surface (above the 2-year water surface). A reinforced concrete headwall will be constructed along with about 320 square feet of rock slope protection immediately adjacent to the headwall.

1.4.3. Operations and Maintenance

It is anticipated that weekly (±) visits will be conducted by Cosumnes Community Services District parks staff to empty waste and recycle bins and conduct miscellaneous clean-up, etc. In addition, minor repair work will likely start several years after completion of construction and/or after any major storm event where the water level overtops the trail.

1.4.4. Proposed Avoidance, Minimization, and Conservation Measures

1.4.4.1. Avoidance and Minimization Measures

BIO-1: During project development, the work area will be reduced to the smallest footprint feasible in sensitive habitat areas.

BIO-2: Protective silt fencing will be installed between the adjacent vernal pool habitats and the construction area limits to prevent accidental disturbance during construction and to protect water quality within the aquatic habitats during construction.

BIO-3: Standard Best Management Practices will be implemented during and after construction to protect water quality in sensitive habitat areas during construction.

BIO-4: A Worker Environmental Awareness Program (WEAP) shall be implemented to educate construction workers about the presence of sensitive habitats near the project area and to instruct them on proper avoidance measures.

BIO-5: Standard staging area practices for sediment-tracking reduction shall be implemented where necessary and may include vehicle washing and street sweeping.

BIO-6: All exposed/disturbed areas and access points left barren of vegetation as a result of construction activities shall be restored using locally native grass seeds, locally native grass plugs, and/or a mix of quick-growing sterile non-native grass with locally native grass seeds. Seeded areas shall be covered with broadcast straw and/or jute netted (monofilament erosion blankets are not permitted).

1.4.4.2. CONSERVATION MEASURES

No direct, indirect, permanent, or temporary impacts to federally listed species habitats are anticipated as a result of project implementation; therefore, no conservation measures are proposed.

1.4.5. Interrelated and Interdependent Actions

Section 7 of the Endangered Species Act requires a federal agency to examine the effects of a proposed federal action on federally listed species including direct, indirect, and other effects from activities that are interrelated and interdependent with the action. Interrelated actions are defined as those that are part of a larger action and depend upon the proposed action for their justification. Interdependent actions are defined as those that would not occur but for the proposed action.

The proposed action/project is not interrelated or interdependent on any other actions; therefore, no further analysis of interrelated or interdependent effects is provided.

1.4.6. Action Area

The action area for this project was defined using a 250-foot buffer off the project footprint (**Figure 3**). This boundary was chosen due to the presence of vernal pool features in proximity to the project footprint. The USFWS typically considers all vernal pool features within 250 feet of the proposed development indirectly affected. In addition, this boundary includes all areas that could be impacted by the project, plus a buffer to accommodate any changes to project limits and project design that may occur during project development. **Figure 4** depicts the action area limits along with the project impact area (footprint TCZ).

The proposed project directly abuts a concurrent project to the north, Laguna Creek Trail-North Camden Spur (**Figure 5**). In order to avoid overlap in evaluation of

species impacts associated with each project, both project footprints were joined, a 250-foot buffer applied, and the action area was split between the two projects. As a result, the 250-foot buffer does not apply to the northern project boundary.

1.5. Document Preparation History

The initial draft of this document was prepared by PMC senior biologist Summer Pardo and reviewed by City of Elk Grove senior project manager Michael Karoly for technical content.

Figure 1. Regional Vicinity Map

Figure 2. Project Location Map

Figure 3. Action Area

Figure 4. Action Area and Project Impact Map

Figure 5. Laguna Creek Trail – North and South Camden Spurs

Chapter 2. Study Methods

This chapter summarizes the technical studies performed to date.

2.1. Studies Required

Biologists reviewed the project description and conceptual design plans, performed literature reviews and database searches, and conducted reconnaissance-level biological surveys to obtain information regarding habitat quality and the potential presence of federally listed plant and wildlife species within the action area.

2.1.1. Literature Review

A list of federally listed species and critical habitats that have the potential to occur within the action area or project vicinity was prepared using information obtained from the USFWS (2014a) Sacramento office's Species Lists, the USFWS (2014b) Critical Habitat Portal, the California Department of Fish and Wildlife (CDFW) (2014a) California Natural Diversity Database (CNDDB), and the California Native Plant Society (CNPS) (2014) Inventory of Rare and Endangered Plants of California.

A search of the USFWS Sacramento office's Species Lists database was performed for the Elk Grove, Florin, Bruceville, Galt, Courtland, Clarksville, Sacramento East, Carmichael, and Sacramento West, California, U.S. Geological Survey (USGS) 7.5-minute quadrangles (quads) to identify federally listed species under USFWS jurisdiction that may be affected by the proposed project. In addition, a query of the USFWS's Critical Habitat Portal was conducted to identify any designated critical habitat on or in the vicinity of the action area. The CNDDB provided a list of processed and unprocessed occurrences of federally listed species identified within the aforementioned USGS quads. The CNPS database was also queried to identify federally listed plant species with the potential to occur in the aforementioned USGS quads. Please see **Appendix B** for the raw data returned from the database queries.

2.1.2. Habitat Assessment

A habitat assessment of the action area was performed by PMC biologists on October 27, 2010, and again on December 11, 2013, to assess the biological resources that may be impacted as part of the proposed project, map vegetative communities on and adjacent to the action area, and evaluate the potential suitability of those communities for federally listed species returned in the literature review. A habitat layer was created for vegetative communities and land uses within the action area using the

geographic information system ArcView program based on aerial photo-interpretation and data collected during reconnaissance-level surveys. Habitat classifications were assigned using A Guide to Wildlife Habitats of California (CDFW 2014b).

2.1.3. Wetland Delineation

A PMC biologist conducted a delineation of WoUS within the action area. A portion of the action area was previously delineated in 2010 and verified by the USACE (**Appendix C**). The project extent has been expanded since the 2010 delineation; therefore, the purpose of this delineation was to reverify the work done in 2010 and to map the aquatic features in the remaining portions of the action area. The delineation and reverification were conducted on December 11, 2013, in accordance with the methodologies outlined in the USACE regulatory guidance letter regarding OHWM identification (2005), the Corps of Engineers Wetland Delineation Manual (Environmental Laboratory 1987), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (USACE 2008).

A field review of the delineation as conducted with USACE representative Lisa Gibson on April 7, 2014, and a preliminary jurisdictional determination was issued by the USACE on April 28, 2014 (**Appendix C**).

2.1.4. Rare Plant Surveys

A rare plant survey was conducted on May 6, 2011, by a PMC biologist in accordance with the General Rare Plant Survey Guidelines (USFWS 2002) and the Guidelines for Assessing the Effects of Proposed Projects on Rare, Threatened, and Endangered Plants and Natural Communities (CDFW 2000) to evaluate the presence or absence of federally listed plants within the action area. A summary memo presenting the findings of this survey is provided in **Appendix D**.

Transects were systematically walked across the action area to detect the presence of rare plant species. When potential special-status plant species were observed, their presence was recorded on a Trimble Geo XT. If the species were growing in a large clump, the numbers of individual plants were estimated. No federally listed plants were documented within the action area.

2.1.5. Impact Assessment

The impact assessment is based on information provided in the project description, environmental setting, and conceptual plans; federal, state, and local regulatory requirements regarding impacts to biological resources; and data collected from the literature review, habitat assessment, and wetland delineation. When information

about the presence of a particular federally listed species is unknown, but suitable habitat is present, the impact analysis takes a conservative approach and presence is inferred. This impact assessment considers permanent and temporary impacts in addition to cumulative and indirect impacts of each federally listed species being analyzed. Impacts to each species are identified and appropriate avoidance, minimization, and conservation measures are discussed further in Chapter 4.

2.2. Personnel and Survey Dates

A delineation and habitat assessment was conducted by a PMC biologist on October 27, 2010.

A PMC biologist conducted a site visit on March 11, 2011, to analyze the potential of adjacent seasonal wetlands to support listed vernal pool crustaceans.

A PMC biologist conducted a rare plant survey on May 6, 2011.

A delineation and habitat assessment was performed by a PMC biologist on December 11, 2013.

2.3. Agency Coordination and Professional Contacts

On May 27, 2011, the USACE requested formal consultation for the previously proposed Laguna Creek Trail Camden Spur Project (USACE File #SPK-2011-00034).

On April 11, 2012, the USFWS issued a Biological Opinion (USFWS File #08ESMF00-2011-F-0881-1) for the Laguna Creek Trail Camden Spur Project (**Appendix A**). The USFWS determined that it was appropriate to append the previously proposed project to the USFWS (1996a) Programmatic Formal Endangered Species Act Consultation on Issuance of 404 Permits for Projects with Relatively Small Effects on Listed Vernal Pool Crustaceans within the Jurisdiction of the Sacramento Field Office, California (USFWS File #1-1-96-F-001), as well as the USFWS (1997) Programmatic Formal Consultation for U.S. Army Corps of Engineers 404 Permitted Projects with Relatively Small Effects on the Giant Garter Snake within Butte, Colusa, Glenn, Fresno, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter, and Yolo Counties, California (USFWS File #1-1-97-F-0149).

On April 7, 2014, PMC biologists met with USACE representative Lisa Gibson to review the delineation.

On April 14, 2014, City of Elk Grove staff met with staff from Caltrans at the project site to discuss project impacts, including impacts to biological resources associated with the project.

2.4. Limitations That May Influence Results

No limitations to the assessment efforts or information collected to date have been identified. Standard protocols were used for biological surveys that were conducted; surveys were conducted during appropriate seasons and under appropriate weather conditions. The presence of potentially occurring federally listed species is inferred in suitable habitat within and adjacent to the action area until protocol-level and/or preconstruction surveys are completed, as necessary.

Chapter 3. Environmental Baseline

This chapter describes the region in which the project will occur, including a concise description of the area's topography, soils, vegetation, aquatic resources, and level of human or natural disturbance.

3.1. Description of Existing Biological and Physical Conditions

The following descriptions of the existing biological and physical conditions are described in relation to the action area boundaries. The action area was used as the limit for biological studies conducted in support of the project and will be used when determining potential impacts to federally listed species as described in Chapter 4.

3.1.1. Physical Conditions

3.1.1.1. TOPOGRAPHY

The action area is located in the Sacramento Valley, which is primarily flat land with no hills or valleys. The action area elevation is between 38 and 47 feet above mean sea level (amsl). The elevation is relatively flat through the urban development in the southern portion of the action area. In the northern portion of the action area, the topography slopes from the edge of urban development north toward Laguna Creek.

3.1.1.2. HYDROLOGY

Hydrologic features in the action area include Laguna Creek, Camden Lake, and man-made ditches. Precipitation and other surface water in the action area sheet flows to either Laguna Creek or Camden Lake. Within the urban development to the south, surface water sheet flows into the storm drain system and discharges into the man-made ditches in the action area.

3.1.1.3. SOILS

The Natural Resources Conservation Service's (NRCS) Web Soil Survey identifies three soil types within the action area (**Figure 6**). Each soil type is described below based on descriptions obtained from the Web Soil Survey (U.S. Department of Agriculture (USDA) (2014). Hydric soils ratings describe the proportion of map units that meet the hydric soils criteria (USDA 2014). Hydric means that 100% of the components listed for a given map unit are rated as being hydric. Predominantly hydric means that 66% to 99% of the components listed for a given map unit meet the hydric soils criteria. Partially hydric means that 33% to 65% of the map unit components are hydric; predominantly nonhydric means that 1% to 32% of the map

unit components are hydric; and nonhydric means that none of the map unit components meet hydric soil criteria.

1) **Bruella sandy loam, 0 to 2 percent slopes (111).** This is a well drained soil that occurs on terraces between 30 and 150 amsl. The depth to the restrictive feature is more than 80 inches, and the soil is composed of alluvium derived from granite. The hydric rating for this soil type is **nonhydric**.

2) **San Joaquin silt loam (213** and **214).** This is a moderately well drained soil that occurs on terraces between 20 and 500 amsl. The depth to the duripan is 28 to 54 inches, and the soil is composed of alluvium derived from granite. The hydric rating for this soil type is **predominantly nonhydric**.

3.1.2. Vegetative Communities

Vegetative communities are assemblages of plant species that occur in the same area and are defined by species composition and relative abundance. The action area consists of urban land uses, annual grassland, man-made ditch, fresh emergent wetland, open water, and vernal pool habitats (**Figure 7**). Each community is described below and is based on descriptions obtained from the CDFW's A Guide to Wildlife Habitats of California (2014b).

3.1.2.1. URBAN

Urban habitat is characterized by the presence of both native and exotic species maintained in a relatively static composition within a downtown, residential, or suburban setting. Species richness in these areas depends greatly on community design (i.e., open space considerations) and proximity to the natural environment.

The California Wildlife Habitat Relationships system classifies urban habitat into five different vegetation types: tree grove, street strip, shade tree/lawn, lawn, and shrub cover. Tree groves refer to conditions typically found in city parks, greenbelts, and cemeteries. These areas vary in tree height, spacing, crown shape, and understory conditions; however, they have a continuous canopy. Street strip vegetation, located roadside, varies with species type but typically includes a ground cover of grass. Shade trees and lawns refer to characteristic residential landscape, which is reminiscent of natural savannas. Lawns are composed of a variety of grasses, maintained at a uniform height with continuous ground cover through irrigation and fertilization. Shrub cover refers to areas commonly landscaped and maintained with hedges, as typically found in commercial districts. All five types of urban habitat are generally found in combination, creating considerable edge effect, which can be more

valuable to wildlife than any one individual unit. All five types of urban habitat are present in the action area and include all the urban development and associated infrastructure, as well as all landscaped areas, including Camden Park.

3.1.2.2. ANNUAL GRASSLAND

The dominant species found within the annual grassland community includes introduced grasses such as Italian ryegrass (*Lolium multiflorum*), barnyard grass (*Echinochloa cure-all*), wild oat (*Avena fatua*), Mediterranean barley (*Hordeum marinum*), foxtail barley (*Hordeum murinum*), Bermuda grass (*Cynodon dactylon*), and soft-chess brome (*Bromus hordeaceus*). Common forbs observed within these grasslands include mustards (*Brassica* spp.), spring vetch (*Vicia sativa*), field bindweed (*Convolvulus arvensis*), turkey mullein (*Eremocarpus setigerus*), Italian thistle (*Carduus pynocephalus*), yellow star-thistle (*Centaurea solstitialis*) and dove's-foot geranium (*Geranium molle*).

Many wildlife species use annual grasslands for foraging, but some require special habitat features such as cliffs, caves, ponds, or habitats with woody plants for breeding, resting, and cover. Characteristic reptiles that breed in annual grasslands include the western fence lizard (*Sceloporus occidentalis*), common garter snake (*Thamnophis sirtalis*), and western rattlesnake (*Crotalus viridis helleri*). Mammals typically found in this habitat include the black-tailed jackrabbit (*Lepus californicus*), California ground squirrel (*Spermophilus beecheyi*), Botta's pocket gopher (*Thomomys bottae*), western harvest mouse (*Reithrodontomys megalotis*), California vole (*Microtus californicus*), and coyote (*Canis latrans*). Birds known to breed in annual grasslands include the western burrowing owl (*Athene cunicularia hypugaea*), horned lark (*Eremophila alpestris*), and western meadowlark (*Sturnella neglecta*). This habitat also provides important foraging habitat for turkey vulture (*Cathartes aura*), northern harrier (*Circus cyaneus*), and American kestrel (*Falco sparverius*).

3.1.2.3. MAN-MADE DITCH

One man-made drainage ditch conveys runoff from the urban development in the southern portion of the action area into Laguna Creek. Man-made drainage ditches are highly modified channels that vary in species composition and persistence of water. Some areas of native vegetation include broad-leaved cattail (*Typha latifolia*), Pacific rush (*Juncus effusus* var. *pacificus*), fringed willowherb (*Epilobium ciliatum* ssp. *ciliatum*), and tall flatsedge (*Cyperus eragrostis*).

3.1.2.4. FRESH EMERGENT WETLAND

Freshwater emergent wetlands are characterized by erect, rooted herbaceous hydrophytes such as common cattail. Emergent wetlands are flooded frequently enough so that the roots of the vegetation are in an anaerobic environment. On the upper margins of this habitat, saturated or periodically flooded soils support several moist soil plant species including big-leaf sedge (*Carex amplifolia*), Baltic rush (*Juncus balticus*), tall flatsedge, and on more alkali sites, saltgrass (*Distichlis spicata*). The upland limit of freshwater emergent wetlands and deep water habitats is the deep water edge of the emergent vegetation. Within the action area, freshwater emergent wetlands are associated with Laguna Creek.

Freshwater emergent wetlands are among the most productive wildlife habitats in California. Many species rely on freshwater emergent wetlands for their entire life cycle. The rare giant garter snake uses these wetlands as its primary habitat. Slow-moving waters provide important resting and foraging habitats for migratory water birds such as the mallard (*Anas platyrhynchos*) and cinnamon teal (*A. cyanoptera*). Wetlands also provide habitat for the American coot (*Fulica americana)*, great blue heron (*Ardea herodias*), great egret (*Ardea alba)*, and black phoebe (*Sayornis nigricans)*. Beaver (*Castor canadensis*) is commonly found within the waterways in the city and may be found along Laguna Creek.

3.1.2.5. OPEN WATER

Open water or lacustrine habitats are inland depressions or dammed riverine channels containing standing water. Depth can vary from a few centimeters to hundreds of meters. Typical lacustrine habitats include permanently flooded lakes and reservoirs, intermittent lakes, and ponds. Most permanent lacustrine systems support fish life; intermittent types usually do not. As sedimentation and accumulation of organic matter increases toward the shore, floating rooted aquatics such as water lilies (*Nymphaea* spp.) and smartweed (*Polygonum amphibium* var. *stipulaceum)* often appear. There is an artificial concrete weir on Laguna Creek, which created a large ponded area (Camden Lake) to the east of the action area in Camden Park.

Suspended organisms such as plankton are found in the open water of lacustrine habitats. Submerged plants such as algae and pondweeds serve as supports for smaller algae and as cover for swarms of minute aquatic animals. Floating plants offer food and support for numerous herbivorous animals that feed both on plankton and floating plants. Wading ducks often frequent ponded areas. Aquatic species include mosquito fish (*Gambusia affinis*) and Louisiana red swamp crayfish (*Procambarus clarkii*).

3.1.2.6. VERNAL POOL

Vernal pools are ephemeral aquatic habitats within a grassland matrix that annually fill with water and dry out. Vernal pools are wetlands characterized by seasonally flooded depressions on ancient soils with an impermeable layer, such as a hardpan, claypan, or volcanic basalt, which allows the pools to retain water over the winter much longer than the surrounding uplands (Barry 1995). Three depressional wetlands are located on the south side of the creek, west of the proposed trail location. Plant species observed in the vernal pool include vernal pool buttercup (*Ranunculus bonariensis*), vernal pool popcorn flower (*Plagiobothrys stipitatus*), dense-flowered spike primrose (*Epilobium densiflorum*), and curly dock (*Rumex crispus*). By summer, the pools have dried up. The vernal pool seems to be connected via swale (a linear depression that does not exhibit wetland indicators or an OHWM) to Laguna Creek.

The species found in vernal pools are highly adapted to the temporary nature of their environment. Any animals that have relied on the temporary rain pools must have either completed their life cycle or moved to another terrestrial habitat type. Among the many invertebrates that inhabit these pools, several species of crustaceans, branchiopods in particular, are ecologically dependent on wetlands with seasonal inundation and subsequent desiccation (Williams 1987; Eriksen and Belk 1999). Species found during dip-netting include common species such as water fleas (cladocera: *Daphnia* sp.), flatworms (turbularia), an unknown tadpole, and seed shrimp (ostracods). Listed vernal pool crustaceans were not observed; however, protocol-level surveys were not conducted.

3.1.3. Habitat Connectivity

The CDFW Biogeographic Information & Observation System (2014c) was reviewed to determine if the action area is located within an Essential Connectivity Area. The action area does not occur within an Essential Connectivity Area; therefore, the project is not likely to adversely affect migratory corridors.

3.2. Listed and Proposed Species Potentially in the Biological Study Area

The results of the database queries identified several federally listed species and critical habitats with the potential to be impacted by the proposed project. **Figure 8** depicts CNDDB occurrence data for federally listed species within 5 miles of the action area. **Table 1** provides a summary of all species identified in the search results, a description of the habitat requirements for each species, and conclusions regarding the potential for each species to be impacted by the proposed project.

Figure 6. NRCS Soils Map

Figure 7. Vegetative Communities

Figure 8. CNDDB Occurrences within 5 Miles of the Action Area

Table 1: Listed, Proposed Species and Critical Habitat Potentially Occurring or Known to Occur in the Project Area.

Scientific Name	Common Name	Federal Status	Habitat	Habitat Present/ Absent	Potential to Occur
Plants					
Calystegia stebbinsii	Stebbins' morning glory	FE	Cismontane woodland and openings in chaparral. Associated with gabbroic or serpentinite soil. Elevation: 607–3,576 feet (185–1,090 m). Blooms: April–July (CNPS 2014).	A	**No effect**. Suitable habitat not present.
Castilleja campestris ssp. *succulenta*	succulent owl's-clover	FT	Acidic vernal pools. Elev: 164–2,461 feet (50–750 m). Blooms: April–May (CNPS 2014).	A	**No effect.** Action area below elevation range.
	Critical Habitat, succulent owl's-clover	X		A	**No effect**. Action area not located within Critical Habitat Unit.
Ceanothus roderickii	Pine Hill ceanothus	FE	Serpentinite or gabbroic soil in chaparral and cismontane woodland. Elev: 804–2,067 feet (245–630 m). Blooms: April–June (CNPS 2014).	A	**No effect**. Suitable habitat not present.
Fremontodendron californicum ssp. *decumbens*	Pine Hill flannelbush	FE	Gabbroic, serpentinite, rocky soils in chaparral and cismontane woodlands. Elev: 1,394–2,493 feet (425–760 m). Blooms: April–July (CNPS 2014).	A	**No effect**. Suitable habitat not present.

Scientific Name	Common Name	Federal Status	Habitat	Habitat Present/ Absent	Potential to Occur
Galium californicum ssp. *sierrae*	El Dorado bedstraw	FE	Gabbroic soils in chaparral, cismontane woodland and lower montane coniferous forest. Elev: 328–1,919 feet (100–585 m). Blooms: May–June (CNPS 2014).	A	**No effect**. Suitable habitat not present.
Orcuttia tenuis	slender Orcutt grass	FT	Vernal pools. Elev: 115–5,774 feet (35–1,760 m). Blooms: May–Oct (CNPS 2014).	A	**No effect**. Action area below elevation range.
	Critical Habitat, slender Orcutt grass	X		A	**No effect**. Action area not located within Critical Habitat Unit.
Orcuttia viscida	Sacramento Orcutt grass	FE	Vernal pools. Elev: 98–328 feet (30–100 m). Blooms: April–Sept (CNPS 2014).	A	**No effect**. Action area below elevation range.
	Critical Habitat, Sacramento Orcutt grass	X		A	**No effect**. Action area not located within Critical Habitat Unit.
Packera layneae (=*Senecio layneae*)	Layne's ragwort	FT	Serpentinite or gabbroic, rocky soils in chaparral and cismontane woodland. Elev: 660–3,300 feet (200–1,000 m). Blooms: April–Aug (CNPS 2014).	A	**No effect**. Suitable habitat not present.

Scientific Name	Common Name	Federal Status	Habitat	Habitat Present/ Absent	Potential to Occur
Invertebrates					
Branchinecta conservatio	conservancy fairy shrimp	FE	Vernal pools, often large and turbid pools (USFWS 2005b).	A	**No effect.** Species not known to occur in this part of the Central Valley.
Branchinecta lynchi	vernal pool fairy shrimp	FT	Found in vernal pools and ephemeral wetlands. Distributed throughout the Central Valley, including Sacramento County (USFWS 2005b).	HP	**May affect**. Suitable habitat present within 250 feet of the action area.
	Critical Habitat, vernal pool fairy shrimp	X		A	**No effect**. Action area not located within Critical Habitat Unit.
Desmocerus californicus dimorphus	valley elderberry longhorn beetle	FT	Dependent on hostplant, elderberry (*Sambucus* spp.), which generally grows in riparian woodlands and upland habitats of the Central Valley. Current distribution in the Central Valley from Shasta County to Fresno County (USFWS 1999a).	A	**No effect**. Hostplant not present within action area.
	Critical Habitat, valley elderberry longhorn beetle	X		A	**No effect**. Action area not located within Critical Habitat Unit.

Scientific Name	Common Name	Federal Status	Habitat	Habitat Present/ Absent	Potential to Occur
	vernal pool tadpole shrimp	FE	Wide variety of ephemeral wetland habitats, including vernal pools. Distributed throughout Central Valley and San Francisco Bay Area (USFWS 2005b).	HP	**May affect**. Suitable habitat present within 250-feet of the action area.
Lepidurus packardi	Critical Habitat, vernal pool tadpole shrimp	X		A	**No effect**. Action area not located within Critical Habitat Unit.
Fish					
Acispenser medirostris	green sturgeon	FT	Entire coast of California. Spawning occurs in Sacramento River and Klamath River (USFWS 1996b). Oceanic waters, bays, and estuaries during non-spawning season. Spawning habitat = deep pools in large, turbulent, freshwater mainstems (National Marine Fisheries Service (NMFS) 2005).	A	**No effect**. Segment of Laguna Creek within action area inaccessible to anadromous fish species due to fish passage barriers.
Hypomesus transpacificus	delta smelt	FT	Distribution includes the Sacramento River below Isleton, San Joaquin River below Mossdale, and Suisun Bay. Spawning areas include the Sacramento River below Sacramento, Mokelumne River	A	**No effect**. Segment of Laguna Creek within action area inaccessible to anadromous fish species due to fish passage barriers.

Scientific Name	Common Name	Federal Status	Habitat	Habitat Present/ Absent	Potential to Occur
	Critical Habitat, delta smelt	X	system, Cache Slough, the delta, and Montezuma Slough (USFWS 1996b).	A	**No effect**. Action area not located within Critical Habitat Unit.
Oncorhynchus mykiss	Central Valley steelhead	FT	Spawning habitat = gravel-bottomed, fast-flowing, well-oxygenated rivers and streams. Non-spawning = estuarine, marine waters (Busby et al. 1996).	A	**No effect**. Segment of Laguna Creek within action area inaccessible to anadromous fish species due to fish passage barriers.
	Critical Habitat, Central Valley steelhead	X		A	**No effect**. Action area not located within Critical Habitat Unit.
Oncorhynchus tshawytscha	Central Valley spring-run chinook salmon	FT	Spawning habitat = fast moving, freshwater streams and rivers. Juvenile habitat = brackish estuaries. Non-spawning = marine waters (Myers et al. 1998).	A	**No effect**. Segment of Laguna Creek within action area inaccessible to anadromous fish species due to fish passage barriers.

Scientific Name	Common Name	Federal Status	Habitat	Habitat Present/ Absent	Potential to Occur
	Critical Habitat, Central Valley spring-run chinook salmon	X		A	**No effect**. Action area not located within Critical Habitat Unit.
	winter-run chinook salmon, Sacramento River	FE		A	**No effect**. Segment of Laguna Creek within action area inaccessible to anadromous fish species due to fish passage barriers.
Spirinchus thaleichthys	longfin smelt	FC	Adults and juveniles require salt or brackish estuary waters. Spawning takes place in freshwater over sandy-gravel substrates, rocks, and aquatic plants (Moyle et al. 1995).	A	**No effect.** Suitable habitat not present.
Amphibians					
Ambystoma californiense	California tiger salamander, central population	FT	Occurs in grasslands of the Central Valley and oak savannah communities in the Central Valley, the Sierra Nevada and Coast ranges, and the San Francisco Bay Area. Needs seasonal or semi-permanent wetlands to reproduce, and	A	**No effect**. Action area outside known range in Sacramento County.

Scientific Name	Common Name	Federal Status	Habitat	Habitat Present/ Absent	Potential to Occur
	Critical Habitat, CA tiger salamander, central population	X	terrestrial habitat with active ground squirrel or gopher burrows (Bolster 2010).	A	**No effect**. Action area not located within Critical Habitat Unit.
Rana draytonii	California red-legged frog	FT	Found mainly near ponds in humid forests, woodlands, grasslands, coastal scrub, and streamsides with plant cover. Most common in lowlands or foothills. Frequently found in woods adjacent to streams. Breeding habitat is in permanent or ephemeral water sources; lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps. Ephemeral wetland habitats require animal burrows or other moist refuges for aestivation when the wetlands are dry. From sea level to 5,000 feet (1,525 m) (Nafis 2014).	A	**No effect.** Suitable habitat not present.

Scientific Name	Common Name	Federal Status	Habitat	Habitat Present/ Absent	Potential to Occur
Reptiles					
Thamnophis gigas	giant garter snake	FT	Marshes, sloughs, ponds, small lakes, low-gradient streams, irrigation and drainage canals, rice fields and their associated uplands. Upland habitat should have burrows or other soil crevices suitable for snakes to reside during their dormancy period (November– mid March). Ranges in the Central Valley from Butte County to Buena Vista Lake in Kern County. Endemic to valley floor wetlands (USFWS 2012).	HP	**May affect**. Suitable habitat present.
Birds					
Coccyzus americanus occidentalis	western yellow-billed cuckoo	PT	Requires large, dense tracts of riparian woodland with well-developed understories. Occurs in deciduous trees or shrubs. Prefers willow, but will also nest in orchards adjacent to streams in Sacramento Valley. Restricted to moist habitats along slow-moving waterways during breeding season (CDFW 2014d).	A	**No effect**. Suitable habitat not present. This species shows increased occupancy with increased patch size (>20 hectares) (Laymon 1998). Riparian habitat within action area <1 hectare.

Scientific Name	Common Name	Federal Status	Habitat	Habitat Present/ Absent	Potential to Occur
Sternula antillarum browni	California least tern	FE	Nests and roosts in colonies on open beaches, forages near shore ocean waters and in shallow estuaries ad lagoons (USFWS 2006).	A	**No effect.** Suitable habitat not present.

Key	
Federal Status	**Habitat Present/Absent**
(FC) Federal Candidate	(A) No habitat present and no further work needed.
(FD) Federally Delisted	(HP) Habitat is or may be present. The species may be present.
(FE) Federal Endangered	(P) Species is present.
(FP) Fully Protected	(CH) Project footprint is located within a designated critical habitat unit, but does not necessarily mean that appropriate habitat is present.
(FT) Federal Threatened	
(PT) Proposed Threatened	
(X) Federally Designated Critical Habitat	

Chapter 4. Effects of the Action

This chapter of the BA discusses impacts to federally listed or candidate species that have the potential to occur in the action area. Potential effects to species are based on the current project description and conceptual design plans, likelihood of each species to occur within the action area, and each species' biological growth, reproduction, feeding, resting, and cover requirements as appropriate. Each species is discussed, including results of surveys for the species; designated critical habitat for the species within the action area (if applicable); expected or potential project-related effects to the species; avoidance, minimization, and conservation measures proposed to avoid or reduce project-related impacts to the species; and cumulative effects to the species when considered with other proposed, completed, or reasonably foreseeable projects in the vicinity of the action area. Project-related effects to plant and wildlife species can be direct, indirect, permanent, temporary, and/or cumulative. Direct impacts are those caused by the proposed project and occur at the time of project construction or implementation. Indirect effects are those that are caused by the proposed project and are reasonably certain to occur, but at a later time.

4.1. Federally Listed/Proposed Plant Species

No federally listed or proposed plant species have the potential to occur in the action area.

4.2. Federally Listed or Proposed Animal Species Occurrences

Based on the results of the database queries and habitat assessment, three federally listed animal species have the potential to occur in the action area or vicinity: vernal pool fairy shrimp, vernal pool tadpole shrimp, and giant garter snake. Individual discussions of these species or guilds are presented below. The following discussions detail the extent of known and/or potential habitat within the action area, potential impacts to these species from the construction of the proposed project, recommended measures to avoid, minimize, and mitigate for project-related impacts, and the cumulative effects the proposed project will have on the continued existence of these species. According to the results of the database searches, surveys, or historic records, no other federally listed animal species have potential to occur in the action area.

4.2.1. Discussion of "Vernal Pool Crustaceans"

The federally threatened vernal pool fairy shrimp and federally endangered vernal pool tadpole shrimp have been grouped together for the purposes of this impact analysis. Both

species can be found in vernal pools and ephemeral wetlands distributed throughout the Central Valley, including Sacramento County (USFWS 2005b).

4.2.1.1. Survey Results

One (0.025 acre) vernal pool was identified within the action area. Formal surveys have not been conducted for vernal pool crustaceans within this feature; however, there are two vernal pool fairy shrimp and one vernal pool tadpole shrimp occurrences within 1 mile of the action area (CDFW 2014d). Due to the previously documented occurrences in the project vicinity, the presence of these species is inferred within the action area for the purposes of this impact analysis.

4.2.1.2. Critical Habitat

No critical habitat has been designated for these species within the action area; therefore, no impact to these species' critical habitat is expected.

4.2.1.3. Project Effects

The project will not result in direct impacts to any vernal pool habitat. The proposed project is not anticipated to result in alterations to the hydroperiod of the adjacent vernal pool habitat, as the trail will be constructed east of an existing man-made drainage (**Figure 7**). Therefore, the proposed project should not result in the removal or alteration of uplands contributing to the vernal pool watershed and no indirect effects should be incurred to vernal pool crustacean habitat.

4.2.1.4. Avoidance and Minimization Measures

In order to further reduce the potential for indirect effects to vernal pool habitat, avoidance and minimization measures **BIO-1** through **BIO-6** listed under Section 1.4.4.1 are proposed.

4.2.1.5. Conservation Measures

The proposed project will not result in direct or indirect impacts to vernal pool crustacean habitat; therefore, no conservation measures are proposed.

4.2.1.6. Cumulative Effects

Implementation of the avoidance and minimization measures outlined above will ensure that potential impacts to vernal pool crustacean habitat are fully avoided; therefore, the project will not substantially contribute to cumulative impacts to this species.

4.2.2. Discussion of "Giant Garter Snake"

4.2.2.1. Survey Results

Giant garter snake is federally listed as threatened. The giant garter snake inhabits marshes, sloughs, ponds, small lakes, low gradient streams, other waterways, agricultural wetlands, such as irrigation and drainage canals and rice fields, and the adjacent uplands (USFWS 1999b). Essential habitat components consist of:

- Adequate water during the snake's active period (i.e., early spring through mid-fall) to provide a prey base and cover;
- Emergent, herbaceous wetland vegetation, such as cattails and bulrushes, for escape cover and foraging habitat;
- Upland habitat for basking, cover, and retreat sites; and
- Higher elevation uplands for cover and refuge from floodwaters.

4.2.2.2. Critical Habitat

No critical habitat has been designated for this species within the action area; therefore, no impact to this species' critical habitat is expected.

4.2.2.3. Project Effects

Potentially suitable aquatic habitat for giant garter snake is present within Laguna Creek and Whitehouse Creek. All undeveloped communities within 200 feet of aquatic habitat are considered potentially suitable upland habitat (USFWS 1999b). The closest occurrence (#169) of giant garter snake is ±3.4 miles southeast of the action area (CDFW 2014e) and east of State Route 99 (SR 99). This occurrence is located near Elk Grove Creek, which is separated from the Laguna Creek and Camden Lake by extensive development. No aquatic features containing the essential habitat components connect Laguna Creek and Elk Grove Creek, east of SR 99.

The closest extant occurrence (#198) on Laguna Creek is located approximately 5.4 river miles west of the action area, near the Sacramento County Wastewater Treatment Plant (**Figure 9**). There are two possibly extirpated occurrences (#14 and #84) on Laguna Creek just west of the action area and SR 99. Due to the distance between the extant occurrence on Laguna Creek to the west and the presence of potential dispersal barriers (e.g., roads) between this occurrence and the action area, as well as the lack of suitable dispersal habitat between the action area and the extant occurrence near Elk Grove Creek, the presence of this species within the action area is considered unlikely.

4.2.2.4. AVOIDANCE AND MINIMIZATION MEASURES

Giant garter snakes are unlikely to occur in the action area; therefore, no avoidance and minimization measures are proposed.

4.2.2.5. CONSERVATION MEASURES

Giant garter snakes are unlikely to occur in the action area; therefore, no conservation measures are proposed.

4.2.2.6. CUMULATIVE EFFECTS

Giant garter snakes are unlikely to occur in the action area; therefore, the project will not substantially contribute to cumulative impacts to this species.

Figure 9. CNDDB Giant Garter Snake Occurrences in the Vicinity of the Action Area

Chapter 5. Conclusions and Determination

5.1. Conclusions

The proposed project ***may affect, but is not likely to adversely affect*** vernal pool fairy shrimp, vernal pool tadpole shrimp, and giant garter snake. All effects to potentially occurring species or their habitat will be minimized and conservation measures will be implemented according to established USFWS guidelines.

5.2. Determination

The determination of effect for each federally listed species that may occur in the action area is provided below. Determinations are based on potential for the species to occur; the potential impacts to the species as a result of project implementation; and proposed avoidance, minimization, and conservation measures for each species. The potential determination categories are as follows: no effect; may affect, not likely to adversely affect; or may affect, likely to adversely affect.

5.2.1. Vernal Pool Crustaceans

The project will not result in direct to any vernal pool crustacean habitat. In addition, implementation of the proposed avoidance and minimization measures will ensure the proposed project avoids potential indirect impacts to vernal pool fairy shrimp and vernal pool tadpole shrimp; therefore, the proposed project ***may affect, but is not likely to adversely affect*** these species.

5.2.2. Giant Garter Snake

Due to the distance between the extant occurrence on Laguna Creek to the west and the presence of potential dispersal barriers (e.g., roads) between this occurrence and the action area, as well as the lack of suitable dispersal habitat between the action area and the extant occurrence near Elk Grove Creek, the presence of this species within the action area is considered unlikely. Therefore, the proposed project is ***may affect, but is not likely to adversely affect*** giant garter snakes.

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Appendix A 2012 USFWS Biological Opinion

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish and Wildlife Office
2800 Cottage Way, Room W-2605
Sacramento, California 95825-1846

In reply refer to:
08ESMF00-2011-F-0881-1

APR 11 2012

Dr. Kathleen A. Dadey, Chief
California Delta Branch
U.S. Army Corps of Engineers
Sacramento District
1325 J Street, Room 1350
Sacramento, California 95814-2922

Subject: Programmatic Biological Opinion for the Laguna Creek Trail Camden Spur Project Sacramento County, California (Corps ID # SPK-2011-00034)

Dear Dr. Dadey:

This letter is in response to your May 27, 2011, letter and supporting documentation from the U.S. Army Corps of Engineers (Corps) to the U.S. Fish and Wildlife Service (Service) requesting formal consultation for the proposed Laguna Creek Trail Camden Spur Project (proposed project), Sacramento County, California. Your request was received by the Service on June 1, 2011. At issue are the potential affects of the proposed project on the federally-listed as endangered vernal pool tadpole shrimp (*Lepidurus packardi*), the federally-listed as threatened vernal pool fairy shrimp (*Branchinecta lynchi*), (collectively, vernal pool crustaceans), and the federally-listed as threatened giant garter snake (*Thamnophis gigas*) (snake). You determined that the proposed project may affect and is likely to adversely affect the vernal pool crustaceans and the snake. The proposed project is not located within any designated or proposed critical habitat for any federally-listed species; therefore, no critical habitat would be affected. The Service's primary concern and mandate is the protection and conservation of federally-listed species and designated critical habitat. This response is in accordance with section 7(a)(2) of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*) (Act), on the issuance of a permit under section 404 of the Clean Water Act of 1972, as amended (33 U.S.C. §1251 *et seq.*) for the filling of jurisdictional wetlands by the City of Elk Grove (applicant/City) as part of the Laguna Creek Trail Camden Spur Project (proposed project).

You requested that the proposed project be appended to the Service's February 28, 1996 *Programmatic Formal Endangered Species Act Consultation on Issuance of 404 Permits for Projects with Relatively Small Effects on Listed Vernal Pool Crustaceans Within the Jurisdiction of the Sacramento Field Office, California* (1-1-96-F-001) (Vernal Pool Programmatic Consultation); and the Service's November 13, 1997 *Programmatic Formal Consultation for*

U.S. Army Corps of Engineers 404 Permitted Projects with relatively Small Effects on the Giant Garter Snake within Butte, Colusa, Glenn, Fresno, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter, and Yolo Counties, California (1-1-97-F-0149) (Snake Programmatic Consultation). Based on our review of the available information, the Service has determined that it is appropriate to append the proposed project to the Vernal Pool and Snake Programmatic Consultations. This document represents the Service's biological opinion on the effects of the proposed project on vernal pool crustaceans and the snake. The findings and recommendations in this formal consultation are based on: 1) your May 27, 2011, letter; 2) the May 2011 *Laguna Creek Trail Camden Spur Project Biological Assessment: General Location: Laguna Creek, Elk Grove, California*; and 3) an October 18, 2011 site visit with Service and City staff.

BIOLOGICAL OPINION

Project Description

The project applicant, the City of Elk Grove, proposes to expand the City's existing Laguna Creek trail, and provide a safer route from an adjacent residential area to nearby commercial developments, schools and recreational facilities. The proposed project would extend the existing trail by approximately 0.6 mile and would offer connections to bike routes and adjacent trails such as the Elk Grove Creek trail. A trail spur providing access to the Laguna Creek trail would be created via a north-south alignment west of the California Family Fitness facility (CFF) north of Bond Road. The spur would extend north approximately 800 feet from the northern parking lot of CFF through a strip of undeveloped land, then turn east approximately 320 feet, and then turn north again for approximately 720 feet to connect to the northwest boundary of Camden Park. The proposed project would include a bridge crossing at Laguna Creek near its north end, approximately 100 feet downstream of a weir that forms a ponded portion of Laguna Creek south of Camden Park. Overall, the proposed project would result in temporary impacts to approximately 0.02 acre of Laguna Creek for the construction of the bridge.

Trail: The proposed trail would be a Class 1 off-street, two-lane bicycle and pedestrian 10-foot wide asphalt paved trail with 2 feet of decomposed granite on each side. The majority of the trail segment would have 2-foot wide shoulders and 4:1 fill slopes. At bridge approaches where fill slopes are proposed to be 2:1, shoulders would expand to a maximum of 5 feet in width on both sides of the trail. The asphalt would be 3-inches thick on a 6-inch compacted aggregate base. Some sections of the trail south of the proposed bridge may be slightly elevated up to 1-foot above existing grade with imported clean fill to maintain an elevation roughly correlating to the 2-year flood event. Flood waters above the 2-year flood elevation would cover the trail. Temporary construction easements varying from 2 feet to 5 feet in width would be necessary around the proposed trail for heavy equipment and staging areas. Two staging areas for bridge construction equipment and materials would be located north and south of Laguna Creek, west of the proposed crossing. Two locations have been identified, one south of the bridge and the other

between the two 90-degree bends where the trail trends east-west, for potential installation of park benches. The proposed trail would not result in any direct impacts to waters of the United States.

Bridge: The proposed bridge span is designed to clear Laguna Creek. The approximate width of the perennial creek limits at the crossing location is 63 feet, and the resulting overall bridge length would be 71.5 feet. The proposed bridge will have an approximately total width of 11 feet. The proposed bridge is designed to provide a minimum of 1 foot of freeboard above the Federal Emergency Management Agency (FEMA) 100-year water surface elevation of 34.5 feet. Cantilevered abutments and wing walls are proposed on each bank to retain the trail approach embankment and minimize the required bridge span length. The proposed bridge will be a single-span, pre-fabricated weathered structural steel Half-Through Underhung Truss System superstructure with a cast-in-place concrete deck. The bridge abutments will be founded on two 3-foot diameter cast-in-drilled-hole (CIDH) piles. The CIDH piles will be designed to resist scour at the abutments, and would be drilled to a depth of approximately 35 feet below ground surface. The bridge will be designed for pedestrian live loads and a vehicular live load of up to 20,000 pounds to accommodate a maintenance vehicle for inspection and maintenance.

The proposed project area encompasses approximately 35 acres within an area that is designated as commercial, open space and agricultural-residential (minimum five-acre). The proposed project area is mostly naturally vegetated. Laguna Creek flows through the northern portion of the proposed project site. Just downstream of the proposed bridge, Laguna Creek has been dammed with a cement weir to form Camden Lake. The dam is unstable, and water flows under and over the cement weir on either side of the dam. A man-made drainage ditch flows from the south into Laguna Creek just west of the proposed project site, which conveys stormwater flows from the adjacent commercial development. Upland plant communities and habitats within and adjacent to the proposed project site consist of urban, ruderal, annual grassland and riparian.

A total of 0.61 acre of waters of the U.S., including Laguna Creek, occurs within the proposed project area. In addition, there is 0.29 acre of isolated, intrastate waters with no interstate or foreign commerce connection within the proposed project area. Three vernal pools, totaling 0.045 acre, are located within 250 feet from the proposed trail and bridge. The proposed project will result in indirect impacts to 0.022 acre of vernal pool crustacean habitat. The proposed project site contains suitable aquatic habitat for the snake within the ordinary high water mark of Laguna Creek. The proposed project will result in temporary direct impacts to 0.02 acre of aquatic habitat for the giant garter snake. In addition, approximately 1.39 acres of suitable upland habitat exist for the snake adjacent to Laguna Creek, which will result in the permanent loss of approximately 0.62 acre, and temporary impacts to 0.77 acre of upland habitat for the giant garter snake.

Proposed Conservation Measures

In addition to the terms and conditions specified in the Vernal Pool Programmatic Consultation and the Snake Programmatic Consultation, the Applicant has proposed the following additional conservation measures to further reduce the potential impacts to listed species.

- A Service-approved biologist will be on-site to monitor all construction activities and will inform the construction foreman of the need to halt construction in the event that a listed species is observed.

- Open trenches will be covered overnight, or escape ramps for snakes will be created by excavating sloped-sides, installing ramps or providing another means of escape. Prior to construction activities each day, a qualified biological monitor will inspect the trenches to ensure the absence of any species. If a trapped snake is discovered, the animal will be allowed to escape, or a Service-approved biologist will assist in moving the animal.

- Personnel will inspect the project work area for wildlife before moving materials or equipment. In addition, crews will check for any species beneath all vehicles and within pipe segments that have been stationary for 30 minutes or more, prior to their movement.

- Only approved access routes will be utilized. A speed limit of 10 miles per hour will be observed on unpaved access routes, and crews will maintain awareness for wildlife in the roadway.

- In the event that heavy equipment needs to travel through or work in wetland areas, steel plates will be placed under the heavy equipment.

- All wetlands that can be avoided by construction activities will be fenced appropriately in order to ensure that construction equipment, materials, and personnel are excluded from these areas.

- Work crews will maintain a clean work area, including removal of all food trash from the site daily, to prevent attracting wildlife to the site.

- Vehicles and construction equipment will not be refueled within 100 feet of the seasonal wetland or Laguna Creek, if feasible. If this is not feasible, secondary containment will be used. Refueling of all vehicles and construction equipment will be conducted on paved surfaces or within secondary containment, and any spills will be cleaned up immediately. All vehicles and equipment will be properly maintained; vehicles or equipment leaking hazardous fluids will not be allowed entry to the project site.

- All portable toilets will be placed more than 200 feet from aquatic features.

- If dewatering is required, water will be discharged to an upland area located at least 100 feet from any wetlands or waterways. The flow rate of water will be controlled to prevent significant erosion or scouring of the area.

- To protect water quality, appropriate best management practices will be implemented to prevent excavated material from eroding off-site into the wetlands.

- After completion of construction activities, any temporary fill and construction debris will be removed, and disturbed areas will be restored to pre-construction conditions.

- No plastic monofilament fencing or other material will be utilized on this project.

Action Area

The action area is defined in 50 CFR §402.02, as "all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action." For the proposed action, the Service considers the action area to be the 35 acre Corps permit area.

Evaluation under Programmatic Consultations

Vernal Pool Crustaceans

This letter is an agreement by the Service to append the proposed project to the *February 28, 1996, Programmatic Formal Endangered Species Act Consultation on Issuance of 404 Permits for Projects with Relatively Small Effects on Listed Vernal Pool Crustaceans Within the Jurisdiction of the Sacramento Field Office, California* (1-1-96-F-001) and represents the Service's biological opinion on the effects of the proposed action. Conservation measures for projects appended to the Vernal Pool Programmatic Consultation involve the use of creation and preservation banks in combination with on-site conservation options where such options are appropriate. The proposed project will result in indirect impacts to 0.022 acre of vernal pool crustacean habitat.

The conservation measures identified in the Vernal Pool Programmatic Consultation include:

> **Preservation component**: For every acre of vernal pool habitat directly or indirectly affected, at least two vernal pool acres will be dedicated within a Service-approved preservation bank; or, based on Service evaluation of site-specific conservation values, three acres of vernal pool habitat may be preserved on the project site or another non-bank as approved by the Service.
>
> **Creation component**: For every acre of habitat directly affected, at least one vernal pool creation credit will be dedicated within a Service-approved habitat mitigation bank; or, based on Service evaluation of site-specific conservation values; two acres of vernal pool habitat will be created and monitored on the project site or on another non-bank site as approved by the Service.

Prior to groundbreaking, the City will preserve 0.044 acre of vernal pool crustacean habitat at a Service-approved Conservation Bank.

Giant Garter Snake

The Snake Programmatic Consultation identifies 3 levels of project impacts and appropriate conservation measures for each impact level (below). It is the Service's intent that following the Guidelines and the *Standard Avoidance and Minimization Measures during Construction Activities in Giant Garter Snake (Thamnophis gigas) Habitat* (Avoidance Measures) will reduce habitat degradation while increasing the protected habitat areas across the species' range. The Guidelines and Avoidance and Minimization Measures are included as Appendices A and C of the Snake Programmatic Consultation and are enclosed with this biological opinion.

The proposed project site contains suitable habitat for the snake within the ordinary high water mark of Laguna Creek. The proposed project will result in temporary direct impacts to 0.02 acre of aquatic habitat for the giant garter snake. In addition, approximately 1.39 acres of suitable upland habitat exist for the snake adjacent to Laguna Creek, which will result in the permanent loss of approximately 0.62 acre, and temporary impacts to 0.77 acre of upland habitat for the snake.

The agreed upon conservation responsibilities of the City are as follows:

1. Construction activities associated with the proposed project will result in temporary loss (Level 1 Effects) of approximately 0.02 acre of aquatic and 0.77 acre of suitable upland habitat for the snake. The City will follow the Level 1 measures for the temporary loss of habitat. The City will restore the temporarily impacted 0.77 acre of suitable upland habitat for the snake to pre-project conditions within the same season, or at most, the same calendar year. The City will monitor the restored areas with a photo-documentation report showing pre- and post-project area photos, due within one (1) year of the implementation of restoration. The City will revegetate the area of impacted upland snake habitat with the minimum seed quality accepted by the Corps to restore the areas to pre-project conditions.

2. Prior to groundbreaking, the City will purchase 1.86 acres of snake habitat credits at a Service-approved Conservation Bank (0.62@3:1 ratio).

3. The City shall also adhere to the terms and conditions of the Snake Programmatic Consultation and the Avoidance and Minimization Measures described in Appendices A and C.

Effects of the Action to Vernal Pool Crustaceans

Indirect Effects

The proposed project will result in indirect effects to vernal pool crustaceans that may occur from changes in precipitation run-off patterns within the adjacent ROW causing a change in the inundation period of the seasonal wetlands. Excavation and construction activities within the ROW will also result in changes to sediment run-off patterns affecting overall water quality dynamics within the seasonal wetlands during the rainy season. The proposed project has the potential to result in indirect effects to vernal pool crustaceans inhabiting a total of 0.022 acre of vernal pool crustacean habitat.

After reviewing the current status of vernal pool crustaceans, the environmental baseline for the action area, the effects of the proposed action, and the cumulative effects, it is the Service's biological opinion that the proposed project is not likely to jeopardize the continued existence of the vernal pool fairy shrimp or the vernal pool tadpole shrimp.

Effects of the Action to the Giant Garter Snake

Direct and Indirect Effects

Construction activities associated with the proposed project may result in the direct disturbance, displacement, injury, and/or mortality of snakes. Snakes may disperse across or bask on existing paved and unpaved roadways, and thus may be killed or injured by construction equipment or other vehicles accessing the proposed project site. Disturbance during construction activities may also cause snakes to move into or across areas of unsuitable habitat where they may be prone to higher rates of mortality from vehicles and predation.

The proposed project has the potential to result in direct and indirect effects to any snake(s) occupying the 35-acre action area. This includes direct loss of 0.62 acre of snake upland habitat and temporary effects to 0.02 acre of aquatic and 0.77 acre of upland snake habitat. The proposed project, as described, fits within the parameters of the level of take anticipated in the programmatic and is not likely to cause an appreciable reduction in the likelihood of both the survival and recovery of the snake in the wild.

INCIDENTAL TAKE STATEMENT

Section 9(a)(1) of the Act and Federal regulation pursuant to section 4(d) of the Act prohibit the take of endangered and threatened fish and wildlife species, respectively, without special exemption. Take is defined as harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct. Harass is defined by the Service as an intentional or negligent act or omission which creates the likelihood of injury to a listed species by annoying it to such an extent as to significantly disrupt normal behavioral patterns which include, but are not limited to, breeding, feeding, or sheltering. Harm is further defined by the

Service to include significant habitat modification or degradation that results in death or injury to listed species by impairing behavioral patterns including breeding, feeding, or sheltering. Incidental take is defined as take that is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity. Under the terms of section 7(b)(4) and section 7(o)(2), taking that is incidental to and not intended as part of the agency action is not considered to be prohibited taking under the Act provided that such taking is in compliance with this Incidental Take Statement.

The measures described within both the Vernal Pool and Snake Programmatic Consultations are non-discretionary, and must be implemented by the agency so that they become binding conditions of any grant or permit issued to the applicant, as appropriate, in order for the exemption in section 7(o)(2) to apply. The Corps, the lead Federal agency, has a continuing duty to regulate the activity covered by this incidental take statement. If the applicant: (1) fails to adhere to the terms and conditions of the incidental take statement through enforceable terms that are added to the permit or grant document; and/or (2) fails to retain oversight to ensure compliance with these terms and conditions, the protective coverage of section 7(o)(2) may lapse.

Amount or Extent of Take

Upon implementation of the reasonable and prudent measures of the Vernal Pool Programmatic Consultation and the Snake Programmatic Consultation the following levels of incidental take of the snake will be exempted from prohibitions of take under section 9 of the Act.

The Service expects that incidental take of vernal pool crustaceans and the snake will be difficult to detect or quantify for the following reasons: the cryptic, secretive nature of the snake; losses may be masked by seasonal fluctuations in numbers or other causes; vernal pool crustaceans may not emerge annually due to stochastic variations; and the species occur in habitat, or have life stages, that makes them difficult to detect. It is not possible to make an accurate estimate of the number of snakes and/or vernal pool crustaceans that will be harassed, harmed, injured, or killed during construction activities. In instances when take is difficult to detect, the Service may estimate anticipated take in numbers of individuals per amount of habitat lost or degraded as a result of the action. Therefore, the Service estimates that all snakes inhabiting 1.41 of aquatic and upland snake habitat acres may be harassed, harmed, injured, or killed, as a result of the proposed action; and that all vernal pool crustaceans inhabiting 0.022 acre may be injured, or killed, as a result of the proposed action.

REINITIATION – CLOSING STATEMENT

This concludes the Service's review of the Laguna Creek Trail Camden Spur project. As provided in 50 CFR 402.16, reinitiation of formal consultation is required where discretionary

Federal agency involvement or control over the action has been maintained (or is authorized by law) and if: (1) the amount or extent of incidental take is exceeded; (2) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion; (3) the agency action is subsequently modified in a manner that causes an effect to the listed species or critical habitat that was not considered in this opinion; or, (4) a new species is listed or critical habitat designated that may be affected by the action.

If you have any questions or concerns regarding this consultation please contact Terry Adelsbach, Senior Fish and Wildlife Biologist, or Kellie Berry, Chief, Sacramento Valley Division at the letterhead address or (916) 414-6645.

Sincerely,

for Susan Moore
Field Supervisor

Enclosures:
Appendices A and C of the Giant Garter Snake Programmatic

cc:
Lisa Gibson, Army Corps, Sacramento, CA
Jeannette Owen, PMC, Rancho Cordova, CA

Programmatic Consultation with the U.S. Army Corps of Engineers
404 Permitted Projects with Relatively Small Effects on the Giant Garter Snake within Butte, Colusa, Glenn, Fresno, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter and Yolo Counties, California

Appendix A
Guidelines for Restoration and/or Replacement of Giant Garter Snake Habitat

Replacement and Restoration Guidelines are provided together, as the two conservation measures may not be mutually exclusive. Replacement of habitat may also require restoration of some areas. Preserved habitat may additionally be improved for giant garter snake by using some of the restoration guidelines.

Reference sites

A nearby reference site should be chosen both for restoration of giant garter snake habitat and for creation of replacement habitat. The reference site will be used to determine the success of conservation efforts. For restoration of habitat, the pre-project condition may be used as a reference site if adequate documentation exists. For creation of replacement habitat or for restoration where pre-project conditions are not documented, the reference site should be nearby or adjacent and should represent high quality giant garter snake habitat.

Restoration of giant garter snake habitat

Restoration may include incorporating some of the Replacement guidelines to enhance habitat value for giant garter snake. Restoration should follow the guidelines outlined below:

1. Restoring giant garter snake habitat includes minimizing impacts of project activities to the existing habitat, including using silt fencing, designating environmentally sensitive areas, using protective mats, preventing runoff, and providing worker awareness training. Measures to minimize impacts include:

    a. Avoid construction activities within 200 feet from the banks of giant garter snake aquatic habitat. Confine movement of heavy equipment to existing roadways to minimize habitat disturbance.

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

    c. Confine clearing to the minimal area necessary to facilitate construction activities. Flag and designate avoided giant garter snake habitat within or adjacent to the project area as Environmentally Sensitive Areas. This area should be avoided by all construction personnel.

    d. Construction personnel should receive Service-approved worker environmental awareness training. This training instructs workers to recognize giant garter snakes and its habitat(s).

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

f. Any dewatered habitat should remain dry for at least 15 consecutive days after April 15 and prior to excavating or filling of the dewatered habitat.

2. Remove all construction debris and stockpiled materials.

3. Regrade area to preexisting contour, or a contour that would improve restoration potential of the site.

4. Replant and hydroseed the restoration area. Recommended plantings consist of a) wetland emergents, b) low-growing cover on or adjacent to banks, and c) upland plantings/hydroseeding mix to encourage use by other wildlife. Riparian plantings are not appropriate because shading may result in lack of basking sites. Native plantings are encouraged except where non-natives will provide additional values to wildlife habitat and will not become invasive in native communities. The applicant should obtain cuttings, plantings, plugs, or seeds, from local sources wherever possible. The applicant should attempt to restore conditions similar to that of adjacent or nearby habitats.

   a. Emergent wetland plants recommended for giant garter snake habitat are California bulrush (*Scirpus californicus*), cattail (*Typha* spp.), and water primrose (*Ludwigia peploides*). Additional wetland plantings may include common tule (*Scirpus acutus*), Baltic rush (*Juncus balticus*), or duckweed (*Lemna* spp.).

   b. Cover species on or adjacent to the bank may include California blackberry (*Rubus vitifolius*) or wild grape (*Vitis californica*), along with the hydroseeding mix recommended below.

   c. Upland plantings/hydroseeding mix: Disturbed soil surfaces such as levee slopes should be hydroseeded to prevent erosion. The Service recommends a mix of at least 20-40 percent native grass seeds [such as annual fescue (*Vulpia* spp.), California brome (*Bromus carinatus*), blue wildrye (*Elymus glaucus*), and needle grass (*Nassella* spp.)], 2-10 percent native forb seeds, five percent rose clover (*Trifolium hirtum*), and five percent alfalfa (*Medicago sativa*). Approximately 40-68 percent of the mixture may be non-aggressive European annual grasses [such as wild oats (*Avena sativa*), wheat (*Triticum* ssp.), and barley (*Hordeum vulgare*)]. The Corps will not include aggressive non-native grasses, such as perennial ryegrass (*Lolium perenne*), cheatgrass (*Bromus tectorum*), fescue (*Festuca* spp.), giant reed (*Arundo donax*), medusa-head (*Taeniatherum caput-medusae*), or Pampas grass (*Cortaderia selloana*) in the hydroseed mix. The Corps will not include endophyte-infected grasses in the mix. Mixes of one-hundred percent native grasses and forbs may also be used, and are encouraged.

Replacement of giant garter snake habitat

Location

Replacement location should be within the same population cluster boundaries (population clusters are defined in 58 FR 54053) as the habitat lost. For example: The boundaries of the Sacramento Basin population cluster are approximately, Highway 16 to the north, Sacramento River to the west, Twin Cities Road to the south, and the Folsom Aqueduct to the east. Habitat lost within this area must also be replaced within this area.

Habitat components

Giant Garter Snake Habitat. The giant garter snake inhabits marshes, sloughs, ponds, small lakes, low gradient streams, other waterways and agricultural wetlands such as irrigation and drainage canals and rice fields, and the adjacent uplands. Essential habitat components consist of (1) adequate water during the snake's active period, (early spring through mid-fall) to provide a prey base and cover; (2) emergent, herbaceous wetland vegetation, such as cattails and bulrushes, for escape cover and foraging habitat; (3) upland habitat for basking, cover, and retreat sites; and (4) higher elevation uplands for cover and refuge from flood waters. For the purposes of this programmatic opinion, a basic giant garter snake habitat unit will incorporate 2.00 acres (0.81 hectares) of surrounding upland for every 1.00 acre (0.40 hectare) of aquatic habitat. The 2.00 acres (0.81 hectares) of upland also may be defined as 218 linear feet (66 meters) of bankside habitat which incorporates adjacent uplands to a width of 200 feet (61 meters) from the edge of the bank.

Replacement habitat must provide the above mentioned essential habitat components and include the following:

1. All replacement habitat must include both upland and aquatic habitat components. Upland and aquatic habitat components must be included in the replacement habitat at a ratio of 2:1 upland acres to aquatic acres

2. A semi-permanent or permanent aquatic habitat which provides water during the active period for giant garter snakes (April through October) with suitable vegetative cover present. Linear or meandering channels with slow flowing water over mud or silt substrate are preferred.

3. Upland basking and retreat sites with low growing vegetation cover adjacent to aquatic habitat, and upland retreats and flood refugia with partially buried broken concrete or animal burrows.

4. Small fish and amphibian larvae for foraging, but predatory "gamefish" (bass, *Micropterus* spp.; sunfish, *Lepomis* spp.; catfish, *Ictalurus* spp. and *Ameiurus* spp.) absent or controlled.

5. An adequate buffer (at least 200 feet) from roadways to reduce vehicular mortality.

6. Follow planting recommendation provided above under restoration guidelines.

Monitoring

Habitat restoration

Restoration of habitat should be monitored for one year following implementation. Monitoring reports documenting the restoration effort should be submitted to the Service: (1) upon completion of the restoration implementation; and (2) one year from restoration implementation.

Monitoring reports should include photodocumentation, when restoration was completed, what materials were used, plantings (if specified) and justification of any substitutions to the Service recommended guidelines. Monitoring reports should also include recommendations for remedial actions and approval from the Service, if necessary, and justification from release of any further monitoring, if requested.

Creation of replacement habitat

Replacement habitat should be monitored for 5 years following implementation. Hydrology should be monitored for the first two years after creation of wetlands. The monitoring effort should continue for three additional years to ensure success criteria are met. Monitoring reports documenting implementation of conservation measures should be submitted to the Service: (1) upon completion of wetland creation; (2) yearly for the first two years of monitoring; and (3) 5 years from implementation. Monitoring reports should include photodocumentation, when restoration was completed, what materials were used, plantings (if specified) and justification of any substitutions to the Service recommended guidelines. Monitoring reports should also include recommendations for remedial actions and approval from the Service, if necessary, and justification from release of any further monitoring, if requested.

Success criteria for replacement habitat:

1. At completion of monitoring, the cover measured on the habitat area should be 90 percent of cover measured on the reference site.

2. At completion of monitoring, the species composition measured on the habitat area should be 90 percent of that measured on the reference site.

3. At completion of monitoring, wetlands created on the site should meet Corps jurisdictional criteria.

Maintenance and management of replacement giant garter snake habitat

1. A final management plan of replacement habitat must be approved by the Service.

2. All maintenance activities should follow Standard Avoidance and Minimization Measures During Construction Activities in Giant Garter Snake Habitat.

3. Additional guidance includes:

    a. Canal Maintenance - Hand clearing of canals is preferred for removal of excessive vegetation or debris. Any equipment should be operated from the bank top. Excavate from only one side of the canal during a given year. Avoid excavating the banks above the high water level. Preferably, one side of the canal should be left undisturbed indefinitely (the preferred side would be the west or north side) so that emergent vegetation and bank side cover is left in place.

    b. Place the spoils from canal clearing in a designated location, rather than along bank tops. This will prevent burying or crushing snakes basking on the banks, or trapping snakes taking cover in burrows or bank-top soil crevices.

    c. Vegetation control - Uplands should not be disced. Leave vegetation on levees and canal sides wherever possible. Mowing to control vegetation should take place July through September and mower blades should be raised at least six inches to avoid injuring snakes and to leave some grassy cover.

d. Traffic - Control vehicle access to avoid vehicular mortality of giant garter snakes.

4. Use a water maintenance regime that will maintain some open water to provide vegetated edge for giant garter snake to forage along.

5. Eradicate/control non-natives and invasive exotics.

Compatible uses of giant garter snake replacement habitat:

Rice farming is a compatible land use for adjacent properties.

Uses of giant garter snake replacement habitat that are incompatible with the habitat of giant garter snake, or represent threats to giant garter snakes include row cropping on uplands, orchards on uplands, OHV (off-highway vehicle) use, and combining with riparian habitat creation which requires dense cover or SRA (shaded riverine aquatic) habitat.

Endangered Species Div., Sacramento Fish & Wildlife Office, U.S. Fish & Wildlife Service

Programmatic Consultation with the U.S. Army Corps of Engineers
404 Permitted Projects with Relatively Small Effects on the Giant Garter Snake within Butte, Colusa, Glenn, Fresno, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter and Yolo Counties, California

Appendix C
Standard Avoidance and Minimization Measures During Construction Activities in Giant Garter Snake (*Thamnophis gigas*) Habitat

HABITAT TYPE:

Marshes, sloughs, ponds, small lakes, low gradient streams, irrigation and drainage canals, and rice fields. Permanent aquatic habitat, or seasonally flooded during the snake's active season (early-spring through mid-fall); with herbaceous wetland vegetation, such as cattails and bulrushes, grassy banks (often salt grass), and uplands for cover and retreat sites during the snake's active season and for refuge from flood waters during the dormant season (winter). Giant garter snakes are typically absent from larger rivers because of lack of suitable habitat, and from wetlands with sand, gravel, or rock substrates. Some riparian woodlands may not provide suitable habitat because of excessive shade, lack of basking sites, and absence of giant garter snake prey.

AVOIDANCE AND MINIMIZATION MEASURES:

1. Avoid construction activities within 200 feet from the banks of giant garter snake aquatic habitat. Confine movement of heavy equipment to existing roadways to minimize habitat disturbance.

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

3. Confine clearing to the minimal area necessary to facilitate construction activities. Flag and designate avoided giant garter snake habitat within or adjacent to the project area as Environmentally Sensitive Areas. This area should be avoided by all construction personnel.

4. Construction personnel should receive Service-approved worker environmental awareness training. This training instructs workers to recognize giant garter snakes and their habitat(s).

5. 24-hours prior to construction activities, the project area should be surveyed for giant garter snakes. Survey of the project area should be repeated if a lapse in construction activity of two weeks or greater has occurred. If a snake is encountered during construction, activities shall cease until appropriate corrective measures have been completed or it has been determined that the snake will not be harmed. Report any sightings and any incidental take to the Service immediately by telephone at (916) 414-6600.

6. Any dewatered habitat should remain dry for at least 15 consecutive days after April 15 and prior to excavating or filling of the dewatered habitat.
7. After completion of construction activities, remove any temporary fill and construction debris and, wherever feasible, restore disturbed areas to pre-project conditions.

Restoration work may include such activities as replanting species removed from banks or replanting emergent vegetation in the active channel.

8. Follow the conservation measures in Table 1 to minimize the effects of loss and disturbance of habitat on giant garter snakes. Replacement ratios are based on the acreage and on the duration of disturbance.

TABLE 1 - SUMMARY OF GIANT GARTER SNAKE CONSERVATION MEASURES

	IMPACTS: DURATION	**IMPACTS:** ACRES	**CONSERVATION MEASURE:** COMPENSATION
LEVEL 1	1 season	Less than 20 and temporary	Restoration
LEVEL 2	2 seasons	Less than 20 and temporary	Restoration plus 1:1 replacement
LEVEL 3	More than 2 seasons and temporary	Less than 20 and temporary	3:1 Replacement (or restoration plus 2:1 replacement)
	Permanent loss	Less than 3 acres total giant garter snake habitat AND Less than 1 acre aquatic habitat; OR Less than 218 linear feet bank habitat	3:1 Replacement

Giant garter snake habitat includes 2.0 acres of surrounding upland habitat for every 1.0 acre of aquatic habitat. The 2.0 acres of upland habitat also may be defined as 218 linear feet of bankside habitat which incorporates adjacent uplands to a width of 200 feet from the edge of each bank. Each acre of created aquatic habitat should be supported by two acres of surrounding upland habitat. Compensation may include creating upland refuges and hibernacula for the giant garter snake that are above the 100-year flood plain.

A season is defined as the calendar year period between May 1 and October 1, the active period for giant garter snake when mortality is less likely to occur.

Appendix B Database Search Results

U.S. Fish & Wildlife Service

Sacramento Fish & Wildlife Office

Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Counties and/or U.S.G.S. 7 1/2 Minute Quads you requested

Document Number: 140625123349

Current as of: June 25, 2014

Quad Lists

Listed Species

Invertebrates

Branchinecta conservatio
- Conservancy fairy shrimp (E)

Branchinecta lynchi
- Critical habitat, vernal pool fairy shrimp (X)
- vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus
- Critical habitat, valley elderberry longhorn beetle (X)
- valley elderberry longhorn beetle (T)

Elaphrus viridis
- delta green ground beetle (T)

Lepidurus packardi
- Critical habitat, vernal pool tadpole shrimp (X)
- vernal pool tadpole shrimp (E)

Fish

Acipenser medirostris
- green sturgeon (T) (NMFS)

Hypomesus transpacificus
- Critical habitat, delta smelt (X)
- delta smelt (T)

Oncorhynchus mykiss
- Central Valley steelhead (T) (NMFS)
- Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha
- Central Valley spring-run chinook salmon (T) (NMFS)
- Critical Habitat, Central Valley spring-run chinook (X) (NMFS)
- Critical habitat, winter-run chinook salmon (X) (NMFS)
- winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense
- California tiger salamander, central population (T)

Rana draytonii
- California red-legged frog (T)

Reptiles

Thamnophis gigas
- giant garter snake (T)

Birds

Vireo bellii pusillus
- Least Bell's vireo (E)

Plants

Calystegia stebbinsii
Stebbins's morning-glory (E)

Castilleja campestris ssp. succulenta
succulent (=fleshy) owl's-clover (T)

Ceanothus roderickii
Pine Hill ceanothus (E)

Fremontodendron californicum ssp. decumbens
Pine Hill flannelbush (E)

Galium californicum ssp. sierrae
El Dorado bedstraw (E)

Orcuttia tenuis
Critical habitat, slender Orcutt grass (X)
slender Orcutt grass (T)

Orcuttia viscida
Critical habitat, Sacramento Orcutt grass (X)
Sacramento Orcutt grass (E)

Senecio layneae
Layne's butterweed (=ragwort) (T)

Quads Containing Listed, Proposed or Candidate Species:

ELK GROVE (496A)
FLORIN (496B)
BRUCEVILLE (496C)
GALT (496D)
COURTLAND (497D)
CLARKSVILLE (511A)
SACRAMENTO EAST (512C)
CARMICHAEL (512D)
SACRAMENTO WEST (513D)

County Lists

Sacramento County

Listed Species

Invertebrates

Apodemia mormo langei
Lange's metalmark butterfly (E)

Branchinecta conservatio
Conservancy fairy shrimp (E)

Branchinecta lynchi
Critical habitat, vernal pool fairy shrimp (X)
vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus
Critical habitat, valley elderberry longhorn beetle (X)
valley elderberry longhorn beetle (T)

Elaphrus viridis
delta green ground beetle (T)

Lepidurus packardi

Critical habitat, vernal pool tadpole shrimp (X)
vernal pool tadpole shrimp (E)

Fish

Acipenser medirostris
green sturgeon (T) (NMFS)

Hypomesus transpacificus
Critical habitat, delta smelt (X)
delta smelt (T)

Oncorhynchus mykiss
Central Valley steelhead (T) (NMFS)
Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha
Central Valley spring-run chinook salmon (T) (NMFS)
Critical Habitat, Central Valley spring-run chinook (X) (NMFS)
Critical habitat, winter-run chinook salmon (X) (NMFS)
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense
California tiger salamander, central population (T)
Critical habitat, CA tiger salamander, central population (X)

Rana draytonii
California red-legged frog (T)

Reptiles

Thamnophis gigas
giant garter snake (T)

Birds

Charadrius alexandrinus nivosus
western snowy plover (T)

Rallus longirostris obsoletus
California clapper rail (E)

Sternula antillarum (=Sterna, =albifrons) browni
California least tern (E)

Vireo bellii pusillus
Least Bell's vireo (E)

Mammals

Reithrodontomys raviventris
salt marsh harvest mouse (E)

Sylvilagus bachmani riparius
riparian brush rabbit (E)

Vulpes macrotis mutica
San Joaquin kit fox (E)

Plants

Arctostaphylos myrtifolia
Ione manzanita (T)

Calystegia stebbinsii
Stebbins's morning-glory (E)

Castilleja campestris ssp. succulenta
Critical habitat, succulent (=fleshy) owl's-clover (X)
succulent (=fleshy) owl's-clover (T)

Ceanothus roderickii
Pine Hill ceanothus (E)

Cordylanthus mollis ssp. mollis
soft bird's-beak (E)

Cordylanthus palmatus
palmate-bracted bird's-beak (E)

Eriogonum apricum var. apricum
Ione buckwheat (E)

Eriogonum apricum var. prostratum
Irish Hill buckwheat (E)

Erysimum capitatum ssp. angustatum
Contra Costa wallflower (E)
Critical Habitat, Contra Costa wallflower (X)

Fremontodendron californicum ssp. decumbens
Pine Hill flannelbush (E)

Galium californicum ssp. sierrae
El Dorado bedstraw (E)

Lasthenia conjugens
Contra Costa goldfields (E)

Neostapfia colusana
Colusa grass (T)

Oenothera deltoides ssp. howellii
Antioch Dunes evening-primrose (E)
Critical habitat, Antioch Dunes evening-primrose (X)

Orcuttia tenuis
Critical habitat, slender Orcutt grass (X)

slender Orcutt grass (T)

Orcuttia viscida
Critical habitat, Sacramento Orcutt grass (X)
Sacramento Orcutt grass (E)

Senecio layneae
Layne's butterweed (=ragwort) (T)

Sidalcea keckii
Keck's checker-mallow (=checkerbloom) (E)

Candidate Species

Birds

Coccyzus americanus occidentalis
Western yellow-billed cuckoo (C)

Key:

(E) *Endangered* - Listed as being in danger of extinction.
(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.
(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.
(NMFS) Species under the Jurisdiction of the National Oceanic & Atmospheric Administration Fisheries Service. Consult with them directly about these species.
Critical Habitat - Area essential to the conservation of a species.
(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.
(C) *Candidate* - Candidate to become a proposed species.
(V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
(X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online Inventory of Rare and Endangered Plants.

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our Protocol and Recovery Permits pages.

For plant surveys, we recommend using the Guidelines for Conducting and Reporting Botanical Inventories. The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

> Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal consultation with the Service.

  During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

  Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our Map Room page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. More info

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6520.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be September 23, 2014.

CNDDB 9-Quad Species List 328 records.

Element Type	Scientific Name	Common Name	Element Code	Federal Status	State Status	CDFW Status	CA Rare Plant Rank	Quad Code	Quad Name	Data Status	Taxonomic Sort
Animals - Amphibians	Ambystoma californiense	California tiger salamander	AAAAA01180	Threatened	Threatened	SSC	-	3812133	Galt	Mapped and Unprocessed	Animals - Amphibians - Ambystomatidae - Ambystoma californiense
Animals - Amphibians	Spea hammondii	western spadefoot	AAABF02020	None	None	SSC	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Amphibians - Scaphiopodidae - Spea hammondii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812144	Florin	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812154	Sacramento East	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812143	Elk Grove	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP, WL	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Aquila chrysaetos
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3812153	Carmichael	Mapped	Animals - Birds - Accipitridae - Buteo regalis
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3812144	Florin	Mapped	Animals - Birds - Accipitridae - Buteo regalis
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812143	Elk Grove	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812135	Courtland	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812133	Galt	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812134	Bruceville	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812153	Carmichael	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812154	Sacramento East	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812144	Florin	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812145	Clarksburg	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812135	Courtland	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812135	Courtland	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus

Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812143	Elk Grove	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812133	Galt	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812134	Bruceville	Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3812153	Carmichael	Unprocessed	Animals - Birds - Accipitridae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3812134	Bruceville	Unprocessed	Animals - Birds - Accipitridae - Pandion haliaetus
Animals - Birds	Chaetura vauxi	Vaux's swift	ABNUA03020	None	None	SSC	-	3812153	Carmichael	Unprocessed	Animals - Birds - Apodidae - Chaetura vauxi
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812133	Galt	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812133	Galt	Mapped	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812154	Sacramento East	Mapped	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Botaurus lentiginosus	American bittern	ABNGA01020	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Ardeidae - Botaurus lentiginosus

Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
Animals - Birds	Ixobrychus exilis	least bittern	ABNGA02010	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Birds - Ardeidae - Ixobrychus exilis
Animals - Birds	Ixobrychus exilis	least bittern	ABNGA02010	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Ardeidae - Ixobrychus exilis
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3812133	Galt	Mapped	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Cardinalis cardinalis	northern cardinal	ABPBX60010	None	None	WL	-	3812133	Galt	Unprocessed	Animals - Birds - Cardinalidae - Cardinalis cardinalis
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Pica nuttalli	yellow-billed magpie	ABPAV09020	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Corvidae - Pica nuttalli
Animals - Birds	Coccyzus americanus occidentalis	western yellow-billed cuckoo	ABNRB02022	Proposed Threatened	Endangered	-	-	3812145	Clarksburg	Mapped	Animals - Birds - Cuculidae - Coccyzus americanus occidentalis
Animals - Birds	Coccyzus americanus occidentalis	western yellow-billed cuckoo	ABNRB02022	Proposed Threatened	Endangered	-	-	3812134	Bruceville	Unprocessed	Animals - Birds - Cuculidae - Coccyzus americanus occidentalis
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812134	Bruceville	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Chondestes grammacus	lark sparrow	ABPBX96010	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Emberizidae - Chondestes grammacus

Animals - Birds	Chondestes grammacus	lark sparrow	ABPBX96010	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Emberizidae - Chondestes grammacus
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812155	Sacramento West	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812154	Sacramento East	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812145	Clarksburg	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812144	Florin	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812134	Bruceville	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812135	Courtland	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Spizella breweri	Brewer's sparrow	ABPBX94040	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Emberizidae - Spizella breweri
Animals - Birds	Spizella breweri	Brewer's sparrow	ABPBX94040	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Emberizidae - Spizella breweri
Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	3812144	Florin	Mapped	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Falconidae - Falco mexicanus
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Falconidae - Falco mexicanus
Animals - Birds	Grus canadensis canadensis	lesser sandhill crane	ABNMK01011	None	None	SSC	-	3812134	Bruceville	Unprocessed	Animals - Birds - Gruidae - Grus canadensis canadensis
Animals - Birds	Grus canadensis tabida	greater sandhill crane	ABNMK01014	None	Threatened	FP	-	3812134	Bruceville	Unprocessed	Animals - Birds - Gruidae - Grus canadensis tabida
Animals - Birds	Grus canadensis tabida	greater sandhill crane	ABNMK01014	None	Threatened	FP	-	3812144	Florin	Unprocessed	Animals - Birds - Gruidae - Grus canadensis tabida
Animals - Birds	Progne subis	purple martin	ABPAU01010	None	None	SSC	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Progne subis
Animals - Birds	Progne subis	purple martin	ABPAU01010	None	None	SSC	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Progne subis
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812154	Sacramento East	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812153	Carmichael	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812153	Carmichael	Mapped	Animals - Birds - Icteridae - Agelaius tricolor

Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812143	Elk Grove	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812135	Courtland	Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812134	Bruceville	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812133	Galt	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Xanthocephalus xanthocephalus	yellow-headed blackbird	ABPBXB3010	None	None	SSC	-	3812144	Florin	Mapped	Animals - Birds - Icteridae - Xanthocephalus xanthocephalus
Animals - Birds	Xanthocephalus xanthocephalus	yellow-headed blackbird	ABPBXB3010	None	None	SSC	-	3812145	Clarksburg	Mapped	Animals - Birds - Icteridae - Xanthocephalus xanthocephalus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3812134	Bruceville	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Sternula antillarum browni	California least tern	ABNNM08103	Endangered	Endangered	FP	-	3812144	Florin	Unprocessed	Animals - Birds - Laridae - Sternula antillarum browni
Animals - Birds	Baeolophus inornatus	oak titmouse	ABPAW01100	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Paridae - Baeolophus inornatus
Animals - Birds	Dendroica occidentalis	hermit warbler	ABPBX03090	None	None	-	-	3812133	Galt	Unprocessed	Animals - Birds - Parulidae - Dendroica occidentalis
Animals - Birds	Dendroica petechia brewsteri	yellow warbler	ABPBX03018	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Parulidae - Dendroica petechia brewsteri
Animals - Birds	Icteria virens	yellow-breasted chat	ABPBX24010	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Parulidae - Icteria virens
Animals - Birds	Phalacrocorax auritus	double-crested cormorant	ABNFD01020	None	None	WL	-	3812134	Bruceville	Unprocessed	Animals - Birds - Phalacrocoracidae - Phalacrocorax auritus
Animals - Birds	Phalacrocorax auritus	double-crested cormorant	ABNFD01020	None	None	WL	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Phalacrocoracidae - Phalacrocorax auritus
Animals - Birds	Picoides nuttallii	Nuttall's woodpecker	ABNYF07020	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Picidae - Picoides nuttallii
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia

Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812134	Bruceville	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812133	Galt	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Plegadis chihi	white-faced ibis	ABNGE02020	None	None	WL	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Threskiornithidae - Plegadis chihi
Animals - Birds	Vireo bellii pusillus	least Bell's vireo	ABPBW01114	Endangered	Endangered	-	-	3812155	Sacramento West	Mapped	Animals - Birds - Vireonidae - Vireo bellii pusillus
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812145	Clarksburg	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812133	Galt	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812134	Bruceville	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812135	Courtland	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812133	Galt	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis

Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Dumontia oregonensis	hairy water flea	ICBRA23010	None	None	-	-	3812153	Carmichael	Mapped	Animals - Crustaceans - Dumontiidae - Dumontia oregonensis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812145	Clarksburg	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812133	Galt	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812134	Bruceville	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812135	Courtland	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812134	Bruceville	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812133	Galt	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812145	Clarksburg	Mapped	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi

Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Fish	Acipenser transmontanus	white sturgeon	AFCAA01050	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Acipenseridae - Acipenser transmontanus
Animals - Fish	Archoplites interruptus	Sacramento perch	AFCQB07010	None	None	SSC	-	3812155	Sacramento West	Mapped	Animals - Fish - Centrarchidae - Archoplites interruptus
Animals - Fish	Lavinia exilicauda exilicauda	Central Valley hitch	AFCJB19012	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Cyprinidae - Lavinia exilicauda exilicauda
Animals - Fish	Lavinia exilicauda exilicauda	Central Valley hitch	AFCJB19012	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Cyprinidae - Lavinia exilicauda exilicauda
Animals - Fish	Lavinia exilicauda exilicauda	Central Valley hitch	AFCJB19012	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Fish - Cyprinidae - Lavinia exilicauda exilicauda
Animals - Fish	Mylopharodon conocephalus	hardhead	AFCJB25010	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Cyprinidae - Mylopharodon conocephalus
Animals - Fish	Mylopharodon conocephalus	hardhead	AFCJB25010	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Cyprinidae - Mylopharodon conocephalus
Animals - Fish	Mylopharodon conocephalus	hardhead	AFCJB25010	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Cyprinidae - Mylopharodon conocephalus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812145	Clarksburg	Mapped and Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812144	Florin	Mapped	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812134	Bruceville	Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812135	Courtland	Mapped and Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Hysterocarpus traski traski	Sacramento-San Joaquin tule perch	AFCQK02012	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Fish - Embiotocidae - Hysterocarpus traski traski
Animals - Fish	Hysterocarpus traski traski	Sacramento-San Joaquin tule perch	AFCQK02012	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Embiotocidae - Hysterocarpus traski traski

Animals - Fish	Hysterocarpus traski traski	Sacramento-San Joaquin tule perch	AFCQK02012	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Embiotocidae - Hysterocarpus traski traski
Animals - Fish	Hysterocarpus traski traski	Sacramento-San Joaquin tule perch	AFCQK02012	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Embiotocidae - Hysterocarpus traski traski
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812134	Bruceville	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812135	Courtland	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	SSC	-	3812135	Courtland	Mapped	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	SSC	-	3812145	Clarksburg	Mapped	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	SSC	-	3812144	Florin	Mapped	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	SSC	-	3812155	Sacramento West	Mapped	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Lampetra ayresii	river lamprey	AFBAA02030	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra ayresii
Animals - Fish	Lampetra ayresii	river lamprey	AFBAA02030	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra ayresii
Animals - Fish	Lampetra ayresii	river lamprey	AFBAA02030	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra ayresii
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - central California coast DPS	AFCHA0209G	Threatened	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812145	Clarksburg	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus

Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812144	Florin	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - central California coast DPS	AFCHA0209G	Threatened	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812154	Sacramento East	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812153	Carmichael	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812133	Galt	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812134	Bruceville	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812135	Courtland	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812143	Elk Grove	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - central California coast DPS	AFCHA0209G	Threatened	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812155	Sacramento West	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - spring-run Klamath-Trinity Rivers pop.	AFCHA02056	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	-	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	-	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - spring-run Klamath-Trinity Rivers pop.	AFCHA02056	None	None	SSC	-	3812135	Courtland	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	-	-	3812135	Courtland	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha

Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	-	-	3812135	Courtland	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812135	Courtland	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812134	Bruceville	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - spring-run Klamath-Trinity Rivers pop.	AFCHA02056	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Insects	Cicindela hirticollis abrupta	Sacramento Valley tiger beetle	IICOL02106	None	None	-	-	3812155	Sacramento West	Mapped	Animals - Insects - Carabidae - Cicindela hirticollis abrupta
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus

Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812133	Galt	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812134	Bruceville	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812135	Courtland	Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812143	Elk Grove	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Hydrochara rickseckeri	Ricksecker's water scavenger beetle	IICOL5V010	None	None	-	-	3812134	Bruceville	Mapped	Animals - Insects - Hydrophilidae - Hydrochara rickseckeri
Animals - Insects	Hydrochara rickseckeri	Ricksecker's water scavenger beetle	IICOL5V010	None	None	-	-	3812153	Carmichael	Mapped	Animals - Insects - Hydrophilidae - Hydrochara rickseckeri
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812153	Carmichael	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812154	Sacramento East	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812145	Clarksburg	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812144	Florin	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812134	Bruceville	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812135	Courtland	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Lasiurus blossevillii	western red bat	AMACC05060	None	None	SSC	-	3812135	Courtland	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus blossevillii
Animals - Mammals	Lasiurus blossevillii	western red bat	AMACC05060	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus blossevillii
Animals - Mammals	Lasiurus blossevillii	western red bat	AMACC05060	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus blossevillii
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus cinereus

Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812155	Sacramento West	Mapped	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Myotis ciliolabrum	western small-footed myotis	AMACC01140	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis ciliolabrum
Animals - Mammals	Myotis lucifugus	little brown bat	AMACC01010	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis lucifugus
Animals - Mammals	Myotis lucifugus	little brown bat	AMACC01010	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis lucifugus
Animals - Mammals	Myotis lucifugus	little brown bat	AMACC01010	None	None	-	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis lucifugus
Animals - Mammals	Myotis lucifugus	little brown bat	AMACC01010	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis lucifugus
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812135	Courtland	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812143	Elk Grove	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812134	Bruceville	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812133	Galt	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812144	Florin	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata

Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812153	Carmichael	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812145	Clarksburg	Unprocessed	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812144	Florin	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812133	Galt	Mapped and Unprocessed	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812134	Bruceville	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812143	Elk Grove	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812135	Courtland	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Community - Terrestrial	Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	-	-	3812135	Courtland	Mapped	Community - Terrestrial - Coastal and Valley Freshwater Marsh
Community - Terrestrial	Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	-	-	3812134	Bruceville	Mapped	Community - Terrestrial - Coastal and Valley Freshwater Marsh
Community - Terrestrial	Elderberry Savanna	Elderberry Savanna	CTT63440CA	None	None	-	-	3812154	Sacramento East	Mapped	Community - Terrestrial - Elderberry Savanna
Community - Terrestrial	Elderberry Savanna	Elderberry Savanna	CTT63440CA	None	None	-	-	3812155	Sacramento West	Mapped	Community - Terrestrial - Elderberry Savanna
Community - Terrestrial	Great Valley Cottonwood Riparian Forest	Great Valley Cottonwood Riparian Forest	CTT61410CA	None	None	-	-	3812155	Sacramento West	Mapped	Community - Terrestrial - Great Valley Cottonwood Riparian Forest
Community - Terrestrial	Great Valley Mixed Riparian Forest	Great Valley Mixed Riparian Forest	CTT61420CA	None	None	-	-	3812134	Bruceville	Mapped	Community - Terrestrial - Great Valley Mixed Riparian Forest
Community - Terrestrial	Great Valley Valley Oak Riparian Forest	Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	-	-	3812134	Bruceville	Mapped	Community - Terrestrial - Great Valley Valley Oak Riparian Forest
Community - Terrestrial	Great Valley Valley Oak Riparian Forest	Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	-	-	3812133	Galt	Mapped	Community - Terrestrial - Great Valley Valley Oak Riparian Forest
Community - Terrestrial	Great Valley Valley Oak Riparian Forest	Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	-	-	3812143	Elk Grove	Mapped	Community - Terrestrial - Great Valley Valley Oak Riparian Forest
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812143	Elk Grove	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812133	Galt	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool

Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812134	Bruceville	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812153	Carmichael	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812144	Florin	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Valley Oak Woodland	Valley Oak Woodland	CTT71130CA	None	None	-	-	3812134	Bruceville	Mapped	Community - Terrestrial - Valley Oak Woodland
Community - Terrestrial	Valley Oak Woodland	Valley Oak Woodland	CTT71130CA	None	None	-	-	3812133	Galt	Mapped	Community - Terrestrial - Valley Oak Woodland
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812133	Galt	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812135	Courtland	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812134	Bruceville	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812153	Carmichael	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812154	Sacramento East	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Cicuta maculata var. bolanderi	Bolander's water-hemlock	PDAPI0M051	None	None	-	2B.1	3812135	Courtland	Mapped	Plants - Vascular - Apiaceae - Cicuta maculata var. bolanderi
Plants - Vascular	Cicuta maculata var. bolanderi	Bolander's water-hemlock	PDAPI0M051	None	None	-	2B.1	3812134	Bruceville	Mapped	Plants - Vascular - Apiaceae - Cicuta maculata var. bolanderi
Plants - Vascular	Lilaeopsis masonii	Mason's lilaeopsis	PDAPI19030	None	Rare	-	1B.1	3812134	Bruceville	Mapped	Plants - Vascular - Apiaceae - Lilaeopsis masonii
Plants - Vascular	Lilaeopsis masonii	Mason's lilaeopsis	PDAPI19030	None	Rare	-	1B.1	3812145	Clarksburg	Mapped	Plants - Vascular - Apiaceae - Lilaeopsis masonii
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812145	Clarksburg	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812144	Florin	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812134	Bruceville	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812135	Courtland	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812155	Sacramento West	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis

Plants - Vascular	Hesperevax caulescens	hogwallow starfish	PDASTE5020	None	None	-	4.2	3812144	Florin	Unprocessed	Plants - Vascular - Asteraceae - Hesperevax caulescens
Plants - Vascular	Lasthenia ferrisiae	Ferris' goldfields	PDAST5L070	None	None	-	4.2	3812134	Bruceville	Unprocessed	Plants - Vascular - Asteraceae - Lasthenia ferrisiae
Plants - Vascular	Symphyotrichum lentum	Suisun Marsh aster	PDASTE8470	None	None	-	1B.2	3812155	Sacramento West	Mapped	Plants - Vascular - Asteraceae - Symphyotrichum lentum
Plants - Vascular	Lepidium latipes var. heckardii	Heckard's pepper-grass	PDBRA1M0K1	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Brassicaceae - Lepidium latipes var. heckardii
Plants - Vascular	Lepidium latipes var. heckardii	Heckard's pepper-grass	PDBRA1M0K1	None	None	-	1B.2	3812145	Clarksburg	Mapped	Plants - Vascular - Brassicaceae - Lepidium latipes var. heckardii
Plants - Vascular	Brasenia schreberi	watershield	PDCAB01010	None	None	-	2B.3	3812134	Bruceville	Mapped	Plants - Vascular - Cabombaceae - Brasenia schreberi
Plants - Vascular	Brasenia schreberi	watershield	PDCAB01010	None	None	-	2B.3	3812135	Courtland	Mapped	Plants - Vascular - Cabombaceae - Brasenia schreberi
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812133	Galt	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812144	Florin	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812144	Florin	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812153	Carmichael	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812133	Galt	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812134	Bruceville	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Cuscuta obtusiflora var. glandulosa	Peruvian dodder	PDCUS01111	None	None	-	2B.2	3812144	Florin	Mapped	Plants - Vascular - Cuscutaceae - Cuscuta obtusiflora var. glandulosa
Plants - Vascular	Carex comosa	bristly sedge	PMCYP032Y0	None	None	-	2B.1	3812145	Clarksburg	Mapped	Plants - Vascular - Cyperaceae - Carex comosa
Plants - Vascular	Carex comosa	bristly sedge	PMCYP032Y0	None	None	-	2B.1	3812135	Courtland	Mapped	Plants - Vascular - Cyperaceae - Carex comosa
Plants - Vascular	Carex comosa	bristly sedge	PMCYP032Y0	None	None	-	2B.1	3812134	Bruceville	Mapped	Plants - Vascular - Cyperaceae - Carex comosa
Plants - Vascular	Astragalus tener var. ferrisiae	Ferris' milk-vetch	PDFAB0F8R3	None	None	-	1B.1	3812155	Sacramento West	Mapped	Plants - Vascular - Fabaceae - Astragalus tener var. ferrisiae
Plants - Vascular	Lathyrus jepsonii var. jepsonii	Delta tule pea	PDFAB250D2	None	None	-	1B.2	3812135	Courtland	Mapped	Plants - Vascular - Fabaceae - Lathyrus jepsonii var. jepsonii

Plants - Vascular	Lathyrus jepsonii var. jepsonii	Delta tule pea	PDFAB250D2	None	None	-	1B.2	3812134	Bruceville	Mapped	Plants - Vascular - Fabaceae - Lathyrus jepsonii var. jepsonii
Plants - Vascular	Trifolium hydrophilum	saline clover	PDFAB400R5	None	None	-	1B.2	3812134	Bruceville	Mapped	Plants - Vascular - Fabaceae - Trifolium hydrophilum
Plants - Vascular	Trifolium hydrophilum	saline clover	PDFAB400R5	None	None	-	1B.2	3812145	Clarksburg	Mapped	Plants - Vascular - Fabaceae - Trifolium hydrophilum
Plants - Vascular	Trifolium hydrophilum	saline clover	PDFAB400R5	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Fabaceae - Trifolium hydrophilum
Plants - Vascular	Juglans hindsii	Northern California black walnut	PDJUG02040	None	None	-	1B.1	3812144	Florin	Mapped	Plants - Vascular - Juglandaceae - Juglans hindsii
Plants - Vascular	Juglans hindsii	Northern California black walnut	PDJUG02040	None	None	-	1B.1	3812145	Clarksburg	Mapped	Plants - Vascular - Juglandaceae - Juglans hindsii
Plants - Vascular	Juglans hindsii	Northern California black walnut	PDJUG02040	None	None	-	1B.1	3812135	Courtland	Mapped	Plants - Vascular - Juglandaceae - Juglans hindsii
Plants - Vascular	Juncus leiospermus var. ahartii	Ahart's dwarf rush	PMJUN011L1	None	None	-	1B.2	3812153	Carmichael	Mapped	Plants - Vascular - Juncaceae - Juncus leiospermus var. ahartii
Plants - Vascular	Scutellaria galericulata	marsh skullcap	PDLAM1U0J0	None	None	-	2B.2	3812134	Bruceville	Mapped	Plants - Vascular - Lamiaceae - Scutellaria galericulata
Plants - Vascular	Scutellaria lateriflora	side-flowering skullcap	PDLAM1U0Q0	None	None	-	2B.2	3812134	Bruceville	Mapped	Plants - Vascular - Lamiaceae - Scutellaria lateriflora
Plants - Vascular	Scutellaria lateriflora	side-flowering skullcap	PDLAM1U0Q0	None	None	-	2B.2	3812135	Courtland	Mapped	Plants - Vascular - Lamiaceae - Scutellaria lateriflora
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812135	Courtland	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812134	Bruceville	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812145	Clarksburg	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812155	Sacramento West	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Gratiola heterosepala	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812153	Carmichael	Mapped	Plants - Vascular - Plantaginaceae - Gratiola heterosepala
Plants - Vascular	Gratiola heterosepala	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Plantaginaceae - Gratiola heterosepala

Plants - Vascular	Orcuttia tenuis	slender Orcutt grass	PMPOA4G050	Threatened	Endangered	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Poaceae - Orcuttia tenuis
Plants - Vascular	Orcuttia viscida	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Poaceae - Orcuttia viscida
Plants - Vascular	Orcuttia viscida	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812153	Carmichael	Mapped	Plants - Vascular - Poaceae - Orcuttia viscida
Plants - Vascular	Navarretia eriocephala	hoary navarretia	PDPLM0C060	None	None	-	4.3	3812143	Elk Grove	Unprocessed	Plants - Vascular - Polemoniaceae - Navarretia eriocephala
Plants - Vascular	Limosella australis	Delta mudwort	PDSCR10050	None	None	-	2B.1	3812135	Courtland	Mapped	Plants - Vascular - Scrophulariaceae - Limosella australis
Plants - Vascular	Limosella australis	Delta mudwort	PDSCR10050	None	None	-	2B.1	3812134	Bruceville	Mapped	Plants - Vascular - Scrophulariaceae - Limosella australis

CNPS California Native Plant Rare and Endangered Plant Inventory

Plant List

26 matches found. *Click on scientific name for details*

Search Criteria

Found in 9 Quads around 38121D4

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank
Astragalus tener var. ferrisiae	Ferris' milk-vetch	Fabaceae	annual herb	1B.1	S1	G2T1
Brasenia schreberi	watershield	Cabombaceae	perennial rhizomatous herb	2B.3	S2	G5
Carex comosa	bristly sedge	Cyperaceae	perennial rhizomatous herb	2B.1	S2	G5
Centromadia parryi ssp. rudis	Parry's rough tarplant	Asteraceae	annual herb	4.2	S3.2	G3T3
Cicuta maculata var. bolanderi	Bolander's water-hemlock	Apiaceae	perennial herb	2B.1	S2	G5T3T4
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	Convolvulaceae	annual vine (parasitic)	2B.2	SH	G5T4T5
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	2B.2	S2	GU
Gratiola heterosepala	Boggs Lake hedge-hyssop	Plantaginaceae	annual herb	1B.2	S2	G2
Hesperevax caulescens	hogwallow starfish	Asteraceae	annual herb	4.2	S3.2	G3
Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	Malvaceae	perennial rhizomatous herb	1B.2	S2	G5T2
Juglans hindsii	Northern California black walnut	Juglandaceae	perennial deciduous tree	1B.1	S1	G1
Juncus leiospermus var. ahartii	Ahart's dwarf rush	Juncaceae	annual herb	1B.2	S1	G2T1
Lasthenia ferrisiae	Ferris' goldfields	Asteraceae	annual herb	4.2	S3.2	G3
Lathyrus jepsonii var. jepsonii	Delta tule pea	Fabaceae	perennial herb	1B.2	S2.2	G5T2
Legenere limosa	legenere	Campanulaceae	annual herb	1B.1	S2	G2
Lepidium latipes var. heckardii	Heckard's pepper-grass	Brassicaceae	annual herb	1B.2	S2	G4T2
Lilaeopsis masonii	Mason's lilaeopsis	Apiaceae	perennial rhizomatous herb	1B.1	S2	G2
Limosella australis	Delta mudwort	Scrophulariaceae	perennial stoloniferous herb	2B.1	S2	G4G5
Navarretia eriocephala	hoary navarretia	Polemoniaceae	annual herb	4.3	S3.3	G3
Orcuttia tenuis	slender Orcutt grass	Poaceae	annual herb	1B.1	S2	G2
Orcuttia viscida		Poaceae	annual herb	1B.1	S1	G1

	Sacramento Orcutt grass					
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb	1B.2	S3	G3
Scutellaria galericulata	marsh skullcap	Lamiaceae	perennial rhizomatous herb	2B.2	S2	G5
Scutellaria lateriflora	side-flowering skullcap	Lamiaceae	perennial rhizomatous herb	2B.2	S1	G5
Symphyotrichum lentum	Suisun Marsh aster	Asteraceae	perennial rhizomatous herb	1B.2	S2	G2
Trifolium hydrophilum	saline clover	Fabaceae	annual herb	1B.2	S2	G2

Suggested Citation

CNPS, Rare Plant Program. 2014. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society, Sacramento, CA. Website http://www.rareplants.cnps.org [accessed 25 June 2014].

Appendix C Wetland Delineation

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO CA 95814-2922

REPLY TO
ATTENTION OF

April 28, 2014

Regulatory Division SPK-2014-00230

City of Elk Grove
Attn: Mr. Michael Karoly
8401 Laguna Palms Drive
Elk Grove, California 95758

Dear Mr. Karoly:

We are responding to your request for a preliminary jurisdictional determination (JD), in accordance with our Regulatory Guidance Letter (RGL) 08-02, for the Laguna Creek Trail, Camden Spur site. The approximately 23-acre site is located north of Bond Road, south of Sheldon Road, east of State Route 99, and west of Elk Grove-Florin Road, in Section 25, Township 7 North, Range 5 East, Mount Diablo Meridian, Latitude 38.4292° North, Longitude 121.3859° West, in the City of Elk Grove, Sacramento County, California.

Based on available information, **we concur with the amount and location of wetlands and other water bodies on the site as depicted on the enclosed December 11-12 *Figure 4, Delineation of Wetlands and Waters of the U.S.* drawing prepared by the PMC.** The approximately 2.048 acres of wetlands and/or other water bodies present within the survey area are potential waters of the United States regulated under Section 404 of the Clean Water Act.

We have enclosed a copy of the *Preliminary Jurisdictional Determination Form* for this site. Please sign and return a copy of the completed form to this office. Once we receive a copy of the form with your signature we can accept and process a Pre-Construction Notification or permit application for your proposed project.

You should not start any work in potentially jurisdictional waters of the United States unless you have Department of the Army permit authorization for the activity. You may request an approved JD for this site at any time prior to starting work within waters. In certain circumstances, as described in RGL 08-02, an approved JD may later be necessary.

You should provide a copy of this letter and notice to all other affected parties, including any individual who has an identifiable and substantial legal interest in the property.

This preliminary determination has been conducted to identify the potential limits of wetlands and other water bodies which may be subject to Corps of Engineers' jurisdiction for the particular site identified in this request. A Notification of Appeal Process and Request for Appeal form is enclosed to notify you of your options with this determination. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are U.S. Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

We appreciate your feedback. At your earliest convenience, please tell us how we are doing by completing the customer survey on our website under *Customer Service Survey*.

Please refer to identification number SPK-2014-00230 in any correspondence concerning this project. If you have any questions, please contact Lisa Gibson at 1325 J Street, Room 1350, Sacramento, California 95814, by email at *Lisa.M.Gibson2@usace.army.mil*, or telephone at 916-557-5288. For more information regarding our program, please visit our website at *www.spk.usace.army.mil/Missions/Regulatory.aspx*.

Sincerely,

Kathleen A. Dadey, PhD
Chief, CA South Branch
Regulatory Division

Enclosures

cc: (w/o encls)

Ms. Summer Pardo, PMC, spardo@PMCWorld.com
Ms. Leana Rosetti, U.S. Environmental Protection Agency, Region IX, Wetlands Regulatory Office (WTR-8), 75 Hawthorne Street, San Francisco, California 94105-3901
Ms. Tina Bartlett, California Department of Fish and Wildlife, Region 2, 1701 Nimbus Road, Rancho Cordova, California 95670-4599
Ms. Elizabeth Lee, Storm Water and Water Quality Certification Unit, Central Valley Regional Water Quality Control Board, 11020 Sun Center Drive #200, Rancho Cordova, California 95670-6114
Ms. Kellie Berry, Sacramento Valley Branch, Endangered Species Division, U.S. Fish and Wildlife Service, 2800 Cottage Way, Suite W2605, Sacramento, California 95825-3901

PRELIMINARY JURISDICTIONAL DETERMINATION FORM
Sacramento District

This preliminary JD finds that there *"may be"* waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

Regulatory Branch: **California South** File/ORM #: **SPK-2014-00230** PJD Date: **April 25, 2014**

State: **CA** City/County: **Elk Grove, Sacramento County**
Nearest Waterbody: **Laguna Creek and Whitehouse Creek**
Location (Lat/Long): **38.4292° North, 121.3859° West**
Size of Review Area: **23 acres**

Name/Address Of Property Owner/ Potential Applicant: **City of Elk Grove**
Attn: Mr. Michael Karoly
8401 Laguna Palms Drive
Elk Grove, California 95758

Identify (Estimate) Amount of Waters in the Review Area
Non-Wetland Waters:
linear feet ft wide **2.026** acre(s)
Stream Flow: **Perennial and Intermittent**

Wetlands: **0.022** acre(s)
Cowardin Class: **Palustrine, emergent**

Name of any Water Bodies on the site identified as Section 10 Waters: Tidal: Non-Tidal:

☐ Office (Desk) Determination
☒ Field Determination:
Date(s) of Site Visit(s): **April 7, 2014**

SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply – checked items should be included in case file and, where checked and requested, appropriately reference sources below)

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: **Figure 4, Delineation of Wetlands and Waters of the U.S.**
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Data sheets prepared by the Corps.
☐ Corps navigable waters' study.
☐ U.S. Geological Survey Hydrologic Atlas:
  ☐ USGS NHD data.
  ☐ USGS HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: **1:24K; CA-FLORIN**
☐ USDA Natural Resources Conservation Service Soil Survey.
☐ National wetlands inventory map(s).
☐ State/Local wetland inventory map(s).
☐ FEMA/FIRM maps.
☐ 100-year Floodplain Elevation (if known):
☒ Photographs: ☒ Aerial
  ☐ Other
☒ Previous determination(s). File no. and date of response letter: **SPK-2011-00034, February 11, 2011**
☐ Other information (please specify):

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Nicia McGillan 4/28/14
Signature and Date of Regulatory Project Manager (REQUIRED)

Michael Karoly 5/1/14
Signature and Date of Person Requesting Preliminary JD (REQUIRED, unless obtaining the signature is impracticable)

EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETERMINATIONS:
1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.
2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: City of Elk Grove	File No.: SPK-2014-00230	Date: April 28, 2014

Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
	APPROVED JURISDICTIONAL DETERMINATION	D
X	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at *http://www.usace.army.mil/cecw/pages/reg_materials.aspx* or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.

- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

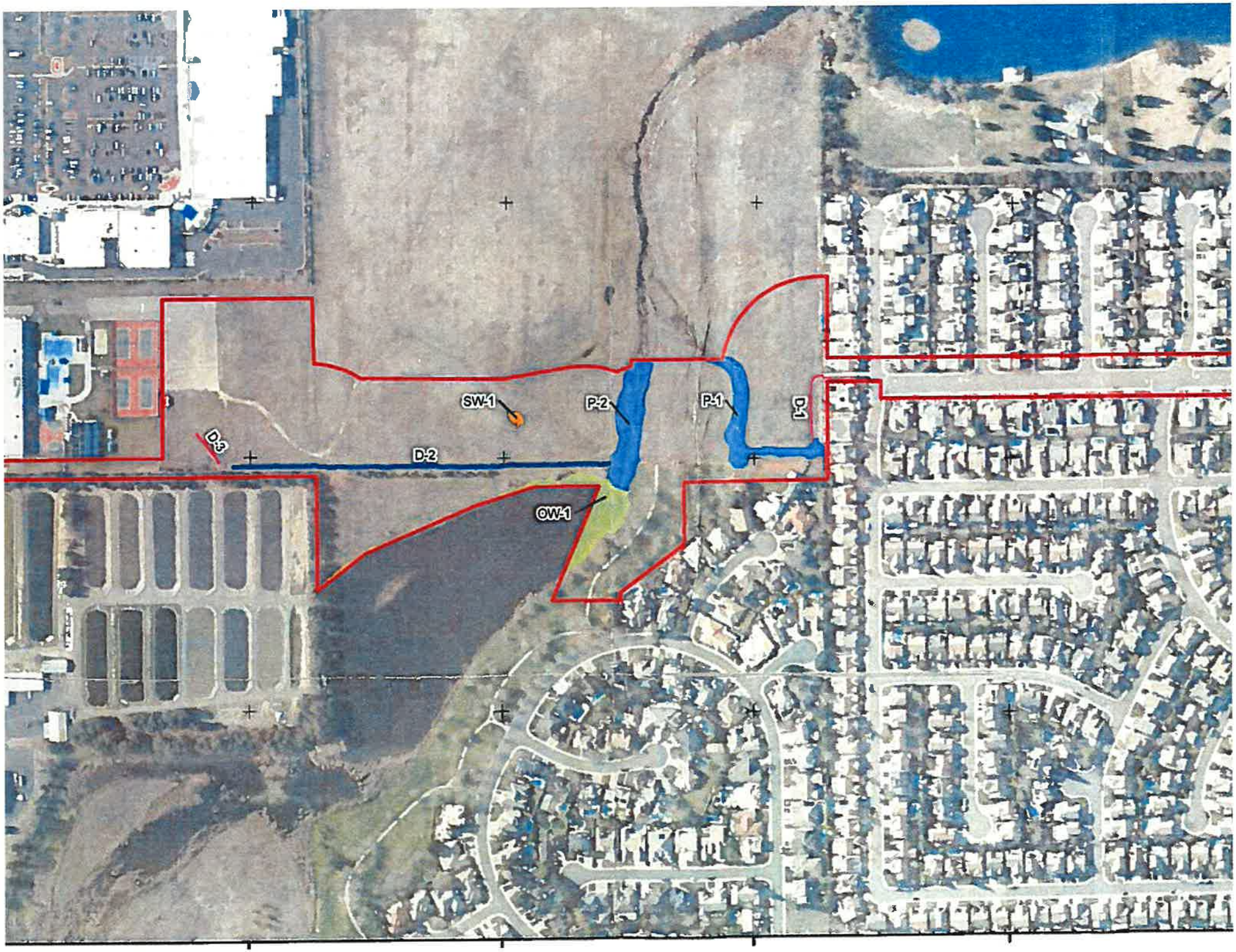
Lisa M. Gibson
Senior Project Manager
California South Branch
U.S. Army Corps of Engineers
1325 J Street, Room 1350
Sacramento, California 95814-2922
Phone: 916-557-5288, FAX 916-557-7803
Email: Lisa.M.Gibson2@usace.army.mil

If you only have questions regarding the appeal process you may also contact:

Thomas J. Cavanaugh
Administrative Appeal Review Officer
U.S. Army Corps of Engineers
South Pacific Division
1455 Market Street, 2052B
San Francisco, California 94103-1399
Phone: 415-503-6574, FAX 415-503-6646)
Email: Thomas.J.Cavanaugh@usace.army.mil

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	Date:	Telephone number:
_____ Signature of appellant or agent.		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Appendix D Rare Plant Survey

Interoffice Memorandum

CITY OF ELK GROVE
PROUD HERITAGE, BRIGHT FUTURE

May 11, 2011
Date

James McLaughlin
To

Rare Plant Surveys for the Laguna Creek Trail – Camden Spur Project
Subject

Angela Calderaro
From

Introduction

The purpose of this technical memorandum is to describe the results of the survey for rare plant species that may occur within the project study area (PSA). At nearly three miles, the Laguna Creek Trail is one of the longest trails aligning through the City of Elk Grove and connecting to several regional trails. The Laguna Creek Bike Trail Connector Project -Camden Spur Project is part of a citywide effort to provide alternative transportation options, close trail gaps, improve regional and local bicycle/pedestrian routes, and increase safety along busy traffic corridors. Connectivity and access is limited for pedestrians and bicyclists traveling west on the longest part (nearly three miles) of the Laguna Creek Trail. The trail currently ends leaving a large gap between Bond Road and the Camden Passage neighborhood. The proposed project proposes to close this gap and improve safety.

Methods

City of Elk Grove biologist, Angela Calderaro, conducted focused rare plant surveys in suitable habitat within the PSA on May 6, 2011. The rare plant surveys were conducted in accordance with the *General Rare Plant Guidelines* (USFWS 2002) and the *Guidelines for Assessing the Effects of Proposed Projects on Rare, Threatened, and Endangered Plants and Natural Communities* (CDFG 2000). Transects of the PSA were systematically walked to detect presence of rare plant species. When rare plants were observed, their presence was recorded on a Trimble Geo XT with submeter accuracy. If the species was growing in a large clump, the number of individual plants were estimated. Locations of rare plants recorded in the field were then overlaid on an aerial photograph of the PSA. According to the California Environmental Quality Act (CEQA) document (City of Elk Grove 2011) for this report, the rare plant species listed in **Table 1** have the potential to occur in the PSA.

TABLE 1 – RARE PLANT SPECIES

Scientific Name Common Name	CNPS Status	General Habitat
Downingia pusilla Dwarf Downingia	List 2.2	This annual herb is restricted to vernal pools and similar seasonal wetlands, including mesic grassland and the margins of small lakes or stock ponds. Blooms: March - May
Gratiola heterosepala Bogg's Lake hedge-hyssop	List 1B.2	This annual herb is found in marshes, swamps, lake margins, and vernal pools with clay soils. Blooms: April - June
Legenere limosa Legenere	List 1B.1	This annual herb grows in moist or wet ground or with the plant's base submerged in the shallow water of vernal pools. Blooms: April - June
Sagittaria sanfordii Sanford's arrowhead	List 1B.2	This perennial herb occurs in assorted shallow freshwater marshes and swamps and artificial ponds and lakes. Blooms: May - October

Source: CNPS 2011

Code Designations

List 1B = Plant species that are rare, threatened, or endangered in California and elsewhere.
List 2 = Plant species that are rare, threatened, or endangered in California, but more common elsewhere.
Threat Ranks - 0.1-Seriously threatened in California (high degree/immediacy of threat), **0.2**-Fairly threatened in California (moderate degree/immediacy of threat)

Results

Sanford's arrowhead may occur within Laguna Creek within the PSA. Two small plants with one to three leaves and approximately five to ten inches tall were located along the water's edge. Since the plant was not flowering, identification could not be confirmed (see Photo 1). Plants were found adjacent to the water's edge with common cattail (*Typha latifolia*) and bulrush (Scirpus *californicus*). Even so, if these plants are Sanford's arrowhead, the proposed project would avoid the low-water channel where these plants occur. As a part of Mitigation Measure 4a-2c, the Worker Environmental Awareness Program (WEAP) will be implemented to educate construction workers about the presence of special-status species or other sensitive resources in and near the PSA, and to instruct them on proper avoidance, required measures and practices for protecting biological resources and contacts and procedures in case species are injured or encountered during construction. As a part of the avoidance and minimization measures to the creek (a water of the U.S.), the plants will be avoided during construction. No additional mitigation measures are necessary.

Photo 1 – Possible Sanford's arrowhead within Elk Grove Creek.

The vernal pool within the PSA was also checked for the presence of rare plant species. The dry pool contained turkey mullein (*Eremocarpus setigerus*), coyote thistle (*Eryngium vaseyi*), vernal pool buttercup (*Ranunculus bonariensis var. trisepalus*), rayless goldfields (*R. glaberrima*), popcorn flower (*Plagiobothrys stipitatus*), curly dock (*Rumex crispus*), Italian wildrye (*Lolium multiflorum*), and pale spikerush (*Eleocharis macrostachya*).

Although rare plant surveys were not conducted in the blooming period for Bolander's water-hemlock (*Cicuta maculata* var. *bolanderi*) and wooly rose mallow (*Hibiscus lasiocarpus*), these species are not expected to occur in the PSA due to the lack of suitable habitat. There are no previously recorded occurrences of these species within a five-mile radius of the PSA (CDFG 2011). No other rare plants were observed in the PSA.

The survey described in this report fulfills the survey requirement described under Mitigation Measure 4a-1a of the Initial Study/Mitigated Negative Declaration (IS/MND) (City of Elk Grove 2011).

References

United States Fish and Wildlife Service (USFWS). 2002. *General Rare Plant Survey Guidelines*. July 2002. Ellen A. Cypher, California State University, Stanislaus, Endangered Species Recovery Program. Bakersfield, CA.

California Department of Fish and Game. 2000. *Guidelines for assessing the effects of proposed projects on rare, threatened, and endangered plants and natural communities*. (Revision of 1983 guidelines.) Sacramento, CA, 2 pp.

California Department of Fish and Game (CDFG). 2011. California Natural Diversity Database (CNDDB), Wildlife and Habitat Data Analysis Branch, Rarefind Version 3.1.1. Commercial Version -- Dated April 02, 2011.

City of Elk Grove. 2011. Initial Study/Mitigated Negative Declaration for the Laguna Creek Trail – Camden Spur Project. City of Elk Grove, CA.

Natural Environment Study

Multi-Use Trail from Camden Park North to Bond Road

City of Elk Grove, Sacramento County, California

Caltrans District 3

Federal Project Number: SR2SL-5479(036)

January 2015

Caltrans
CALIFORNIA DEPARTMENT OF TRANSPORTATION

Natural Environment Study

STATE OF CALIFORNIA
Department of Transportation
City of Elk Grove

Prepared By: _____ Date: 1/7/15
Summer Pardo, Senior Biologist
(916) 517-4496
2729 Prospect Park Drive, Suite 220, Rancho Cordova, CA 95670
PMC

Recommended
for Approval By: _____ Date: 1-9-15
Maureen Doyle
Associate Biologist/Botanist
(530) 741-4470
Environmental Management Branch, M-1
Caltrans/District 3

Approved By: _____ Date: 1/9/15
For
Susan D. Bauer, Branch Chief
(530) 741-7113
Environmental Management Branch, M-1
Caltrans/District 3

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Summary

The City of Elk Grove (City) proposes to extend a multi-use trail from the west end of existing Laguna Creek Trail at the northern end of Camden Park south to Bond Road. The proposed project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The project proposes to close an identified gap in the trail infrastructure that serves the City of Elk Grove from Bond Road to Camden Park. Laguna Creek Trail offers access to Old Town Elk Grove, Camden Lake, residential neighborhoods, and many retail centers and restaurants. Camden Park's main feature is Laguna Creek Trail, which is used as a scenic horse and jogging trail.

This document identifies and quantifies resources that may be affected by project implementation. Various studies were undertaken to identify and map biological resources within the project vicinity. The following impacts on biological resources may result from the proposed project.

Special-Status Species Impacts and Mitigation

- The project may affect bristly sedge (*Carex comosa*), Bolander's water-hemlock (*Cicuta maculata* var. *bolanderi*), Peruvian dodder (*Cuscuta obtusiflora*), dwarf downingia (*Downingia pusilla*), woolly rose mallow (*Hibiscus lasiocarpos* var. *occidentalis*), legenere (*Legenere limosa*), Mason's lilaeopsis (*Lilaeopsis masonii*), Sanford's arrowhead (*Sagittaria sanfordii*), marsh skullcap (*Scutellaria galericulata*), side-flowering skullcap (*Scutellaria laterifolia*), and saline clover (*Trifolium hydrophilum*), if present in the Biological Study Area. These species are generally associated with vernal pool, fresh emergent wetland, or annual grassland habitats. The proposed project would result in 0.015 acre of permanent and 0.057 acre of temporary impact to fresh emergent wetland associated with Laguna Creek, as well as 0.049 acre of permanent and 0.144 acre of temporary impact to open water associated with Camden Lake. In addition, 1.136 acres of temporary impact and 0.616 acre of permanent impact to annual grassland habitats that may support special-status plants are anticipated due to project construction. No permanent or temporary impacts to vernal pool habitat are anticipated. The mitigation strategy proposed includes implementation of the avoidance and minimization measures **BIO-1** through **BIO-9**, combined with conservation measure **CM-3**.

- The proposed project may affect, but is not likely to adversely affect the vernal pool fairy shrimp (*Branchinecta lynchi*) and vernal pool tadpole shrimp (*Lepidurus packardi*). The project will not result in direct impacts to any vernal pool habitat; however, 0.025 acre of indirect impact may occur as a result of the proposed project. The mitigation strategy proposed includes implementation of the avoidance and minimization measures **BIO-1** and **BIO-6** and **BIO-9** and **BIO-10**, combined with the following conservation measure.

  CM-4: To compensate for indirect impacts to 0.025 acre of vernal pool habitat, the City shall replace the affected acreage at a 2:1 ratio (i.e., 2 acres for every 1 acre of impact), or another approved ratio as determined by the

USFWS. Impacts shall be offset through the dedication of 0.05 vernal pool preservation credits from a USFWS-approved conservation bank.

- The project is likely to adversely affect the giant garter snake (*Thamnophis gigas*). Laguna Creek and Camden Lake contain potentially suitable habitat for this species. The proposed project will result in permanent impacts to 0.149 acre of aquatic and 0.615 acre of upland (0.764 acre total) habitat. In addition, 0.340 acre of aquatic and 1.125 acres of upland habitat will be temporarily impacted. The mitigation strategy proposed includes implementation of the avoidance and minimization measures **BIO-1** and **BIO-9** and **BIO-12** through **BIO-16**, combined with the following conservation measures.

  CM-5: After completion of construction activities, all temporary fill and construction debris shall be removed and 0.340 acre of aquatic and 1.125 acres of upland habitat shall be restored to pre-project conditions, in accordance with Appendix C of the Programmatic Biological Opinion on Effects of Small Highway Projects on the Threatened Giant Garter Snake in Butte, Colusa, Glenn, Sacramento, San Joaquin, Solano, Sutter, Yolo, and Yuba Counties, California (USFWS File #1-1-03-F-0154).

  CM-6: For every acre of aquatic and upland giant garter snake habitat permanently affected by the proposed project, the City shall replace the affected acreage at a 3:1 ratio (i.e., 3 acres for every 1 acre of impact), or another approved ratio as determined by the USFWS. Impacts shall be offset through the dedication of 2.292 mitigation credits within a USFWS-approved giant garter snake mitigation bank.

- The project may adversely affect Swainson's hawk (*Buteo swainsoni*) foraging habitat, a state-listed threatened species. The proposed project would result in 0.136 acre of temporary impact and 0.616 acre of permanent impact to annual grassland habitats suitable for Swainson's hawk foraging. The mitigation strategy proposed includes implementation of the avoidance and minimization measures **BIO-1** and **BIO-9** and **BIO-17** through **BIO-20**, combined with the following conservation measures.

  CM-7: The City shall mitigate for the permanent loss of 0.616 acre Swainson's hawk foraging habitat at a 1:1 ratio. Mitigation can be accomplished through the City of Elk Grove Swainson's Hawk Impact Mitigation Fees Ordinance or other method acceptable to the CDFW. No additional mitigation is proposed, as implementation of avoidance and minimization measures is sufficient to compensate for potential impacts to migratory birds and raptors.

- The project may adversely affect suitable nesting/foraging habitat for migratory birds and raptors. Direct mortality could occur through the removal of trees or burrows that contain active nests. Indirect impacts could result through habitat degradation, removal of suitable nesting habitat, and increased human disturbance. The mitigation strategy proposed includes implementation of the avoidance and minimization measures **BIO-1** and **BIO-9** and **BIO-17** through **BIO-20**.

- The project may adversely affect suitable habitat for special-status bat species. Removal of maternity roots, if present, may cause direct mortality to numerous bats, while indirect impacts to bats may occur from noise and dust created by construction activities. The mitigation strategy proposed includes implementation of the avoidance and minimization measures **BIO-1** and **BIO-9** and **BIO-21** through **BIO-23**.

Jurisdictional Features Impacts and Mitigation

The project may result in the loss of a small amount of U.S. Army Corps of Engineers (USACE) jurisdictional features including 0.015 acre of permanent and 0.057 acre of temporary impact to fresh emergent wetland associated with Laguna Creek, 0.084 acre of permanent and 0.057 acre of temporary impact to man-made ditches, and 0.049 acre of permanent and 0.144 acre of temporary impact to open water associated with Camden Lake. The mitigation strategy proposed includes implementation of the avoidance and minimization measures **BIO-1** through **BIO-6**, combined with the following proposed conservation measures:

CM-1: For the 0.015 acre of Laguna Creek and 0.049 acre of Camden Lake permanently affected by the proposed project, the City shall replace the affected acreage at a 2:1 ratio (i.e., 2 acres for every 1 acre of impact), or another approved ratio as determined by the USACE. Impacts shall be offset through the dedication of 0.128 shaded riverine aquatic mitigation credit(s) within a USACE-approved mitigation bank or through the payment of in-lieu fees to an approved conservation bank.

CM-2: For the 0.084 acre of man-made ditch permanently affected by the proposed project, the City shall replace the affected acreage at a 1:1 ratio, or another approved ratio as determined by the USACE. Impacts may be offset through the restoration and relocation of the ditch within the project area, through the dedication of mitigation credit(s) within a USACE-approved mitigation bank, or through the payment of in-lieu fees to an approved conservation bank.

Permitting

Permits will be required prior to implementation of the proposed project including:

a. A Section 404 permit from the USACE.

b. A Section 401 Water Quality Certification from the Central Valley Regional Water Quality Control Board.

c. A 1602 Streambed Alteration Agreement from the CDFW.

A Biological Assessment is being prepared to evaluate impacts to the federally listed valley elderberry longhorn beetle and giant garter snake.

Table of Contents

List of Figures

List of Tables

List of Abbreviated Terms

amsl	above mean sea level
BMP	best management practice
BSA	Biological Study Area
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CWA	Clean Water Act
dbh	diameter at breast height
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act (federal)
FGC	Fish and Game Code
FHWA	Federal Highway Administration
ISA	International Society of Arboriculture
MBTA	Migratory Bird Treaty Act
NEPA	National Environmental Policy Act
NES	Natural Environment Study
NMFS	National Marine Fisheries Service
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
OHWM	ordinary high water mark
RPW	relatively permanent waters
RWQCB	Regional Water Quality Control Board
TCZ	temporary construction zone
TNW	traditional navigable waters
USACE	U.S. Army Corps of Engineers
USC	U.S. Code
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WDR	Waste Discharge Requirements
WEAP	Worker Environmental Awareness Program

WoUS	waters of the U.S.
WRCB	State Water Resources Control Board

Chapter 1 – Introduction

The purpose of this Natural Environment Study (NES) is to describe the existing biological environment and to review the proposed Laguna Creek Trail – South Camden Spur project in sufficient detail to determine to what extent the project may affect biological resources. This NES summarizes technical documents, related to the effects on biological resources in the Biological Study Area (BSA), for use in the environmental document. This document presents technical information upon which later decisions regarding project design are developed.

Project History

PURPOSE

The purpose of this project is to provide bicycle-pedestrian trail connectivity between the Camden Point and Camden Estates residential areas (north of Laguna Creek) to schools and commercial retail-shopping-dining uses along or south of Bond Road. There is currently no trail crossing of Laguna Creek between East Stockton Boulevard to the west and Elk Grove Florin Road to the east. This project is the south half of two projects to improve this trail system in Elk Grove.

NEED

The project will enhance pedestrian safety for schoolchildren commuting to four schools: Ellen Feickert and James A. McKee elementary schools, Joseph Kerr Middle School, and Sheldon High School. It will link with the existing trail system as well as with bike routes and other pedestrian paths. It provides an alternative mode of travel and encourages safer pedestrian and bicycle (non-motorized) transportation and allows access along natural environmental features such as Laguna Creek and Camden Lake. It also provides for use of alternative transportation means to access park and ride lots adjacent to State Route 99 via the connection to Bond Road.

Project Description

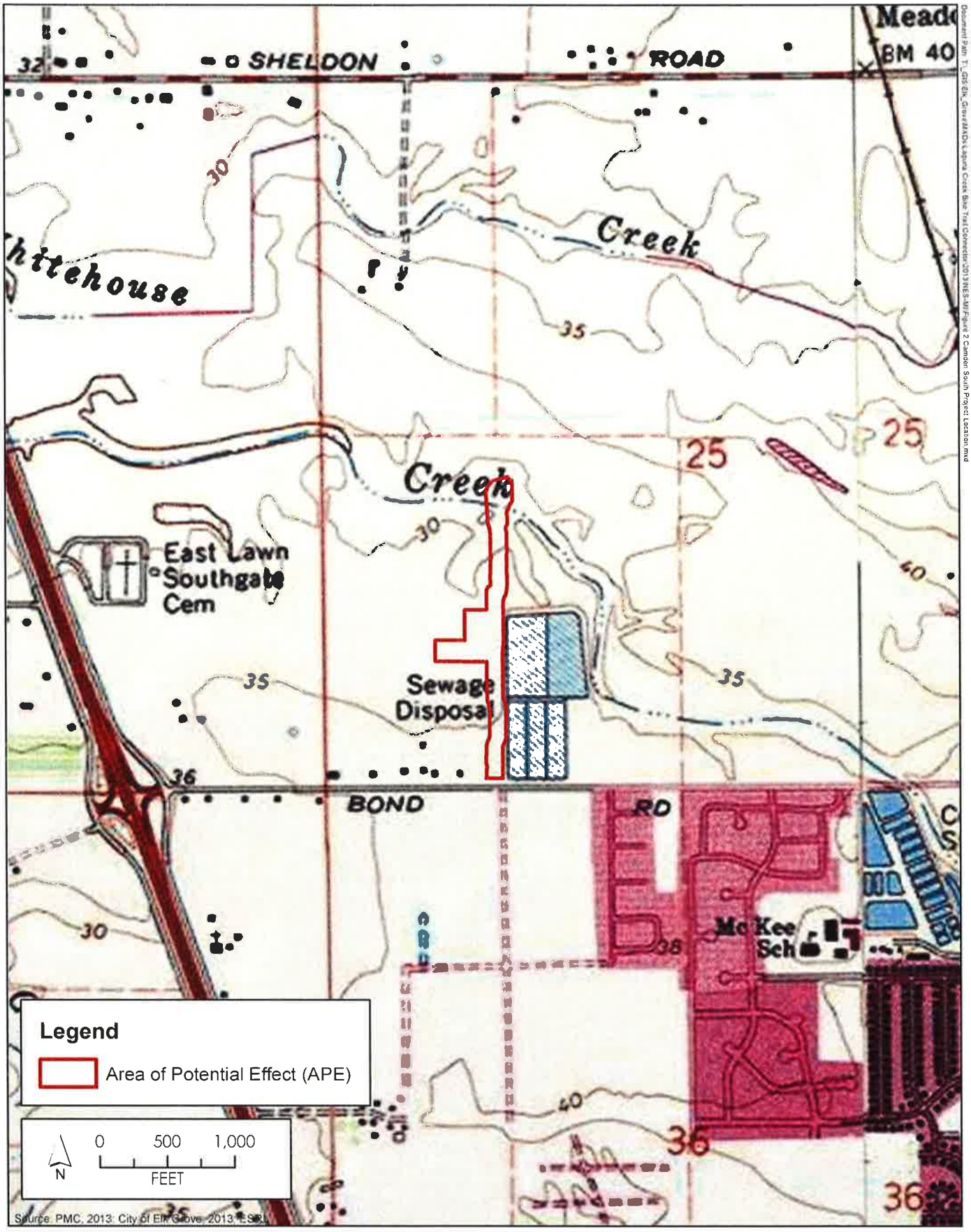
The proposed project is located in the City of Elk Grove, Sacramento County, California (**Figures 1** and **2**). The City of Elk Grove (City) proposes to extend a multi-use trail from the west end of the existing Laguna Creek Trail at the northern end of Camden Park south to Bond Road. The proposed project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The project proposes to close an identified gap in the trail infrastructure that serves the City of Elk Grove from Bond Road to Camden Park.

No additional right-of-way is required for the proposed trail alignment and bridge structure beyond encroachment onto Cosumnes Community Services District property. The proposed project would require relocation of a storm drain inlet, a manhole, and irrigation system modifications. The project is consistent with the Elk Grove General Plan and the Elk Grove Bicycle, Pedestrian and Trails Master Plan. Each plan identifies the need for an off-street multi-use trail system providing connections throughout the city and the Sacramento region.

Figure 3 depicts the project impact area for the proposed project. This figure identifies the permanent impact area as defined by the project footprint and the temporary impact area as defined by the temporary construction zone (TCZ).

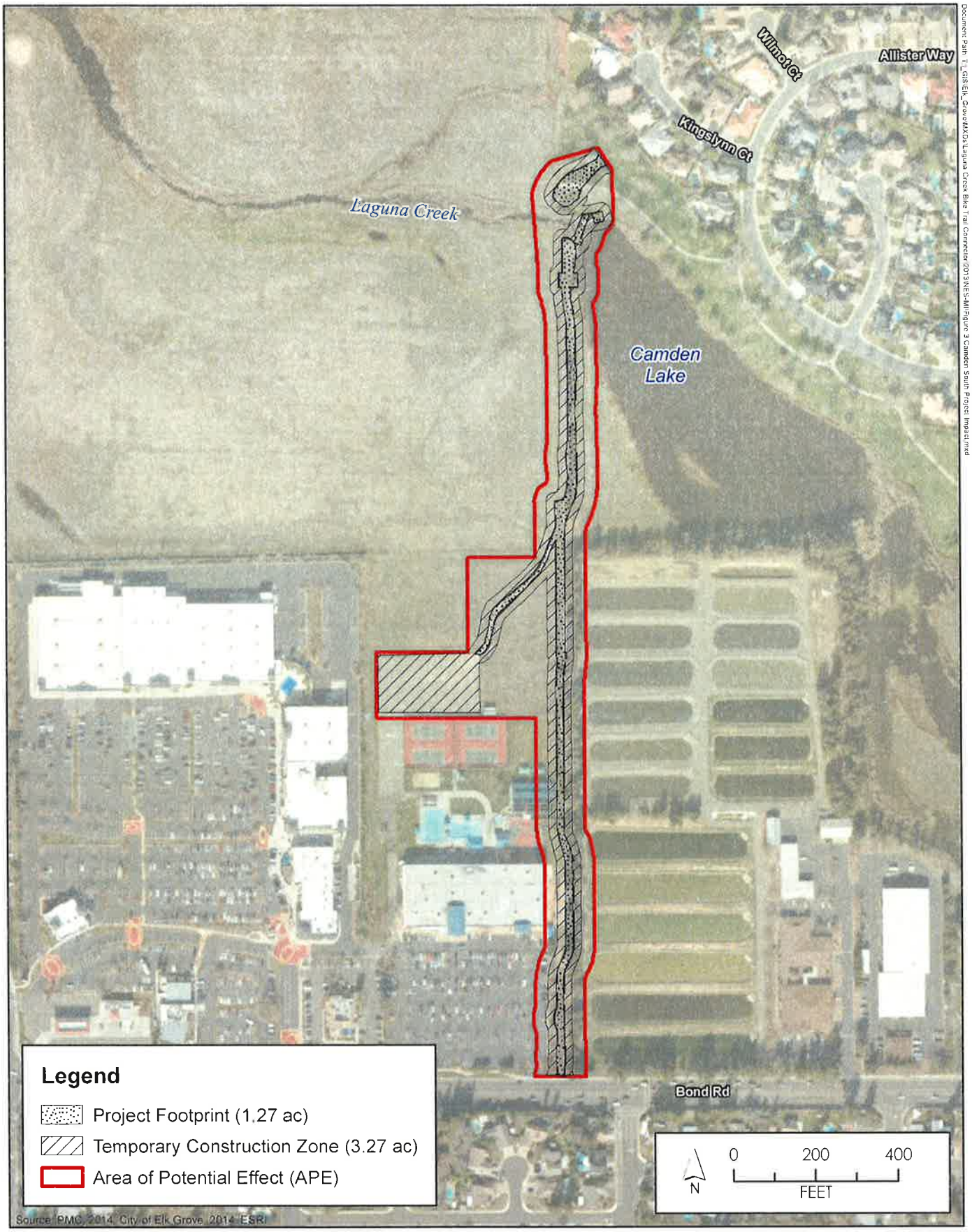
City of Elk Grove
Development Services

Figure 1
Regional Vicinity Map



City of Elk Grove
Development Services

Figure 2
Project Location Map



City of Elk Grove
Development Services

Figure 3
Project Impact Map

Chapter 2 – Study Methods

This chapter describes the regulatory requirements applicable to the proposed project, along with a detailed summary of the technical studies performed to date.

Regulatory Requirements

The National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) require consideration of impacts to biological resources. In addition, other types of legislation address biological resources. Relevant laws and guidelines are described below.

FEDERAL LAWS AND REGULATIONS

Endangered Species Act

The federal Endangered Species Act (ESA), as amended, provides protective measures for federally listed threatened and endangered species, including their habitats, from unlawful take (16 United States Code (USC) Sections 1531–1544). The ESA defines "take" to mean "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." Title 50, Part 222, of the Code of Federal Regulations (50 CFR Section 222) further defined "harm" to include "an act which actually kills or injures fish or wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures fish or wildlife by significantly impairing essential behavioral patterns including feeding, spawning, rearing, migrating, feeding, or sheltering."

ESA Section 7(a)(1) requires federal agencies to utilize their authority to further the conservation of listed species. ESA Section 7(a)(2) requires consultation with the US Fish and Wildlife Service (USFWS) or the National Marine Fisheries Service (NMFS) if a federal agency undertakes, funds, permits, or authorizes (termed the federal nexus) any action that may affect endangered or threatened species, or designated critical habitat. For projects that may result in the incidental take of threatened or endangered species, or critical habitat, and that lack a federal nexus, a Section 10(a)(1)(b) incidental take permit can be obtained from the USFWS and/or the NMFS.

Clean Water Act

The basis of the Clean Water Act (CWA) was established in 1948; however, it was referred to as the Federal Water Pollution Control Act. The act was reorganized and expanded in 1972 (33 USC Section 1251), and at this time the CWA became the act's commonly used name. The basis of the CWA is the regulation of pollutant discharges into waters of the U.S. (WoUS), as well as the establishment of surface water quality standards.

Section 404

CWA Section 404 (33 USC Section 1344) established the program to regulate the discharge of dredged or fill material into WoUS, including wetlands. Under this regulation, certain activities proposed within WoUS require the obtainment of a permit prior to initiation. These activities include, but are not limited to, placement of fill for the purposes of development, water resource projects (e.g., dams and levees), infrastructure development (e.g., highways and bridges), and mining operations.

The primary objective of this program is to ensure that the discharge of dredged or fill material is not permitted if a practicable alternative to the proposed activities exists that results in less impact to WoUS or the proposed activity would result in significant adverse impacts to these waters. To comply with these objectives, a permittee must document the measures taken to avoid and minimize impacts to WoUS and provide compensatory mitigation for any unavoidable impacts.

The U.S. Environmental Protection Agency (EPA) and the USFWS are assigned roles and responsibilities in the administration of this program; however, the U.S. Army Corps of Engineers (USACE) is the lead agency in the administration of day-to-day activities, including issuance of permits. The agencies will typically assert jurisdiction over the following waters: (1) traditional navigable waters (TNW); (2) wetlands adjacent to TNWs; (3) relatively permanent waters (RPW) that are non-navigable tributaries to TNWs and have relatively permanent flow or seasonally continuous flow (typically three months); and (4) wetlands that directly abut RPWs. Case-by-case investigations are usually conducted by the agencies to ascertain their jurisdiction over waters that are non-navigable tributaries and do not contain relatively permanent or seasonal flow, wetlands adjacent to the aforementioned features, and wetlands adjacent to but not directly abutting RPWs (USACE 2007). Jurisdiction is not generally asserted over swales or erosional features (e.g., gullies or small washes characterized by low-volume/short-duration flow events) or ditches constructed wholly within and draining only uplands that do not have relatively permanent flows.

The extent of jurisdiction within WoUS, which lack adjacent wetlands, is determined by the ordinary high water mark (OHWM). The OHWM is defined in 33 CFR Section 328.3(e) as the "line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas." Wetlands are further defined under 33 CFR Section 328.3 and 40 CFR Section 230.3 as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions," and typically include "swamps, marshes, bogs, and similar areas." The 1987 Corps of Engineers Wetland Delineation Manual (1987 Manual) sets forth a standardized methodology for delineating the extent of wetlands under federal jurisdiction (Environmental Laboratory 1987).

The 1987 Manual outlines three parameters that all wetlands, under normal circumstances, must contain positive indicators for to be considered jurisdictional. These parameters include (1) wetland hydrology, (2) hydrophytic vegetation, and (3) hydric soils. In 2006, the USACE issued a series of Regional Supplements to address regional differences that are important to the functioning and identification of wetlands. The

supplements present "wetland indicators, delineation guidance, and other information" that is specific to the region. The USACE requires that wetland delineations submitted after June 5, 2007, be conducted in accordance with both the 1987 Manual and the applicable supplement.

Section 401

Under CWA Section 401 (33 USC Section 1341), federal agencies are not authorized to issue a permit and/or license for any activity that may result in discharges to WoUS, unless a state or tribe where the discharge originates either grants or waives CWA Section 401 certification. CWA Section 401 provides states or tribes with the ability to grant, grant with conditions, deny, or waive certification. Granting certification, with or without conditions, allows the federal permit/license to be issued and remain consistent with any conditions set forth in the CWA Section 401 certification. Denial of the certification prohibits the issuance of the federal license or permit, and waiver allows the permit/license to be issued without state or tribal comment. Decisions made by states or tribes are based on the proposed project's compliance with EPA water quality standards as well as applicable effluent limitations guidelines, new source performance standards, toxic pollutant restrictions, and any other appropriate requirements of state or tribal law. In California, the State Water Resources Control Board (WRCB) is the primary regulatory authority for CWA Section 401 requirements (additional details below).

Migratory Bird and Treaty Act

Migratory birds are protected under the Migratory Bird Treaty Act (MBTA) of 1918 (16 USC Sections 703–711). The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed in 50 CFR Section 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR Section 21). The majority of birds found in the project vicinity would be protected under the MBTA.

Bald and Golden Eagle Protection Act

The bald eagle and golden eagle are federally protected under the Bald and Golden Eagle Protection Act (16 USC Sections 668–668c). Under the act, it is illegal to take, possess, sell, purchase, barter, offer to sell or purchase or barter, transport, export, or import at any time or in any manner a bald or golden eagle, alive or dead; or any part, nest, or egg of these eagles unless authorized by the Secretary of the Interior. Violations are subject to fines and/or imprisonment for up to one year. Active nest sites are also protected from disturbance during the breeding season.

Executive Order 13112 – Invasive Species

This executive order directs all federal agencies to refrain from authorizing, funding, or carrying out actions or projects that may spread invasive species. The order further directs federal agencies to prevent the introduction of invasive species, control and monitor existing invasive species populations, restore native species to invaded ecosystems, research and develop prevention and control methods for invasive species, and promote public education on invasive species. As part of the proposed action, the USFWS and USACE would issue permits and therefore would be responsible for ensuring that the proposed action complies with Executive Order 13112 and does not contribute to the spread of invasive species.

Executive Order 11990 Protection of Wetlands (42 FR 26961, May 25, 1977)

Executive Order 11990 requires federal agencies to provide leadership and take action to minimize destruction, loss, or degradation of wetlands and to preserve and enhance the natural qualities of these lands. Federal agencies are required to avoid undertaking or providing support for new construction located in wetlands unless (1) no practicable alternative exists and (2) all practical measures have been taken to minimize harm to wetlands.

Fish and Wildlife Coordination Act of 1958 (16 USC 661 et seq.)

The Fish and Wildlife Coordination Act requires that whenever any body of water is proposed or authorized to be impounded, diverted, or otherwise controlled or modified, the lead federal agency must consult with the USFWS, the state agency responsible for fish and wildlife management, and the NMFS. Section 662(b) of the act requires the lead federal agency to consider the recommendations of the USFWS and other agencies. The recommendations may include proposed measures to mitigate or compensate for potential damages to wildlife and fisheries associated with a modification of a waterway.

STATE LAWS AND REGULATIONS

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 (Fish and Game Code (FGC) Section 2070). The CDFW also maintains a list of "candidate species," which are species formally noticed as being under review for potential addition to the list of endangered or threatened species, and a list of "species of special concern," which serve as a species "watch list."

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 and determine whether the proposed project will have a potentially significant impact on such species. In addition, the 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. State-listed species are fully protected under the mandates of CESA. Take of protected species incidental to otherwise lawful management activities may be authorized under FGC Section 206.591. Authorization from the CDFW would be in the form of an incidental take permit.

California Fish and Game Code

Streambed Alteration Agreement (FGC Sections 1600–1607)

State and local public agencies are subject to FGC Section 1602, which governs construction activities that will substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake designated as waters of the state by the CDFW. Under FGC Section 1602, a discretionary Streambed Alteration Agreement must be issued by the CDFW to the project proponent prior to the initiation of construction activities within lands under CDFW jurisdiction. As a general rule, this requirement applies to any work undertaken within the 100-year floodplain of a stream or river containing fish or wildlife resources.

Native Plant Protection Act

The Native Plant Protection Act (FGC Sections 1900–1913) prohibits the taking, possessing, or sale within the state of any plants with a state designation of rare, threatened, or endangered (as defined by the CDFW). An exception in the act allows landowners, under specified circumstances, to take listed plant species, provided that the owners first notify the CDFW, and give that state agency at least 10 days to retrieve the plants before they are plowed under or otherwise destroyed (FGC Section 1913). Project impacts to these species are not considered significant unless the species are known to have a high potential to occur within the area of disturbance associated with construction of the proposed project.

Birds of Prey

Under FGC Section 3503.5, it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto.

Fully Protected Species

California statutes also afford "fully protected" status to a number of specifically identified birds, mammals, reptiles, and amphibians. These species cannot be taken, even with an incidental take permit. FGC Section 3505 makes it unlawful to take "any aigrette or egret, osprey, bird of paradise, goura, numidi, or any part of such a bird." FGC Section 3511 protects from take the following fully protected birds: (a) American peregrine falcon (*Falco peregrinus anatum*); (b) brown pelican (*Pelecanus occidentalis*); (c) California black rail (*Laterallus jamaicensis coturniculus*); (d) California clapper rail (*Rallus longirostris obsoletus*); (e) California condor (*Gymnogyps californianus*); (f) California least tern (*Sterna albifrons browni*); (g) golden eagle (*Aquila chrysaetos)*; (h) greater sandhill crane (*Grus canadensis tabida*); (i) light-footed clapper rail (*Rallus longirostris levipes*); (j) southern bald eagle (*Haliaeetus leucocephalus leucocephalus*); (k) trumpeter swan (*Cygnus buccinator*); (l) white-tailed kite (*Elanus leucurus*); and (m) Yuma clapper rail (*Rallus longirostris yumanensis*).

FGC Section 4700 identifies the following fully protected mammals that cannot be taken: (a) Morro Bay kangaroo rat (*Dipodomys heermanni morroensis*); (b) bighorn sheep (*Ovis canadensis*), except Nelson bighorn sheep (subspecies *Ovis canadensis nelsoni*); (c)

Guadalupe fur seal (*Arctocephalus townsendi*); (d) ring-tailed cat (genus *Bassariscus*); (e) Pacific right whale (*Eubalaena sieboldi*); (f) salt-marsh harvest mouse (*Reithrodontomys raviventris*); (g) southern sea otter (*Enhydra lutris nereis*); and (h) wolverine (*Gulo gulo*).

FGC Section 5050 protects from take the following fully protected reptiles and amphibians: (a) blunt-nosed leopard lizard (*Crotaphytus wislizenii silus*); (b) San Francisco garter snake (*Thamnophis sirtalis tetrataenia*); (c) Santa Cruz long-toed salamander (*Ambystoma macrodactylum croceum*); (d) limestone salamander (*Hydromantes brunus*); and (e) black toad (*Bufo boreas exsul*).

FGC Section 5515 identifies certain fully protected fish that cannot lawfully be taken, even with an incidental take permit. The following species are protected in this fashion: (a) Colorado River squawfish (*Ptychocheilus lucius*); (b) thicktail chub (*Gila crassicauda*); (c) Mohave chub (*Gila mohavensis*); (d) Lost River sucker (*Catostomus luxatus*); (e) Modoc sucker (*Catostomus microps*); (f) shortnose sucker (*Chasmistes brevirostris*); (g) humpback sucker (*Xyrauchen texanus*); (h) Owens River pupfish (*Cyprinoden radiosus*); (i) unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*); and (j) rough sculpin (*Cottus asperrimus*).

California Wetlands and Other Water Policies

The California Natural Resources Agency and its various departments do not authorize or approve projects that fill or otherwise harm or destroy coastal, estuarine, or inland wetlands. Exceptions may be granted if all of the following conditions are met:

- The project is water-dependent.
- No other feasible alternative is available.
- The public trust is not adversely affected.
- Adequate compensation is proposed as part of the project.

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act of 1966 (California Water Code Section 13000 et seq.; California Code of Regulations (CCR) Title 23, Chapter 3, Subchapter 15) is the primary state regulation that addresses water quality. The requirements of the act are implemented by the WRCB at the state level and at the local level by the Regional Water Quality Control Board (RWQCB). The RWQCB carries out planning, permitting, and enforcement activities related to water quality in California. The act provides for waste discharge requirements (WDR) and a permitting system for discharges to land or water. Certification is required by the RWQCB for activities that can affect water quality.

Clean Water Act, Section 401 Water Quality Certification

CWA Section 401 (33 USC Section 1341) requires that any applicant for a federal license or permit, which may result in a pollutant discharge to WoUS, obtain a certification that the discharge will comply with EPA water quality standards. The state or tribal agency responsible for issuance of the Section 401 certification may also require

compliance with additional effluent limitations and water quality standards set forth in state/tribal laws. In California, the RWQCB is the primary regulatory authority for CWA Section 401 requirements.

The Central Valley RWQCB is responsible for enforcing water quality criteria and protecting water resources in the project area. In addition, the RWQCB is responsible for controlling discharges to surface waters of the state by issuing WDRs or commonly by issuing conditional waivers to WDRs. The RWQCB requires that a project proponent obtain a CWA Section 401 water quality certification for CWA Section 404 permits issued by the USACE. A request for water quality certification (including WDRs) by the RWQCB and an application for a General Permit for Storm Water Discharges Associated with Construction Activities are prepared and submitted following completion of the CEQA environmental document and submittal of the wetland delineation to the USACE.

Delegated Permit Authority

California has been delegated permit authority for the National Pollutant Discharge Elimination System (NPDES) permit program, including stormwater permits for all areas except tribal lands. Issuance of CWA Section 404 dredge and fill permits remains the responsibility of the USACE; however, the state actively uses its CWA Section 401 certification authority to ensure CWA Section 404 permits are in compliance with state water quality standards.

State Definition of Covered Waters

Under California state law, waters of the state means "any surface water or groundwater, including saline waters, within the boundaries of the state." Therefore, water quality laws apply to both surface water and groundwater. After the U.S. Supreme Court decision in *Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers*, the Office of Chief Counsel of the WRCB released a legal memorandum confirming the state's jurisdiction over isolated wetlands. The memorandum stated that under the California Porter-Cologne Water Quality Control Act, discharges to wetlands and other waters of the state are subject to state regulation, and this includes isolated wetlands. In general, the WRCB regulates discharges to isolated waters in much the same way as it does for WoUS, using the Porter-Cologne Water Quality Control Act rather than CWA authority.

CALIFORNIA NATIVE PLANT SOCIETY

The California Native Plant Society (CNPS) is a nongovernmental agency that classifies native plant species according to current population distribution and threat level in regard to extinction. These data are utilized by the CNPS to create/maintain a list of native California plants that have low numbers, limited distribution, or are otherwise threatened with extinction. This information is published in the Inventory of Rare and Endangered Vascular Plants of California (CNPS 2014). Potential impacts to populations of CNPS-listed plants receive consideration under CEQA review.

The following identifies the definitions of the CNPS listings:

- List 1A: Plants believed to be extinct
- List 1B: Plants that are rare, threatened, or endangered in California and elsewhere
- List 2: Plants that are rare, threatened, or endangered in California, but are more numerous elsewhere

All of the plant species on List 1 and 2 meet the requirements of the Native Plant Protection Act Section 1901, Chapter 10, or FGC Section 2062 and Section 2067 and are eligible for state listing. Plants appearing on List 1 or 2 are considered to meet the criteria of CEQA Section 15380, and effects on these species are considered "significant." Classifications for plants on List 3 (plants about which we need more information) and/or List 4 (plants of limited distribution), as defined by the CNPS, are not currently protected under state or federal law. Therefore, no detailed descriptions or impact analysis was performed on species with these classifications.

LOCAL POLICIES AND ORDINANCES

City of Elk Grove Tree Preservation and Protection Code

Chapter 19.12 of the City Municipal Code, Tree Preservation and Protection, strives to protect and preserve trees of local importance, including coast live oak (*Quercus agrifolia*), valley oak (*Quercus lobata*), blue oak (*Quercus douglasii*), interior live oak (*Quercus wislizeni*), oracle oak (*Quercus x moreha*), California sycamore (*Platanus racemosa*), and black walnut (*Juglans hindsii*) with a single trunk 6 inches diameter at breast height (dbh) or greater or a multi-trunk with a combined dbh of 6 inches or greater. Chapter 19.12 requires mitigation for the removal of trees of local importance with dimensions described above; trees that have been selected for preservation; all portions of adjacent offsite native trees that have driplines that extend onto the project site; and all offsite native trees that may be impacted by utility installation and/or improvements associated with the project. Current policies require that every inch lost will be mitigated by an inch planted or equivalent credit obtained from a tree mitigation bank.

City of Elk Grove Swainson's Hawk Impact Mitigation Fees

Chapter 16.130 of the City Municipal Code, Swainson's Hawk Impact Mitigation Fees, requires mitigation for the loss of Swainson's hawk habitat at a 1:1 ratio. Mitigation can be achieved through the payment of a fee, which is used to fund the City's Swainson's hawk habitat restoration program. Other options for achieving mitigation through the code include the direct transfer to the City of a Swainson's hawk habitat conservation easement along with an easement monitoring endowment or the purchase of credits at a CDFW-approved conservation bank. The site must be surveyed to determine whether it is suitable Swainson's hawk foraging habitat.

City of Elk Grove General Plan

The City's General Plan identifies specific goals, objectives, and policies regarding natural resources (City of Elk Grove 2009). The General Plan serves as the overall guiding policy document for land use, development, and environmental quality for the City. The Conservation and Air Quality Element and the Parks, Trails, and Open Space Element of the General Plan include goals and policies to preserve, protect, enhance, and promote the City's valuable natural resources. The General Plan identifies specific goals and policies regarding biological and natural resources. The following policies are applicable to the proposed project.

CAQ-8: Large trees (both native and non-native) are an important aesthetic (and, in some cases, biological) resource. Trees which function as an important part of the City's or a neighborhood's aesthetic character or as natural habitat should be retained to the extent possible during the development of new structures, roadways (public and private, including roadway widening), parks, drainage channels, and other uses and structures.

CAQ-9: Wetlands, vernal pools, marshland and riparian (streamside) areas are considered to be important resources. Impacts to these resources shall be avoided unless shown to be technically infeasible. The City shall seek to ensure that no net loss of wetland areas occurs, which may be accomplished by avoidance, re-vegetation and restoration onsite or creation of riparian habitat corridors.

PTO-5: The City views open space lands of all types as an important resource which should be preserved in the region, and supports the establishment of multi-purpose open space areas to address a variety of needs, including, but not limited to:

- Maintenance of agricultural uses
- Wildlife habitat
- Recreational open space
- Aesthetic benefits
- Flood control

To the extent possible, lands protected in accordance with this policy should be in proximity to Elk Grove, to facilitate use of these areas by Elk Grove residents, assist in mitigation of habitat loss within the city, and provide an open space resource close to the urbanized areas of Elk Grove.

South Sacramento County Habitat Conservation Plan

The South Sacramento County Habitat Conservation Plan is in the process of being prepared and will address the conservation and development of lands in this portion of the county. The purpose of the plan is to encourage and simplify the process of conserving sensitive habitats for special-status species. Once the plan is approved, it will allow for incidental take of covered species with the requirement of mitigation for lost habitat at approved ratios. Only some of the total listed species analysis that will be included in the plan are complete and include white-tailed kite, northern harrier (*Circus cyaneus*), tricolored blackbird (*Agelaius tricolor*), giant garter snake (*Thamnophis gigas*), vernal pool fairy shrimp (*Branchinecta lynchi*), and Sanford's arrowhead (*Sagittaria sanfordii*). The complete list can be found on the Sacramento County, Planning and Community Development Department website (Sacramento County 2006).

Studies Required

Biologists reviewed the project description and conceptual design plans, performed literature reviews and database searches, and conducted reconnaissance-level biological surveys to obtain information regarding habitat quality and the potential presence of sensitive plant and wildlife species within the BSA.

LITERATURE REVIEW

A list of special-status species and habitats that have the potential to occur within the BSA or project vicinity was prepared using information obtained from the USFWS (2014a) Sacramento office's Species Lists, the USFWS (2014b) Critical Habitat Portal, the CDFW (2014a) California Natural Diversity Database (CNDDB), and the CNPS (2014) Inventory of Rare and Endangered Plants of California.

A search of the USFWS Sacramento office's Species Lists database was performed for the Elk Grove, Florin, Bruceville, Galt, Courtland, Clarksville, Sacramento East, Carmichael, and Sacramento West, California, U.S. Geological Survey (USGS) 7.5-minute quadrangles (quads) to identify special-status species under USFWS jurisdiction that may be affected by the proposed project. In addition, a query of the USFWS's Critical Habitat Portal was conducted to identify any designated critical habitat on or in the vicinity of the BSA. The CNDDB provided a list of processed and unprocessed occurrences of special-status species identified within the aforementioned USGS quads. The CNPS database was also queried to identify special-status plant species with the potential to occur in the aforementioned USGS quads. Please see **Appendix A** for the raw data returned from the database queries.

HABITAT ASSESSMENT

A habitat assessment of the BSA was performed by PMC biologists on October 27, 2010, and again on December 11, 2013, to assess the biological resources that may be impacted as part of the proposed project, map vegetative communities on and adjacent to the BSA, and evaluate the potential suitability of those communities for special-status species returned in the literature review. A habitat layer was created for areas within the BSA using the geographic information system ArcView program based on aerial photo-interpretation and data collected during reconnaissance-level surveys. Habitat classifications were assigned using A Guide to Wildlife Habitats of California (CDFW 2014b).

WETLAND DELINEATION

A PMC biologist conducted a delineation of WoUS within the BSA. A portion of the BSA was previously delineated in 2010 and verified by the USACE (**Appendix B**). The project extent has been expanded since the 2010 delineation; therefore, the purpose of this delineation was to reverify the work done in 2010 and to map the aquatic features in the remaining portions of the BSA. The delineation and reverification were conducted on December 11, 2013, in accordance with the methodologies outlined in the USACE regulatory guidance letter regarding OHWM identification (2005), the Corps of Engineers Wetland Delineation Manual (Environmental Laboratory 1987), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Environmental Laboratory 2008).

A field review of the delineation as conducted with USACE representative Lisa Gibson on April 7, 2014, and a preliminary jurisdictional determination was issued by the USACE on April 28, 2014 (**Appendix B**).

RARE PLANT SURVEYS

A rare plant survey was conducted on May 6, 2011, by a PMC biologist in accordance with the General Rare Plant Survey Guidelines (USFWS 2002) and the Guidelines for Assessing the Effects of Proposed Projects on Rare, Threatened, and Endangered Plants and Natural Communities (CDFW 2000) to evaluate the presence or absence of rare plants within the BSA. A summary memo presenting the findings of this survey is provided in **Appendix C**.

Transects were systematically walked across the BSA to detect the presence of rare plant species. When potential special-status plant species were observed, their presence was recorded on a Trimble Geo XT. If the species were growing in a large clump, the numbers of individual plants were estimated. Locations of rare plants recorded in the field were then overlaid on an aerial photograph of the BSA.

Two individuals were identified in Laguna Creek that were indiscernible between the more common water plantain (*Alisma lanceolatum*) and Sanford's arrowhead due to a lack of inflorescences. The plants were found adjacent to the water's edge with common cattail (*Typha latifolia*) and bulrush (*Scirpus californicus*). If these plants are Sanford's arrowhead, based on engineering provided, the proposed project would avoid the low-water channel where these plants occur and no impact would occur to these plants.

TREE SURVEY

International Society of Arboriculture (ISA)-certified arborist (#8324) Kelly McGlothlin, with Tree Associated, conducted a tree survey on April 24, 25, and 26, 2013, and June 19, 2013. All trees adjacent to the proposed project with trunk diameters greater than 6 inches were evaluated with the following exceptions:

- For multiple-trunked species not protected by the City of Elk Grove Tree Ordinance, only those with at least one trunk greater than or equal to 6 inches were evaluated; and
- From Bond Road north to the edge of the playground area, only trees with canopies overhanging the western project boundary fence were evaluated.

For each of the 144 trees that were evaluated, the following data were collected:

- Tree number – corresponds to the tag number found on a round aluminum tag affixed to each tree.
- Species – common and Latin names.
- Trunk diameter – the diameter of the tree (in inches) at 4.5 feet above ground level, unless another measurement between 1 and 5 feet above ground level provided a more accurate reflection of the size of the tree.
- Maximum drip line radius – the measured maximum distance from the trunk to the edge of the branches (in feet).
- Tree protection zone – the radius (in feet) of a circular area centered at the tree trunk which, if left undisturbed, will result in a low impact to the tree.
- Health rating – rating of poor to excellent regarding tree health. A rating of fair/good or greater indicated no significant health concerns.
- Structural rating – rating of poor to excellent regarding tree structure. A rating of fair/good or greater generally indicated no acute structural concerns.
- Comments – comments regarding tree features significant to tree condition.
- Recommendations – recommendations for tree work, treatments, or further evaluation necessary to improve tree structure or health.

Results of this assessment are present in the memo provided in **Appendix D**. No protected trees are proposed for removal as a result of this project; therefore, no impacts are anticipated and no further mitigation or impact analysis is provided.

IMPACT ASSESSMENT

The impact assessment is based on information provided in the project description, environmental setting, and conceptual plans; federal, state, and local regulatory requirements regarding impacts to biological resources; and data collected from the literature review, habitat assessment, and wetland delineation. When information about the presence of a particular special-status species is unknown, but suitable habitat is present, the impact analysis takes a conservative approach and presence is inferred. This impact assessment considers permanent and temporary impacts in addition to cumulative and indirect impacts of each biological resource being analyzed. Impacts to specific biological resources are identified and appropriate avoidance, minimization, compensation, and/or mitigation measures are discussed further in Chapter 4.

Personnel and Survey Dates

A delineation and habitat assessment was conducted by a PMC biologist on October 27, 2010.

A PMC biologist conducted a site visit on March 11, 2011, to analyze the potential of adjacent seasonal wetlands to support listed vernal pool crustaceans.

A PMC biologist conducted a rare plant survey on May 6, 2011.

ISA-certified arborist (#8324) Kelly McGlothlin with Tree Associated conducted a tree survey on April 24, 25, and 26, 2013, and June 19, 2013.

A delineation and habitat assessment was performed by a PMC biologist on December 11, 2013.

Agency Coordination and Professional Contacts

On May 27, 2011, the USACE requested formal consultation for the previously proposed Laguna Creek Trail Camden Spur Project (USACE File #SPK-2011-00034).

On April 11, 2012, the USFWS issued a Biological Opinion (USFWS File #08ESMF00-2011-F-0881-1) for the Laguna Creek Trail Camden Spur Project (**Appendix E**). The USFWS determined that it was appropriate to append the previously proposed project to the USFWS (1996a) Programmatic Formal Endangered Species Act Consultation on Issuance of 404 Permits for Projects with Relatively Small Effects on Listed Vernal Pool Crustaceans within the Jurisdiction of the Sacramento Field Office, California (USFWS File #1-1-96-F-001), as well as the USFWS (1997) Programmatic Formal Consultation for U.S. Army Corps of Engineers 404 Permitted Projects with Relatively Small Effects on the Giant Garter Snake within Butte, Colusa, Glenn, Fresno, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter, and Yolo Counties, California (USFWS File #1-1-97-F-0149).

On April 7, 2014, PMC biologists met with USACE representative Lisa Gibson to review the delineation.

On April 14, 2014, City of Elk Grove staff met with staff from Caltrans at the project site to discuss project impacts, including impacts to biological resources associated with the project.

Limitations That May Influence Results

No limitations to the assessment efforts or information collected to date have been identified. Standard protocols were used for biological surveys that were conducted; surveys were conducted during appropriate seasons and under appropriate weather conditions. The presence of potentially occurring special-status species is inferred in suitable habitat within and adjacent to the BSA until protocol-level and/or preconstruction surveys are completed, as necessary.

Chapter 3 – Results: Environmental Setting

This chapter describes the region in which the project will occur, including a concise description of the area's topography, soils, vegetation, aquatic resources, and level of human or natural disturbance.

Description of the Existing Biological and Physical Conditions

The following descriptions of the existing biological and physical conditions are described in relation to the BSA boundaries. The BSA was used as the limit for biological studies conducted in support of the project and will be used when determining potential impacts to special-status species as described in Chapter 4.

STUDY AREA

The BSA for this project was defined using a 250-foot buffer off the project footprint (**Figure 4**). This boundary was chosen due to the presence of vernal pool features in proximity to the project footprint. The USFWS typically considers all vernal pool features within 250 feet of the proposed development indirectly affected. In addition, this boundary includes all areas that could be impacted by the project, plus a buffer to accommodate any changes to project limits and project design that may occur during project development. **Figure 5** depicts the BSA limits along with the project impact area (footprint and TCZ).

The proposed project directly abuts a concurrent project to the north, Laguna Creek Trail-North Camden Spur (**Figure 6**). In order to avoid overlap in evaluation of species impacts associated with each project, both project footprints were joined, a 250-foot buffer applied, and the BSA was split between the two projects. As a result, the 250-foot buffer does not apply to the northern project boundary.

The area within the BSA is designated as public open space, public park, and low-density residential according to the City of Elk Grove General Plan Land Use Policy Map (City of Elk Grove 2009). The BSA is generally bounded by Laguna Creek and Camden Park to the north and Bond Road to the south.

PHYSICAL CONDITIONS

Topography

The BSA is located in the Sacramento Valley, which is primarily flat land with no hills or valleys. The BSA elevation is between 38 and 47 feet above mean sea level (amsl). The elevation is relatively flat through the urban development in the southern portion of the action area. In the northern portion of the action area, the topography slopes from the edge of urban development north toward Laguna Creek.

Hydrology

Hydrologic features in the BSA include Laguna Creek, Camden Lake, and man-made ditches. Precipitation and other surface water in the BSA sheet flows to either Laguna Creek or Camden Lake. Within the urban development to the south, surface water sheet flows into the storm drain system and discharges into the man-made ditches in the BSA.

Soils

The Natural Resources Conservation Service's (NRCS) Web Soil Survey identifies three soil types within the BSA (**Figure 7**). Each soil type is described below based on descriptions obtained from the Web Soil Survey (USDA 2014). Hydric soils ratings describe the proportion of map units that meet the hydric soils criteria (USDA 2014). Hydric means that 100% of the components listed for a given map unit are rated as being hydric. Predominantly hydric means that 66% to 99% of the components listed for a given map unit meet the hydric soils criteria. Partially hydric means that 33% to 65% of the map unit components are hydric; predominantly nonhydric means that 1% to 32% of the map unit components are hydric; and nonhydric means that none of the map unit components meet hydric soil criteria.

- **Bruella sandy loam, 0 to 2 percent slopes (111).** This is a well drained soil that occurs on terraces between 30 and 150 amsl. The depth to the restrictive feature is more than 80 inches, and the soil is composed of alluvium derived from granite. The hydric rating for this soil type is **nonhydric**.

- **San Joaquin silt loam (213** and **214).** This is a moderately well drained soil that occurs on terraces between 20 and 500 amsl. The depth to the duripan is 28 to 54 inches, and the soil is composed of alluvium derived from granite. The hydric rating for this soil type is **predominantly nonhydric**.

BIOLOGICAL CONDITIONS

Vegetative communities are assemblages of plant species that occur in the same area and are defined by species composition and relative abundance. The BSA consists of urban land uses, annual grassland, man-made ditch, fresh emergent wetland, open water, and vernal pool habitats (**Figure 8**). Each community is described below and is based on descriptions obtained from the CDFW's A Guide to Wildlife Habitats of California (2014b).

Vegetative Communities

<u>Urban</u>

Urban habitat is characterized by the presence of both native and exotic species maintained in a relatively static composition within a downtown, residential, or suburban setting. Species richness in these areas depends greatly on community design (i.e., open space considerations) and proximity to the natural environment.

City of Elk Grove
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Figure 4
Biological Study Area

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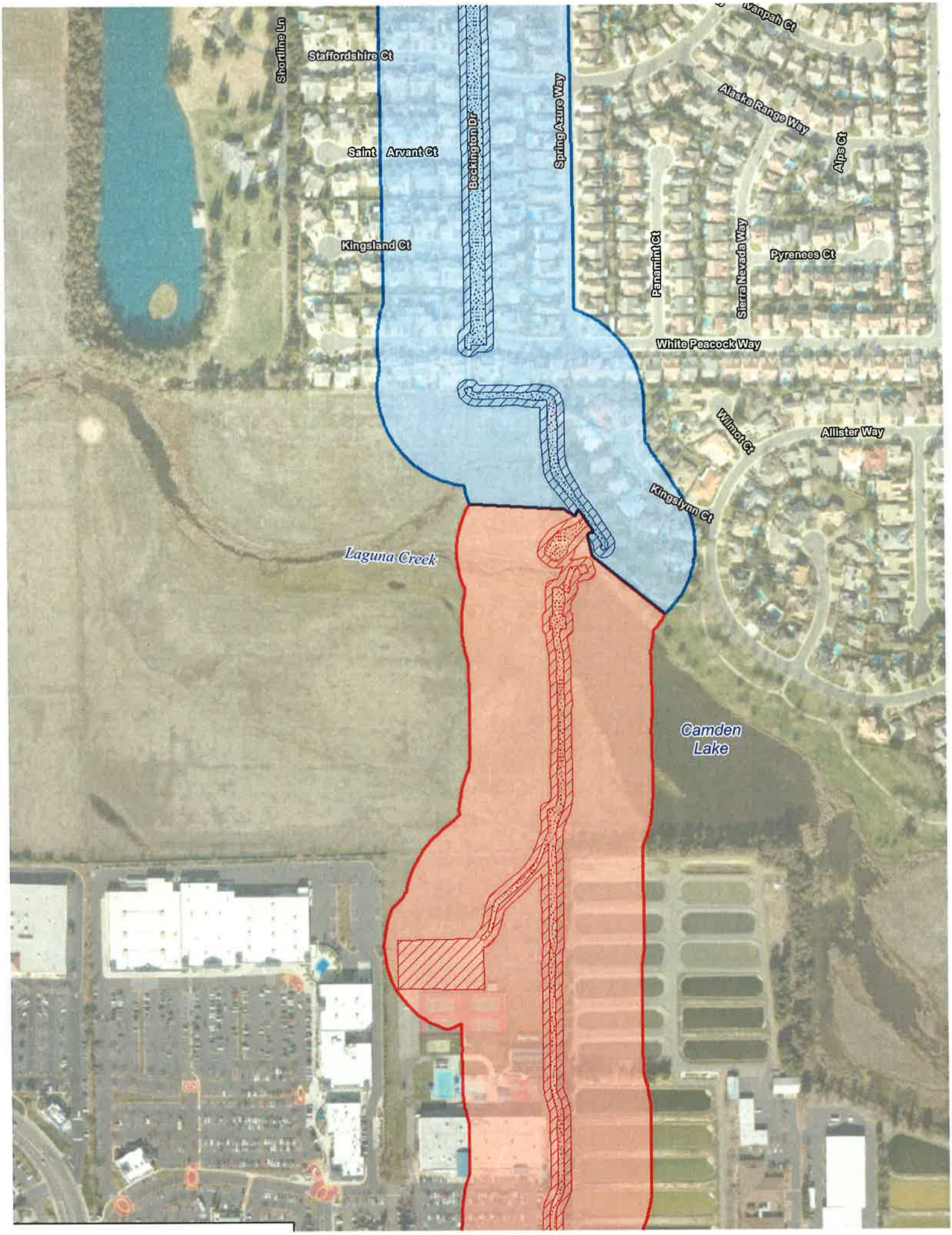
Figure 5
Biological Study Area and Project Impact Map


Shortline Ln
Staffordshire Ct
Saint Arvant Ct
Kingsland Ct
Beckington Dr
Spring Azure Way
Ivanpah Ct
Alaska Range Way
Alps Ct
Panamint Ct
Sierra Nevada Way
Pyrenees Ct
White Peacock Way
Wilmot Ct
Allister Way
Kingslynn Ct
Laguna Creek
Camden Lake

City of Elk Grove
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Figure 7
NRCS Soils Map

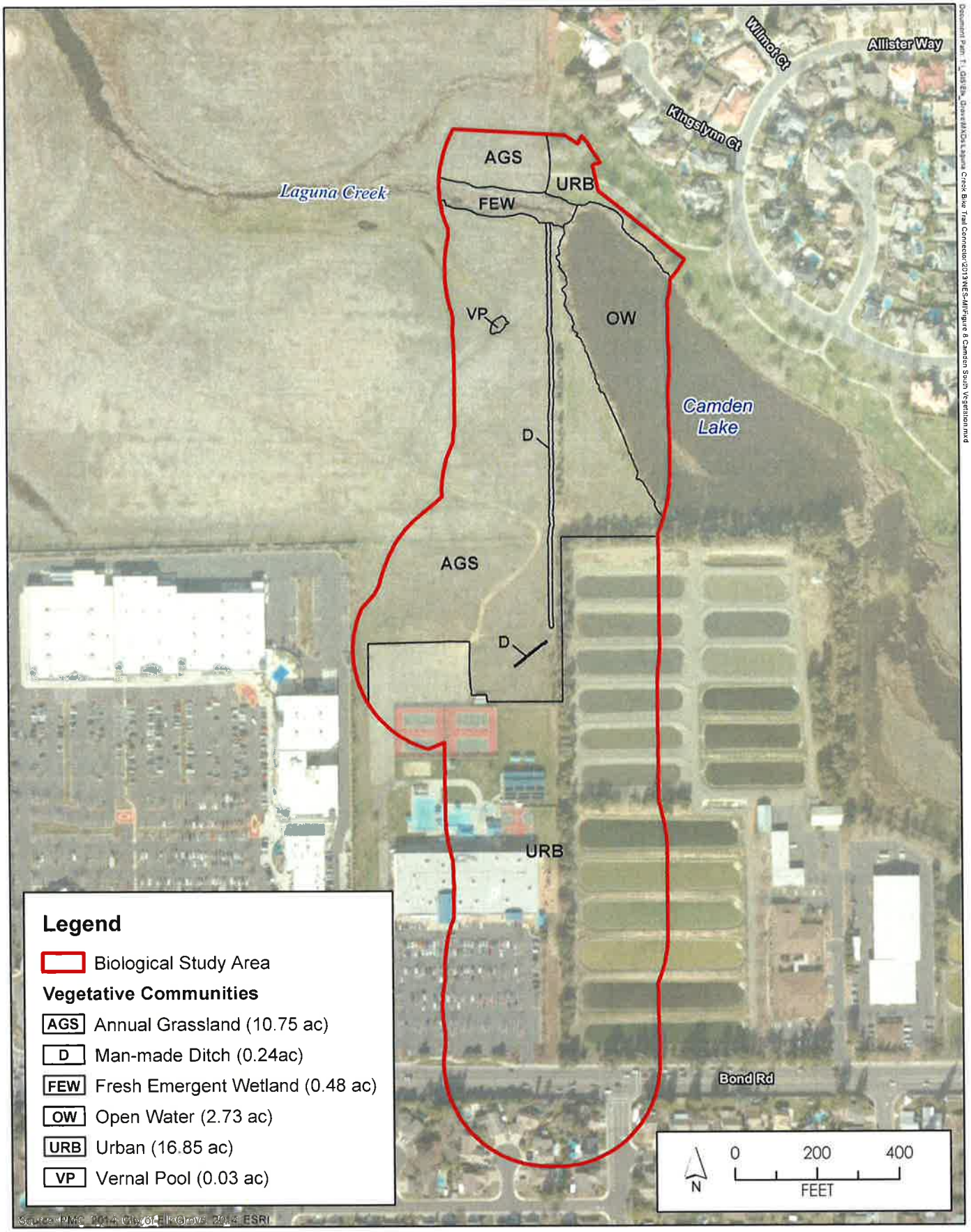

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Figure 8
Vegetative Communities Map

The California Wildlife Habitat Relationships system classifies urban habitat into five different vegetation types: tree grove, street strip, shade tree/lawn, lawn, and shrub cover. Tree groves refer to conditions typically found in city parks, greenbelts, and cemeteries. These areas vary in tree height, spacing, crown shape, and understory conditions; however, they have a continuous canopy. Street strip vegetation, located roadside, varies with species type but typically includes a ground cover of grass. Shade trees and lawns refer to characteristic residential landscape, which is reminiscent of natural savannas. Lawns are composed of a variety of grasses, maintained at a uniform height with continuous ground cover through irrigation and fertilization. Shrub cover refers to areas commonly landscaped and maintained with hedges, as typically found in commercial districts. All five types of urban habitat are generally found in combination, creating considerable edge effect, which can be more valuable to wildlife than any one individual unit. All five types of urban habitat are present in the BSA and include all the residential development and associated infrastructure, as well as all landscaped areas, including Camden Park.

Annual Grassland

The dominant species found within the annual grassland community includes introduced grasses such as Italian ryegrass (*Lolium multiflorum*), barnyard grass (*Echinochloa cure-all*), wild oat (*Avena fatua*), Mediterranean barley (*Hordeum marinum*), foxtail barley (*Hordeum murinum*), Bermuda grass (*Cynodon dactylon*), and soft-chess brome (*Bromus hordeaceus*). Common forbs observed within these grasslands include mustards (*Brassica* spp.), spring vetch (*Vicia sativa*), field bindweed (*Convolvulus arvensis*), turkey mullein (*Eremocarpus setigerus*), Italian thistle (*Carduus pynocephalus*), yellow star-thistle (*Centaurea solstitialis*) and dove's-foot geranium (*Geranium molle*).

Many wildlife species use annual grasslands for foraging, but some require special habitat features such as cliffs, caves, ponds, or habitats with woody plants for breeding, resting, and cover. Characteristic reptiles that breed in annual grasslands include the western fence lizard (*Sceloporus occidentalis*), common garter snake (*Thamnophis sirtalis*), and western rattlesnake (*Crotalus viridis helleri*). Mammals typically found in this habitat include the black-tailed jackrabbit (*Lepus californicus*), California ground squirrel (*Spermophilus beecheyi*), Botta's pocket gopher (*Thomomys bottae*), western harvest mouse (*Reithrodontomys megalotis*), California vole (*Microtus californicus*), and coyote (*Canis latrans*). Birds known to breed in annual grasslands include the western burrowing owl (*Athene cunicularia hypugaea*), horned lark (*Eremophila alpestris*), and western meadowlark (*Sturnella neglecta*). This habitat also provides important foraging habitat for turkey vulture (*Cathartes aura*), northern harrier (*Circus cyaneus*), and American kestrel (*Falco sparverius*).

Man-made Ditch

Two man-made drainage ditches convey runoff from the urban development in the southern portion of the BSA into Laguna Creek. Man-made drainage ditches are highly modified channels that vary in species composition and persistence of water. Some areas of native vegetation include broad-leaved cattail (*Typha latifolia*), Pacific rush (*Juncus effusus* var. *pacificus*), fringed willowherb (*Epilobium ciliatum* ssp. *ciliatum*), and tall flatsedge (*Cyperus eragrostis*).

Fresh Emergent Wetland

Freshwater emergent wetlands are characterized by erect, rooted herbaceous hydrophytes such as common cattail. Emergent wetlands are flooded frequently enough so that the roots of the vegetation are in an anaerobic environment. On the upper margins of this habitat, saturated or periodically flooded soils support several moist soil plant species including big-leaf sedge (*Carex amplifolia*), Baltic rush (*Juncus balticus*), tall flatsedge, and on more alkali sites, saltgrass (*Distichlis spicata*). The upland limit of freshwater emergent wetlands and deep water habitats is the deep water edge of the emergent vegetation. Within the BSA, freshwater emergent wetlands are associated with Laguna Creek.

Freshwater emergent wetlands are among the most productive wildlife habitats in California. Many species rely on freshwater emergent wetlands for their entire life cycle. The rare giant garter snake uses these wetlands as its primary habitat. Slow-moving waters provide important resting and foraging habitats for migratory water birds such as the mallard (*Anas platyrhynchos*) and cinnamon teal (*A. cyanoptera*). Wetlands also provide habitat for the American coot (*Fulica americana)*, great blue heron (*Ardea herodias*), great egret (*Ardea alba)*, and black phoebe (*Sayornis nigricans).* Beaver (*Castor canadensis*) is commonly found within the waterways in the city and may be found along Laguna Creek.

Open Water

Open water or lacustrine habitats are inland depressions or dammed riverine channels containing standing water. Depth can vary from a few centimeters to hundreds of meters. Typical lacustrine habitats include permanently flooded lakes and reservoirs, intermittent lakes, and ponds. Most permanent lacustrine systems support fish life; intermittent types usually do not. As sedimentation and accumulation of organic matter increases toward the shore, floating rooted aquatics such as water lilies (*Nymphaea* spp.) and smartweed (*Polygonum amphibium* var. *stipulaceum)* often appear. There is an artificial concrete weir on Laguna Creek, which created a large ponded area (Camden Lake) to the east of the action area in Camden Park.

Suspended organisms such as plankton are found in the open water of lacustrine habitats. Submerged plants such as algae and pondweeds serve as supports for smaller algae and as cover for swarms of minute aquatic animals. Floating plants offer food and support for numerous herbivorous animals that feed both on plankton and floating plants. Wading ducks often frequent ponded areas. Aquatic species include mosquito fish (*Gambusia affinis*) and Louisiana red swamp crayfish (*Procambarus clarkii*).

Vernal Pool

Vernal pools are ephemeral aquatic habitats within a grassland matrix that annually fill with water and dry out. Vernal pools are wetlands characterized by seasonally flooded depressions on ancient soils with an impermeable layer, such as a hardpan, claypan, or volcanic basalt, which allows the pools to retain water over the winter much longer than the surrounding uplands (Barry 1995). Three depressional wetlands are located on the south side of the creek, west of the proposed trail location. Plant species observed in the vernal pool include vernal pool buttercup (*Ranunculus bonariensis*), vernal pool popcorn flower (*Plagiobothrys stipitatus*), dense-flowered spike primrose (*Epilobium densiflorum*), and curly dock (*Rumex crispus*). By summer, the pools have dried up. The vernal pool seems to be connected via swale (a linear depression that does not exhibit wetland indicators or an OHWM) to Laguna Creek.

The species found in vernal pools are highly adapted to the temporary nature of their environment. Any animals that have relied on the temporary rain pools must have either completed their life cycle or moved to another terrestrial habitat type. Among the many invertebrates that inhabit these pools, several species of crustaceans, branchiopods in particular, are ecologically dependent on wetlands with seasonal inundation and subsequent desiccation (Williams 1987; Eriksen and Belk 1999). Species found during dip-netting include common species such as water fleas (cladocera: *Daphnia* sp.), flatworms (turbularia), an unknown tadpole, and seed shrimp (ostracods). Listed vernal pool crustaceans were not observed; however, protocol-level surveys were not conducted.

Habitat Connectivity

The CDFW Biogeographic Information & Observation System (2014c) was reviewed to determine if the BSA is located within an Essential Connectivity Area. The BSA does not occur within an Essential Connectivity Area; therefore, the project is not likely to adversely affect migratory corridors.

Regional Species and Habitats and Natural Communities of Concern

Habitats of concern include areas of special concern to resource agencies, areas protected under CEQA, areas designated as sensitive natural communities by the CDFW, areas outlined in Section 1600 of the FGC, areas regulated under Section 404 of the federal CWA, and areas protected under local regulations and policies. Sensitive habitats identified in or adjacent to the BSA include vernal pools, Laguna Creek, and Camden Lake.

Candidate, sensitive, or special-status species are commonly characterized as species that are at potential risk or actual risk to their persistence in a given area or across their native habitat. These species have been identified and assigned a status ranking by governmental agencies such as the CDFW and the USFWS, and private organizations such as the CNPS. The degree to which a species is at risk of extinction is the determining factor in the assignment of a status ranking. Some common threats to a species' or a population's persistence include habitat loss, degradation, and fragmentation, as well as human conflict and intrusion. For the purposes of this NES, special-status species are defined by the following codes:

- Listed, proposed, or candidates for listing under the ESA (50 CFR Section 17.11 – listed; 61 Federal Register Section 7591, February 28, 1996, candidates)

- Listed or proposed for listing under CESA (FGC 1992 Section 2050 et seq.; 14 California CCR Section 670.1 et seq.)

- Designated as Species of Special Concern by the CDFW

- Designated as Fully Protected by the CDFW (FGC Sections 3511, 4700, 5050, 5515)

- Species that meet the definition of rare or endangered under CEQA (14 CCR Section 15380), including CNPS List 1 and 2

The result of the USFWS, CNDDB, and CNPS database queries identified several special-status species with the potential to be impacted by the proposed project. **Figure 9** depicts CNDDB occurrence data within 1 mile of the BSA. **Table 1** provides a summary of all species identified in the search results, a description of the habitat requirements for each species, and conclusions regarding the potential for each species to be impacted by the proposed project.

estrial Habitat

10	*Northern Hardpan Vernal Pool*	*Northern Hardpan Vernal Pool*	None	None	
11	*Sagittaria sanfordii*	Sanford's arrowhead	None	None	1B.
12	*Thamnophis gigas*	giant garter snake	Threatened	Threatened	

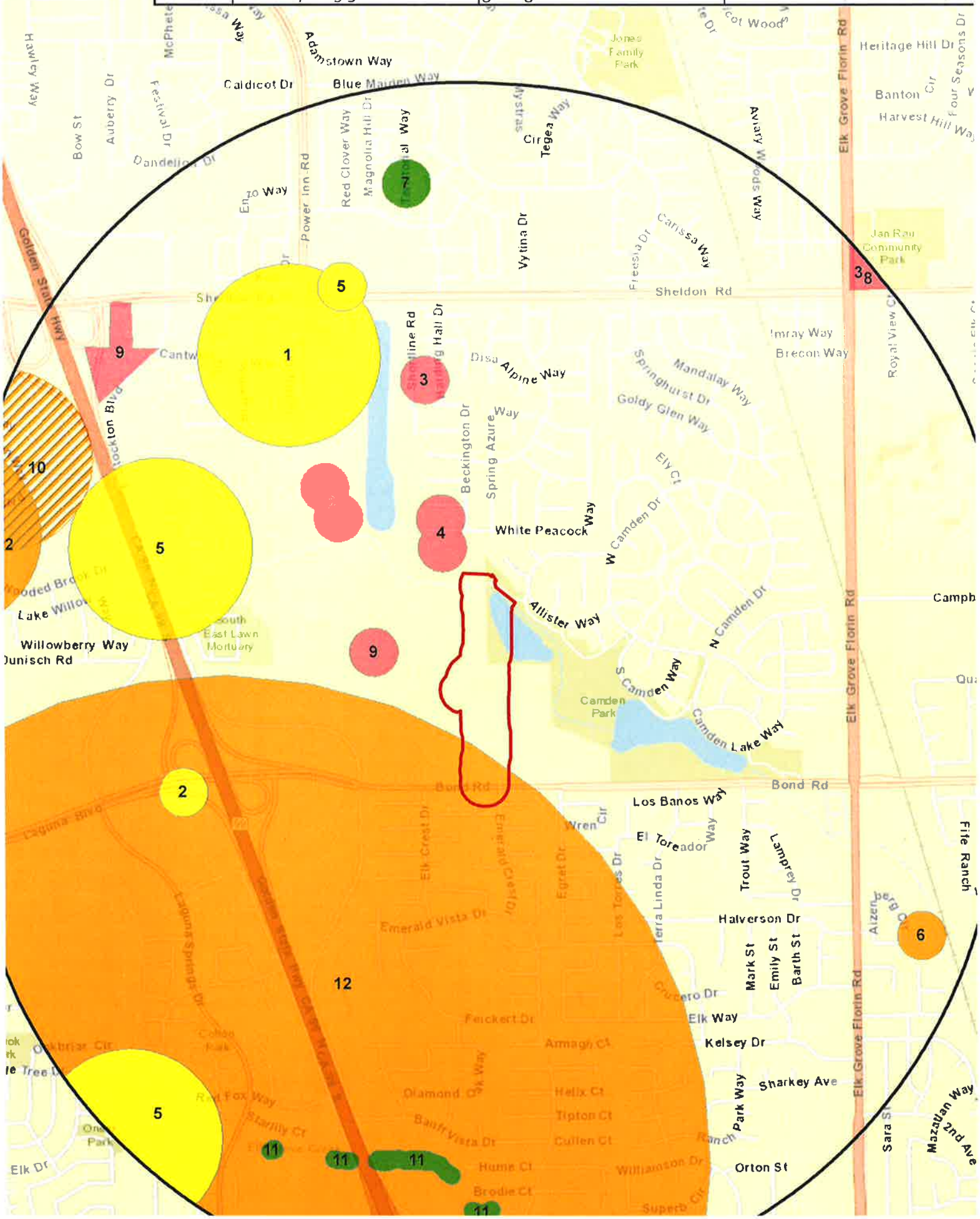

Table 1: Special-Status Species and Critical Habitat Potentially Occurring or Known to Occur in the Project Area

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
				Plants			
Astragalus tener var. ferrisiae	Ferris' milk-vetch	-	-	1B.1	Vernally mesic meadows and seeps, and subalkaline flats in valley and foothill grasslands. Elev: 7-246 ft. (2-75 m.) Blooms: April-May (CNPS 2014).	A	**No effect.** Suitable habitat not present.
Brasenia schreberi	watershield	-	-	2B.3	Freshwater marshes and swamps. Elev: 98-7,218 ft. (30-2,200 m.) Blooms: June-Sept (CNPS 2014).	A	**No effect**. BSA below elevation range.
Carex comosa	bristly sedge	-	-	2B.1	Marshes, swamps and lake margins. Elev: 0-2,051 ft. (0-625 m.) Blooms: May-Sept (CNPS 2014).	P	**May affect**. Suitable habitat present.
Calystegia stebbinsii	Stebbins' morning glory	FE	SE	1B.1	Cismontane woodland and openings in chaparral. Associated with gabbroic or serpentinite soil. Elevation: 607-3,576 ft. (185-1,090 m.) Blooms: April-July (CNPS 2014).	A	**No effect**. Suitable habitat not present.
Castilleja campestris ssp. succulenta	succulent owl's-clover	FT	SE	1B.1	Acidic vernal pools. Elev: 164-2,461 ft. (50-750 m.) Blooms: April-May (CNPS 2014).	A	**No effect**. BSA below elevation range.
	Critical Habitat, succulent owl's-clover	X	-	-		A	**No effect**. BSA not located within Critical Habitat Unit.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Ceanothus roderickii	Pine Hill ceanothus	FE	SR	1B.2	Serpentinite or gabbroic soil in chaparral and cismontane woodland. Elev: 804-2,067 ft. (245-630 m.) Blooms: April-June (CNPS 2014).	A	**No effect**. Suitable habitat not present.
Cicuta maculata var. bolanderi	Bolander's water-hemlock	-	-	2B.1	Coastal, fresh, or brackish marshes and swamps. Elev: 0-656 ft. (0-200 m.) Blooms: July-Sept (CNPS 2014).	P	**May affect.** Suitable habitat present.
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	-	-	2B.2	Freshwater marshes and swamps. Elev: 49-919 ft. (15-280 m.) Blooms: July-Oct (CNPS 2014).	P	**May affect.** Suitable habitat present.
Downingia pusilla	dwarf downingia	-	-	2B.2	Vernal pools and mesic valley and foothill grasslands. Elev: 3-1,459 ft. (1-445 m.) Blooms: March-May (CNPS 2014).	P	**May affect**. Suitable habitat present.
Fremontodendron californicum ssp. *decumbens*	Pine Hill flannelbush	FE	-	1B.2	Gabbroic, serpentinite, rocky soils in chaparral and cismontane woodlands. Elev: 1,394-2,493 ft. (425-760 m.) Blooms: April-July (CNPS 2014).	A	**No effect**. Suitable habitat not present.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Galium californicum ssp. sierrae	El Dorado bedstraw	FE	SR	1B.2	Gabbroic soils in chaparral, cismontane woodland and lower montane coniferous forest. Elev: 328-1,919 ft. (100-585 m.) Blooms: May-June (CNPS 2014).	A	**No effect**. Suitable habitat not present.
Gratiola heterosepala	Boggs Lake hedge-hyssop	-	SE	1B.2	Clay soils in marshes, swamps, lake margins and vernal pools. Elev: 33-7,792 ft. (10-2,375 m.) Blooms: April-Aug (CNPS 2014).	A	**No effect.** Suitable soils not present. Soils in BSA are silt loam and sandy loam (USDA 2014).
Hibiscus lasiocarpus var. occidentalis	woolly rose mallow	-	-	1B.2	Freshwater marshes and swamps. Elev: 0-394 ft. (0-120 m.) Blooms: June-Sept (CNPS 2014).	P	**May affect.** Suitable habitat present.
Juglans hindsii	Northern California black walnut	-	-	1B.1	Riparian forest/woodland. Elev: 0-1,444 ft. (0-440 m.) Blooms: April-May (CNPS 2014).	A	**No effect**. No individuals documented within BSA.
Juncus leiospermus var. ahartii	Ahart's dwarf rush	-	-	1B.2	Mesic valley and foothill grasslands. Elev: 98-751 ft. (30-229 m.) Blooms: March-May (CNPS 2014).	A	**No effect.** BSA below elevation range.
Lathyrus jepsonii var. jepsonii	Delta tule pea	-	-	1B.2	Freshwater and brackish marshes and swamps. Elev: 0-13 ft. (0-4 m.) Blooms: May-Sept (CNPS 2014).	A	**No effect.** BSA outside species elevation range.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Legenere limosa	legenere	-	-	1B.1	Vernal pools. Elev: 3-2,887 ft. (1-880 m.) Blooms: April-June (CNPS 2014).	P	**May affect**. Suitable habitat present.
Lepidium latipes var. heckardii	Heckard's pepper-grass	-	-	1B.2	Alkaline flats in valley and foothill grasslands. Elev: 7-656 ft. (2-200 m.) Blooms: March-May (CNPS 2014).	A	**No effect.** Suitable habitat not present.
Lilaeopsis masonii	Mason's lilaeopsis	-	SR	1B.1	Riparian scrub, and brackish or freshwater marshes and swamps. Elev: 3-33 ft. (0-10 m.) Blooms: April-Nov (CNPS 2014).	P	**May affect**. Suitable habitat present.
Limosella australis	Delta mudwort	-	-	2B.1	Usually mud banks in riparian scrub, and freshwater or brackish marshes and swamps. Elev: 0-10 ft. (0-3 m.) Blooms: May-Aug (CNPS 2014).	A	**No effect.** BSA above elevation range.
Orcuttia tenuis	slender Orcutt grass	FT	SE	1B.1	Vernal pools. Elev: 115-5,774 ft. (35-1,760 m.) Blooms: May-Oct (CNPS 2014).	A	**No effect.** BSA below elevation range.
	Critical Habitat, slender Orcutt grass	X	-	-		A	**No effect**. BSA not located within Critical Habitat Unit.
Orcuttia viscida	Sacramento Orcutt grass	FE	SE	1B.1	Vernal pools. Elev: 98-328 ft. (30-100 m.) Blooms: April-Sept (CNPS 2014).	A	**No effect.** BSA below elevation range.
	Critical Habitat, Sacramento Orcutt grass	X	-	-		A	**No effect**. BSA not located within Critical Habitat Unit.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Packera layneae(=Senecio layneae)	Layne's ragwort	FT	SR	1B.2	Serpentinite or gabbroic, rocky soils in chaparral and cismontane woodland. Elev: 660-3,300 ft. (200-1,000 m.) Blooms: April-Aug (CNPS 2014).	A	**No effect**. Suitable habitat not present.
Sagittaria sanfordii	Sanford's arrowhead	-	-	1B.2	Assorted shallow freshwater marshes and swamps. Elev: 0-2,133 ft. (0-650 m.) Blooms: May-Oct (CNPS 2014).	P	**May affect**. Suitable habitat present.
Scutellaria galericulata	marsh skullcap	-	-	2B.2	Lower montane coniferous forest, meadows, seeps, marshes, and swamps. Elev: 0-6,890 ft. (0-2,100 m.) Blooms: June-Sept (CNPS 2014).	P	**May affect**. Suitable habitat present.
Scutellaria laterifolia	side-flowering skullcap	-	-	2B.2	Marshes, swamps, mesic meadows and seeps. Elev: 0-1,640 ft. (0-500 m.) Blooms: July-Sept (CNPS 2014).	P	**May affect**. Suitable habitat present.
Symphyotrichum lentum	Suisun Marsh aster	-	-	1B.2	Brackish and freshwater marshes and swamps. Elev: 0-10 ft. (0-3 m.) Blooms: May-Nov (CNPS 2014).	A	**No effect.** BSA above elevation range.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Trifolium hydrophilum	saline clover	-	-	1B.2	Marshes and swamps, valley and foothill grassland (mesic, alkaline), and vernal pools. Elev: 0-984 ft. (0-300 m.) Blooms: April-June (CNPS 2014).	P	**May affect**. Suitable habitat present.
Invertebrates							
Branchinecta conservatio	conservancy fairy shrimp	FE	-		Vernal pools, often large and turbid pools (USFWS 2005).	A	**No effect.** Species not known to occur in this part of the Central Valley.
Branchinecta lynchi	vernal pool fairy shrimp	FT	-		Found in vernal pools and ephemeral wetlands. Distributed throughout the Central Valley, including Sacramento County (USFWS 2005).	P	**May affect**. Suitable habitat present.
	Critical Habitat, vernal pool fairy shrimp	X	-			A	**No effect.** BSA not located within Critical Habitat Unit.
Desmocerus californicus dimorphus	valley elderberry longhorn beetle	FT	-		Dependent on hostplant, elderberry (*Sambucus* spp.), which generally grows in riparian woodlands and upland habitats of the Central Valley. Current distribution in the Central Valley from Shasta County to Fresno County (USFWS 1999a).	A	**No effect.** Hostplant not present within BSA.
	Critical Habitat, valley elderberry longhorn beetle	X	-			A	**No effect.** BSA not located within Critical Habitat Unit.
Lepidurus packardi	vernal pool tadpole shrimp	FE	-		Wide variety of ephemeral wetland habitats, including	P	**May affect**. Suitable habitat not present.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
	Critical Habitat, vernal pool tadpole shrimp	X	-		vernal pools. Distributed throughout Central Valley and San Francisco Bay area (USFWS 2005).	A	**No effect.** BSA not located within Critical Habitat Unit.
				Fish			
Acispenser medirostris	green sturgeon	FT	SSC		Spawning occurs in Sacramento River and Klamath River (USFWS 1996b). Oceanic waters, bays, and estuaries during non-spawning season. Spawning habitat = deep pools in large, turbulent, freshwater mainstems (NMFS 2005).	A	**No effect.** Creeks within BSA inaccessible to anadromous fish species due to fish passage barriers.
	delta smelt	FT	SE		Distribution includes the Sacramento River below Isleton, San Joaquin River below Mossdale, and Suisun Bay. Spawning areas include the Sacramento River below Sacramento, Mokelumne River system, Cache Slough, the delta, and Montezuma Slough (USFWS 1996b).	A	**No effect.** Creeks within BSA inaccessible to anadromous fish species due to fish passage barriers.
Hypomesus transpacificus	Critical Habitat, delta smelt	X	-			A	**No effect.** BSA not located within Critical Habitat Unit.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Lampetra ayresii	river lamprey	-	SSC		Adults require clean, gravelly riffles in permanent streams for spawning, while the ammocoetes require sandy backwaters or stream edges in which to bury themselves, where water quality is continuously high and temperatures do not exceed 25°C (Moyle et al. 1995).	A	**No effect.** Creeks within BSA inaccessible to anadromous fish species due to fish passage barriers.
Mylopharodon conocephalus	hardhead	-	SSC		Small to large streams in a low to mid-elevation environment. May also inhabit lakes or reservoirs. Their preferred stream temperature might easily exceed 20°C, though these fish do not favor low dissolved oxygen levels. Therefore the hardhead minnow is usually found in clear deep streams with a slow but present flow. Though spawning may occur in pools, runs, or riffles, the bedding area will typically be characterized by gravel and rocky substrate (CalFish 2014).	A	**No effect.** Creeks within BSA inaccessible to anadromous fish species due to fish passage barriers.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Oncorhynchus mykiss	Central Valley steelhead	FT	-		Spawning habitat = gravel-bottomed, fast-flowing, well-oxygenated rivers and streams. Non-spawning = estuarine, marine waters (Busby et al. 1996).	A	**No effect.** Creeks within BSA inaccessible to anadromous fish species due to fish passage barriers.
	Critical Habitat, Central Valley steelhead	X	-			A	**No effect.** BSA not located within Critical Habitat Unit.
Oncorhynchus tshawytscha	Central Valley spring-run chinook salmon	FT	ST		Spawning habitat = fast moving, freshwater streams and rivers. Juvenile habitat = brackish estuaries. Non-spawning = marine waters (Myers et al. 1998).	A	**No effect.** Creeks within BSA inaccessible to anadromous fish species due to fish passage barriers.
	Critical Habitat, Central Valley spring-run chinook salmon	X	-			A	**No effect.** BSA not located within Critical Habitat Unit.
	winter-run chinook salmon, Sacramento River	FE	SE			A	**No effect.** Creeks within BSA inaccessible to anadromous fish species due to fish passage barriers.
	chinook salmon, Central Valley fall/late fall-run ESU	-	SSC			A	**No effect.** Creeks within BSA inaccessible to anadromous fish species due to fish passage barriers.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Pogonichthys macrolepidotus	Sacramento splittail	-	SSC		Prefers slow-moving sections of freshwater rivers and sloughs. Most abundant in Suisun Bay and Marsh region. Largely absent from Sacramento River except during spawning (USFWS 1996b).	A	**No effect.** Suitable habitat not present. Project-related activities are not anticipated to impact the stream.
Spirinchus thaleichthys	longfin smelt	FC	ST/SSC		Adults and juveniles require salt or brackish estuary waters. Spawning takes place in freshwater over sandy-gravel substrates, rocks, and aquatic plants (Moyle et al 1995).	A	**No effect.** Suitable habitat not present.
Amphibians							
Ambystoma californiense	California tiger salamander, central population	FT	ST		Occurs in grasslands of the Central Valley and oak savannah communities in the Central Valley, the Sierra Nevada and Coast ranges, and the San Francisco Bay Area. Needs seasonal or semi-permanent wetlands to reproduce, and terrestrial habitat with active ground squirrel or gopher burrows (Bolster 2010).	A	**No effect.** BSA outside known range in Sacramento County.
	Critical Habitat, CA tiger salamander, central population	X	-			A	**No effect.** BSA not located within Critical Habitat Unit.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Rana draytonii	California red-legged frog	FT	SSC		Found mainly near ponds in humid forests, woodlands, grasslands, coastal scrub, and streamsides with plant cover. Most common in lowlands or foothills. Frequently found in woods adjacent to streams. Breeding habitat is in permanent or ephemeral water sources; lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps. Ephemeral wetland habitats require animal burrows or other moist refuges for aestivation when the wetlands are dry. From sea level to 5,000 ft. (1,525 m.) (Nafis 2014).	A	**No effect.** Suitable habitat not present.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Spea hammondii	western spadefoot	-	SSC		Open areas with sandy/gravelly soils. Variable habitats including mixed woodlands, grasslands, coastal sage scrub, chaparral, sandy washes, lowlands, river floodplains, alluvial fans, playas, alkali flats, foothills, and mountains. Rainpools which do not contain bullfrogs, fish, or crayfish are necessary for breeding (Nafis 2014).	A	**No effect.** Suitable habitat not present.
Reptiles							
Emys marmorata	western pond turtle	-	SSC		Found in ponds, lakes, rivers, streams, creeks, marshes, and irrigation ditches, with abundant vegetation, and either rocky or muddy bottoms, in woodland, forest, and grassland. In streams, prefers pools to shallower areas. Logs, rocks, cattail mats, and exposed banks are required for basking. May enter brackish water and even seawater. Found at elevations from sea level to over 5,900 ft (1,800 m). (Nafis 2014).	P	**May affect**. Suitable habitat present.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Thamnophis gigas	giant garter snake	FT	ST		Marshes, sloughs, ponds, small lakes, low gradient streams, irrigation and drainage canals, rice fields and their associated uplands. Upland habitat should have burrows or other soil crevices suitable for snakes to reside during their dormancy period (November–mid-March). Ranges in the Central Valley from Butte County to Buena Vista Lake in Kern County. Endemic to valley floor wetlands (USFWS 2012).	P	**Likely to adversely affect**. Suitable habitat present.
Birds							
Agelaius tricolor	tricolored blackbird	-	SSC		Nests in wetlands or in dense vegetation near open water. Dominant nesting substrates: cattails, bulrushes, blackberry, agricultural silage. Nesting substrate must either be flooded, spinous, or in some way defended against predators (Hamilton 2004).	P	**May affect.** Suitable nesting substrate present.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Ammodramus savannarum	grasshopper sparrow	-	SSC		In the foothills and lowlands west of the Cascades/Sierras. Dry, dense grasslands, especially those with a variety of grasses and tall forbs and scattered shrubs for singing perches (CDFW 2014d).	P	**May affect.** Suitable habitat present.
Aquila chrysaetos	golden eagle	-	FP		Uncommon resident and migrant throughout California, except center of Central Valley. Habitat typically rolling foothills, mountain areas, sage-juniper flats, desert (CDFW 2014d).	A	**No effect.** Suitable habitat not present.
Athene cunicularia	western burrowing owl	-	SSC		Open, flat expanses with short, sparse vegetation and few shrubs, level to gentle topography and well-drained soils. Requires underground burrows or cavities for nesting and roosting. Can use rock cavities, debris piles, pipes and culverts if burrows unavailable. Habitats include grassland, shrub steppe, desert, agricultural land, vacant lots and pastures (CDFW 2014d).	P	**May affect.** Suitable habitat present. Species not previously documented onsite; however, presence of suitable habitat results in potential for future colonization.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Buteo swainsoni	Swainson's hawk	-	ST		Nests in stands with few trees in riparian areas, juniper-sage flats, and oak savannah in the Central Valley. Forages in adjacent grasslands, agricultural fields and pastures (CDFW 2014d).	P	**May affect.** Suitable foraging and nesting habitat present.
Chaetura vauxi	Vaux's swift	-	SSC		Prefers redwood and Douglas fir habitats with nest sites in large hollow trees and snags, especially tall, burnt-out stubs (CDFW 2014d).	A	**No effect.** Suitable habitat not present.
Circus cyaneus	northern harrier	-	SSC		Nests on the ground in patches of dense, tall vegetation in undisturbed areas. Breeds and forages in variety of open habitats such as marshes, wet meadows, weedy borders of lakes, rivers and streams, grasslands, pastures, croplands, sagebrush flats and desert sinks (Shuford and Gardali 2008).	P	**May affect.** Suitable habitat present.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Coccyzus americanus occidentalis	western yellow-billed cuckoo	PT	SE		Requires large, dense tracts of riparian woodland with well-developed understories. Occurs in deciduous trees or shrubs. Prefers willow, but will also nest in orchards adjacent to streams in Sacramento Valley. Restricted to moist habitats along slow-moving waterways during breeding season (CDFW 2014d).	A	**No effect.** Suitable habitat not present. This species shows increased occupancy with increased patch size (>20 hectares) (Laymon 1998). Riparian habitat within BSA <1 hectare.
Elanus leucurus	white-tailed kite	-	FP		Typically nests in the upper third of trees that may be 10-160 ft. (33-525 m.) tall. These can be open-country trees growing in isolation, or at the edge of or within a forest (CDFW 2014d).	P	**May affect.** Suitable foraging and nesting habitat present.
Grus canadensis canadensis	lesser sandhill crane	-	SSC		In summer, occurs in and near wet meadow, shallow lacustrine, and fresh emergent wetland	A	**No effect.** Not present in BSA during summer nesting months.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Grus canadensis tabida	greater sandhill crane	-	ST/FP		habitats. In winter, frequents moist croplands with rice or corn stubble, and open, emergent wetlands. Prefers treeless plains. Nests in remote portions of extensive wetlands or sometimes shortgrass prairies (CDFW 2014d).	A	**No effect.** Not present in BSA during summer nesting months.
Ixobrychus exilis	least bittern	-	SSC		Large, freshwater wetlands with dense emergent vegetation (CDFW 2014d).	P	**May affect.** Suitable habitat present.
Lanius ludovicianus	loggerhead shrike	-	SSC		Breeds in shrublands or open woodlands with a fair amount of grass cover and areas of bare ground (Shuford and Gardali 2008).	A	**No effect.** Suitable habitat not present.
Melospiza melodia	song sparrow ("Modesto" population)	-	SSC		Breeds and winters in riparian, fresh or saline emergent wetland, and wet meadows. Breeds in riparian thickets of willows, other shrubs, vines, tall herbs, and fresh or saline emergent vegetation (CDFW 2014d).	P	**May affect.** Suitable habitat present.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Progne subis	purple martin	-	SSC		Woodland and forest habitats with numerous suitable nest cavities, open air space above nest sites, and aerial insect prey (Shuford and Gardali 2008).	A	**No effect.** Suitable habitat not present.
Riparia riparia	bank swallow	-	ST		Riparian areas with sandy, vertical bluffs or riverbanks. Also nests in earthen banks and bluffs, as well as sand and gravel pits (CDFW 2014d).	A	**No effect.** Suitable habitat not present.
Sternula antillarum browni	California least tern	FE	SE/FP		Nests and roosts in colonies on open beaches, forages near shore ocean waters and in shallow estuaries and lagoons (USFWS 2006).	A	**No effect.** Suitable habitat not present.
Xanthocephalus xanthocephalus	yellow-headed blackbird	-	SSC		Nests in marshes with tall, emergent vegetation (e.g., tules and cattails) adjacent to deepwater (Shuford and Gardali 2008).	P	**May affect.** Suitable habitat present.
Mammals							
Lasiurus blossevillii	western red bat	-	SSC		Roosting habitat includes forests and woodlands, often in edge habitats adjacent to streams, fields, or urban areas (CDFW 2014d).	P	**May affect.** Suitable habitat present.

Scientific Name	Common Name	Federal Status	State Status	CNPS Rare Plant Rank	Habitat	Habitat Present/ Absent	Potential to Occur
Taxidea taxus	American badger	-	SSC		Open shrub, forest and herbaceous habitats with friable soils. Associated with treeless regions, prairies, park lands and cold desert areas. Range includes most of California, except the North Coast (CDFW 2014d).	A	**Not likely to affect.** Grasslands provide suitable habitat; however, it is unlikely this species would den so close to the road. In addition, species is highly mobile and is likely to leave area at signs of disturbance.

Key	
Federal & State Status	**CNPS Rare Plant Rank**
(FC) Federal Candidate	*Rareness Ranks*
(FD) Federally Delisted	(1A) Presumed Extinct in California
(FE) Federal Endangered	(1B) Rare, Threatened, or Endangered in California and Elsewhere
(FP) Fully Protected	(2B) Rare, Threatened, or Endangered in California, But More Common Elsewhere
(FT) Federal Threatened	*Threat Ranks*
(PT) Proposed Threatened	(0.1) Seriously threatened in California
(SCE) State Candidate Endangered	(0.2) Fairly threatened in California
(SCT) State Candidate Threatened	(0.3) Not very threatened in California
(SE) State Endangered	
(SR) State Rare	
(SSC) State Species of Special Concern	
(ST) State Threatened	
(X) Federally Designated Critical Habitat	

Chapter 4 – Results: Biological Resources, Discussion of Impacts and Mitigation

Habitats and Natural Communities of Special Concern

Natural communities of special concern are habitats that have been determined by natural resource agencies such as the CDFW to be sensitive or rare. The BSA contains jurisdictional features characterized by freshwater emergent wetland, vernal pool, man-made ditch, and open water, which are considered in this analysis. No trees are proposed for removal in association with this project; therefore, there should be no conflict with the City's tree preservation and protection code.

Annual grassland and urban habitats are not considered to be natural communities of special concern and, therefore, will not be discussed further unless in the context of habitat for special-status species.

DISCUSSION OF "JURISDICTIONAL FEATURES"

Survey Results

Approximately 0.24 acre of man-made ditches, 0.48 acre of fresh emergent wetland associated with Laguna Creek, 2.73 acres of open water associated with Camden Lake, and 0.025 acre of vernal pool occur in the BSA. All features are considered WoUS and are, therefore, subject to CWA regulations. Impacts to these features will require a CWA 404 nationwide permit from the USACE, and CWA 401 water quality certification from the RWQCB. In addition, Laguna Creek will be subject to, and the man-made ditches may be subject to, FGC Sections 1600-1607. As a result, impacts to these features will also require authorization from CDFW via a streambed alteration agreement.

Project Impacts

The proposed project will result in permanent and temporary impacts to the man-made ditch, fresh emergent wetland habitat within Laguna Creek, as well as open water habitat within Camden Lake. These impacts are summarized in **Table 2** below and are depicted on **Figure 10**.

Table 2: Impacts to Jurisdictional Features

Feature Type	Total Acres in the BSA	Acres Permanently Impacted	Acres Temporarily Impacted
Laguna Creek (fresh emergent wetland)	0.48	0.015	0.057
Camden Lake (open water)	2.73	0.049	0.144
Man-made Ditch	0.24	0.084	0.057
Vernal Pool	0.025	0	0
Total	3.475	0.148	0.258

Avoidance and Minimization Efforts

The following protective measures are recommended to minimize impacts to jurisdictional features during construction:

BIO-1: During project development, the work area will be reduced to the smallest footprint feasible in sensitive habitat areas.

BIO-2: Work shall coincide with the driest time. If water is present at the time of construction, water shall be diverted around the work area and work shall resume after the site is dry. Work within the dewatered areas shall be timed with awareness of precipitation forecasts and likely increases in water flows and flood stages. Construction activities within jurisdictional features shall cease prior to storm events until all reasonable erosion control measures have been implemented. Construction equipment and material shall be removed from the floodplain if inundation is likely. Revegetation, restoration, and erosion control work shall not be confined to this time period.

BIO-3: If work in the flowing portion of the creek/ditch is unavoidable, the entire flow shall be diverted around or through the work area during excavation and/or construction operations. Flows shall be diverted using gravity flow through temporary culverts/pipes or pumped around the work site with the use of hoses. When a temporary dam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream to maintain aquatic life below the dam pursuant to FGC Section 5937. Any temporary dam or other artificial obstruction constructed shall only be built from clean materials such as sandbags, gravel bags, water dams, or clean/washed gravel that will cause little or no siltation.

BIO-4: Prior to initiation of construction activities within jurisdictional features, construction best management practices (BMPs) shall be employed onsite to prevent degradation to onsite and offsite WoUS. Methods shall include the use of appropriate measures to intercept and capture sediment prior to entering jurisdictional features, as well as erosion control measures along the perimeter of all work areas to prevent the displacement of fill material. All BMPs shall be in place prior to initiation of any construction activities and shall remain until construction activities are completed. All erosion control methods shall be maintained until all onsite soils are stabilized.

BIO-5: Standard staging area practices for sediment-tracking reduction shall be implemented where necessary and may include vehicle washing and street sweeping.

BIO-6: All exposed/disturbed areas and access points left barren of vegetation as a result of construction activities shall be restored using locally native grass seeds, locally native grass plugs, and/or a mix of quick-growing sterile non-native grass with locally native grass seeds. Seeded areas shall be covered with broadcast straw and/or jute netted (monofilament erosion blankets are not permitted).

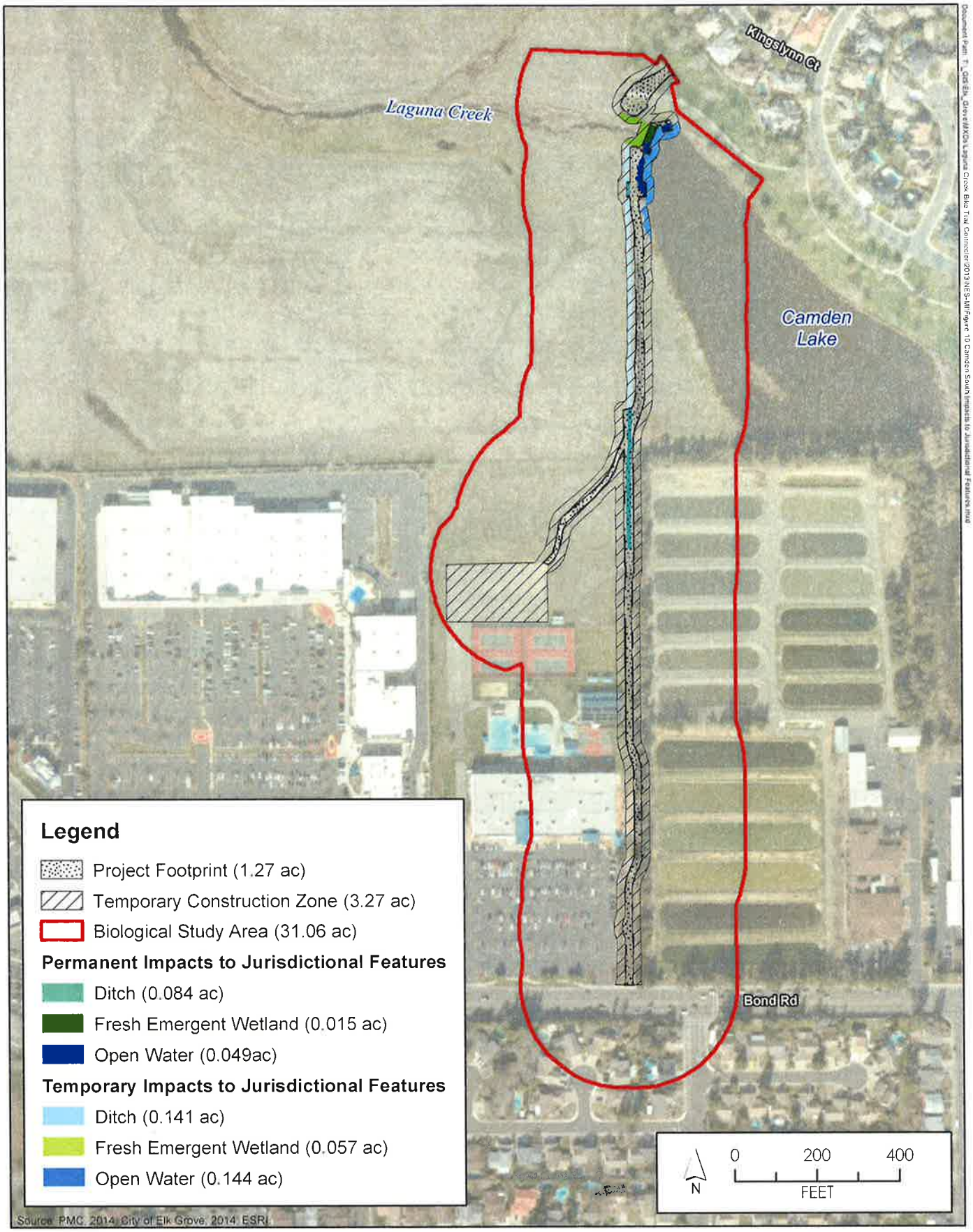

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Figure 10
Impacts to Jurisdictional Features

Compensatory Mitigation

Temporary impacts to jurisdictional features shall be offset through the implementation of **BIO-6** above. Permanent impacts shall be offset through the implementation of compensatory mitigation measures **CM-1** and **CM-2** below.

CM-1: For the 0.015 acre of Laguna Creek and 0.049 acre of Camden Lake permanently affected by the proposed project, the City shall replace the affected acreage at a 2:1 ratio (i.e., 2 acres for every 1 acre of impact), or another approved ratio as determined by the USACE. Impacts shall be offset through the dedication of 0.128 shaded riverine aquatic mitigation credit(s) within a USACE-approved mitigation bank or through the payment of in-lieu fees to an approved conservation bank.

CM-2: For the 0.084 acre of man-made ditch permanently affected by the proposed project, the City shall replace the affected acreage at a 1:1 ratio, or another approved ratio as determined by the USACE. Impacts may be offset through the restoration and relocation of the ditch within the project area, through the dedication of mitigation credit(s) within a USACE-approved mitigation bank, or through the payment of in-lieu fees to an approved conservation bank.

Cumulative Impacts

No current or foreseeable actions will contribute to the cumulative effect on jurisdictional features within the BSA. Although there will be some permanent impacts to jurisdictional features due to the proposed project, these features already exhibit signs of degradation due to human intrusion and adjacent development. Permanent impacts will be mitigated through implementation of the above compensatory mitigation strategy; therefore, no cumulative impacts to jurisdictional features are anticipated.

Special-Status Plant Species

Eleven special-status plant species were identified as having the potential to occur within the BSA: bristly sedge, Bolander's water-hemlock, Peruvian dodder, dwarf downingia, woolly rose mallow, legenere, Mason's lilaeopsis, Sanford's arrowhead, marsh skullcap, side-flowering skullcap, and saline clover. These species are discussed further below, which includes a discussion of the extent of known and/or potential habitat within the BSA, potential impacts to the species from the construction of the proposed project, recommended measures to avoid, minimize, and mitigate for project-related impacts, and the cumulative effects the proposed project will have on the continued existence of the species. According to the results of the database searches, surveys, or historic records, no other special-status plant species have potential to occur within the BSA.

DISCUSSION OF "SPECIAL-STATUS PLANTS"

Survey Results

A rare plant survey was conducted on May 6, 2011, by a PMC biologist in accordance with the General Rare Plant Survey Guidelines (USFWS 2002) and the Guidelines for Assessing the Effects of Proposed Projects on Rare, Threatened, and Endangered Plants and Natural Communities (CDFW 2000) to evaluate the presence or absence of

rare plants within the BSA. A summary memo presenting the findings of this survey is provided in **Appendix C**.

Two individuals were identified in Laguna Creek that were indiscernible between the more common water plantain and Sanford's arrowhead due to a lack of inflorescences. The plants were found adjacent to the water's edge with common cattail and bulrush. If these plants are Sanford's arrowhead, based on engineering provided, the proposed project would avoid the low-water channel where these plants occur and no impact would occur to these plants.

No other special-status plant species were identified during this survey effort; however, suitable habitat exists within the BSA for all eleven special-status plant species.

Project Impacts

If any special-status plants are present within the project footprint and/or TCZ, individuals may be directly impacted by trampling, compaction, or removal. These species are generally associated with vernal pools, fresh emergent wetland, or annual grassland habitats. The proposed project would result in 0.015 acre of permanent and 0.057 acre of temporary impact to fresh emergent wetland associated with Laguna Creek, as well as 0.049 acre of permanent and 0.144 acre of temporary impact to open water associated with Camden Lake. In addition, 1.136 acres of temporary impact and 0.616 acre of permanent impact to annual grassland habitats that may support special-status plants are anticipated due to project construction. No permanent or temporary impacts to vernal pool habitat are anticipated.

Avoidance and Minimization Efforts

The following protective measures and **BIO-1** and **BIO-6** are recommended to minimize impacts to special-status plants during construction:

BIO-7: Prior to any vegetation removal or ground-disturbing activities, focused surveys shall be conducted to determine if special-status plants occur within the project footprint and/or TCZ. Surveys shall be conducted in accordance with CDFW Protocols for Surveying and Evaluating Impacts to Special-Status Native Plant Populations and Natural Communities (CDFW 2009). These guidelines require rare plant surveys to be conducted at the proper time of year when rare or endangered species are both "evident" and identifiable. Surveys shall be scheduled to coincide with known blooming periods, and/or during periods of physiological development that are necessary to identify the plant species of concern. If no special-status plant species are found, then the project will not have any impacts to the species and no additional mitigation measures are necessary.

BIO-8: If special-status species are located within the BSA but outside the project footprint, then the plants shall be avoided by installing protective fencing and warning construction personnel of their presence.

BIO-9: If special-status plants are present within the BSA, a Worker Environmental Awareness Program (WEAP) shall be implemented to educate construction workers about the presence of special-status plant species in and/or near the project area and to instruct them on proper avoidance.

Compensatory Mitigation

If any of the species are found onsite and cannot be avoided, the City shall consult with the USFWS and/or CDFW, as applicable, to determine appropriate mitigation for special-status plants, which may include but is not limited to the following conservation measure.

CM-3: Salvage portions of the habitat or plant populations that will be lost as a result of implementation of the proposed project.

Transplant the plants that would be adversely affected by the proposed project for either re-establishment after construction is complete or for planting in a new area, in appropriate habitat.

Develop a propagation program for the salvage and transfer of rare, threatened, or endangered plant populations from the project site before the initiation of construction activities.

Qualified biologists shall be involved in the propagation and transport of rare, threatened, or endangered plant species. (Note: Propagation methods for the salvaged plant population must be developed on a case-by-case basis and must include the involvement of local conservation easements, preserves, and/or open space, where applicable). The propagation and transfer of individual plant species must be performed at the correct time of year and successfully completed before the project's construction activities eliminate or disturb the plants and habitats of concern.

Cumulative Impacts

The avoidance and minimization measures in addition to the compensatory mitigation would effectively mitigate any potential impacts to special-status plant species and, therefore, would not substantially contribute to cumulative impacts to special-status plant species.

Special-Status Animal Species Occurrences

Based on the results of the literature review and habitat assessment, fourteen special-status wildlife species have the potential to occur in the vicinity of the BSA: vernal pool fairy shrimp, vernal pool tadpole shrimp, western pond turtle, giant garter snake, tricolored blackbird, grasshopper sparrow, western burrowing owl, Swainson's hawk, northern harrier, white-tailed kite, least bittern, song sparrow, yellow-headed blackbird, and western red bat. Individual discussions of these species or guilds are presented below. The following discussions detail the extent of known and/or potential habitat within the BSA, potential impacts to these species from the construction of the proposed project, recommended measures to avoid, minimize, and mitigate for project-related impacts, and the cumulative effects the proposed project will have on the continued existence of these species. According to the results of the database searches, surveys, or historic records, no other special-status wildlife species have potential to occur within the BSA.

DISCUSSION OF "VERNAL POOL CRUSTACEANS"

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

Survey Results

One (0.025 acre) vernal pool was identified within the BSA. Formal surveys have not been conducted throughout the entire BSA; however, there are two vernal pool fairy shrimp and one vernal pool tadpole shrimp occurrences within 1 mile of the BSA. Due to the previously documented occurrences in the project vicinity, the presence of these species is inferred within the BSA for the purposes of this impact analysis.

Project Impacts

The project will not result in direct impacts to any vernal pool habitat; however, 0.025 acre of indirect habitat may occur as a result of the proposed project (**Figure 11**). Indirect impacts were calculated for all vernal pool crustacean habitat within 250 feet of the project footprint.

Avoidance and Minimization Efforts

The following protective measures and **BIO-1** through **BIO-6** and **BIO-9** (WEAP to include discussion regarding vernal pool crustaceans) are recommended to minimize impacts to special-status vernal pool crustaceans during construction:

BIO-10: Direct impacts to vernal pools will be avoided by installing protective fencing between the vernal pool and the TCZ to prevent accidental disturbance and to protect water quality during construction. The barrier fencing will remain in place for the duration of construction activity. Reference to this requirement shall be included in the construction specifications.

Compensatory Mitigation

In addition to the aforementioned avoidance and minimization measures, the following conservation measure is proposed:

CM-4: To compensate for indirect impacts to 0.025 acre of vernal pool habitat, the City shall replace the affected acreage at a 2:1 ratio (i.e., 2 acres for every 1 acre of impact), or another approved ratio as determined by the USFWS. Impacts shall be offset through the dedication of 0.05 vernal pool preservation credits from a USFWS-approved conservation bank.

The above mitigation ratios were derived from the USFWS (1996a) Programmatic Formal Endangered Species Act Consultation on Issuance of 404 Permits for Projects with Relatively Small Effects on Listed Vernal Pool Crustaceans within the Jurisdiction of the Sacramento Field Office, California.

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Figure 11
Impacts to Suitable
Vernal Pool Crustacean Habitat

Cumulative Impacts

Implementation of the mitigation strategy outlined above will ensure that the loss of vernal pool crustacean habitat is fully compensated for; therefore, the project will not substantially contribute to cumulative impacts to this species.

DISCUSSION OF "WESTERN POND TURTLE"

Survey Results

Western pond turtle is a California species of special concern. It prefers slow-water aquatic habitat with terrestrial and aquatic basking sites, and requires upland egg-laying sites with a high-clay or silt fraction in the vicinity of the aquatic site. The aquatic habitats of the Camden Lake and Laguna Creek within the BSA provides suitable habitat for this species.

Project Impacts

The proposed project will result in 0.015 acre of permanent impact and 0.057 acre of temporary impact to fresh emergent wetland habitat within Laguna Creek, as well as 0.049 acre of permanent and 0.144 acre of temporary impact to open water habitat associated with Camden Lake. In addition, the proposed project will result in 0.081 acre of permanent impact and 0.194 acre of temporary impact to annual grasslands adjacent to Laguna Creek and Camden Lake that may provide suitable over-wintering and nesting habitat for the species.

Indirect impacts occur for a number of reasons, though primarily through increased human/wildlife interactions, habitat fragmentation, encroachment by exotic weeds, and area-wide changes in surface water flows due to development of previously undeveloped areas. The proposed project will be traveled with pedestrians, increasing the amount and severity of indirect impacts to this species and its habitat in the BSA.

Avoidance and Minimization Efforts

To avoid and minimize impacts to potential western pond turtle the following measure is recommended, as well as **BIO-1**, **BIO-9** (WEAP to include discussion regarding western pond turtle), and **BIO-12** (below).

BIO-11: A preconstruction survey for western pond turtle shall be conducted within 24 hours of the onset of construction activities adjacent to Laguna Creek, and Camden Lake. The survey area shall include a 100-foot buffer of the area to be affected. If juvenile or adult turtles are found within the survey area, the individuals should be moved at least 500 feet downstream in suitable habitat. If a turtle nest is found within the survey area, construction activities should not take place within 100 feet of the nest until the turtles have hatched, or the eggs have been moved to an appropriate location.

Compensatory Mitigation

The avoidance and minimization measures outlined above are sufficient to compensate for potential impacts to western pond turtle. In addition, the re-vegetation of temporary construction areas, per **BIO-6**, would minimize adverse effects to this species' habitat.

Cumulative Impacts

It is not anticipated that construction of the proposed project will substantially contribute to cumulative impacts to the western pond turtle. If this species is present and the avoidance and minimization measures listed above are completed, adverse effects to individuals and their habitat will be limited and will therefore not result in any cumulative impacts.

DISCUSSION OF "GIANT GARTER SNAKE"

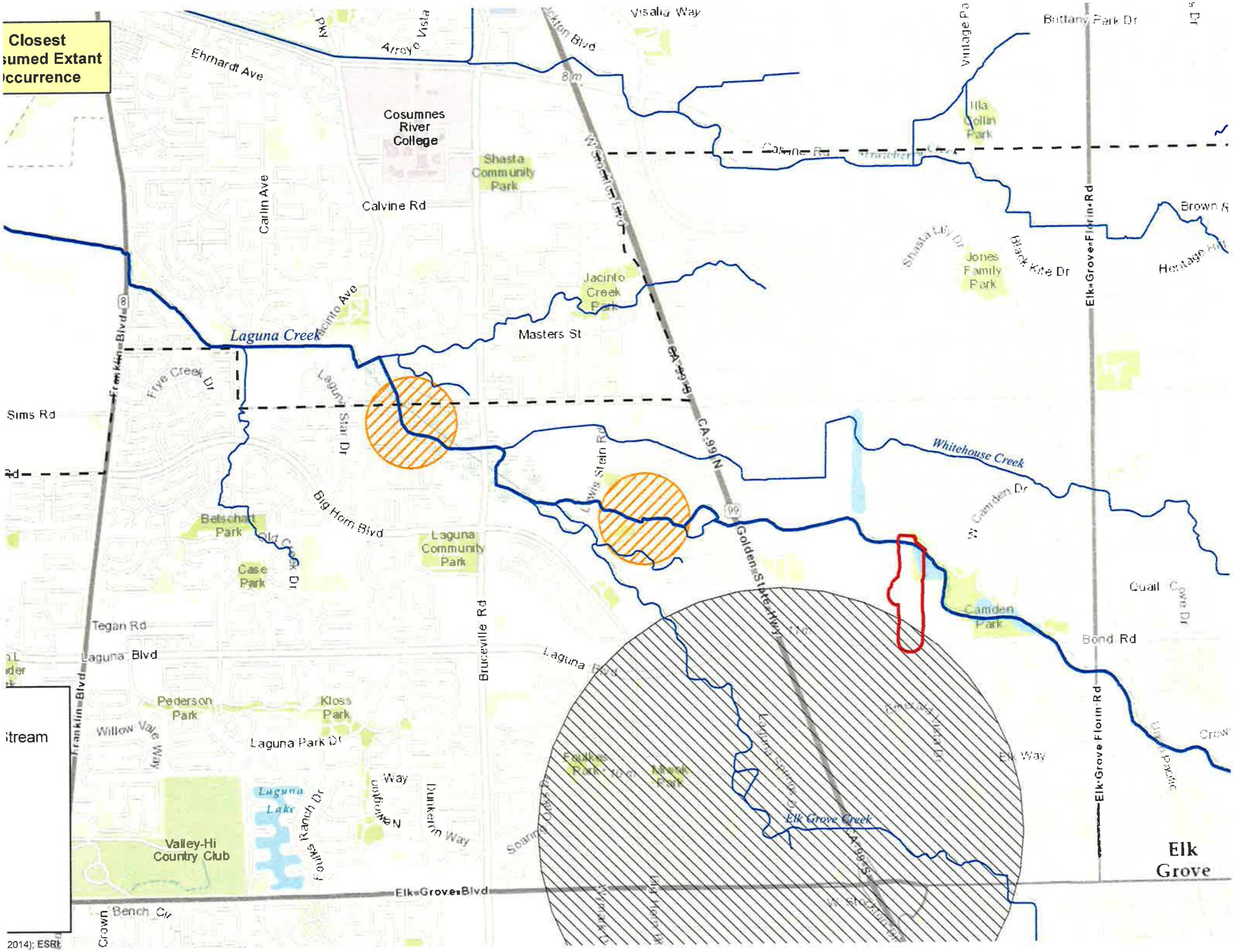
Survey Results

Giant garter snake is federally and state-listed as threatened. The giant garter snake inhabits marshes, sloughs, ponds, small lakes, low gradient streams, other waterways, agricultural wetlands, such as irrigation and drainage canals and rice fields, and the adjacent uplands (USFWS 1999b). Essential habitat components consist of:

- Adequate water during the snake's active period (i.e., early spring through mid-fall) to provide a prey base and cover;
- Emergent, herbaceous wetland vegetation, such as cattails and bulrushes, for escape cover and foraging habitat;
- Upland habitat for basking, cover, and retreat sites; and
- Higher elevation uplands for cover and refuge from floodwaters.

Potentially suitable aquatic habitat for giant garter snake is present within Laguna Creek and Camden Lake. All undeveloped communities within 200 feet of aquatic habitat are considered potentially suitable upland habitat (USFWS 1999b). The closest occurrence (#169) of giant garter snake is ±3.4 miles southeast of the BSA (CDFW 2014e) and east of State Route 99 (SR 99). This occurrence is located near Elk Grove Creek, which is separated from the Laguna Creek and Camden Lake by extensive development. No aquatic features containing the essential habitat components connect Laguna Creek and Elk Grove Creek, east of SR 99.

The closest extant occurrence (#198) on Laguna Creek is located approximately 5.4 river miles west of the BSA, near the Sacramento County Wastewater Treatment Plant (**Figure 12**). There are two possibly extirpated occurrences (#14 and #84) on Laguna Creek just west of the BSA and SR 99. Due to the distance between the extant occurrence on Laguna Creek to the west and the presence of potential dispersal barriers (e.g., roads) between this occurrence and the BSA, as well as the lack of suitable dispersal habitat between the BSA and the extant occurrence near Elk Grove Creek, the presence of this species within the BSA is considered unlikely.



Closest
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Cosumnes River College
Shasta Community Park
Calvine Rd
Carlin Ave
Ehrhardt Ave
Arroyo Vista
Visalia Way
Laguna Creek
Jacinto Creek Park
Masters St
Sims Rd
Frye Creek Dr
Laguna Star Dr
Big Horn Blvd
Betschart Park
Case Park
Laguna Community Park
Lewis Stein Rd
Whitehouse Creek
W Camden Dr
Camden Park
Bond Rd
Quail Cove Dr
Elk Grove Florin Rd
Brittany Park Dr
Black Kite Dr
Jones Family Park
Shasta Lily Dr
Ilia Collin Park
Vintage Pa
Brown R
Heritage Hil
Golden State Hwy
CA-99 N
CA-99 S
Bruceville Rd
Tegan Rd
Laguna Blvd
Pederson Park
Kloss Park
Willow Vale Way
Laguna Park Dr
Laguna Lake
Foulks Ranch Dr
Valley-Hi Country Club
Dunkerrin Way
Elk Grove Blvd
Bench Cir
Crown
Franklin Blvd
Elk Grove Creek
Laguna Springs Dr
Elk Way
Elk Grove
Stream
2014); ESRI

Project Impacts

The USFWS categorizes project impacts to the giant garter snake in three levels: 1, 2, and 3. It is anticipated that the proposed project would have Level 1 and Level 3 impacts to giant garter snake habitat. It is not anticipated that the project would have Level 2 impacts.

- Level 1 actions are minimal environmental effects. Examples of Level 1 actions include repair, rehabilitation, or replacement of existing structures where implementation of the project, including restoration of the temporarily disturbed areas, required one season to complete. The work will not result in any permanent loss of snake habitat, and the temporary disturbance area will not exceed 20 acres of snake habitat.

- Level 2 actions include activities such as repair, rehabilitation, or replacement of previously authorized structures where implementation of the project, including restoration of the temporarily disturbed area, requires two seasons to complete. The work will not result in any permanent loss of snake habitat and will not exceed 20 acres of temporary disturbance over two seasons.

- Level 3 actions include road crossings and bridge replacements or improvements that will result in the permanent loss of snake habitat that will not exceed 3 acres of snake aquatic and upland habitats, including no more than 1 acre of aquatic snake habitat, and temporary disturbances that will not exceed 20 acres of snake aquatic and upland habitats. Project with temporary disturbance to snake habitat that require more than two seasons to complete are also categorized as Level 3.

The proposed project will result in permanent and temporary impacts to suitable aquatic and upland habitat within the BSA (**Figure 13**). **Table 3** summarizes the anticipated impacts to giant garter snake habitat.

Table 3: Impacts to Giant Garter Snake Habitat

Habitat Type	Acres Permanently Impacted (Level 3)	Acres Temporarily Impacted (Level 1)
Aquatic	0.149	0.340
Upland	0.615	1.125
Total	0.764	1.465

Avoidance and Minimization Efforts

To avoid and minimize impacts to giant garter snake, the following measures are recommended, as well as **BIO-1** and **BIO-9** (WEAP to include discussion regarding giant garter snake).

BIO-12: The City will implement all of the minimization and avoidance measures found in Appendix C of the Programmatic Biological Opinion on Effects of Small Highway Projects on the Threatened Giant Garter Snake in Butte, Colusa, Glenn, Sacramento, San Joaquin, Solano, Sutter, Yolo, and Yuba Counties, California (USFWS File #1-1-03-F-0154), except the restriction on construction only occurring between May 1 and October 1. See **BIO-13**.

BIO-13: During all phases of construction, snake exclusionary fencing will be installed between aquatic habitats and the TCZ. During the snake's active period (May 1–October 1), the exclusionary fencing will be located close to the OHWM of Laguna Creek and Camden Lake to provide the construction crew room to maneuver heavy construction equipment within the TCZ. On or before October 1 (the end of the snake's active season), the exclusionary fencing will be moved up to the edge of the TCZ to minimize the potential for snakes to enter the construction area. All activities during the inactive season will only occur within the project footprint and the TCZ. The exclusionary fencing shall be maintained by the construction contractor during all phases of construction. Any breaches in the fencing shall be fixed within a 24-hour period.

BIO-14: If a snake is encountered within the project work area, the snake will be allowed to move away under its own volition.

BIO-15: The City or contractor will prohibit the use of plastic, monofilament, jute, or similar erosion control matting that could entangle snakes at the project site.

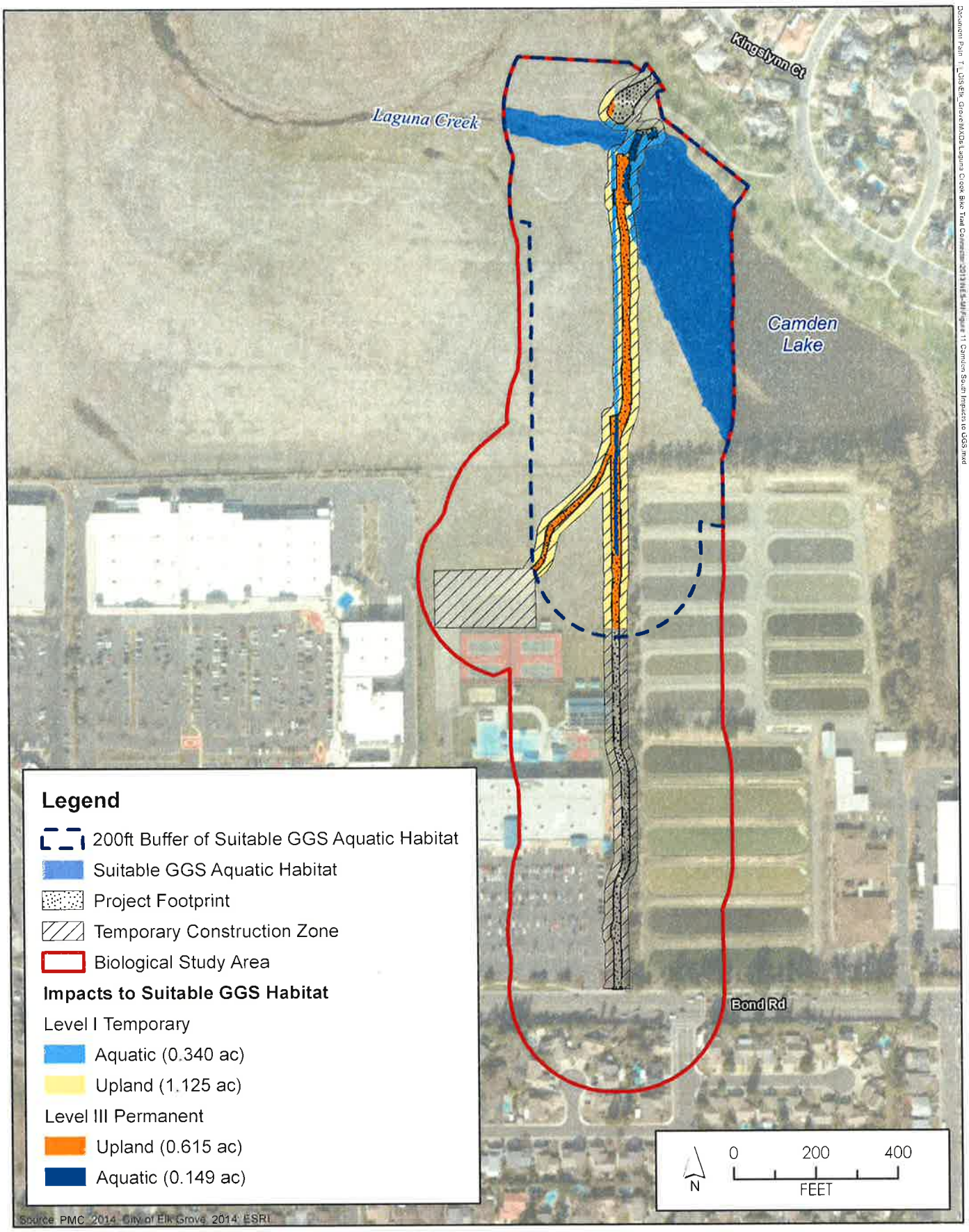
BIO-16: A survey shall be conducted for the giant garter snake within the project area 24 hours prior to the onset of construction and any time activities are halted for more than two weeks thereafter.

Compensatory Mitigation

In addition to the aforementioned avoidance and minimization, the following conservation measures are proposed:

CM-5: After completion of construction activities, all temporary fill and construction debris shall be removed and 0.340 acre of aquatic and 1.125 acres of upland habitat shall be restored to pre-project conditions, in accordance with Appendix C of the Programmatic Biological Opinion on Effects of Small Highway Projects on the Threatened Giant Garter Snake in Butte, Colusa, Glenn, Sacramento, San Joaquin, Solano, Sutter, Yolo, and Yuba Counties, California (USFWS File #1-1-03-F-0154).

CM-6: For every acre of aquatic and upland giant garter snake habitat permanently affected by the proposed project, the City shall replace the affected acreage at a 3:1 ratio (i.e., 3 acres for every 1 acre of impact), or another approved ratio as determined by the USFWS. Impacts shall be offset through the dedication of 2.292 mitigation credits within a USFWS-approved giant garter snake mitigation bank.



City of Elk Grove
Development Services

Figure 13
Impacts to Giant Garter Snake Habitat

Cumulative Impacts

If mitigation measures required by the USFWS are followed, the loss of giant garter snake habitat will be fully compensated, and the project will not substantially contribute to cumulative impacts to giant garter snake.

DISCUSSION OF "RAPTORS AND MIGRATORY BIRDS"

Survey Results

Various migratory birds and raptor species have the potential to inhabit the project vicinity. Tricolored blackbird, grasshopper sparrow, western burrowing owl, Swainson's hawk, northern harrier, white-tailed kite, least bittern, song sparrow, and yellow-headed blackbird are afforded additional protection from state laws. Swainson's hawk is listed in California as a threatened species under CESA. The tricolored blackbird, grasshopper sparrow, western burrowing owl, northern harrier, least bittern, song sparrow, and yellow-headed blackbird are California species of special concern. The white-tailed kite is a California fully protected species. Some raptor and migratory bird species, such as red-tailed hawk, American kestrel, and oak titmouse, are not considered special-status species because they are not rare or protected under the ESA or CESA; however, the nests of all raptor species are protected under the MBTA and Section 3503.5 of the FGC. The nests of all migratory birds are protected under the MBTA, which makes it illegal to destroy any active migratory bird nest. The trees, shrubs, and grasslands found in the BSA and within the vicinity provide potential nesting habitat for raptors and migratory birds that occur in the region. In addition, the annual grasslands located within and adjacent to the BSA represent suitable foraging habitat for the Swainson's hawk and other raptor species, as well as suitable nesting habitat for western burrowing owl.

Project Impacts

If nesting migratory birds and/or raptors are present during project construction, the proposed project may cause direct mortality through impacts to habitats that contain active nests. Excessive noise, disturbance, and vibrations can cause nesting raptors and birds to abandon their nests. The loss of active nests or direct mortality is prohibited by the MBTA and FGC Section 3503.5. The proposed project could result in indirect impacts to migratory birds and raptors through habitat degradation and removal of trees/shrubs suitable for nesting, as well as from increased human presence.

In addition, the annual grassland habitats located in the southern portion of the BSA and adjacent lands could provide suitable foraging habitat for Swainson's hawk (**Figure 14**), as well as suitable nesting habitat for western burrowing owl. The proposed project would result in 1.136 acre of temporary impact and 0.616 acre of permanent impact to annual grassland habitats suitable for Swainson's hawk foraging.

Avoidance and Minimization Efforts

To avoid and minimize impacts to potential migratory birds and raptor species, the following measures are recommended, as well as **BIO-1** and **BIO-9** (WEAP to include discussion regarding migratory birds and raptors).

BIO-17: If clearing and/or construction activities would occur during the raptor nesting season (January 15–August 15), preconstruction surveys to identify active nests shall be conducted by a qualified biologist within 14 days of construction initiation. Surveys must be performed by a qualified biologist for the purposes of determining presence/absence of active nest sites within the proposed impact area, including construction access routes and a 250-foot buffer (if feasible). If no active nests are found, no further mitigation is required. Surveys shall be repeated if construction activities are delayed or postponed for more than 30 days.

BIO-18: If an active nest (excluding western burrowing owl) is located during pre-construction surveys, construction activities shall be restricted as necessary to avoid disturbance of the nest until it is abandoned or a qualified biologist deems disturbance potential to be minimal. Restrictions may include establishment of exclusion zones (no ingress of personnel or equipment at a minimum radius of 30 meters (100 feet) around an active raptor nest and a 15-meter (50-foot) radius around an active migratory bird nest) or alteration of the construction schedule. Activities permitted within exclusion zones and the size may be adjusted through consultation with the CDFW and/or the City.

BIO-19: Trees containing active migratory bird and/or raptor (excluding Swainson's hawk) nests that must be removed as a result of project implementation shall be removed during the non-breeding season (September 1–January 1). Swainson's hawks are state and federally listed as threatened species; therefore, impacts to Swainson's hawk nest trees require regulatory authorization from the CDFW prior to removal.

BIO-20: If no burrowing owls are detected, no further mitigation is required. If active burrowing owls are detected, the City shall implement the avoidance, minimization, and mitigation methodologies outlined in CDFW's (2012) Staff Report on Burrowing Owl Mitigation prior to initiating project-related activities that may impact burrowing owls.

Compensatory Mitigation

CM-5: The City shall mitigate for the permanent loss of 0.616 acre Swainson's hawk foraging habitat at a 1:1 ratio. Mitigation can be accomplished through the City of Elk Grove Swainson's Hawk Impact Mitigation Fees Ordinance or other method acceptable to the CDFW.

No additional mitigation is proposed, as implementation of the above referenced avoidance and minimization measures is sufficient to compensate for potential impacts to migratory birds and raptors.

Cumulative Impacts

Although potential foraging habitat could be directly impacted, annual grassland (foraging habitat) will be replaced to ensure no net loss. Therefore, it is not anticipated that construction of the proposed project will substantially contribute to cumulative impacts to migratory birds and raptors.

City of Elk Grove
Development Services

Figure 14
Impacts to Swainson's Hawk Habitat

DISCUSSION OF "SPECIAL-STATUS BAT SPECIES"

Survey Results

Bats, including western red bat, are known to occur in the vicinity of the BSA. These species are California species of special concern due to recent population declines. Habitat for bat species consists of foraging habitat, night-roosting cover, maternity roost sites, and winter hibernacula. These bat species may forage in a variety of habitats. In general, the CDFW is most concerned about the loss of maternity roosting sites. Suitable roosting sites within these habitats include caves, rock crevices, cliffs, buildings, tree bark, and snags. Potential maternity and night-roosting sites occur in snags, under bark, and in human structures (i.e., bridges) within the BSA.

Precautions must be taken to avoid the deliberate killing or injury of bats. The most common and effective method of avoiding these offenses is to carry out the work at an appropriate time of the year. The great majority of roosts are used only seasonally, so there is usually some period when bats are not present. Although there are differences between species, maternity sites are generally occupied between May and September and hibernation sites between October and March, depending on the weather. An adequate survey and good understanding of the seasonal activity patterns of the particular species involved will help in determining the optimum time to carry out the proposed work. The recommended times shown in **Table 4** should be modified in light of site-specific species information.

Table 4: Annual Bat Activity

Bat Usage of Site	Optimum Period for Carrying Out Work (Some Variation Between Species)
Maternity	October 1 – May 1
Summer (not a proven maternity site)	September 1 – May 1
Hibernation	May 1 – October 1
Mating/swarming	November 1 – August 1

Project Impacts

If maternity roost sites are located within the BSA during construction activities, the proposed project has the potential to directly and indirectly impact special-status bat species. Bats are at their most vulnerable in buildings or other roost sites during the summer, when large numbers may be gathered together and young bats, unable to fly, may be present. Removal of maternity roost sites may cause direct mortality of numerous bats. Noise and dust from construction could indirectly impact bat species during construction.

Avoidance and Minimization Efforts

To avoid and minimize impacts to potential special-status bat species the following measures are recommended, as well as **BIO-1** and **BIO-9** (WEAP to include discussion regarding special-status bat species).

BIO-21: Prior to the removal of any oak trees or buildings, a bat survey shall be performed by a qualified biologist between March 1 and July 31. If bat roosts are identified, the City shall require that the bats be safely flushed from the

sites where roosting habitat is planned to be removed prior to roosting season (typically May to August) and prior to the onset of construction activities. If maternity roosts are identified during the maternity roosting season (typically May to September) they must remain undisturbed until a qualified biologist has determined the young bats are no longer roosting. If roosting is found to occur onsite, replacement roost habitat (e.g., bat boxes) shall be provided to offset roosting sites removed. If no bat roosts are detected, then no further action is required if the trees and buildings are removed prior to the next breeding season. If removal is delayed, then an additional survey shall be conducted 30 days prior to removal to ensure that a new colony has not established itself.

BIO-22: If a female or maternity colony of bats are found on the project site, and the project can be constructed without the elimination or disturbance of the roosting colony (e.g., if the colony roosts in a large oak tree not planned for removal), a qualified biologist shall determine what buffer zones shall be employed to ensure the continued success of the colony. Such buffer zones may include a construction-free barrier of 200 feet from the roost and/or the timing of the construction activities outside of the maternity roost season (after July 31 and before March 1).

BIO-23: If an active nursery roost is documented onsite and the project cannot be conducted outside of the maternity roosting season, bats shall be excluded from the site after July 31 and before March 1 to prevent the formation of maternity colonies. Non-breeding bats shall be safely evicted, under the direction of a bat specialist.

Compensatory Mitigation

The avoidance and minimization measures outlined above are sufficient to compensate for potential impacts to special-status bats.

Cumulative Impacts

The proposed project is not anticipated to cause cumulative effects to special-status bat species since habitat loss is minimal and the implementation of mitigation measures will ensure that this species is avoided during construction.

Chapter 5 – Conclusions and Regulatory Determinations

Federal Endangered Species Act Consultation Summary

The US Congress passed the ESA in 1973 to protect those species that are endangered or threatened with extinction. The ESA is intended to operate in conjunction with NEPA to help protect the ecosystems upon which endangered and threatened species depend.

The ESA prohibits the take of endangered or threatened wildlife species. Take is defined to include harassing, harming, pursuing, hunting, shooting, wounding, killing, trapping, capturing, or collecting wildlife species or any attempt to engage in such conduct [ESA Section 3(3)(19)]. Harm is further defined to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns (50 CFR Section 222). Harass is defined as actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavior patterns (50 CFR Section 222). Actions that result in take can result in civil or criminal penalties.

The ESA directs all federal agencies to participate in endangered species conservation. Specifically, Section 7 of the ESA charges federal agencies to aid in the conservation of listed species [Section 7(a)(1)] and requires federal agencies to ensure that the actions they fund, authorize, permit, or otherwise carry out are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats [Section 7(a)(2)].

In the context of the proposed project, ESA consultation with the USFWS would be initiated if development could result in take of a threatened or endangered species or adversely modify critical habitat of such a species. Consultation with the USFWS with regard to potential impacts to giant garter snake is anticipated. A Biological Assessment is being prepared to evaluate impacts to this species.

California Endangered Species Act Consultation Summary

The State of California enacted CESA in 1984. CESA is similar to the federal ESA but pertains to state-listed endangered and threatened species. CESA requires state agencies to consult with the CDFW when preparing CEQA documents. The purpose is to ensure that the state lead agency actions do not jeopardize the continued existence of a listed species or result in the destruction or adverse modification of habitat essential to the continued existence of those species, if there are reasonable and prudent alternatives available (FGC Section 2080). CESA directs agencies to consult with the CDFW on projects or actions that could affect listed species, directs the CDFW to determine whether jeopardy would occur, and allows the CDFW to identify "reasonable and prudent alternatives" to the project consistent with conserving the species. CESA allows the CDFW to authorize exceptions to the state's prohibition against take of a listed species if the take of a listed species is incidental to carrying out an otherwise lawful project that has been approved under CEQA (FGC Section 2081). Consultation with the CDFW may be required in regard to giant garter snake, Swainson's hawk, western burrowing owl, and special-status bat species. Additional consultation with the CDFW will be necessary if active migratory bird/raptor nests are identified prior to construction as having the potential to be impacted by construction activities.

Wetlands and Other Waters Coordination Summary

FEDERALLY JURISDICTIONAL WATERS

The USACE regulates discharge of dredged or fill material into WoUS under Section 404 of the CWA. "Discharges of fill material" is defined as the addition of fill material into WoUS, including but not limited to the following: placement of fill that is necessary for the construction of any structure, or impoundment requiring rock, sand, dirt, or other material for its construction; site-development fills for recreational, industrial, commercial, residential, and other uses; causeways or road fills; or fill for intake and outfall pipes and subaqueous utility lines [33 CFR §328.2(f)]. In addition, Section 401 of the CWA (33 USC 1341) requires any applicant for a federal license or permit to conduct any activity that may result in a discharge of a pollutant into WoUS to obtain a certification from the RWQCB that the discharge will comply with the applicable effluent limitations and water quality standards.

WoUS include a range of wet environments such as lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, and wet meadows. Boundaries between jurisdictional waters and uplands are determined in a variety of ways depending on which type of waters is present. Methods for delineating wetlands and non-tidal waters are described below.

Wetlands are defined as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" [33 CFR §328.3(b)]. Presently, to be a wetland, a site must exhibit three wetland criteria: hydrophytic vegetation, hydric soils, and wetland hydrology existing under the "normal circumstances" for the site. The lateral extent of non-tidal waters is determined by delineating the OHWM [33 CFR §328.4(c)(1)]. The OHWM is defined by the USACE as "that line on shore established by the fluctuations of water and indicated by physical character of the soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas" [33 CFR §328.3(e)].

Prior to construction of the proposed project the City will obtain CWA Section 401 and 404 permits from the RWQCB and USACE, respectively. The CWA permit that would be required is a nationwide permit 14 (linear transportation projects).

STATE JURISDICTIONAL WATERS

The CDFW is a trustee agency that has jurisdiction under Section 1600 et seq. of the FGC. Under Section 1602, a party must notify the CDFW if a proposed project will "substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake designated by the department, or use any material from the streambeds, except when the department has been notified pursuant to Section 1602." If an existing fish or wildlife resource may be substantially adversely affected by the activity, the CDFW may propose reasonable measures that will allow protection of those resources. If these measures are agreeable to the party, they may enter into an agreement with the CDFW identifying the approved activities and associated mitigation measures. Prior to construction of the proposed project, the City shall obtain a Streambed Alteration Agreement from the CDFW.

Invasive Species

Executive Order 13112 directs all federal agencies to refrain from authorizing, funding, or carrying out actions or projects that may spread invasive species. The order further directs federal agencies to prevent the introduction of invasive species, control and monitor existing invasive species populations, restore native species to invaded ecosystems, research and develop prevention and control methods for invasive species, and promote public education on invasive species. The proposed action will comply with Executive Order 13112 as necessary.

Chapter 6 – References

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Appendix A – Database Search Results

U.S. Fish & Wildlife Service

Sacramento Fish & Wildlife Office

Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Counties and/or U.S.G.S. 7 1/2 Minute Quads you requested

Document Number: 140625123349

Current as of: June 25, 2014

Quad Lists

Listed Species

Invertebrates

Branchinecta conservatio
- Conservancy fairy shrimp (E)

Branchinecta lynchi
- Critical habitat, vernal pool fairy shrimp (X)
- vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus
- Critical habitat, valley elderberry longhorn beetle (X)
- valley elderberry longhorn beetle (T)

Elaphrus viridis
- delta green ground beetle (T)

Lepidurus packardi
- Critical habitat, vernal pool tadpole shrimp (X)
- vernal pool tadpole shrimp (E)

Fish

Acipenser medirostris
- green sturgeon (T) (NMFS)

Hypomesus transpacificus
- Critical habitat, delta smelt (X)
- delta smelt (T)

Oncorhynchus mykiss
- Central Valley steelhead (T) (NMFS)
- Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha
- Central Valley spring-run chinook salmon (T) (NMFS)
- Critical Habitat, Central Valley spring-run chinook (X) (NMFS)
- Critical habitat, winter-run chinook salmon (X) (NMFS)
- winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense
- California tiger salamander, central population (T)

Rana draytonii
- California red-legged frog (T)

Reptiles

Thamnophis gigas
- giant garter snake (T)

Birds

Vireo bellii pusillus
- Least Bell's vireo (E)

Plants

Calystegia stebbinsii
Stebbins's morning-glory (E)

Castilleja campestris ssp. succulenta
succulent (=fleshy) owl's-clover (T)

Ceanothus roderickii
Pine Hill ceanothus (E)

Fremontodendron californicum ssp. decumbens
Pine Hill flannelbush (E)

Galium californicum ssp. sierrae
El Dorado bedstraw (E)

Orcuttia tenuis
Critical habitat, slender Orcutt grass (X)
slender Orcutt grass (T)

Orcuttia viscida
Critical habitat, Sacramento Orcutt grass (X)
Sacramento Orcutt grass (E)

Senecio layneae
Layne's butterweed (=ragwort) (T)

Quads Containing Listed, Proposed or Candidate Species:

ELK GROVE (496A)
FLORIN (496B)
BRUCEVILLE (496C)
GALT (496D)
COURTLAND (497D)
CLARKSVILLE (511A)
SACRAMENTO EAST (512C)
CARMICHAEL (512D)
SACRAMENTO WEST (513D)

County Lists

Sacramento County

Listed Species

Invertebrates

Apodemia mormo langei
Lange's metalmark butterfly (E)

Branchinecta conservatio
Conservancy fairy shrimp (E)

Branchinecta lynchi
Critical habitat, vernal pool fairy shrimp (X)
vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus
Critical habitat, valley elderberry longhorn beetle (X)
valley elderberry longhorn beetle (T)

Elaphrus viridis
delta green ground beetle (T)

Lepidurus packardi

Critical habitat, vernal pool tadpole shrimp (X)
vernal pool tadpole shrimp (E)

Fish

Acipenser medirostris
green sturgeon (T) (NMFS)

Hypomesus transpacificus
Critical habitat, delta smelt (X)
delta smelt (T)

Oncorhynchus mykiss
Central Valley steelhead (T) (NMFS)
Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha
Central Valley spring-run chinook salmon (T) (NMFS)
Critical Habitat, Central Valley spring-run chinook (X) (NMFS)
Critical habitat, winter-run chinook salmon (X) (NMFS)
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense
California tiger salamander, central population (T)
Critical habitat, CA tiger salamander, central population (X)

Rana draytonii
California red-legged frog (T)

Reptiles

Thamnophis gigas
giant garter snake (T)

Birds

Charadrius alexandrinus nivosus
western snowy plover (T)

Rallus longirostris obsoletus
California clapper rail (E)

Sternula antillarum (=Sterna, =albifrons) browni
California least tern (E)

Vireo bellii pusillus
Least Bell's vireo (E)

Mammals

Reithrodontomys raviventris
salt marsh harvest mouse (E)

Sylvilagus bachmani riparius
riparian brush rabbit (E)

Vulpes macrotis mutica
San Joaquin kit fox (E)

Plants

Arctostaphylos myrtifolia
Ione manzanita (T)

Calystegia stebbinsii
Stebbins's morning-glory (E)

Castilleja campestris ssp. succulenta
Critical habitat, succulent (=fleshy) owl's-clover (X)
succulent (=fleshy) owl's-clover (T)

Ceanothus roderickii
Pine Hill ceanothus (E)

Cordylanthus mollis ssp. mollis
soft bird's-beak (E)

Cordylanthus palmatus
palmate-bracted bird's-beak (E)

Eriogonum apricum var. apricum
Ione buckwheat (E)

Eriogonum apricum var. prostratum
Irish Hill buckwheat (E)

Erysimum capitatum ssp. angustatum
Contra Costa wallflower (E)
Critical Habitat, Contra Costa wallflower (X)

Fremontodendron californicum ssp. decumbens
Pine Hill flannelbush (E)

Galium californicum ssp. sierrae
El Dorado bedstraw (E)

Lasthenia conjugens
Contra Costa goldfields (E)

Neostapfia colusana
Colusa grass (T)

Oenothera deltoides ssp. howellii
Antioch Dunes evening-primrose (E)
Critical habitat, Antioch Dunes evening-primrose (X)

Orcuttia tenuis
Critical habitat, slender Orcutt grass (X)

slender Orcutt grass (T)

Orcuttia viscida
Critical habitat, Sacramento Orcutt grass (X)
Sacramento Orcutt grass (E)

Senecio layneae
Layne's butterweed (=ragwort) (T)

Sidalcea keckii
Keck's checker-mallow (=checkerbloom) (E)

Candidate Species

Birds

Coccyzus americanus occidentalis
Western yellow-billed cuckoo (C)

Key:

(E) *Endangered* - Listed as being in danger of extinction.
(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.
(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.
(NMFS) Species under the Jurisdiction of the National Oceanic & Atmospheric Administration Fisheries Service. Consult with them directly about these species.
Critical Habitat - Area essential to the conservation of a species.
(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.
(C) *Candidate* - Candidate to become a proposed species.
(V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
(X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online Inventory of Rare and Endangered Plants.

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our Protocol and Recovery Permits pages.

For plant surveys, we recommend using the Guidelines for Conducting and Reporting Botanical Inventories. The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

> Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal consultation with the Service.

  During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

  Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our Map Room page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. More info

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6520.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be September 23, 2014.

CNDDB 9-Quad Species List 328 records.

Element Type	Scientific Name	Common Name	Element Code	Federal Status	State Status	CDFW Status	CA Rare Plant Rank	Quad Code	Quad Name	Data Status	Taxonomic Sort
Animals - Amphibians	Ambystoma californiense	California tiger salamander	AAAAA01180	Threatened	Threatened	SSC	-	3812133	Galt	Mapped and Unprocessed	Animals - Amphibians - Ambystomatidae - Ambystoma californiense
Animals - Amphibians	Spea hammondii	western spadefoot	AAABF02020	None	None	SSC	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Amphibians - Scaphiopodidae - Spea hammondii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812144	Florin	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812154	Sacramento East	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812143	Elk Grove	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP, WL	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Aquila chrysaetos
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3812153	Carmichael	Mapped	Animals - Birds - Accipitridae - Buteo regalis
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3812144	Florin	Mapped	Animals - Birds - Accipitridae - Buteo regalis
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812143	Elk Grove	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812135	Courtland	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812133	Galt	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812134	Bruceville	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812153	Carmichael	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812154	Sacramento East	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812144	Florin	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812145	Clarksburg	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812135	Courtland	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812135	Courtland	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus

Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812143	Elk Grove	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812133	Galt	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812134	Bruceville	Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3812153	Carmichael	Unprocessed	Animals - Birds - Accipitridae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3812134	Bruceville	Unprocessed	Animals - Birds - Accipitridae - Pandion haliaetus
Animals - Birds	Chaetura vauxi	Vaux's swift	ABNUA03020	None	None	SSC	-	3812153	Carmichael	Unprocessed	Animals - Birds - Apodidae - Chaetura vauxi
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812133	Galt	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812133	Galt	Mapped	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812154	Sacramento East	Mapped	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Botaurus lentiginosus	American bittern	ABNGA01020	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Ardeidae - Botaurus lentiginosus

Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
Animals - Birds	Ixobrychus exilis	least bittern	ABNGA02010	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Birds - Ardeidae - Ixobrychus exilis
Animals - Birds	Ixobrychus exilis	least bittern	ABNGA02010	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Ardeidae - Ixobrychus exilis
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3812133	Galt	Mapped	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Cardinalis cardinalis	northern cardinal	ABPBX60010	None	None	WL	-	3812133	Galt	Unprocessed	Animals - Birds - Cardinalidae - Cardinalis cardinalis
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Pica nuttalli	yellow-billed magpie	ABPAV09020	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Corvidae - Pica nuttalli
Animals - Birds	Coccyzus americanus occidentalis	western yellow-billed cuckoo	ABNRB02022	Proposed Threatened	Endangered	-	-	3812145	Clarksburg	Mapped	Animals - Birds - Cuculidae - Coccyzus americanus occidentalis
Animals - Birds	Coccyzus americanus occidentalis	western yellow-billed cuckoo	ABNRB02022	Proposed Threatened	Endangered	-	-	3812134	Bruceville	Unprocessed	Animals - Birds - Cuculidae - Coccyzus americanus occidentalis
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812134	Bruceville	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Chondestes grammacus	lark sparrow	ABPBX96010	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Emberizidae - Chondestes grammacus

Animals - Birds	Chondestes grammacus	lark sparrow	ABPBX96010	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Emberizidae - Chondestes grammacus
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812155	Sacramento West	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812154	Sacramento East	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812145	Clarksburg	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812144	Florin	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812134	Bruceville	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812135	Courtland	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Spizella breweri	Brewer's sparrow	ABPBX94040	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Emberizidae - Spizella breweri
Animals - Birds	Spizella breweri	Brewer's sparrow	ABPBX94040	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Emberizidae - Spizella breweri
Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	3812144	Florin	Mapped	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Falconidae - Falco mexicanus
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Falconidae - Falco mexicanus
Animals - Birds	Grus canadensis canadensis	lesser sandhill crane	ABNMK01011	None	None	SSC	-	3812134	Bruceville	Unprocessed	Animals - Birds - Gruidae - Grus canadensis canadensis
Animals - Birds	Grus canadensis tabida	greater sandhill crane	ABNMK01014	None	Threatened	FP	-	3812134	Bruceville	Unprocessed	Animals - Birds - Gruidae - Grus canadensis tabida
Animals - Birds	Grus canadensis tabida	greater sandhill crane	ABNMK01014	None	Threatened	FP	-	3812144	Florin	Unprocessed	Animals - Birds - Gruidae - Grus canadensis tabida
Animals - Birds	Progne subis	purple martin	ABPAU01010	None	None	SSC	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Progne subis
Animals - Birds	Progne subis	purple martin	ABPAU01010	None	None	SSC	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Progne subis
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812154	Sacramento East	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812153	Carmichael	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812153	Carmichael	Mapped	Animals - Birds - Icteridae - Agelaius tricolor

Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812143	Elk Grove	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812135	Courtland	Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812134	Bruceville	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	None	SSC	-	3812133	Galt	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Xanthocephalus xanthocephalus	yellow-headed blackbird	ABPBXB3010	None	None	SSC	-	3812144	Florin	Mapped	Animals - Birds - Icteridae - Xanthocephalus xanthocephalus
Animals - Birds	Xanthocephalus xanthocephalus	yellow-headed blackbird	ABPBXB3010	None	None	SSC	-	3812145	Clarksburg	Mapped	Animals - Birds - Icteridae - Xanthocephalus xanthocephalus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3812134	Bruceville	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Sternula antillarum browni	California least tern	ABNNM08103	Endangered	Endangered	FP	-	3812144	Florin	Unprocessed	Animals - Birds - Laridae - Sternula antillarum browni
Animals - Birds	Baeolophus inornatus	oak titmouse	ABPAW01100	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Paridae - Baeolophus inornatus
Animals - Birds	Dendroica occidentalis	hermit warbler	ABPBX03090	None	None	-	-	3812133	Galt	Unprocessed	Animals - Birds - Parulidae - Dendroica occidentalis
Animals - Birds	Dendroica petechia brewsteri	yellow warbler	ABPBX03018	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Parulidae - Dendroica petechia brewsteri
Animals - Birds	Icteria virens	yellow-breasted chat	ABPBX24010	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Parulidae - Icteria virens
Animals - Birds	Phalacrocorax auritus	double-crested cormorant	ABNFD01020	None	None	WL	-	3812134	Bruceville	Unprocessed	Animals - Birds - Phalacrocoracidae - Phalacrocorax auritus
Animals - Birds	Phalacrocorax auritus	double-crested cormorant	ABNFD01020	None	None	WL	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Phalacrocoracidae - Phalacrocorax auritus
Animals - Birds	Picoides nuttallii	Nuttall's woodpecker	ABNYF07020	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Picidae - Picoides nuttallii
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia

Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812134	Bruceville	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812133	Galt	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Plegadis chihi	white-faced ibis	ABNGE02020	None	None	WL	-	3812155	Sacramento West	Unprocessed	Animals - Birds - Threskiornithidae - Plegadis chihi
Animals - Birds	Vireo bellii pusillus	least Bell's vireo	ABPBW01114	Endangered	Endangered	-	-	3812155	Sacramento West	Mapped	Animals - Birds - Vireonidae - Vireo bellii pusillus
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812145	Clarksburg	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812133	Galt	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812134	Bruceville	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812135	Courtland	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812133	Galt	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis

Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Dumontia oregonensis	hairy water flea	ICBRA23010	None	None	-	-	3812153	Carmichael	Mapped	Animals - Crustaceans - Dumontiidae - Dumontia oregonensis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812145	Clarksburg	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812133	Galt	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812134	Bruceville	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812135	Courtland	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812134	Bruceville	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812133	Galt	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812145	Clarksburg	Mapped	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi

Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Fish	Acipenser transmontanus	white sturgeon	AFCAA01050	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Acipenseridae - Acipenser transmontanus
Animals - Fish	Archoplites interruptus	Sacramento perch	AFCQB07010	None	None	SSC	-	3812155	Sacramento West	Mapped	Animals - Fish - Centrarchidae - Archoplites interruptus
Animals - Fish	Lavinia exilicauda exilicauda	Central Valley hitch	AFCJB19012	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Cyprinidae - Lavinia exilicauda exilicauda
Animals - Fish	Lavinia exilicauda exilicauda	Central Valley hitch	AFCJB19012	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Cyprinidae - Lavinia exilicauda exilicauda
Animals - Fish	Lavinia exilicauda exilicauda	Central Valley hitch	AFCJB19012	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Fish - Cyprinidae - Lavinia exilicauda exilicauda
Animals - Fish	Mylopharodon conocephalus	hardhead	AFCJB25010	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Cyprinidae - Mylopharodon conocephalus
Animals - Fish	Mylopharodon conocephalus	hardhead	AFCJB25010	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Cyprinidae - Mylopharodon conocephalus
Animals - Fish	Mylopharodon conocephalus	hardhead	AFCJB25010	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Cyprinidae - Mylopharodon conocephalus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812145	Clarksburg	Mapped and Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812144	Florin	Mapped	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812134	Bruceville	Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812135	Courtland	Mapped and Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Hysterocarpus traski traski	Sacramento-San Joaquin tule perch	AFCQK02012	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Fish - Embiotocidae - Hysterocarpus traski traski
Animals - Fish	Hysterocarpus traski traski	Sacramento-San Joaquin tule perch	AFCQK02012	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Embiotocidae - Hysterocarpus traski traski

Animals - Fish	Hysterocarpus traski traski	Sacramento-San Joaquin tule perch	AFCQK02012	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Embiotocidae - Hysterocarpus traski traski
Animals - Fish	Hysterocarpus traski traski	Sacramento-San Joaquin tule perch	AFCQK02012	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Embiotocidae - Hysterocarpus traski traski
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812134	Bruceville	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812135	Courtland	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	SSC	-	3812135	Courtland	Mapped	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	SSC	-	3812145	Clarksburg	Mapped	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	SSC	-	3812144	Florin	Mapped	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	SSC	-	3812155	Sacramento West	Mapped	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Lampetra ayresii	river lamprey	AFBAA02030	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra ayresii
Animals - Fish	Lampetra ayresii	river lamprey	AFBAA02030	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra ayresii
Animals - Fish	Lampetra ayresii	river lamprey	AFBAA02030	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra ayresii
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - central California coast DPS	AFCHA0209G	Threatened	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812145	Clarksburg	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus

Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812144	Florin	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - central California coast DPS	AFCHA0209G	Threatened	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812154	Sacramento East	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812153	Carmichael	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812133	Galt	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812134	Bruceville	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812135	Courtland	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812143	Elk Grove	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - central California coast DPS	AFCHA0209G	Threatened	None	-	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812155	Sacramento West	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - spring-run Klamath-Trinity Rivers pop.	AFCHA02056	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	-	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	-	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - spring-run Klamath-Trinity Rivers pop.	AFCHA02056	None	None	SSC	-	3812135	Courtland	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	-	-	3812135	Courtland	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha

Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	-	-	3812135	Courtland	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812135	Courtland	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812134	Bruceville	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - spring-run Klamath-Trinity Rivers pop.	AFCHA02056	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	-	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Insects	Cicindela hirticollis abrupta	Sacramento Valley tiger beetle	IICOL02106	None	None	-	-	3812155	Sacramento West	Mapped	Animals - Insects - Carabidae - Cicindela hirticollis abrupta
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus

Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812133	Galt	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812134	Bruceville	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812135	Courtland	Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812143	Elk Grove	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Hydrochara rickseckeri	Ricksecker's water scavenger beetle	IICOL5V010	None	None	-	-	3812134	Bruceville	Mapped	Animals - Insects - Hydrophilidae - Hydrochara rickseckeri
Animals - Insects	Hydrochara rickseckeri	Ricksecker's water scavenger beetle	IICOL5V010	None	None	-	-	3812153	Carmichael	Mapped	Animals - Insects - Hydrophilidae - Hydrochara rickseckeri
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812153	Carmichael	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812154	Sacramento East	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812145	Clarksburg	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812144	Florin	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812134	Bruceville	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812135	Courtland	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Lasiurus blossevillii	western red bat	AMACC05060	None	None	SSC	-	3812135	Courtland	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus blossevillii
Animals - Mammals	Lasiurus blossevillii	western red bat	AMACC05060	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus blossevillii
Animals - Mammals	Lasiurus blossevillii	western red bat	AMACC05060	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus blossevillii
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus cinereus

Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812155	Sacramento West	Mapped	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Myotis ciliolabrum	western small-footed myotis	AMACC01140	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis ciliolabrum
Animals - Mammals	Myotis lucifugus	little brown bat	AMACC01010	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis lucifugus
Animals - Mammals	Myotis lucifugus	little brown bat	AMACC01010	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis lucifugus
Animals - Mammals	Myotis lucifugus	little brown bat	AMACC01010	None	None	-	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis lucifugus
Animals - Mammals	Myotis lucifugus	little brown bat	AMACC01010	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis lucifugus
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812145	Clarksburg	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812134	Bruceville	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812135	Courtland	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812135	Courtland	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812143	Elk Grove	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812134	Bruceville	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812133	Galt	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812144	Florin	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812145	Clarksburg	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata

Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812153	Carmichael	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812155	Sacramento West	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812155	Sacramento West	Mapped and Unprocessed	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812145	Clarksburg	Unprocessed	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812144	Florin	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812133	Galt	Mapped and Unprocessed	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812134	Bruceville	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812143	Elk Grove	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812135	Courtland	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Community - Terrestrial	Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	-	-	3812135	Courtland	Mapped	Community - Terrestrial - Coastal and Valley Freshwater Marsh
Community - Terrestrial	Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	-	-	3812134	Bruceville	Mapped	Community - Terrestrial - Coastal and Valley Freshwater Marsh
Community - Terrestrial	Elderberry Savanna	Elderberry Savanna	CTT63440CA	None	None	-	-	3812154	Sacramento East	Mapped	Community - Terrestrial - Elderberry Savanna
Community - Terrestrial	Elderberry Savanna	Elderberry Savanna	CTT63440CA	None	None	-	-	3812155	Sacramento West	Mapped	Community - Terrestrial - Elderberry Savanna
Community - Terrestrial	Great Valley Cottonwood Riparian Forest	Great Valley Cottonwood Riparian Forest	CTT61410CA	None	None	-	-	3812155	Sacramento West	Mapped	Community - Terrestrial - Great Valley Cottonwood Riparian Forest
Community - Terrestrial	Great Valley Mixed Riparian Forest	Great Valley Mixed Riparian Forest	CTT61420CA	None	None	-	-	3812134	Bruceville	Mapped	Community - Terrestrial - Great Valley Mixed Riparian Forest
Community - Terrestrial	Great Valley Valley Oak Riparian Forest	Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	-	-	3812134	Bruceville	Mapped	Community - Terrestrial - Great Valley Valley Oak Riparian Forest
Community - Terrestrial	Great Valley Valley Oak Riparian Forest	Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	-	-	3812133	Galt	Mapped	Community - Terrestrial - Great Valley Valley Oak Riparian Forest
Community - Terrestrial	Great Valley Valley Oak Riparian Forest	Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	-	-	3812143	Elk Grove	Mapped	Community - Terrestrial - Great Valley Valley Oak Riparian Forest
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812143	Elk Grove	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812133	Galt	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool

Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812134	Bruceville	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812153	Carmichael	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812144	Florin	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Valley Oak Woodland	Valley Oak Woodland	CTT71130CA	None	None	-	-	3812134	Bruceville	Mapped	Community - Terrestrial - Valley Oak Woodland
Community - Terrestrial	Valley Oak Woodland	Valley Oak Woodland	CTT71130CA	None	None	-	-	3812133	Galt	Mapped	Community - Terrestrial - Valley Oak Woodland
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812133	Galt	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812135	Courtland	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812134	Bruceville	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812153	Carmichael	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812154	Sacramento East	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Cicuta maculata var. bolanderi	Bolander's water-hemlock	PDAPI0M051	None	None	-	2B.1	3812135	Courtland	Mapped	Plants - Vascular - Apiaceae - Cicuta maculata var. bolanderi
Plants - Vascular	Cicuta maculata var. bolanderi	Bolander's water-hemlock	PDAPI0M051	None	None	-	2B.1	3812134	Bruceville	Mapped	Plants - Vascular - Apiaceae - Cicuta maculata var. bolanderi
Plants - Vascular	Lilaeopsis masonii	Mason's lilaeopsis	PDAPI19030	None	Rare	-	1B.1	3812134	Bruceville	Mapped	Plants - Vascular - Apiaceae - Lilaeopsis masonii
Plants - Vascular	Lilaeopsis masonii	Mason's lilaeopsis	PDAPI19030	None	Rare	-	1B.1	3812145	Clarksburg	Mapped	Plants - Vascular - Apiaceae - Lilaeopsis masonii
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812145	Clarksburg	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812144	Florin	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812134	Bruceville	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812135	Courtland	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812155	Sacramento West	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis

Plants - Vascular	Hesperevax caulescens	hogwallow starfish	PDASTE5020	None	None	-	4.2	3812144	Florin	Unprocessed	Plants - Vascular - Asteraceae - Hesperevax caulescens
Plants - Vascular	Lasthenia ferrisiae	Ferris' goldfields	PDAST5L070	None	None	-	4.2	3812134	Bruceville	Unprocessed	Plants - Vascular - Asteraceae - Lasthenia ferrisiae
Plants - Vascular	Symphyotrichum lentum	Suisun Marsh aster	PDASTE8470	None	None	-	1B.2	3812155	Sacramento West	Mapped	Plants - Vascular - Asteraceae - Symphyotrichum lentum
Plants - Vascular	Lepidium latipes var. heckardii	Heckard's pepper-grass	PDBRA1M0K1	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Brassicaceae - Lepidium latipes var. heckardii
Plants - Vascular	Lepidium latipes var. heckardii	Heckard's pepper-grass	PDBRA1M0K1	None	None	-	1B.2	3812145	Clarksburg	Mapped	Plants - Vascular - Brassicaceae - Lepidium latipes var. heckardii
Plants - Vascular	Brasenia schreberi	watershield	PDCAB01010	None	None	-	2B.3	3812134	Bruceville	Mapped	Plants - Vascular - Cabombaceae - Brasenia schreberi
Plants - Vascular	Brasenia schreberi	watershield	PDCAB01010	None	None	-	2B.3	3812135	Courtland	Mapped	Plants - Vascular - Cabombaceae - Brasenia schreberi
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812133	Galt	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812144	Florin	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812144	Florin	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812153	Carmichael	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812133	Galt	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812134	Bruceville	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Cuscuta obtusiflora var. glandulosa	Peruvian dodder	PDCUS01111	None	None	-	2B.2	3812144	Florin	Mapped	Plants - Vascular - Cuscutaceae - Cuscuta obtusiflora var. glandulosa
Plants - Vascular	Carex comosa	bristly sedge	PMCYP032Y0	None	None	-	2B.1	3812145	Clarksburg	Mapped	Plants - Vascular - Cyperaceae - Carex comosa
Plants - Vascular	Carex comosa	bristly sedge	PMCYP032Y0	None	None	-	2B.1	3812135	Courtland	Mapped	Plants - Vascular - Cyperaceae - Carex comosa
Plants - Vascular	Carex comosa	bristly sedge	PMCYP032Y0	None	None	-	2B.1	3812134	Bruceville	Mapped	Plants - Vascular - Cyperaceae - Carex comosa
Plants - Vascular	Astragalus tener var. ferrisiae	Ferris' milk-vetch	PDFAB0F8R3	None	None	-	1B.1	3812155	Sacramento West	Mapped	Plants - Vascular - Fabaceae - Astragalus tener var. ferrisiae
Plants - Vascular	Lathyrus jepsonii var. jepsonii	Delta tule pea	PDFAB250D2	None	None	-	1B.2	3812135	Courtland	Mapped	Plants - Vascular - Fabaceae - Lathyrus jepsonii var. jepsonii

Plants - Vascular	Lathyrus jepsonii var. jepsonii	Delta tule pea	PDFAB250D2	None	None	-	1B.2	3812134	Bruceville	Mapped	Plants - Vascular - Fabaceae - Lathyrus jepsonii var. jepsonii
Plants - Vascular	Trifolium hydrophilum	saline clover	PDFAB400R5	None	None	-	1B.2	3812134	Bruceville	Mapped	Plants - Vascular - Fabaceae - Trifolium hydrophilum
Plants - Vascular	Trifolium hydrophilum	saline clover	PDFAB400R5	None	None	-	1B.2	3812145	Clarksburg	Mapped	Plants - Vascular - Fabaceae - Trifolium hydrophilum
Plants - Vascular	Trifolium hydrophilum	saline clover	PDFAB400R5	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Fabaceae - Trifolium hydrophilum
Plants - Vascular	Juglans hindsii	Northern California black walnut	PDJUG02040	None	None	-	1B.1	3812144	Florin	Mapped	Plants - Vascular - Juglandaceae - Juglans hindsii
Plants - Vascular	Juglans hindsii	Northern California black walnut	PDJUG02040	None	None	-	1B.1	3812145	Clarksburg	Mapped	Plants - Vascular - Juglandaceae - Juglans hindsii
Plants - Vascular	Juglans hindsii	Northern California black walnut	PDJUG02040	None	None	-	1B.1	3812135	Courtland	Mapped	Plants - Vascular - Juglandaceae - Juglans hindsii
Plants - Vascular	Juncus leiospermus var. ahartii	Ahart's dwarf rush	PMJUN011L1	None	None	-	1B.2	3812153	Carmichael	Mapped	Plants - Vascular - Juncaceae - Juncus leiospermus var. ahartii
Plants - Vascular	Scutellaria galericulata	marsh skullcap	PDLAM1U0J0	None	None	-	2B.2	3812134	Bruceville	Mapped	Plants - Vascular - Lamiaceae - Scutellaria galericulata
Plants - Vascular	Scutellaria lateriflora	side-flowering skullcap	PDLAM1U0Q0	None	None	-	2B.2	3812134	Bruceville	Mapped	Plants - Vascular - Lamiaceae - Scutellaria lateriflora
Plants - Vascular	Scutellaria lateriflora	side-flowering skullcap	PDLAM1U0Q0	None	None	-	2B.2	3812135	Courtland	Mapped	Plants - Vascular - Lamiaceae - Scutellaria lateriflora
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812135	Courtland	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812134	Bruceville	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812145	Clarksburg	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812155	Sacramento West	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Gratiola heterosepala	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812153	Carmichael	Mapped	Plants - Vascular - Plantaginaceae - Gratiola heterosepala
Plants - Vascular	Gratiola heterosepala	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Plantaginaceae - Gratiola heterosepala

Plants - Vascular	Orcuttia tenuis	slender Orcutt grass	PMPOA4G050	Threatened	Endangered	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Poaceae - Orcuttia tenuis
Plants - Vascular	Orcuttia viscida	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Poaceae - Orcuttia viscida
Plants - Vascular	Orcuttia viscida	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812153	Carmichael	Mapped	Plants - Vascular - Poaceae - Orcuttia viscida
Plants - Vascular	Navarretia eriocephala	hoary navarretia	PDPLM0C060	None	None	-	4.3	3812143	Elk Grove	Unprocessed	Plants - Vascular - Polemoniaceae - Navarretia eriocephala
Plants - Vascular	Limosella australis	Delta mudwort	PDSCR10050	None	None	-	2B.1	3812135	Courtland	Mapped	Plants - Vascular - Scrophulariaceae - Limosella australis
Plants - Vascular	Limosella australis	Delta mudwort	PDSCR10050	None	None	-	2B.1	3812134	Bruceville	Mapped	Plants - Vascular - Scrophulariaceae - Limosella australis

CNPS California Native Plant Rare and Endangered Plant Inventory

Plant List

26 matches found. *Click on scientific name for details*

Search Criteria

Found in 9 Quads around 38121D4

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank
Astragalus tener var. ferrisiae	Ferris' milk-vetch	Fabaceae	annual herb	1B.1	S1	G2T1
Brasenia schreberi	watershield	Cabombaceae	perennial rhizomatous herb	2B.3	S2	G5
Carex comosa	bristly sedge	Cyperaceae	perennial rhizomatous herb	2B.1	S2	G5
Centromadia parryi ssp. rudis	Parry's rough tarplant	Asteraceae	annual herb	4.2	S3.2	G3T3
Cicuta maculata var. bolanderi	Bolander's water-hemlock	Apiaceae	perennial herb	2B.1	S2	G5T3T4
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	Convolvulaceae	annual vine (parasitic)	2B.2	SH	G5T4T5
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	2B.2	S2	GU
Gratiola heterosepala	Boggs Lake hedge-hyssop	Plantaginaceae	annual herb	1B.2	S2	G2
Hesperevax caulescens	hogwallow starfish	Asteraceae	annual herb	4.2	S3.2	G3
Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	Malvaceae	perennial rhizomatous herb	1B.2	S2	G5T2
Juglans hindsii	Northern California black walnut	Juglandaceae	perennial deciduous tree	1B.1	S1	G1
Juncus leiospermus var. ahartii	Ahart's dwarf rush	Juncaceae	annual herb	1B.2	S1	G2T1
Lasthenia ferrisiae	Ferris' goldfields	Asteraceae	annual herb	4.2	S3.2	G3
Lathyrus jepsonii var. jepsonii	Delta tule pea	Fabaceae	perennial herb	1B.2	S2.2	G5T2
Legenere limosa	legenere	Campanulaceae	annual herb	1B.1	S2	G2
Lepidium latipes var. heckardii	Heckard's pepper-grass	Brassicaceae	annual herb	1B.2	S2	G4T2
Lilaeopsis masonii	Mason's lilaeopsis	Apiaceae	perennial rhizomatous herb	1B.1	S2	G2
Limosella australis	Delta mudwort	Scrophulariaceae	perennial stoloniferous herb	2B.1	S2	G4G5
Navarretia eriocephala	hoary navarretia	Polemoniaceae	annual herb	4.3	S3.3	G3
Orcuttia tenuis	slender Orcutt grass	Poaceae	annual herb	1B.1	S2	G2
Orcuttia viscida		Poaceae	annual herb	1B.1	S1	G1

	Sacramento Orcutt grass					
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb	1B.2	S3	G3
Scutellaria galericulata	marsh skullcap	Lamiaceae	perennial rhizomatous herb	2B.2	S2	G5
Scutellaria lateriflora	side-flowering skullcap	Lamiaceae	perennial rhizomatous herb	2B.2	S1	G5
Symphyotrichum lentum	Suisun Marsh aster	Asteraceae	perennial rhizomatous herb	1B.2	S2	G2
Trifolium hydrophilum	saline clover	Fabaceae	annual herb	1B.2	S2	G2

Suggested Citation

CNPS, Rare Plant Program. 2014. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society, Sacramento, CA. Website http://www.rareplants.cnps.org [accessed 25 June 2014].

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The Calflora Database
The California Lichen Society

Appendix B – Wetland Delineation

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO CA 95814-2922

REPLY TO
ATTENTION OF

April 28, 2014

Regulatory Division SPK-2014-00230

City of Elk Grove
Attn: Mr. Michael Karoly
8401 Laguna Palms Drive
Elk Grove, California 95758

Dear Mr. Karoly:

We are responding to your request for a preliminary jurisdictional determination (JD), in accordance with our Regulatory Guidance Letter (RGL) 08-02, for the Laguna Creek Trail, Camden Spur site. The approximately 23-acre site is located north of Bond Road, south of Sheldon Road, east of State Route 99, and west of Elk Grove-Florin Road, in Section 25, Township 7 North, Range 5 East, Mount Diablo Meridian, Latitude 38.4292° North, Longitude 121.3859° West, in the City of Elk Grove, Sacramento County, California.

Based on available information, **we concur with the amount and location of wetlands and other water bodies on the site as depicted on the enclosed December 11-12 *Figure 4, Delineation of Wetlands and Waters of the U.S.* drawing prepared by the PMC**. The approximately 2.048 acres of wetlands and/or other water bodies present within the survey area are potential waters of the United States regulated under Section 404 of the Clean Water Act.

We have enclosed a copy of the *Preliminary Jurisdictional Determination Form* for this site. Please sign and return a copy of the completed form to this office. Once we receive a copy of the form with your signature we can accept and process a Pre-Construction Notification or permit application for your proposed project.

You should not start any work in potentially jurisdictional waters of the United States unless you have Department of the Army permit authorization for the activity. You may request an approved JD for this site at any time prior to starting work within waters. In certain circumstances, as described in RGL 08-02, an approved JD may later be necessary.

You should provide a copy of this letter and notice to all other affected parties, including any individual who has an identifiable and substantial legal interest in the property.

This preliminary determination has been conducted to identify the potential limits of wetlands and other water bodies which may be subject to Corps of Engineers' jurisdiction for the particular site identified in this request. A Notification of Appeal Process and Request for Appeal form is enclosed to notify you of your options with this determination. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are U.S. Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

We appreciate your feedback. At your earliest convenience, please tell us how we are doing by completing the customer survey on our website under *Customer Service Survey.*

Please refer to identification number SPK-2014-00230 in any correspondence concerning this project. If you have any questions, please contact Lisa Gibson at 1325 J Street, Room 1350, Sacramento, California 95814, by email at *Lisa.M.Gibson2@usace.army.mil*, or telephone at 916-557-5288. For more information regarding our program, please visit our website at *www.spk.usace.army.mil/Missions/Regulatory.aspx*.

Sincerely,

Kathleen A. Dadey, PhD
Chief, CA South Branch
Regulatory Division

Enclosures

cc: (w/o encls)

Ms. Summer Pardo, PMC, spardo@PMCWorld.com
Ms. Leana Rosetti, U.S. Environmental Protection Agency, Region IX, Wetlands Regulatory Office (WTR-8), 75 Hawthorne Street, San Francisco, California 94105-3901
Ms. Tina Bartlett, California Department of Fish and Wildlife, Region 2, 1701 Nimbus Road, Rancho Cordova, California 95670-4599
Ms. Elizabeth Lee, Storm Water and Water Quality Certification Unit, Central Valley Regional Water Quality Control Board, 11020 Sun Center Drive #200, Rancho Cordova, California 95670-6114
Ms. Kellie Berry, Sacramento Valley Branch, Endangered Species Division, U.S. Fish and Wildlife Service, 2800 Cottage Way, Suite W2605, Sacramento, California 95825-3901

PRELIMINARY JURISDICTIONAL DETERMINATION FORM
Sacramento District

This preliminary JD finds that there *"may be"* waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

Regulatory Branch: **California South** File/ORM #: **SPK-2014-00230** PJD Date: **April 25, 2014**

State: **CA** City/County: **Elk Grove, Sacramento County**
Nearest Waterbody: **Laguna Creek and Whitehouse Creek**
Location (Lat/Long): **38.4292° North, 121.3859° West**
Size of Review Area: **23 acres**

Name/Address Of Property Owner/ Potential Applicant: **City of Elk Grove**
Attn: Mr. Michael Karoly
8401 Laguna Palms Drive
Elk Grove, California 95758

Identify (Estimate) Amount of Waters in the Review Area
Non-Wetland Waters:
linear feet ft wide **2.026** acre(s)
Stream Flow: **Perennial and Intermittent**

Wetlands: **0.022** acre(s)
Cowardin Class: **Palustrine, emergent**

Name of any Water Bodies Tidal:
on the site identified as
Section 10 Waters: Non-Tidal:

☐ Office (Desk) Determination
☒ Field Determination:
Date(s) of Site Visit(s): **April 7, 2014**

SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply – checked items should be included in case file and, where checked and requested, appropriately reference sources below)

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: **Figure 4, Delineation of Wetlands and Waters of the U.S.**
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Data sheets prepared by the Corps.
☐ Corps navigable waters' study.
☐ U.S. Geological Survey Hydrologic Atlas:
  ☐ USGS NHD data.
  ☐ USGS HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: **1:24K; CA-FLORIN**
☐ USDA Natural Resources Conservation Service Soil Survey.
☐ National wetlands inventory map(s).
☐ State/Local wetland inventory map(s).
☐ FEMA/FIRM maps.
☐ 100-year Floodplain Elevation (if known):
☒ Photographs: ☒ Aerial
  ☐ Other
☒ Previous determination(s). File no. and date of response letter: **SPK-2011-00034, February 11, 2011**
☐ Other information (please specify):

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Nicia McGloan 4/28/14
Signature and Date of Regulatory Project Manager (REQUIRED)

Michael Karoly 5/1/14
Signature and Date of Person Requesting Preliminary JD (REQUIRED, unless obtaining the signature is impracticable)

EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETERMINATIONS:
1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.
2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: City of Elk Grove	File No.: SPK-2014-00230	Date: April 28, 2014

Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
	APPROVED JURISDICTIONAL DETERMINATION	D
X	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at *http://www.usace.army.mil/cecw/pages/reg_materials.aspx* or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.

- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

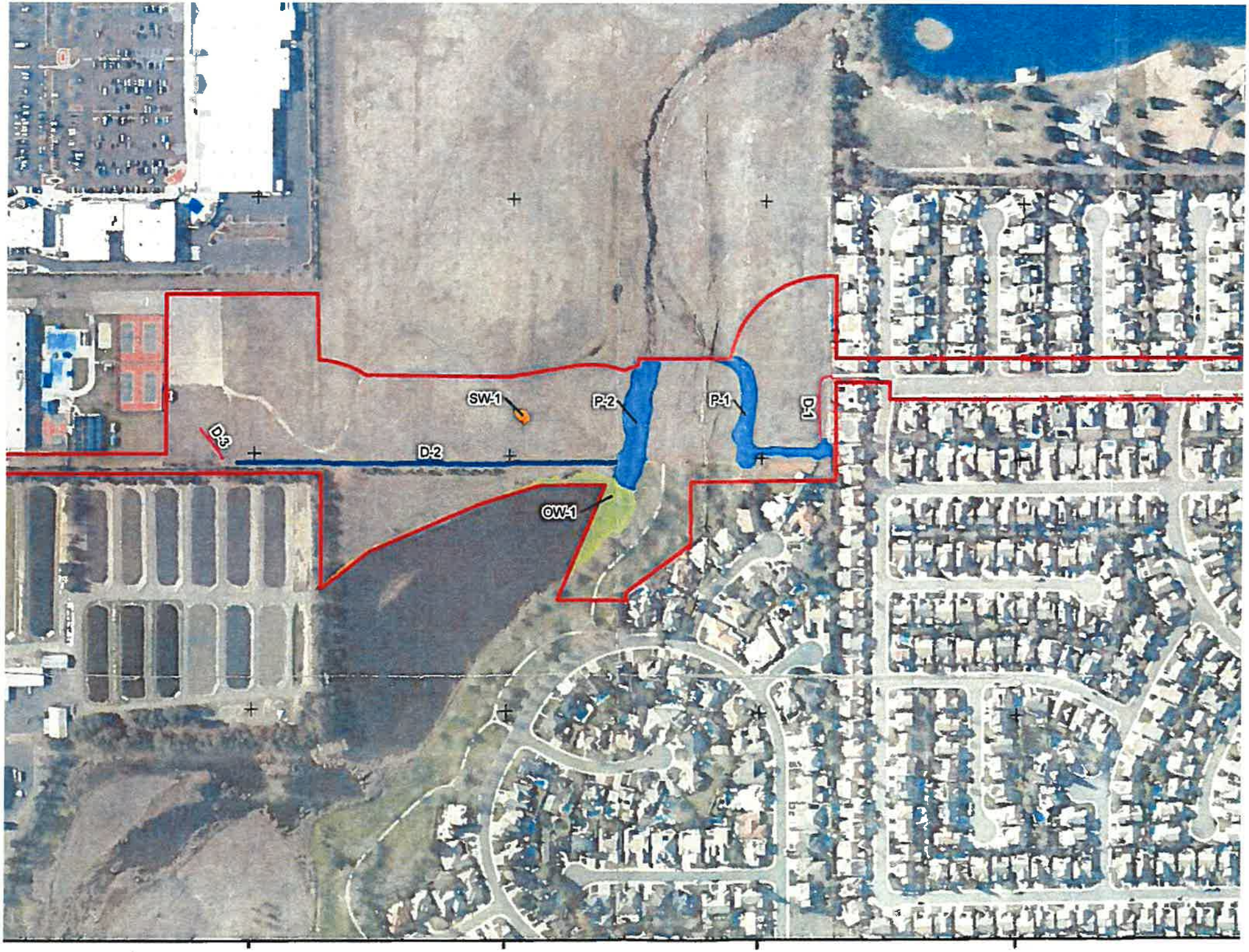
Lisa M. Gibson
Senior Project Manager
California South Branch
U.S. Army Corps of Engineers
1325 J Street, Room 1350
Sacramento, California 95814-2922
Phone: 916-557-5288, FAX 916-557-7803
Email: Lisa.M.Gibson2@usace.army.mil

If you only have questions regarding the appeal process you may also contact:

Thomas J. Cavanaugh
Administrative Appeal Review Officer
U.S. Army Corps of Engineers
South Pacific Division
1455 Market Street, 2052B
San Francisco, California 94103-1399
Phone: 415-503-6574, FAX 415-503-6646)
Email: Thomas.J.Cavanaugh@usace.army.mil

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.	Date:	Telephone number:


SW-1
P-2
P-1
D-3
D-2
OW-1


SW-1
P-2
P-1
D-1
D-3
D-2
OW-1
4254384
4254584
4254784
4254984

Appendix C – Rare Plant Survey

Interoffice Memorandum

CITY OF ELK GROVE
PROUD HERITAGE, BRIGHT FUTURE.

May 11, 2011
Date

James McLaughlin
To

Rare Plant Surveys for the Laguna Creek Trail – Camden Spur Project
Subject

Angela Calderaro
From

Introduction

The purpose of this technical memorandum is to describe the results of the survey for rare plant species that may occur within the project study area (PSA). At nearly three miles, the Laguna Creek Trail is one of the longest trails aligning through the City of Elk Grove and connecting to several regional trails. The Laguna Creek Bike Trail Connector Project -Camden Spur Project is part of a citywide effort to provide alternative transportation options, close trail gaps, improve regional and local bicycle/pedestrian routes, and increase safety along busy traffic corridors. Connectivity and access is limited for pedestrians and bicyclists traveling west on the longest part (nearly three miles) of the Laguna Creek Trail. The trail currently ends leaving a large gap between Bond Road and the Camden Passage neighborhood. The proposed project proposes to close this gap and improve safety.

Methods

City of Elk Grove biologist, Angela Calderaro, conducted focused rare plant surveys in suitable habitat within the PSA on May 6, 2011. The rare plant surveys were conducted in accordance with the *General Rare Plant Guidelines* (USFWS 2002) and the *Guidelines for Assessing the Effects of Proposed Projects on Rare, Threatened, and Endangered Plants and Natural Communities* (CDFG 2000). Transects of the PSA were systematically walked to detect presence of rare plant species. When rare plants were observed, their presence was recorded on a Trimble Geo XT with submeter accuracy. If the species was growing in a large clump, the number of individual plants were estimated. Locations of rare plants recorded in the field were then overlaid on an aerial photograph of the PSA. According to the California Environmental Quality Act (CEQA) document (City of Elk Grove 2011) for this report, the rare plant species listed in **Table 1** have the potential to occur in the PSA.

TABLE 1 – RARE PLANT SPECIES

Scientific Name Common Name	CNPS Status	General Habitat
Downingia pusilla Dwarf Downingia	List 2.2	This annual herb is restricted to vernal pools and similar seasonal wetlands, including mesic grassland and the margins of small lakes or stock ponds. Blooms: March - May
Gratiola heterosepala Bogg's Lake hedge-hyssop	List 1B.2	This annual herb is found in marshes, swamps, lake margins, and vernal pools with clay soils. Blooms: April - June
Legenere limosa Legenere	List 1B.1	This annual herb grows in moist or wet ground or with the plant's base submerged in the shallow water of vernal pools. Blooms: April - June
Sagittaria sanfordii Sanford's arrowhead	List 1B.2	This perennial herb occurs in assorted shallow freshwater marshes and swamps and artificial ponds and lakes. Blooms: May - October

Source: CNPS 2011

Code Designations

List 1B = Plant species that are rare, threatened, or endangered in California and elsewhere.
List 2 = Plant species that are rare, threatened, or endangered in California, but more common elsewhere.
Threat Ranks - 0.1-Seriously threatened in California (high degree/immediacy of threat), **0.2**-Fairly threatened in California (moderate degree/immediacy of threat)

Results

Sanford's arrowhead may occur within Laguna Creek within the PSA. Two small plants with one to three leaves and approximately five to ten inches tall were located along the water's edge. Since the plant was not flowering, identification could not be confirmed (see Photo 1). Plants were found adjacent to the water's edge with common cattail (*Typha latifolia*) and bulrush (Scirpus *californicus*). Even so, if these plants are Sanford's arrowhead, the proposed project would avoid the low-water channel where these plants occur. As a part of Mitigation Measure 4a-2c, the Worker Environmental Awareness Program (WEAP) will be implemented to educate construction workers about the presence of special-status species or other sensitive resources in and near the PSA, and to instruct them on proper avoidance, required measures and practices for protecting biological resources and contacts and procedures in case species are injured or encountered during construction. As a part of the avoidance and minimization measures to the creek (a water of the U.S.), the plants will be avoided during construction. No additional mitigation measures are necessary.

Photo 1 – Possible Sanford's arrowhead within Elk Grove Creek.

The vernal pool within the PSA was also checked for the presence of rare plant species. The dry pool contained turkey mullein (*Eremocarpus setigerus*), coyote thistle (*Eryngium vaseyi*), vernal pool buttercup (*Ranunculus bonariensis var. trisepalus*), rayless goldfields (*R. glaberrima*), popcorn flower (*Plagiobothrys stipitatus*), curly dock (*Rumex crispus*), Italian wildrye (*Lolium multiflorum*), and pale spikerush (*Eleocharis macrostachya*).

Although rare plant surveys were not conducted in the blooming period for Bolander's water-hemlock (*Cicuta maculata* var. *bolanderi*) and wooly rose mallow (*Hibiscus lasiocarpus*), these species are not expected to occur in the PSA due to the lack of suitable habitat. There are no previously recorded occurrences of these species within a five-mile radius of the PSA (CDFG 2011). No other rare plants were observed in the PSA.

The survey described in this report fulfills the survey requirement described under Mitigation Measure 4a-1a of the Initial Study/Mitigated Negative Declaration (IS/MND) (City of Elk Grove 2011).

References

United States Fish and Wildlife Service (USFWS). 2002. *General Rare Plant Survey Guidelines.* July 2002. Ellen A. Cypher, California State University, Stanislaus, Endangered Species Recovery Program. Bakersfield, CA.

California Department of Fish and Game. 2000. *Guidelines for assessing the effects of proposed projects on rare, threatened, and endangered plants and natural communities.* (Revision of 1983 guidelines.) Sacramento, CA, 2 pp.

California Department of Fish and Game (CDFG). 2011. California Natural Diversity Database (CNDDB), Wildlife and Habitat Data Analysis Branch, Rarefind Version 3.1.1. Commercial Version -- Dated April 02, 2011.

City of Elk Grove. 2011. Initial Study/Mitigated Negative Declaration for the Laguna Creek Trail – Camden Spur Project. City of Elk Grove, CA.

Appendix D – Tree Survey

Appendix E – 2012 USFWS Biological Opinion

TREE
ASSOCIATES

MEMO

To: Michael Karoly, PE, Senior Project Manager, City of Elk Grove
From: Kelly McGlothlin, ISA Certified Arborist #8324
Date: June 21, 2013 (Revised)
Re: Laguna Creek Trail, Elk Grove, CA:
Camden South Spur, Project #PT0121 (Trees #1-131)
Camden North Spur, Project #WTL005 (Trees #132-144)

Assignment

Tree Associates was asked to evaluate trees located adjacent to the Laguna Creek Trail, Camden South Spur Project site in Elk Grove. The number of trees to be evaluated was estimated at 180, however, the final count that met the criteria for evaluation was 144. I evaluated trees #1-131 between April 24, 2013 and April 26, 2013. I returned to the site on June 19, 2013 to evaluate trees #132-144.

Limits of the Assignment

This evaluation reports on the condition of the subject trees at the time of my site visit. Tree conditions change over time and, as they change, the evaluations, comments and recommendations in this report may need to be revised.

Tree Evaluation

All trees adjacent to the proposed trail with trunk diameters greater than six inches were evaluated, with the following exceptions:

1. For multiple-trunked species not protected within the City of Elk Grove Tree Ordinance, only those with at least one of the trunks greater than or equal to six inches were evaluated;
2. From Bond Road north to the edge of the playground area, only trees with canopies overhanging the western property boundary fence were evaluated.

For each of the 144 trees that were evaluated, the following data were provided:

- Tree Number – corresponds to a tag number found on a round aluminum tag affixed to each.
- Species – common and Latin name of tree.
- Trunk Diameter – the diameter of the tree (in inches) at 4.5' above grade, unless measurement

between 1-5 feet above grade provided a more accurate reflection of the size of the tree.

- Maximum Drip Line Radius – the measured maximum distance from the trunk to the edge of the branches, in feet.
- Tree Protection Zone – the radius (in feet) of a circular area centered at the tree trunk which, if left undisturbed, will result in a low impact to the tree.
- Health Rating – rating of poor to excellent regarding tree health. A rating of fair/good or greater indicated no significant health concerns.
- Structural Rating – rating of poor to excellent regarding tree structure. A rating of fair/good or greater generally indicated no acute structural concerns.
- Comments – comments regarding tree features significant to tree condition.
- Recommendations – recommendations for tree work, treatments, or further evaluation necessary to improve tree structure or health.

Results of this assessment are presented in the attached table 1, titled "Tree Evaluation and Recommendations."

Tree Preservation Recommendations

When more detailed construction plans are available, we recommend consulting with us to evaluate potential construction impacts to the on-site trees. The general guidelines presented below should be followed for all trees to be preserved to ensure the least impact considering the proposed construction.

- Wherever possible the project should avoid grading, compaction, trenching or any other disturbance within the tree protection zones. This may require the use of retaining walls, boring trenches under tree root zones or other construction techniques.
- Where construction is necessary within the protection zones of trees, consult with Consulting Arborist to develop designs/techniques which minimize injury to subject trees.
- Conduct a meeting to discuss these tree preservation guidelines with all contractors, subcontractors and project managers prior to the initiation of construction.
- Prior to any demolition activity on site, identify (tagged) trees to be preserved and install tree protection fencing in a circle centered at the tree trunk with a radius equal to the defined tree protection zone (see table). Where this is not feasible, install fence as far from the trunk as possible. Tree protection fences should be made of chain link with posts sunk into the ground. These fences should not be removed or moved until construction is complete.
- Avoid soil or above ground disturbances within the fenced area.
- Do not deposit soil, construction material, spoil, waste or washout water within the fenced areas.
- Any work that is to occur within the protection zones of the trees should be monitored by the Consulting Arborist.
- If roots larger than 1" diameter or limbs larger than 3 inches in diameter are cut or damaged during construction, the Consulting Arborist should be contacted as soon as possible to inspect and recommend appropriate treatments.
- Any pruning required for construction or recommended in this report should be performed by an ISA Certified Arborist or Tree Worker following ANSI A300 Pruning Standards and ISA Best Management Practices for pruning.
- All trees to be preserved should be irrigated once every three weeks during the summer months to wet the soil to a depth of at least 18 inches under and beyond their canopies.

We recommend utilizing the following specifications for demolition, pruning and construction to provide the greatest likelihood that the trees will survive the development.

SPECIFICATIONS FOR DEMOLITION, SITE CLEARING, PRUNING AND CONSTRUCTION[1]

Definitions

1. "Consulting Arborist" is defined as an A.S.C.A. Registered Consulting Arborist or other qualified Consulting Arborist.
2. "I.S.A. Certified Arborists or Tree Workers" are certified as such by the International Society of Arboriculture.

Specifications for Demolition and Site Clearing

The following work must be accomplished before any demolition or site-clearing activity occurs within 100 feet of any trees or within tree protection zones or under tree canopies established by the Consulting Arborist in this report.

1. The demolition contractor and all subcontractors are required to meet with the Consulting Arborist, Project Manager and Project Inspector at the site prior to beginning work to review all work procedures, access and haul routes, and tree protection measures. Note that prior to or during this meeting, changes or additions to these specifications may need to be made by the Consulting Arborist.

2. The limits of all tree protection zones shall be staked in the field. Tree protection fences shall be made of six foot high chain link fence with posts pounded into the ground unless otherwise approved by the Consulting Arborist. The fences are not to be opened, relocated or removed and no traffic, material storage or any other disturbance within the fenced area is permitted without the prior written approval of the Consulting Arborist. The location of tree protection fences will be outside of the tree protection zone (or where demolition is to occur within the protection zone, as far away from the trunk as possible) which is defined in the Arborist Report.

3. Structures and underground features to be removed within the tree protection zone shall use the smallest equipment possible and operate from outside the tree protection zone. The Consulting Arborist shall be on site during all operations within the tree protection zone to monitor and direct demolition activity.

4. All trees shall be pruned in accordance with the provided Pruning Specifications or in accordance with the recommendations of the Consulting Arborist.

5. Any damage to trees due to demolition activities shall be reported to the Consulting Arborist within six hours so that remedial action can take place.

6. Temporary haul or access roads shall pass outside of the tree protection zones unless this is not possible. If temporary haul or access roads must pass over the protection zone of trees to be retained, a roadbed of six inches of woodchip mulch or gravel shall be created to protect the soil. The roadbed shall be installed under the supervision of the Consulting Arborist from outside of the tree protection zone and while the soil is in a dry condition. The roadbed material shall be replenished as necessary to maintain a six-inch depth.

Pruning Specifications

1. All trees located within the project area under or near where equipment will operate shall be either tied back (preferable) or pruned to provide a minimum amount of clearance to avoid limb breakage from construction activity.

2. Pruning shall not be performed during periods of flight of adult boring insects because fresh wounds attract pests. Pruning shall be performed only when the danger of infestation is past.

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[1] (adapted from Matheny and Clark, Trees and Development, ©1998, International Society of Arboriculture, Champaign, IL. 183 pp.)

3. An I.S.A. Certified Arborist or Tree Worker shall perform all pruning under the direction of the Consulting Arborist.

4. All pruning shall be in accordance with the Tree Pruning Guidelines (International Society of Arboriculture) and/or the ANSI A300 Pruning Standard (American National Standard for Tree Care Operations) and adhere to the most recent edition of ANSI Z133.1.

5. Interior branches shall not be stripped out during pruning.

6. Pruning cuts larger than four inches in diameter shall be avoided.

7. No more than 20% of the live foliage (or expected live foliage if dormant) shall be removed within any tree unless recommended by the Consulting Arborist.

8. While in the tree, the Arborist shall perform an aerial inspection to identify defects that require treatment. Any additional work needed shall be reported to the Consulting Arborist.

9. Brush shall be chipped and chips shall be spread underneath trees within the tree protection zone to a maximum depth of six inches leaving the trunk clear of mulch.

Construction Specifications

Note: The following specifications should be included on all construction plans.

1. The Consulting Arborist shall be notified when staking is complete in the field to field verify locations of pads, limits of grading, and other construction features.

2. Before beginning work, the contractor and all subcontractors are required to meet with the Consulting Arborist, Project Manager and Project Inspector at the site to review all work procedures, access routes, storage areas and tree protection measures.

3. Fences shall have been erected as specified to protect trees to be preserved. Fences define a specific protection zone for each tree or group of trees. The location of tree protection fences will be outside of the tree protection zone (defined in the Arborist Report) or as indicated on final plans. In the absence of the report or indication on plans, the tree protection zone is a circular area centered at each trunk with a radius equal to 1.5 feet for every inch in trunk diameter measured at 4.5 feet above ground. Fences are to remain until all site work has been completed. Fences may not be opened, relocated or removed without the written permission of the Consulting Arborist. No traffic, construction trailers, equipment, material storage spoil or waste or washout water are permitted within the tree protection zone (fenced area).

4. Any soil disturbance (scraping, grading, trenching, and excavation) is to be avoided in the tree protection zone. Where this is necessary, the Consulting Arborist, Project Manager and Inspector will be notified at least two weeks prior to construction. The Consulting Arborist will provide specifications for this work, including methods for root pruning, backfill specifications and irrigation management guidelines.

5. All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, they shall be tunneled or bored under the tree.

6. Additional tree pruning required for clearance during construction must be performed by an I.S.A. Certified Arborist or Tree Worker or by construction personnel who have been trained by and under the supervision of the Consulting Arborist.

7. Any herbicides placed under paving materials must be safe for use around trees and labeled for that use. Any pesticides used on site must be tree-safe and not easily transported by water.

8. If injury should occur to any tree during construction, the Contractor shall notify the Consulting Arborist immediately so that appropriate treatments can be applied as soon as possible.

9. Any grading, construction, demolition, or other work that is expected to encounter tree roots must be monitored by the Consulting Arborist (the Consulting Arborist must be contacted to schedule this monitoring at least one week prior to the date of this construction).

10. All trees shall be irrigated on a schedule and in a manner to be determined by the Consulting Arborist.

11. Erosion control devices such as silt fencing, debris basins, and water diversion structures shall be installed to prevent siltation and/or erosion within the tree protection zone.

12. Before grading, pad preparation, or excavation for foundations, footings, walls, or trenching within five feet outside of the protection zone of any tree root pruning shall be required at the limits of grading or excavation to cut roots cleanly to a depth of the excavation or 36 inches (whichever is less). Roots shall be cut by manually digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw, narrow trencher with sharp blades or other approved root-pruning equipment under the supervision of the Consulting Arborist.

13. Any roots damaged during grading or construction shall be exposed to sound tissue and cut cleanly with a saw.

14. If temporary haul or access roads must pass over the root area of trees to be retained, a roadbed of six inches of mulch or gravel shall be created to protect the soil. The roadbed shall be installed from outside of the tree protection zone and while the soil is in a dry condition, if possible. The roadbed material shall be replenished as necessary to maintain a six-inch depth.

15. Spoil from trenches, basements, or other excavations shall not be placed within the tree protection zone, either temporarily or permanently.

16. No burn piles or debris pits shall be placed within the tree protection zone. No ashes, debris, or garbage may be dumped or buried within the tree protection zone.

17. Maintain fire-safe areas around fenced areas. Also, no heat sources, flames, ignition sources, or smoking is allowed near mulch or trees if fire danger is present.

Please do not hesitate to contact me if you have questions about this memorandum.

Arborist Disclosure Statement

The following statement concerns my work on this project.

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the Arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed.

Treatment, pruning and removal of trees may involve considerations beyond the scope of the Arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the Arborist. An Arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

ASSUMPTIONS AND LIMITING CONDITIONS: John M. Lichter dba TREE ASSOCIATES

1. Any legal description provided to the consultant/appraiser is assumed to be correct. Any titles and ownerships to any property are assumed to be good and marketable. No responsibility is assumed for matters legal in character. Any and all property is appraised or evaluated as though free and clear, under responsible ownership and competent management.

2. It is assumed that any property is not in violation of any applicable codes, ordinances, statutes or other governmental regulations.

3. Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant/appraiser can neither guarantee nor be responsible for the accuracy of information provided by others.

4. The consultant/appraiser shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.

5. Unless required by law otherwise, possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed, without the prior expressed written or verbal consent of the consultant/appraiser.

6. Unless required by law otherwise, neither all nor any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through advertising, public relations, news, sales or other media, without the prior expressed written or verbal consent of the consultant/appraiser -- particularly as to value conclusions, identity of the consultant/appraiser, or any reference to any professional society or institute or to any initialed designation conferred upon the consultant/appraiser as stated in his qualifications.

7. This report and any values expressed herein represent the opinion of the consultant/appraiser, and the consultant's/appraiser's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.

8. Sketches, drawings, and photographs in this report, being intended as visual aids, are not necessarily to scale and should not be construed as engineering or architectural reports or surveys unless expressed otherwise. The reproduction of any information generated by architects, engineers, or other consultants on any sketches, drawings, or photographs is for the express purpose or coordination and ease of reference only. Inclusion of said information on any drawings or other documents does not constitute a representation by John M. Lichter or TREE ASSOCIATES as to the sufficiency or accuracy of said information.

9. Unless expressed otherwise: 1) information contained in this report covers only those items that were examined and reflects the condition of those items at the time of inspection; and 2) the inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in the future.

10. Loss or alteration of any part of this report invalidates the entire report.

Laguna Creek Trail,City of Elk Grove
Camden South Spur Project #PT0121
Camden North Spur Project #WTL005
Tree Evaluation and Recommendations

To Accompany
Revised Tree Associates Report
Dated June 21, 2013

Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
1	river she-oak *Casuarina cunninghamiana*	23	24	24	Fair to Good	Fair to Good		
2	coast live oak *Quercus agrifolia*	14	14	14	Good	Good		
3	coast live oak *Quercus agrifolia*	15	20 est	20	Good	Good		
4	coast live oak *Quercus agrifolia*	10	17 est	17	Good	Fair	Growth suppressed by adjacent trees.	
5	coast live oak *Quercus agrifolia*	15	18 est	18	Good	Fair to Good	Large diameter W-facing primary limb with included bark.	Use reduction cuts to reduce amount of foliage by 25% on W-facing primary limb.
6	river she-oak *Casuarina cunninghamiana*	9,10	18 est	18	Fair to Good	Fair	Codominant trunks with included bark.	
7	coast live oak *Quercus agrifolia*	20	24 est	24	Good	Good		
8	Canary Island pine *Pinus canariensis*	17	21	21	Good	Good		
9	Canary Island pine *Pinus canariensis*	10	15	15	Good	Good		
10	Canary Island pine *Pinus canariensis*	19	17	17	Good	Fair to Good	Asymmetrical canopy.	
11	Canary Island pine *Pinus canariensis*	8	13	13	Good	Fair	Asymmetrical canopy.	

* Driplines were estimated in some cases where fence prevented obtaining an accurate measurement.

Laguna Creek Trail,City of Elk Grove
Camden South Spur Project #PT0121
Camden North Spur Project #WTL005
Tree Evaluation and Recommendations

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Dated June 21, 2013

Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
12	Canary Island pine *Pinus canariensis*	9,5	11	11	Good	Poor to Fair	Codominant trunks with included bark. One of trunks bowed.	
13	red ironbark eucalyptus *Eucalyptus sideroxylon*	12,14	17	18	Good	Fair	Codominant trunks at base.	
14	Canary Island pine *Pinus canariensis*	14	27	27	Good	Fair to Good	One of trunks removed at base. Remaining trunk slightly bowed.	
15	Canary Island pine *Pinus canariensis*	10	15	15	Good	Good		
16	eucalyptus *Eucalyptus* sp.	59@18"	26	26	Good	Fair	Multiple trunks. A few trunks previously cut and have mature stump-sprouts.	
17	Canary Island pine *Pinus canariensis*	5,5,7	10	10	Good	Fair	Multiple trunks.	
18	eucalyptus *Eucalyptus* sp.	25	20	25	Fair to Good	Fair		
19	common hackberry *Celtis occidentalis*	6	10	10	Good	Fair	Growth suppressed by adjacent trees.	
20	Canary Island pine *Pinus canariensis*	17	27	27	Good	Fair	One of trunks removed at base. Remaining trunk with pronounced bow.	

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Laguna Creek Trail,City of Elk Grove
Camden South Spur Project #PT0121
Camden North Spur Project #WTL005
Tree Evaluation and Recommendations

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Revised Tree Associates Report
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Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
21	eucalyptus *Eucalyptus* sp.	6,7,11	19	19	Good	Fair	Multiple trunks.	
22	eucalyptus *Eucalyptus* sp.	38@1'	16	16	Fair to Good	Poor to Fair	Multiple trunks. All of trunks previously cut and stump-sprouting with weak attachments. Some portions of old trunks decaying.	Remove tree.
23	Canary Island pine *Pinus canariensis*	16	24	24	Good	Fair to Good	Asymmetrical canopy.	
24	eucalyptus *Eucalyptus* sp.	10,13	17	17	Good	Fair	Codominant trunks.	
25	aleppo pine *Pinus halepensis*	9	8	9	Good	Fair		
26	red ironbark eucalyptus *Eucalyptus sideroxylon*	14	23 est	23	Fair to Good	Poor to Fair	Tree was topped. Watersprouts with weak attachments sprouting from cuts.	Either maintain tree at current height, aerially inspect watersprouts at attachment points and remove or shorten as necessary, or remove tree.
27	eucalyptus *Eucalyptus* sp.	13	18 est	18	Good	Fair	Codominant trunks with included bark.	
28	Canary Island pine *Pinus canariensis*	11	17	17	Good	Good		

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Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
29	eucalyptus *Eucalyptus* sp.	11	15	15	Poor to Fair	Poor to Fair	One trunk dead. Other with trunk wounds, bowed. Growth suppressed by adjacent trees.	Remove tree.
30	eucalyptus *Eucalyptus* sp.	44@1'	22 est	22	Good	Fair	Multiple trunks. All of trunks previously cut and mature sprouts at pruning locations.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
31	eucalyptus *Eucalyptus* sp.	8,8,9,4	18 est	18	Good	Poor to Fair	Multiple trunks at base with included bark.	
32	Canary Island pine *Pinus canariensis*	22	37	37	Good	Fair	Trunk previously removed at base. Asymmetrical canopy.	
33	Canary Island pine *Pinus canariensis*	6,6	9	9	Good	Fair	Codominant trunks.	
34	coast live oak *Quercus agrifolia*	14	18 est	18	Good	Fair	Trunk bowed.	
35	Canary Island pine *Pinus canariensis*	15	27	27	Good	Fair	Asymmetrical canopy.	
36	red ironbark eucalyptus *Eucalyptus sideroxylon*	19	15	19	Good	Fair to Good		

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Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
37	eucalyptus *Eucalyptus* sp.	28@1'	10	10	Good	Poor to Fair	Multiple trunks at base. Probably stump sprouts.	Maintain tree under 15' in height or consider removal in presence of target to avoid future structural problems.
38	Canary Island pine *Pinus canariensis*	6	10	10	Good	Good		
39	Canary Island pine *Pinus canariensis*	15	14	14	Good	Good		
40	eucalyptus *Eucalyptus* sp.	17	14	17	Good	Fair to Good		
41	eucalyptus *Eucalyptus* sp.	35	18 est	35	Fair	Poor to Fair	Multiple trunks. All of trunks previously cut and mature watersprouts at pruning location. Older trunks with dead portions and decay.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten.
42	red ironbark eucalyptus *Eucalyptus sideroxylon*	14	15	15	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.

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Laguna Creek Trail,City of Elk Grove
Camden South Spur Project #PT0121
Camden North Spur Project #WTL005
Tree Evaluation and Recommendations

To Accompany
Revised Tree Associates Report
Dated June 21, 2013

Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
43	eucalyptus *Eucalyptus* sp.	13@2'	10	11	Good	Fair	Previously topped.	
44	eucalyptus *Eucalyptus* sp.	7,7,8,8	16 est	16	Good	Fair	Multiple trunks.	
45	eucalyptus *Eucalyptus* sp.	18@3.5'	15	17	Good	Fair		
46	Canary Island pine *Pinus canariensis*	18	21	21	Good	Good		
47	eucalyptus *Eucalyptus* sp.	17@3'	18 est	18	Good	Fair		
48	aleppo pine *Pinus halepensis*	18	24	24	Good	Fair	Trunk coming out of ground at slight angle.	
49	eucalyptus *Eucalyptus* sp.	23@3.5'	18	22	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
50	eucalyptus *Eucalyptus* sp.	27@4'	17 est	27	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.

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Laguna Creek Trail,City of Elk Grove
Camden South Spur Project #PT0121
Camden North Spur Project #WTL005
Tree Evaluation and Recommendations

To Accompany
Revised Tree Associates Report
Dated June 21, 2013

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51	eucalyptus *Eucalyptus* sp.	12	14	14	Good	Fair to Good		
52	eucalyptus *Eucalyptus* sp.	25@4'	14	25	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
53	aleppo pine *Pinus halepensis*	15	19	19	Good	Fair	Asymetric canopy due to adjacent tree.	
54	eucalyptus *Eucalyptus* sp.	19	14	19	Good	Good		
55	eucalyptus *Eucalyptus* sp.	4,4,4,4,6	13	13	Good	Poor to Fair	Stump sprouts with weak attachments.	Prune to reduce height to 15' and maintain height, or consider removal.
56	coast redwood *Sequoia sempervirens*	8	9	9	Good	Good		
57	aleppo pine *Pinus halepensis*	17	25	25	Good	Fair	Trunk coming out of ground at an angle.	

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Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
58	eucalyptus *Eucalyptus* sp.	13,18	15	22	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
59	eucalyptus *Eucalyptus* sp.	18	16	18	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
60	eucalyptus *Eucalyptus* sp.	17,27	15	32	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from cuts. Codominant trunks with included bark.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.

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Laguna Creek Trail,City of Elk Grove
Camden South Spur Project #PT0121
Camden North Spur Project #WTL005
Tree Evaluation and Recommendations

Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
61	eucalyptus *Eucalyptus* sp.	14,3	15 est	15	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from cuts. Codominant trunks with included bark. Smaller trunk at base with weak attachment.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary. Maintain epicormic limbs at smaller size. Subdue or remove smaller trunk.
62	eucalyptus *Eucalyptus* sp.	8,3	10	10	Fair	Poor to Fair	Shrubby structure. Growth suppressed by adjacent trees. Twig dieback.	
63	eucalyptus *Eucalyptus* sp.	28@3'	16 est	26	Good	Fair	Codominant trunks. Previously topped. Watersprouts originating at pruning cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary. Subdue or remove smaller trunk.

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Laguna Creek Trail,City of Elk Grove
Camden South Spur Project #PT0121
Camden North Spur Project #WTL005
Tree Evaluation and Recommendations

To Accompany
Revised Tree Associates Report
Dated June 21, 2013

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64	eucalyptus *Eucalyptus* sp.	37@3'	23 est	35	Good	Poor to Fair	Multiple trunks with included bark. Previously topped with epicormic limbswatersprouts originating at pruning wounds.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
65	aleppo pine *Pinus halepensis*	24	22	24	Good	Fair to Good	Large diameter trunk previously removed.	
66	coast redwood *Sequoia sempervirens*	8	7	7	Good	Good	Growth competing with adjacent pine.	
67	aleppo pine *Pinus halepensis*	18	23	23	Good	Fair to Good	Large diameter trunk previously removed.	
68	eucalyptus *Eucalyptus* sp.	16@2'	14	15	Good	Fair	Multiple trunks with included bark.	Use reduction cuts to reduce amount of foliage on W-facing limb by 25%.
69	coast redwood *Sequoia sempervirens*	7	7	7	Fair	Fair	Top dead.	Remove dead wood at top.
70	red ironbark eucalyptus *Eucalyptus sideroxylon*	19	18	19	Good	Fair to Good		

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Laguna Creek Trail,City of Elk Grove
Camden South Spur Project #PT0121
Camden North Spur Project #WTL005
Tree Evaluation and Recommendations

To Accompany
Revised Tree Associates Report
Dated June 21, 2013

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71	red ironbark eucalyptus *Eucalyptus sideroxylon*	23@3'	24 est	24	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
72	red ironbark eucalyptus *Eucalyptus sideroxylon*	20	17 est	20	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
73	red ironbark eucalyptus *Eucalyptus sideroxylon*	8,17	20 est	20	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts. Codominant trunks with included bark.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.

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Laguna Creek Trail,City of Elk Grove
Camden South Spur Project #PT0121
Camden North Spur Project #WTL005
Tree Evaluation and Recommendations

To Accompany
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Dated June 21, 2013

Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
74	red ironbark eucalyptus *Eucalyptus sideroxylon*	20	24 est	24	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
75	red ironbark eucalyptus *Eucalyptus sideroxylon*	7,11	11	13	Good	Fair	Codominant trunks with included bark.	
76	red ironbark eucalyptus *Eucalyptus sideroxylon*	22	24 est	24	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts. Codominant trunks.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
77	red ironbark eucalyptus *Eucalyptus sideroxylon*	18	28 est	28	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.

* Driplines were estimated in some cases where fence prevented obtaining an accurate measurement.

Laguna Creek Trail,City of Elk Grove
Camden South Spur Project #PT0121
Camden North Spur Project #WTL005
Tree Evaluation and Recommendations

To Accompany
Revised Tree Associates Report
Dated June 21, 2013

Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
78	red ironbark eucalyptus *Eucalyptus sideroxylon*	18	24 est	24	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
79	eucalyptus *Eucalyptus* sp.	5,7,10,8,6,4,4,4	14	18	Good	Poor	All of trunks previously cut at approximately 4'. Stump sprouting with weak attachments.	Remove tree to prevent future structural problems.
80	aleppo pine *Pinus halepensis*	20	21	21	Good	Good	One of trunks previously removed.	
81	red ironbark eucalyptus *Eucalyptus sideroxylon*	8,6,7	12	12	Good	Poor to Fair	Multiple trunks with weak attachments.	
82	aleppo pine *Pinus halepensis*	21	23	23	Good	Fair	Codominant trunks with included bark. Large trunk previously removed.	Use reduction cuts to reduce amount of foliage on SW-facing trunk by 25%.
83	red ironbark eucalyptus *Eucalyptus sideroxylon*	15	11	15	Good	Good		
84	aleppo pine *Pinus halepensis*	11	17	17	Good	Fair to Good	One of trunks previously removed.	

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85	red ironbark eucalyptus *Eucalyptus sideroxylon*	22	15	22	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
86	aleppo pine *Pinus halepensis*	16	17	17	Good	Poor to Fair	Previously topped at 15'. Trunk bowed.	
87	aleppo pine *Pinus halepensis*	14,15	22	22	Good	Fair	Codominant trunks with included bark.	
88	eucalyptus *Eucalyptus* sp.	5,13,16	12	21	Good	Fair	Multiple trunks. One of trunks previously removed. Previous limb failure.	
89	aleppo pine *Pinus halepensis*	14	24	24	Good	Fair to Good	Two of trunks previously removed.	
90	red ironbark eucalyptus *Eucalyptus sideroxylon*	4,5,9	13	13	Good	Fair	Codominant trunks at base. One of trunks previously removed, stump-sprouts remain.	
91	red ironbark eucalyptus *Eucalyptus sideroxylon*	15@3',5,3	12	15	Good	Fair	Multiple trunks.	

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92	red ironbark eucalyptus *Eucalyptus sideroxylon*	19	14	19	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
93	red ironbark eucalyptus *Eucalyptus sideroxylon*	9,3,3	14	14	Good	Fair		
94	aleppo pine *Pinus halepensis*	10,11	22	22	Good	Fair	Codominant trunks.	
95	red ironbark eucalyptus *Eucalyptus sideroxylon*	20	18 est	20	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts. Codominant trunks.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
96	red ironbark eucalyptus *Eucalyptus sideroxylon*	14@4'	14	14	Good	Fair to Good		
97	aleppo pine *Pinus halepensis*	11	22	22	Fair to Good	Fair	Lower trunk previously removed. Trunk growing at angle. Injury 4' up trunk E-side. Asymmetrical canopy.	

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Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
98	red ironbark eucalyptus *Eucalyptus sideroxylon*	18@4'	24	24	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts. Codominant trunks.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
99	red ironbark eucalyptus *Eucalyptus sideroxylon*	17	16	17	Good	Fair	Previously topped. Watersprouts with weak attachments sprouting from pruning cuts.	Either maintain tree at current height, or aerially inspect watersprouts at attachment points and remove or shorten as necessary.
100	aleppo pine *Pinus halepensis*	8,9	20	20	Good	Fair	Codominant trunks.	
101	red ironbark eucalyptus *Eucalyptus sideroxylon*	15	20	20	Good	Good		
102	coast redwood *Sequoia sempervirens*	8	8	8	Good	Good		Remove stakes. Provide irrigation ASAP or replace with more suitable species.

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103	coast redwood *Sequoia sempervirens*	6	8	8	Good	Good		Remove stakes. Provide irrigation ASAP or replace with more suitable species.
104	Mount Atlas pistache *Pistacia atlantica*	6,4	12	12	Good	Fair	Codominant trunks.	
105	oak *Quercus* sp.	9	18	18	Good	Good		Provide irrigation
106	oak *Quercus* sp.	9	15	15	Good	Good	Mulberry growing 2' away from trunk.	Remove mulberry. Provide irrigation.
107	oak *Quercus* sp.	5	11	11	Poor	Poor to Fair	Asymmetrical canopy due to dieback on side adjacent to neighboring trees.	Remove tree to allow 2 adjacent oaks sufficient room for growth.
108	oak *Quercus* sp.	14	22	22	Fair to Good	Good	Branch and twig dieback. Tallow and privet sprouting adjacent to trunk.	Crown clean. Provide irrigation. Remove privet and tallow.
109	oak *Quercus* sp.	8	16	16	Fair	Fair	Tallow abutting base of trunk. Branch and twig dieback.	Crown clean. Remove tallow, leave stump in place. Provide irrigation.

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Tree #	Species	Diameter (inches)	Dripline* (radius, feet)	Tree Protection Zone (radius, feet)	Health	Structure	Comments	Recommendations
110	coast redwood *Sequoia sempervirens*	11	8	8	Poor to Fair	Good	Some branches dead.	Remove dead branches. Provide irrigation ASAP or replace with more suitable species.
111	coast redwood *Sequoia sempervirens*	10	9	9	Poor to Fair	Good	Some branches dead.	Remove dead branches. Provide irrigation ASAP or replace with more suitable species.
112	arroyo willow *Salix lasiolepis*	14@2'	11	13	Poor	Poor	Center of tree dead. Boring insect activity at base of center primary limbs.	Replace tree.
113	arroyo willow *Salix lasiolepis*	6,5,7@3'	13	13	Poor to Fair	Fair	Multiple trunks. Branch and twig dieback.	Crown clean.
114	western cottonwood *Populus fremontii*	7	8	8	Good	Good		Remove stakes.
115	western cottonwood *Populus fremontii*	6	8	8	Good	Good		Remove stakes.
116	arroyo willow *Salix lasiolepis*	12@3'	15	15	Poor to Fair	Poor to Fair	Multiple trunks. Extensive branch and twig dieback.	Crown clean or replace tree.
117	arroyo willow *Salix lasiolepis*	12@1'	12	12	Fair	Fair	Some twig dieback. Tallow tree growing through middle of canopy.	Remove tallow, leave stump in place.

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118	western cottonwood *Populus fremontii*	7	9	9	Good	Good		Remove stakes.
119	arroyo willow *Salix lasiolepis*	7	9	9	Poor to Fair	Fair	Extensive branch and twig dieback.	Crown clean or replace tree. Remove stakes.
120	arroyo willow *Salix lasiolepis*	7,7,4,5	17	17	Fair	Fair	Multiple trunks. Some twig dieback.	Remove stakes.
121	western cottonwood *Populus fremontii*	8	9	9	Good	Good		Remove stake tie.
122	white mulberry *Morus alba*	10@18"	12	12	Fair	Fair	Multiple trunks. Twig dieback.	Crown clean.
123	western cottonwood *Populus fremontii*	15,6	16	16	Fair	Fair	Branch and twig dieback.	Crown clean. Remove smaller trunk.
124	western cottonwood *Populus fremontii*	15,6	15	16	Fair	Fair	Twig dieback.	Crown clean.
125	trident maple *Acer buergerianum*	3	7	7	Good	Good		Remove stakes.
126	scarlet oak *Quercus coccinea*	22	29	29	Good	Good	Standing water around base of tree.	Repair irrigation, irrigate no more than 3x week.
127	*Koelreuteria* sp.	9	16	16	Poor to Fair	Poor	Half of canopy dead. Mushrooms growing near base of trunk.	Replace tree.

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128	maple *Acer* sp.	18@3.5'	29	29	Good	Good	Codominant trunks with included bark. Trunk engulfing beaver fence. Standing water around trunk.	Move beaver fence back. Repair irrigation, irrigate no more frequently than 3x week.
129	maple *Acer* sp.	17	27	27	Good	Good		
130	trident maple *Acer buergerianum*	8	13	13	Good	Good	Large diameter primary limb with included bark.	Use reduction cuts to reduce amount of foliage on lowermost primary limb by 25%.
131	scarlet oak *Quercus coccinea*	17	27	27	Good	Good		
132	Goodding's black willow *Salix gooddingii*	25@2.5'	27	27	Fair to Good	Fair	Codominant trunks. Branch dieback.	Crown clean.
133	silver maple *Acer saccharinum*	8	16	16	Good	Fair	Codominant leaders. Root damage likely from mower equipment.	Subdue north-facing leader.
134	silver maple *Acer saccharinum*	8	13	13	Good	Fair	Codominant leaders. Root damage likely from mower equipment.	Subdue north-facing leader.
135	silver maple *Acer saccharinum*	9	16	16	Good	Fair	North-facing primary limb with narrow attachment and included bark.	Use reduction cuts to reduce length of north-facing primary limb by 25%.

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136	silver maple *Acer saccharinum*	11	20	20	Good	Fair	Multiple trunks at 10'. Surface root wounds likely from mowing equipment.	
137	silver maple *Acer saccharinum*	10	17	17	Good	Fair	Multiple trunks at 6'.	
138	scarlet oak *Quercus coccinea*	14	22	22	Good	Good		
139	scarlet oak *Quercus coccinea*	8	21	21	Good	Good		
140	scarlet oak *Quercus coccinea*	10	17	17	Good	Good		
141	arroyo willow *Salix lasiolepis*	6,4,6,5,4,4, 4,3,3	26	26	Fair to Good	Fair	Multiple trunks at base.	
142	arroyo willow *Salix lasiolepis*	6,6,4,5,5,4	21	21	Good	Fair	Multiple trunks at base.	
143	Goodding's black willow *Salix gooddingii*	4,8,5,7,5,3	18	18	Fair to Good	Poor to Fair pending further inspection	Appears limbs may originate from prostrate trunk. Multiple trunks.	Root crown inspection to ensure adequate anchorage or remove tree if target will be near.
144	Goodding's black willow *Salix gooddingii*	14,16@3.5'	22 est.	22	Fair	Fair	Codominant trunks. Branch dieback.	Crown clean.

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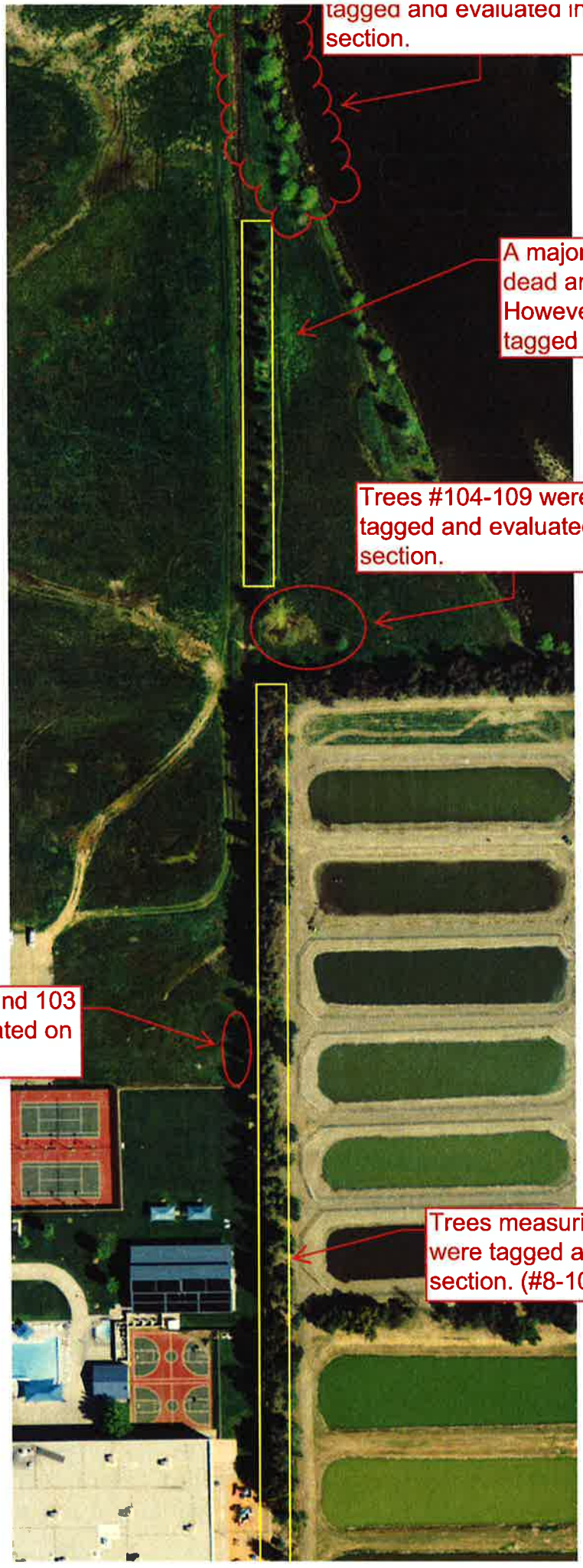
tagged and evaluated in this section.
A majority of these coast redwoods dead and therefore not evaluated. However, there were two live trees tagged and evaluated (#110 and 11
Trees #104-109 were tagged and evaluated in this section.
Coast redwoods #102 and 103 were tagged and evaluated on W-side of fence.
Trees measuring > 6" in diameter were tagged and evaluated in this section. (#8-101)

CITY OF ELK GROVE

LAGUNA CREEK TRAIL-CAMDEN SPUR

PRELIMINARY DELINEATION OF WETLANDS AND WATERS OF THE US

Prepared by:

PMC®

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Prepared for:

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

February 2014

PMC biologist Leslie Parker, on behalf of the City of Elk Grove, conducted a formal delineation (JD) of waters of the United States (WoUS) on the ±23-acre Laguna Creek Trail-Camden Spur project study area (PSA) (**Figure 1**). A large portion of the PSA was previously delineated in 2010 and verified by the US Army Corps of Engineers (Corps, **Appendix A**). The project extent has been expanded since the 2010 delineation; therefore, the purpose of this JD was to reverify the work done in 2010 and to map the aquatic features in the remaining portions of the PSA. The JD and reverification were conducted on December 11, 2013, in accordance with the methodologies outlined in the Corps regulatory guidance letter regarding *Ordinary High Water Mark Identification* (2005), the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987), and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (Environmental Laboratory 2008).

This report presents the findings of a review of available literature and soil survey data, along with the results and analysis of field data collected during the field investigation. Four types or classes of WoUS were identified, mapped, and evaluated on the proposed project site. These features are depicted on **Figure 4** and include three perennial streams (P-1 through P-3), three man-made ditches (D-1 through D-3), one lake (OW-1), and one seasonal wetland (SW-1).

This JD is subject to verification by the Corps. PMC advises all parties to treat the information contained herein as preliminary until the Corps provides written verification of the extent of their jurisdiction on-site.

TABLE OF CONTENTS

FIGURES

TABLES

The purpose of this preliminary delineation (JD) is to describe the existing biological environment, summarize the results of the data collected during the field investigation, and discuss the extent of wetlands and other waters of the United States (WoUS) within the project study area (PSA).

PROJECT LOCATION

The ±23-acre PSA is located in the north-central part of Elk Grove, in Sacramento County, California (**Figure 1**). The PSA includes the project's limits of disturbance as well as a buffer that was created based on standard buffers associated with special-status species that have the potential occur in the vicinity of the PSA (**Figure 2**). The PSA is located in Section 25, Township 07 North, Range 05 East, on the Florin, California, US Geological Survey (USGS) 7.5-minute quadrangle. More specifically, the PSA is located north of Bond Road and south of Sheldon Road, between State Route (SR) 99 and Elk Grove Florin Road. Surrounding land uses include residential neighborhoods and parks, commercial uses, and an office of the Sacramento-Yolo County Mosquito and Vector Control District. The open grasslands west of the central portion of the PSA are the only undeveloped area surrounding the PSA.

PROJECT DESCRIPTION

At nearly 3 miles, the Laguna Creek Trail is one of the longest trail segments through Elk Grove and connects several regional trails. The Laguna Creek Trail-Camden Spur project, from Bond Road to Whitehouse Creek, is part of a citywide effort to provide alternative transportation options, close trail gaps, improve regional and local bicycle/pedestrian routes, and increase safety along busy traffic corridors. Connectivity and access is limited for pedestrians and bicyclists traveling west on the Laguna Creek Trail. There is currently a large gap in the trail between Bond Road and the Camden and Sheldon Passage neighborhoods. The project proposes to close this gap and improve safety.

PROJECT SETTING

TOPOGRAPHY

The PSA is located in the Central Valley between the Sacramento and Cosumnes rivers. Site topography is generally flat across the property and ranges from 32 feet above mean sea level (amsl) to 40 feet amsl.

HYDROLOGY

The PSA is part of the Lower Sacramento hydrologic unit (HUC 18020109). All waterways in the PSA drain into Laguna Creek, which flows east to west through the PSA. Whitehouse Creek, which flows along the northern edge of the PSA, connects with Laguna Creek off-site to the west. Laguna Creek flows westerly and eventually drains into Morrison Creek, which flows into

the Sacramento River. Three perennial streams, three man-made ditches, one lake, and one seasonal wetland feature were mapped within the PSA. Man-made Shortline Lake lies west of the PSA. It appears that Whitehouse Creek historically flowed directly west, but when the lake was constructed, the creek was redirected and now bypasses the lake.

SOILS

The Natural Resources Conservation Service's (2013a) Web Soil Survey identifies five mapped soil units within the PSA. Each soil type is described below. The San Joaquin silt loam soil types are considered hydric in Sacramento County (NRCS 2013b). A soil map of the PSA is presented at the bottom of the wetland delineation map (**Figure 4**).

Bruella sandy loam, 0 to 2 percent slopes. This is a well-drained soil that occurs on terraces between 30 and 150 feet amsl. The depth to the restrictive feature is estimated to be more than 80 inches. This soil type is derived from alluvium derived from granite.

San Joaquin silt loam, leveled, 0 to 1 percent slopes. This is a moderately well drained soil that occurs on terraces between 20 and 500 feet amsl. The depth to the restrictive feature (duripan) is estimated to be between 28 and 54 inches. This soil type is derived from alluvium derived from granite. This is considered a hydric soil in Sacramento County.

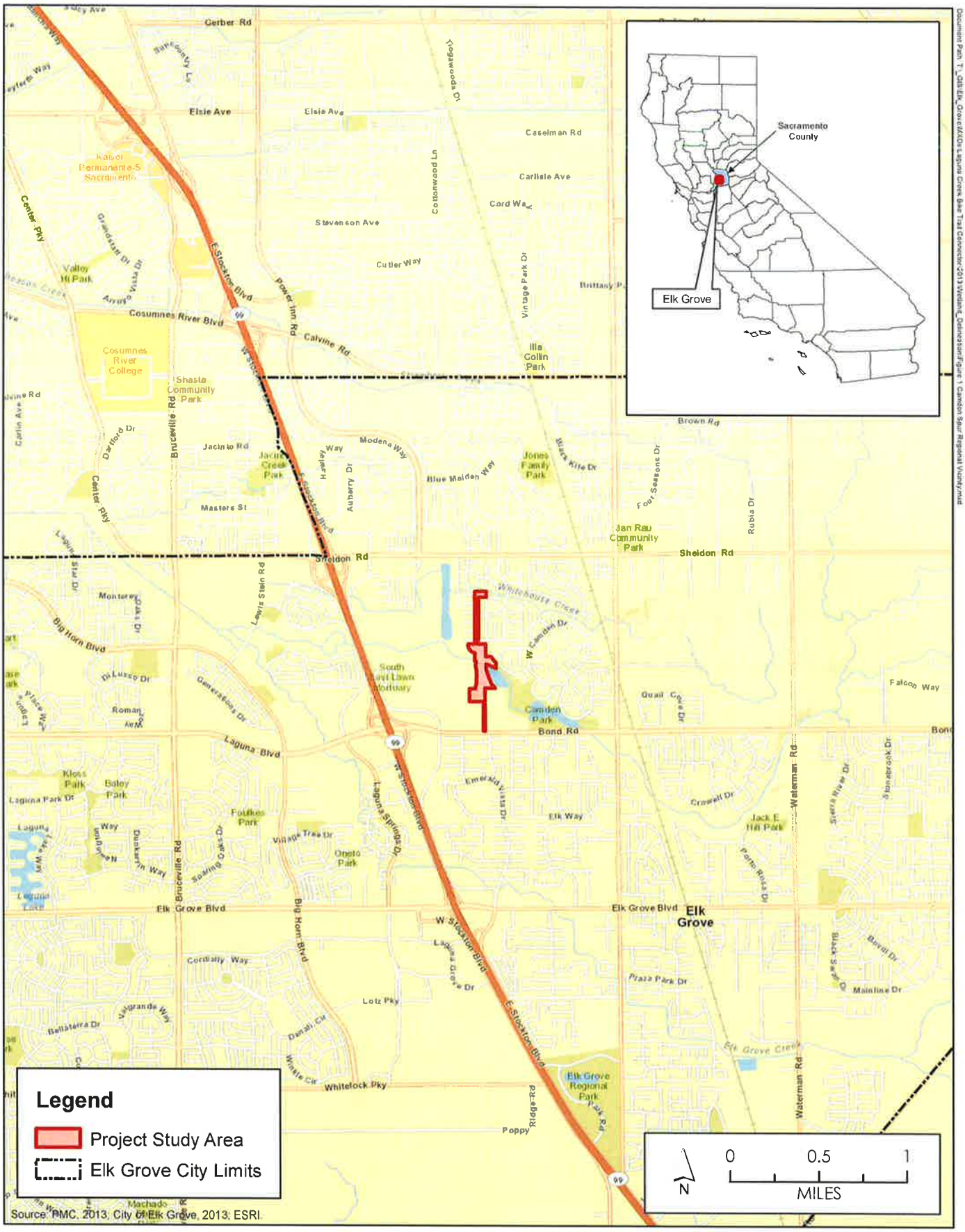
San Joaquin silt loam, 0 to 3 percent slopes. Same as above.

San Joaquin silt loam, 3 to 8 percent slopes. Same as above.

Water. This is associated with the open water of Camden Lake.

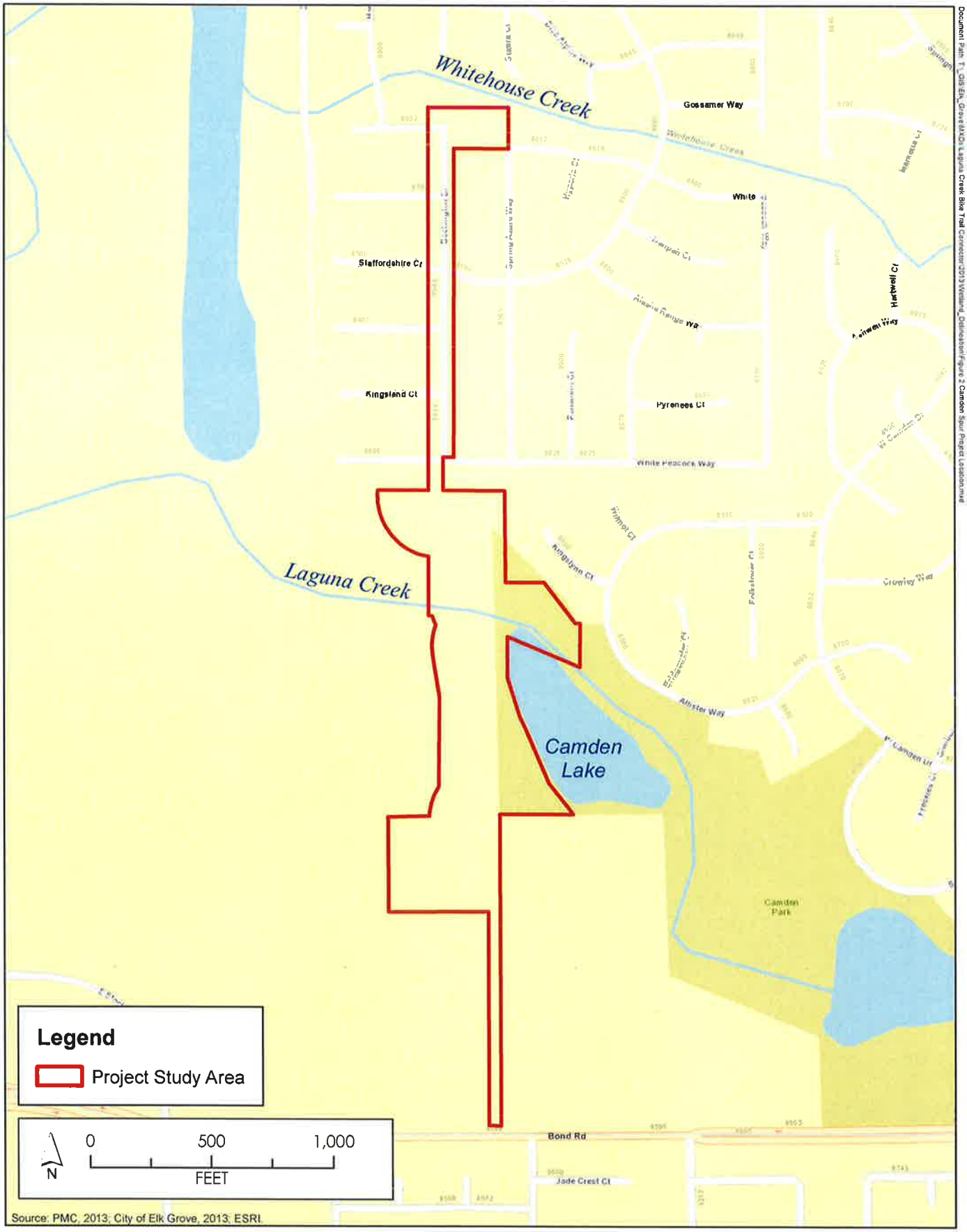
CLIMATE

The PSA is characterized by a Mediterranean climate with warm to hot, dry summers and cool, wet, rainy winters. Average annual air temperature ranges from 58°F to 62°F. Average precipitation is approximately 10 to 25 inches per year and falls primarily as rain. The average freeze-free period is approximately 250 to 300 days (Goudey and Miles 1998).



City of Elk Grove
Development Services

Figure 1
Regional Vicinity



City of Elk Grove
Development Services

Figure 2
Project Location

VEGETATIVE COMMUNITIES

Vegetative communities are assemblages of plant species that occur in the same area and are defined by species composition and relative abundance. The PSA is characterized by three vegetative communities: urban, annual grassland, and aquatic features (**Figure 3**). Each cover type is described below and is based on descriptions obtained from the CDFW's (2013) *A Guide to Wildlife Habitats of California*.

URBAN

Urban areas within the PSA include parking lots, roads, residential neighborhoods, and Camden Park, as well as portions of California Family Fitness in the southern portion of the PSA. Camden Park is characterized by a lawn ground cover and has been landscaped with a mix of native and ornamental trees including several varieties of oak (*Quercus* sp.), pine (*Pinus* sp.) and willow (*Salix* sp.). Ornamental trees line the streets in the residential areas.

Because of the high degree of disturbance, developed areas generally have a low habitat value for wildlife; however, migratory birds may nest in the trees and shrubs. Camden Park is used by migratory birds that are drawn to Camden Lake, such as Canada geese (*Branta* sp.).

ANNUAL GRASSLAND

Annual grassland habitats are open grasslands dominated by annual plant species found from the flat plains of the Central Valley to the coastal mountain ranges of Mendocino County and in scattered locations across the southern portion of the state. Species typically associated with this community include wild oats (*Avena* spp.), soft chess (*Bromus hordeaceus*), ripgut brome (*Bromus diandrus*), red brome (*Bromus madritensis* ssp. *rubens*), wild barley (*Hordeum* spp.), foxtail fescue (*Vulpia myuros*), bradleaf filaree (*Erodium botrys*), redstem filaree (*Erodium cicutarium*), turkey mullein (*Croton setigerus*), true clovers (*Trifolium* spp.), bur clover (*Medicago* spp.), popcorn flower (*Cryptantha* spp.), and several other grasses and forbs.

In the PSA, this community is composed of primarily introduced species and includes Italian ryegrass (*Festuca perennis*), medusa head (*Elymus caput-medusae*), soft chess, barley, and wild oats (*Avena fatua*). Forbs are intermixed with the grasses and include cocklebur (*Xanthium strumarium*), mustards (*Brassica* sp.), spring vetch (*Vicia sativa*), yellow star-thistle (*Centaurea solstitialis*), and field bindweed (*Convolvulus arvensis*). The grassland adjacent to Camden Lake has been planted with scattered valley oak (*Quercus lobata*) saplings. In addition, a row of planted redwood trees (*Sequoia sempervirons*) runs between Camden Lake and a long drainage ditch (D-2).

Annual grasslands provide foraging habitat for a wide variety of wildlife species, including raptors, seed-eating birds, small mammals, amphibians, and reptiles. However, some require special habitat features such as cliffs, caves, ponds, or habitats with woody vegetation for breeding, resting, and escape cover. Reptiles commonly associated with this habitat type include western fence lizard (*Sceloporus occidentalis*), common garter snake (*Thamnophis sirtalis*), and western rattlesnake (*Crotalis viridis*). Black-tailed jackrabbit (*Lepus californicus*), California ground squirrel (*Otospermophilus beecheyi*), western harvest mouse (*Reithrodontomys megalotis*), Botta's pocket gopher (*Thomomys bottae*), California vole (*Microtus californicus*), badger (*Taxidea taxus*), and coyote (*Canis latrans*) are mammals commonly found in this habitat type. Common birds known to breed in annual grasslands are burrowing owl (*Athene cunicularia*), short-eared owl (*Asio flammeus*), horned lark (*Eremophila alpestris*), and western meadowlark (*Sturnella neglecta*). The row of planted redwood trees provides suitable nesting habitat for migratory birds. A pair of white-tailed kites was observed in these trees during the site visit on December 11, 2013.

AQUATIC FEATURES

Four aquatic classifications occur in the PSA: perennial stream, drainage ditch, seasonal wetland, and open water (**Figure 4**). Stream and ditch habitats are characterized by intermittent to continually flowing water. Streams typically originate at some elevated source, such as a spring or lake, and flow downhill at a rate relative to the slope or gradient and to the volume of surface water runoff or discharge. Flow velocities generally decline as the stream descends in elevation, and the volume of water increases until the stream flattens out at lower elevations. The transition from a high-gradient, high-flow stream to a low-gradient, low-flow river results in increases in water temperature and turbidity, while dissolved oxygen decreases and the bed material transitions from rock to mud. Wetland habitats are characterized by saturated or periodically flooded soils. They are commonly found on level or gently rolling topography, but can occur virtually anywhere provided there is a periodically flooded/saturated depression.

Perennial Streams

The perennial streams in the PSA are characterized by dense riparian and emergent vegetation. Common species associated with these features include red willow (*Salix laevigata*), narrowleaf willow (*Salix exigua*), Fremont's cottonwood (*Populus fremontii*), Himalayan blackberry (*Rubus armeniacus*), common cattail (*Typha latifolia*), tall flatsedge (*Cyperus eragrostis*), and bulrush (*Schoenoplectus* sp.). A portion of the mapped area of Whitehouse Creek (P-3) is the overflow channel and has notably less riparian vegetation due to its short hydroperiod.


Shortline Ln
Sheldon Creek Dr
Beckington Dr
Shortline Lake
Spring Azure Way
White Peacock Way
Laguna Creek
Allister Way
Camden Lake


SW-1
P-2
P-1
D-1
D-3
D-2
OW-1
I184
4254384
4254584
4254784
4254984

Drainage Ditches

Herbaceous species dominate in the ditch channels and along their banks. Common species include spreading rush (*Juncus patens*), tall flatsedge, fiddle dock (*Rumex pulcher*), curly dock (*Rumex crispus*), Bermuda grass (*Cynodon dactylon*), tall annual willow-herb (*Epilobium brachycarpum*), bulrush, dove's foot geranium (*Geranium molle*), and English plantain (*Plantago lanceolata*).

Seasonal Wetlands

Seasonal wetlands are defined by a hydrologic regime that is dominated by saturation, rather than inundation. Seasonal wetlands inundate for short time periods following a storm event but the primary hydrologic regime is one of saturation. Plant species found within seasonal wetlands are adapted to withstand short periods of inundation. The seasonal wetland was observed to contain species such as curly dock, popcorn flower, coyote thistle (*Eryngium* sp.), smooth goldfields (*Lasthenia glaberrima*), and vernal pool buttercup (*Ranunculus bonariensis* var. *trisepalis*). There was also some encroachment of species from the surrounding uplands, including soft chess, Italian rye grass, medusa head, and barley.

Open Water

Camden Lake is bordered by emergent vegetation that is dominated by spreading rush. Other common species include cattail, bulrush, Bermuda grass, and dallis grass (*Paspalum dilatatum*).

FIELD INVESTIGATION

This wetland delineation and reverification was conducted by PMC biologist Leslie Parker on December 11, 2013. The delineation used the Routine Determination Method as described in the *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* (Environmental Laboratory 2008) and the Corps' regulatory guidance letter regarding *Ordinary High Water Mark Identification*. For areas where the 1987 Manual and the supplement differ, the supplement was followed.

Three positive wetland parameters must normally be present for an area to meet wetland criteria: (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, as well as soils and hydrology, were assessed at two points: one inside the observed wetland boundary and one outside the observed wetland boundary. Data collected at each point was recorded on a Wetland Determination Data Form – Arid West Region (**Appendix B**). Data from the 2010 delineation can be found in **Appendix A**.

VEGETATION

Dominant plant species within each wetland or other jurisdictional water and the adjacent uplands were identified to species using standard floras (UC Berkeley 2013). Each plant species was then assigned a wetland indicator status based on the Corps' 2013 National Wetland Plant List website (Version 3.1) and the data recorded on the datasheets for each sample point (**Appendix B**).

The NRCS assigns indicator statuses to designate a plant species' likelihood of occurrence in wetlands or uplands. The definition of each indicator status and the status codes are presented in **Table 1**. A hydrophyte is a plant species that possesses physiological traits which allow them to grow and persist in soils subject to inundation and anaerobic soil conditions.

TABLE 1: WETLAND INDICATOR STATUS

Code	Indicator Status	Definition
OBL	Obligate Wetland	Almost always is a hydrophyte, rarely in uplands
FACW	Facultative Wetland	Usually is a hydrophyte but occasionally found in uplands
FAC	Facultative	Commonly occurs as either a hydrophyte or non-hydrophyte
FACU	Facultative Upland	Occasionally is a hydrophyte but usually occurs in uplands
UPL	Upland	Rarely is a hydrophyte, almost always in uplands

HYDROLOGY

Hydrologic conditions were evaluated at each data point and positive indicators of wetland hydrology recorded on the datasheets (**Appendix B**). Wetland hydrology was determined at each data point by the presence of one or more of the following primary and/or secondary indicators: visual observation of inundation, biotic crust, sediment deposits, flow or drift accumulations at channel margins, channel flow marks in beds, scouring, surface cracking, water staining, and drainage patterns (Corps 2008). Drainages with obvious bed and banks were characterized by noting vegetation, geomorphology (e.g., incision), and hydrologic characteristics and by measuring representative channel bank cross sections to obtain average bankfull width (i.e., ordinary high water mark) (Corps 2005).

SOILS

The NRCS's (2013a) Web Soil Survey was consulted to determine the on-site soil characteristics. In addition, the NRCS's (2013b) *Hydric Soils List for the United States* was reviewed to determine the recognized status of the on-site soils. Hydric soils are formed under conditions of saturation, flooding, or ponding that lasts long enough during the growing season to develop anaerobic conditions in the upper soil layer. Some common characteristics of hydric soils include

inundation, saturation, low chromas, redoximorphic features (or mottles), and manganese and iron concretions.

Soils were examined by digging at least an 18-inch-deep soil pit to document saturation, visible horizons, oxidized root channels, matrix color, and mottling. Soil matrix was characterized by moistening the soil with water and using the *Munsell Soil Color Charts* (1992) to classify the soils using three criteria: (1) hue; (2) value (lightness); and (3) chroma (color purity/saturation). Soil texture properties such as organic, mucky mineral, and mineral were also noted on the data forms (**Appendix B**).

MAPPING

Jurisdictional features were mapped using a Trimble Geo XT Global Positioning System (GPS). Supplemental materials utilized in the determination included aerial photographs, topographic maps, and data forms. These data and the ArcGIS 9.3 software program were then utilized to generate **Figure 4**.

JURISDICTIONAL ANALYSIS

The Corps and the Environmental Protection Agency (EPA) issued guidance related to the Rapanos decision in the *Jurisdictional Determination Form Instructional Guidebook* (hereinafter referred to as the JD Guidebook) (Corps 2007). The Rapanos-Carabell consolidated decisions addressed several issues including the question of jurisdiction over non-Relatively Permanent Waters (RPWs). The agencies will typically assert jurisdiction over the following waters: (1) traditional navigable waters (TNW); (2) all wetlands adjacent to TNWs; (3) RPWs that are non-navigable tributaries to TNWs and have relatively permanent flow or seasonally continuous flow (typically three months); and (4) wetlands that directly abut jurisdictional RPWs (Corps 2007). Case-by-case investigations are usually conducted by the agencies to ascertain whether there is a significant nexus to a TNW for waters that are non-navigable tributaries and do not contain relatively permanent or seasonal flow, wetlands adjacent to the aforementioned features, and wetlands adjacent to but not directly abutting RPWs (Corps 2007). Jurisdiction is not generally asserted over swales or erosional features (e.g., gullies or small washes characterized by low-volume/short-duration flow events) or over ditches constructed wholly within and draining only uplands that do not have relatively permanent flows (Corps 2007).

Eight potentially jurisdictional features were identified within the PSA (**Figure 4**) including three perennial streams, three man-made ditches, one lake, and one seasonal wetland. Two of the man-made ditches (D-1 and D-3) were constructed wholly within uplands, provide catchment for runoff from adjacent roads, and do not show signs of regular inundation. As a result, these features do not appear to meet the guidelines outlined in the JD Guidebook (Corps 2007). All other features have a direct or indirect hydrologic connection to Laguna Creek, a tributary to

the Sacramento River that meets the Corps definition of traditional navigable waters (Corps 2007). Therefore, it is PMC's opinion that the three perennial streams, one man-made ditch (D-2), one lake, and one seasonal wetland would be considered WoUS and subject to Clean Water Act (CWA) regulations. **Table 2** provides a summary of these features. Photos of these features can be found in **Appendix C**.

TABLE 2: SUMMARY OF POTENTIALLY JURISDICTIONAL FEATURES

Map ID	Feature Type	Length (ft)	Acreage	Jurisdictional
P-1	perennial	490	0.391	Yes
P-2	perennial	335	0.480	Yes
P-3	perennial	90	0.366	Yes
D-1	ditch	190	0.015	No
D-2	ditch	980	0.226	Yes
D-2	ditch	100	0.009	No
OW-1	open water	N/A	0.539	Yes
SW-1	seasonal wetland	N/A	0.022	Yes
Totals		**2,185**	**2.048**	
Total Jurisdictional		**1,895**	**2.024**	

CONCLUSION

This preliminary JD concludes that a total of 1,895 linear feet of jurisdictional streams and ditches, 0.539 acre of open water, and 0.022 acre of seasonal wetland could be considered waters of the United States within the PSA, while 290 linear feet of man-made ditches do not meet the characteristics of waters subject to CWA regulations. The Corps has final authority over the extent of wetlands and other WoUS under their jurisdiction, determination of area affected by the project, and the type of permits and conditions required. Based on the jurisdictional analysis above, it is the opinion of PMC biologists that 2.024 acres of on-site aquatic features meet the jurisdictional criteria set forth by the Corps and the EPA.

This preliminary JD report documents the limits of all aquatic features and the best professional judgment of PMC biologists. All conclusions presented should be considered preliminary and subject to change pending official review and verification in writing by the Corps.

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DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO CA 95814-2922

REPLY TO
ATTENTION OF

February 11, 2011

Regulatory Division SPK-2011-00034

City of Elk Grove
Attn: Ms. Jeanette Owen
8401 Laguna Palms
Elk Grove, California 95758

Dear Ms. Owen:

We are responding to your November 15, 2010 request for an approved jurisdictional determination for the Laguna Creek Bike Trail Connector project. The approximately 6.87-acre site is located north of Bond Road, south of Sheldon Road, east of State Route 99, and west of Elk Grove-Florin Road, in Section 25, Township 7 North, Range 5 East, Mount Diablo Meridian, Latitude 38.42851° North, Longitude 121.38610° West, City of Elk Grove, Sacramento County, California.

Based on available information, **we concur with the estimate of waters of the United States, as depicted on the enclosed updated December 15, 2010 *Figure 6: Delineation of Wetlands and Waters of the U.S. for the Laguna Creek Bike Trail Connector* drawing prepared by the City of Elk Grove.** Approximately 0.61 acres of waters of the United States, including wetlands, are present within the survey area. These waters are identified as PC-1, PC-2 and SW-1 on the above drawing. These waters are regulated under Section 404 of the Clean Water Act, as they consist of Laguna Creek and adjacent wetlands, which are tributary to the Morrison Creek, a tributary to the Sacramento River, a traditional navigable water.

The 0.120-acre waters identified as FEW-1 and SW-2 on the above drawing are intrastate isolated waters with no apparent interstate or foreign commerce connection. As such, these waters are not currently regulated by the Corps of Engineers. This disclaimer of jurisdiction is only for Section 404 of the Federal Clean Water Act. Other Federal, State, and local laws may apply to your activities. *In particular, you may need authorization from the California State Water Resources Control Board and/or the U.S. Fish and Wildlife Service.*

This verification is valid for five years from the date of this letter, unless new information warrants revision of the determination before the expiration date. This letter contains an approved jurisdictional determination for your subject site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331.

A Notification of Appeal Process and Request for Appeal (RFA) form is enclosed. If you request to appeal this determination you must submit a completed RFA form to the South Pacific Division Office at the following address: Administrative Appeal Review Officer, Army Corps of Engineers, South Pacific Division, CESPD-PDS-O, 1455 Market Street, San Francisco, California 94103-1399, Telephone: 415-503-6574, FAX: 415-503-6646.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the NAP. Should you decide to submit an RFA form, it must be received at the above address by 60 days from the date of this letter. It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this letter.

You should provide a copy of this letter and notice to all other affected parties, including any individual who has an identifiable and substantial legal interest in the property.

This determination has been conducted to identify the limits of Corps of Engineers' Clean Water Act jurisdiction for the particular site identified in this request. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

We appreciate your feedback. At your earliest convenience, please tell us how we are doing by completing the customer survey on our website under *Customer Service Survey.*

Please refer to identification number SPK-2011-00034 in any correspondence concerning this project. If you have any questions, please contact Lisa Gibson at the letterhead address, email *Lisa.M.Gibson2@usace.army.mil*, or telephone 916-557-5288. For more information regarding our program, please visit our website at *www.spk.usace.army.mil/regulatory.html*.

Sincerely,

Kathleen A. Dadey, PhD
Chief,
California Delta Branch

Enclosure(s)

Copy furnished without enclosure(s)

Mr. Taro Echiburu, 8401 Laguna Palms Way, Elk Grove, California 95758

Quality Certification Unit, Central Valley Regional Water Quality Control Board, 11020 Sun Center Drive #200, Rancho Cordova, California 95670-6114

Water Quality Certification Unit, California State Water Resources Control Board, 1001 I Street, Sacramento, California 95814-2828

Wetland Section Chief (W-8), United States Environmental Protection Agency, 75 Hawthorne Street, San Francisco, California 94105

California Department of Fish and Game, 1701 Nimbus Road, Rancho Cordova, CA 95670-4503

Sacramento Valley Branch, Endangered Species Division, U.S. Fish and Wildlife Service, 2800 Cottage Way, Suite W2605, Sacramento, California 95825-3901

2010

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

C. PROJECT LOCATION AND BACKGROUND INFORMATION:
State: County/parish/borough: City:
Center coordinates of site (lat/long in degree decimal format): Lat. 38* 25' 50.248" ° N, Long. 121* 23' 8.289" ° W.
Universal Transverse Mercator:
Name of nearest waterbody:
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows:
Name of watershed or Hydrologic Unit Code (HUC):
☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
☐ Office (Desk) Determination. Date:
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Pick List** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]
☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Pick List** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☒ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☒ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet: width (ft) and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Established by OHWM.**
      Elevation of established OHWM (if known): 34 feet.

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
   Explain: .

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. **TNW**
   Identify TNW:

   Summarize rationale supporting determination:

2. **Wetland adjacent to TNW**
   Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. **Characteristics of non-TNWs that flow directly or indirectly into TNW**

   (i) General Area Conditions:
   Watershed size: Laguna Creek Watershed - 21,176 **acres**
   Drainage area: **Pick List**
   Average annual rainfall: 22 inches
   Average annual snowfall: 0 inches

   (ii) Physical Characteristics:
   (a) Relationship with TNW:
   ☒ Tributary flows directly into TNW.
   ☐ Tributary flows through **Pick List** tributaries before entering TNW.

   Project waters are **Pick List** river miles from TNW.
   Project waters are **Pick List** river miles from RPW.
   Project waters are **5-10** aerial (straight) miles from TNW.
   Project waters are **Pick List** aerial (straight) miles from RPW.
   Project waters cross or serve as state boundaries. Explain:

   Identify flow route to TNW[5]: Downstream, Laguna Creek drains into the Stone Lakes Wildlife Refuge, where the water is pumped into the Sacramento River.

[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary stream order, if known: .

(b) General Tributary Characteristics (check all that apply):

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☒ Manipulated (man-altered). Explain: Directly outside the PSA to the east, Laguna Creek is artificially dammed.

Tributary properties with respect to top of bank (estimate):
Average width: 50 feet
Average depth: 0.5 feet
Average side slopes: **4:1 (or greater).**

Primary tributary substrate composition (check all that apply):

☒ Silts	☐ Sands	☐ Concrete
☐ Cobbles	☐ Gravel	☐ Muck
☐ Bedrock	☒ Vegetation. Type/% cover: Cattails and Bulrush (95%)	
☐ Other. Explain: .		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Stable.
Presence of run/riffle/pool complexes. Explain: None.
Tributary geometry: **Relatively straight**
Tributary gradient (approximate average slope): 5 %

(c) Flow:
Tributary provides for: **Seasonal flow**
Estimate average number of flow events in review area/year: **20 (or greater)**
Describe flow regime: The creek is perennial. PEC-1 has a seasonal flow whereas PEC-2 is perennial.
Other information on duration and volume: .

Surface flow is: **Confined.** Characteristics: .

Subsurface flow: **Unknown**. Explain findings: .
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
☒ Bed and banks
☒ OHWM[6] (check all indicators that apply):

☐ clear, natural line impressed on the bank	☒ the presence of litter and debris
☐ changes in the character of soil	☐ destruction of terrestrial vegetation
☒ shelving	☐ the presence of wrack line
☒ vegetation matted down, bent, or absent	☐ sediment sorting
☐ leaf litter disturbed or washed away	☐ scour
☒ sediment deposition	☐ multiple observed or predicted flow events
☒ water staining	☒ abrupt change in plant community
☐ other (list):	

☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by:	☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects	☐ survey to available datum;
☐ fine shell or debris deposits (foreshore)	☐ physical markings;
☐ physical markings/characteristics	☐ vegetation lines/changes in vegetation types.
☐ tidal gauges	
☐ other (list):	

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: .

[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

(iv) Biological Characteristics. Channel supports (check all that apply):

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☒ Wetland fringe. Characteristics: .
- ☒ Habitat for:
  - ☒ Federally Listed species. Explain findings: Possibly Giant Garter Snake.
  - ☐ Fish/spawn areas. Explain findings: .
  - ☒ Other environmentally-sensitive species. Explain findings: Western pond turtle and tri-colored blackbird.
  - ☒ Aquatic/wildlife diversity. Explain findings: Bullfrogs and mosquitofish observed.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

Wetland size: acres

Wetland type. Explain: .

Wetland quality. Explain: .

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain: .

Surface flow is: **Pick List**

Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

- ☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

- ☐ Directly abutting
- ☐ Not directly abutting
  - ☐ Discrete wetland hydrologic connection. Explain: .
  - ☐ Ecological connection. Explain: .
  - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Flow is from: **Pick List.**

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .

Identify specific pollutants, if known: .

(iii) Biological Characteristics. Wetland supports (check all that apply):

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   - ☐ TNWs: linear feet width (ft), Or, acres.
   - ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   - ☒ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:

Label	Feature	Acreage	Square Feet	Length	Width
PC-1	Perennial Creek	0.375	16,354	459.7	35.58
PC-2	Perennial Creek	0.213	9,290	144.5	64.29.

   - ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**
☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**
☒ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: **Seasonal Wetland (SW-1) is 0.022** acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**
☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.[9]**
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
☐ Demonstrate that impoundment was created from "waters of the U.S.," or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .

[8]See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] **Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.***

☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☐ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☐ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☒ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
☒ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☒ Non-wetland waters (i.e., rivers, streams): **man-made drainage ditch 191.5** linear feet, **3.48** width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☒ Wetlands: Fresh Emergent Wetland (FEW-1) - 0.109acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: .
☒ USGS NHD data.
☐ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Florin, California.
☒ USDA Natural Resources Conservation Service Soil Survey. Citation:USDA 1993.
☒ National wetlands inventory map(s). Cite name:USFWS.
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): GoogleEarth.
or ☒ Other (Name & Date):October 27, 2010.
☐ Previous determination(s). File no. and date of response letter: .
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☐ Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD:

JURISDICTIONAL ANALYSIS

Potential Jurisdictional Wetlands

The seasonal wetland (SW-1) that is located within the annual grassland seems to be connected via swale (a linear depression that does not exhibit wetland indicators) to Laguna Creek. Water temporarily ponds in the depressional seasonal wetland; wetland hydrology indicators such as surface soil cracks and saturation visible on aerial imagery (GoogleEarth June 29, 2007 and May 30, 2002) support this conclusion. A distinct demarcation of the boundary of the seasonal wetland is marked by an abrupt change in vegetation. Vegetation within the seasonal wetland included vernal pool buttercup (OBL), vernal pool popcorn flower (OBL), dense-flowered spike primrose (OBL), and curly dock (FACW-). These plants were dead during the survey but still identifiable. There was also some encroachment of turkey mullein (NI), Italian ryegrass (FAC*) and field bindweed (NOL) as the PSA was surveyed during the dry season. The surrounding uplands did not exhibit the wetland parameters and contained upland grasses.

The USACE and EPA issued guidance related to the Rapanos decision on June 5, 2007. The Rapanos-Carabell consolidated decisions addressed several issues including the question of jurisdiction in relation to non-RPWs. It was concluded that non-RPWs that have a significant nexus with a TNW, including non-navigable tributaries that do not typically flow year-round or have continuous flow at least seasonally; wetlands adjacent to such tributaries; and wetlands adjacent to but do not directly abut permanent, non-navigable tributary, may be considered waters of the U.S. A significant nexus can be determined to be present if the tributary, in combination with any adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical, and biological integrity of a TNW. Key considerations when evaluating significant nexus include volume, duration, and frequency of the flow of water in the tributary and the proximity of the tributary to the TNW, plus hydrologic, ecologic, and other functions related to the tributary and all of its adjacent wetlands.
A data point was taken approximately 90 feet to the north of SW-1. Tractor tires became stuck in the mud at some point and created a depression. Although the tire tracks contained surface water

Potential Other Waters of the United States

Perennial Creek

Laguna Creek is the only waters of the U.S. identified within the PSA. Laguna Creek, a perennial creek, flows through the PSA east to west. This feature has a defined bed and bank, and an ordinary high watermark making it a "waters of the U.S.". The extent of Laguna Creek within the PSA is 0.588 acre (25,644 linear feet). The majority of the creek within the PSA was choked with emergent wetland vegetation including common cattail and bulrush. There were some areas that contained seasonal wetland and riparian vegetation (see Figure 5). The OHWM was determined by the change in vegetation, local topographic relief, and shelving.

The perennial creek delineated within the PSA is Laguna Creek. Laguna Creek is considered a jurisdictional water feature per the USACE (many verified wetland delineations have designated Laguna Creek as such). Laguna Creek is a tributary to a USACE classified TNW (Sacramento River) beyond the PSA boundaries. It is therefore our opinion that this feature has a significant nexus to a TNW and therefore should be considered as a regulated feature under the Clean Water Act. A perennial creek with contiguous emergent wetland, seasonal wetland and riparian habitat was recorded within the PSA as a jurisdictional feature. The USACE typically takes jurisdiction over any creek features as well as decides on final authority over the extent of the feature, determination of area affected by the project, and type of permits and conditions required.

Non-jurisdictional Features

Drainage Ditch

A man-made drainage ditch flows from the south straight into Laguna Creek just west of the dam location within the PSA. This ditch lacks the vegetation requirements necessary to qualify it as an official wetlands per USACE standards. There is no ordinary high water mark in a portion of the ditch leading to the tributary, instead it has swale-like features (i.e., encroachment of grasses from the surrounding uplands). This man-made ditch was created by excavating uplands to relieve periodic flooding events in the adjacent residential subdivision created by blockages in the stormwater drain. Although this ditch drains into a tributary to Laguna Creek, after the Rapanos legal case, the USACE generally will not assert jurisdiction over ditches excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water.

Isolated Fresh Emergent Wetland

An isolated fresh emergent wetland (FEW-1) is located in between commercial buildings in the southern portion of the PSA. Although the water source was not clearly determined, it is assumed water either comes from a leaky irrigation pipe, over-irrigation of landscaped plants or runoff from the surrounding paved areas. No soil pit was dug at this location. Surface water was present and aerial photographs reveal saturation and inundation (GoogleEarth May 27, 2009 and April 6, 2010). Common cattails and willows were observed behind the commercial dumpster storage. Tall flatsedge, pale spikerush, and curly dock were located along the edges of the emergent wetland. The area was significantly disturbed. Soil seemed to be haphazardly dumped and overturned there. Garbage and debris surrounded the area. Historic areas revealed the strip of land in between the two commercial buildings were an old dirt driveway for a farm. The area is isolated from any other wetland or waters of the U.S. For this reason, the isolated fresh emergent wetland (FEW-1) is not considered jurisdictional. .

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Laguna Creek Bike Trail Connector Project City/County: Elk Grove, Sacramento County Sampling Date: October 27 2010

Applicant/Owner: City of Elk Grove State: CA Sampling Point: T1P1

Investigator(s): Angela Calderaro Section, Township, Range: Township 7 North, Range 5 East

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 0

Subregion (LRR): C - Mediterranean California Lat: 121* 23' 8.289" W Long: 38* 25' 50.248" N Datum: WGS 84

Soil Map Unit Name: San Joaquin Silt Loam, 0 to 3 Percent Slopes (214) NWI classification: None

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: According a near-by resident, the ditch was created by a City maintenance crew to alleviate the periodic flooding problems that occurred when the culvert to the tributary would periodically clog up and flood the stormwater system in the adjacent residential community. The ditch ends before it reaches the creek tributary.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *N/A*			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *N/A*			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Avena fatua*	50	Yes	UPL
2. *Brassica rapa*	5	No	UPL
3. *Lolium multiflorum*	45	No	FAC
4.			
5.			
6.			
7.			
8.			
Total Cover:	100 %		
Woody Vine Stratum			
1. *N/A*			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 0 % % Cover of Biotic Crust 0 %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (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	45	x 3 =	135
FACU species		x 4 =	0
UPL species	55	x 5 =	275
Column Totals:	100 (A)		410 (B)

Prevalence Index = B/A = 4.10

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: T1P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture[3]	Remarks
No								
Soil Pit								
Dug								

[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: None

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks:

The man-made ditch was excavated wholly in uplands and drains only uplands.

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): 1

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:

Aerial Photos

Remarks:

There were some areas of ponding due to recent rains.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Laguna Creek Bike Trail Connector Project | City/County: Elk Grove, Sacramento County | Sampling Date: October 27 2010

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: T2P1

Investigator(s): Angela Calderaro | Section, Township, Range: Township 7 North, Range 5 East

Landform (hillslope, terrace, etc.): Terrace | Local relief (concave, convex, none): Concave | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 121* 23' 7.687" W | Long: 38* 25' 48.673" N | Datum: WGS 84

Soil Map Unit Name: San Joaquin Silt Loam, 0 to 3 Percent Slopes (214) | NWI classification: None

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:

The data point was located in an area that had been carved out by tire tracks. Since soil hydric indicators were not present, this area was not delineated as a wetland.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix exigua*	5	No	OBL
2.			
3.			
4.			
Total Cover:	5 %		
Sapling/Shrub Stratum			
1. *Populus fremontii*	5	No	FACW
2.			
3.			
4.			
5.			
Total Cover:	5 %		
Herb Stratum			
1. *Typha latifolia*	95	Yes	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	95 %		
Woody Vine Stratum			
1. *N/A*			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 0 % | % Cover of Biotic Crust 0 %

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	100	x 1 =	100
FACW species	5	x 2 =	10
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	105 (A)		110 (B)

Prevalence Index = B/A = 1.05

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: T2P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture[3]	Remarks
No								
Soil Pit								
Dug.								

[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: None

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks:

The presence of hydric soil is assumed.

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): 4

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:

Aerial Photos

Remarks:

Mosquito Fish and Bullfrogs were present.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Laguna Creek Bike Trail Connector Project | City/County: Elk Grove, Sacramento County | Sampling Date: October 27 2010

Applicant/Owner: City of Elk Grove | State: CA | Sampling Point: T3P1

Investigator(s): Angela Calderaro | Section, Township, Range: Township 7 North, Range 5 East

Landform (hillslope, terrace, etc.): Terrace | Local relief (concave, convex, none): Concave | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 121* 23' 9.195" W | Long: 38* 25' 43.904" N | Datum: WGS 84

Soil Map Unit Name: San Joaquin Silt Loam, 0 TO 3 Percent Slopes (214) | NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [X] 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:

The data point was located in an area that had been carved out by tire tracks. Since soil hydric indicators were not present, this area was not delineated as a wetland.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. N/A			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. N/A			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Avena fatua*	10	No	UPL
2. *Rumex crispus*	2	No	FACW
3. *Lolium multiflorum*	70	Yes	FAC
4. *Brassica rapa*	5	No	UPL
5. *Taeniatherum caput-medusae*	10	No	UPL
6.			
7.			
8.			
Total Cover:	97 %		
Woody Vine Stratum			
1. N/A			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 3 % | % Cover of Biotic Crust 0 %

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	2	x 2 =	4
FAC species	70	x 3 =	210
FACU species		x 4 =	0
UPL species	25	x 5 =	125
Column Totals:	97 (A)		339 (B)

Prevalence Index = B/A = 3.49

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:

SOIL

Sampling Point: T3P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture[3]	Remarks
0-12"	7.5Y 3/3	100					Clay Loam	
12" = bottom of pit.								

[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: None

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks:

The soil did not exhibit any hydric soil indicators.

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): 3

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:

Aerial Photos

Remarks:

The area where the soil pit was dug exhibited few hydrology indicators.

STREAM CHARACTERIZATION DATA FORM

Project/Site: Laguna Creek Trail - North Camden Spur City/County: Elk Grove/Sacramento Sampling Date: 12/16/13

Applicant/Owner: City of Elk Grove State: CA Sampling Point: D-3

Investigator(s): Leslie Parker Section, Township, Range: 25, 07N, 05E

Subregion (LRR): C Lat: 4254371N Long: 640927E Datum: _____

Soil Map Unit Name: San Joaquin silt loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Remarks:
man-made, drains uplands, ends in culver which likely drains into D-2

STREAM CHARACTERIZATION

Stream Type: X Ephemeral _____ Intermittent _____ Perennial Stream Form Present _____ Pool(s) _____ Riffle(s) X Run(s)

Approximate: Water Depth 0 Feet Bank Full Width (OHWM) 2 Feet Stream Width (top of bank to top of bank) 4 Feet

Average: Height of channel banks 1 Left 1 Right Depth of pool(s) 0 Feet

Presence of logs and/or large woody debris in stream: X None _____ Occasional _____ Plentiful

Description of stream channel: _____ narrow, deep X narrow, shallow _____ wide, deep _____ wide, shallow

Stream Bottom			
	None	<50%	>50%
silt	X		
clay			X
mud	X		
sand		X	
gravel	X		
cobbles		X	
boulders	X		
bedrock	X		

Description that best fits the stream bank*		
left		right
	vertical/undercut	
	steeply sloped (>30%)	
X	gradual/no slope (<30%)	X

Water Appearance	
	clear
	milky
	foamy
	turbid
	light brown
	dark brown
	oily sheen
	orange
	greenish
	other:
X	none

Water Odor	
	sewage
	chlorine
	fishy
	rotten eggs
	organic
	other:
X	none

Extent to which vegetation shades the stream					
	0%	X	50%		100%
	25%		75%	other - ____ %	

VEGETATION – Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species (Y/N)	Indicator Status
Total % Cover	0		
Sapling/Shrub Stratum			
Total % Cover	0		
Herb Stratum			
Rumex crispus	4	N	FAC
Cyperus eragrostis	2	N	FACW
Avena fatua	30	Y	UPL
Festuca perennis	14	N	FAC
total % Cover	50		
% bare	50		

OW-1

Pond Field Data Form

Location/Project #: Laguna Creek Trail - North Camden Spur Date: 12/11/13 Client: City of Elk Grove

Pond Name: Camden Lakes Investigator(s): Leslie Parker

County: Sacramento UTM North (Lat): 4254672 N UTM West (Long): 640957 E

Compass Dir. to road: NE Approx. Distance to road: 170 ft In study area boundary? yes

Hydrologic connection to Waters of the U.S.? (yes) no

Description (circle one): (Permanent lake/pond) Temporary lake/pond Marsh/Bog Swamp/forest Other

Origin: Natural X Man-made ____ Unknown

Perimeter GPS data taken: (yes) no

Estimated pond depth: Approx. 12 Ft.

Primary Substrate: (Silt/Muck) Sand/Gravel Cobble Bedrock Other

% of Pond Margin with Emergent Vegetation: 0 1-25 25-50 50-75 (>75)

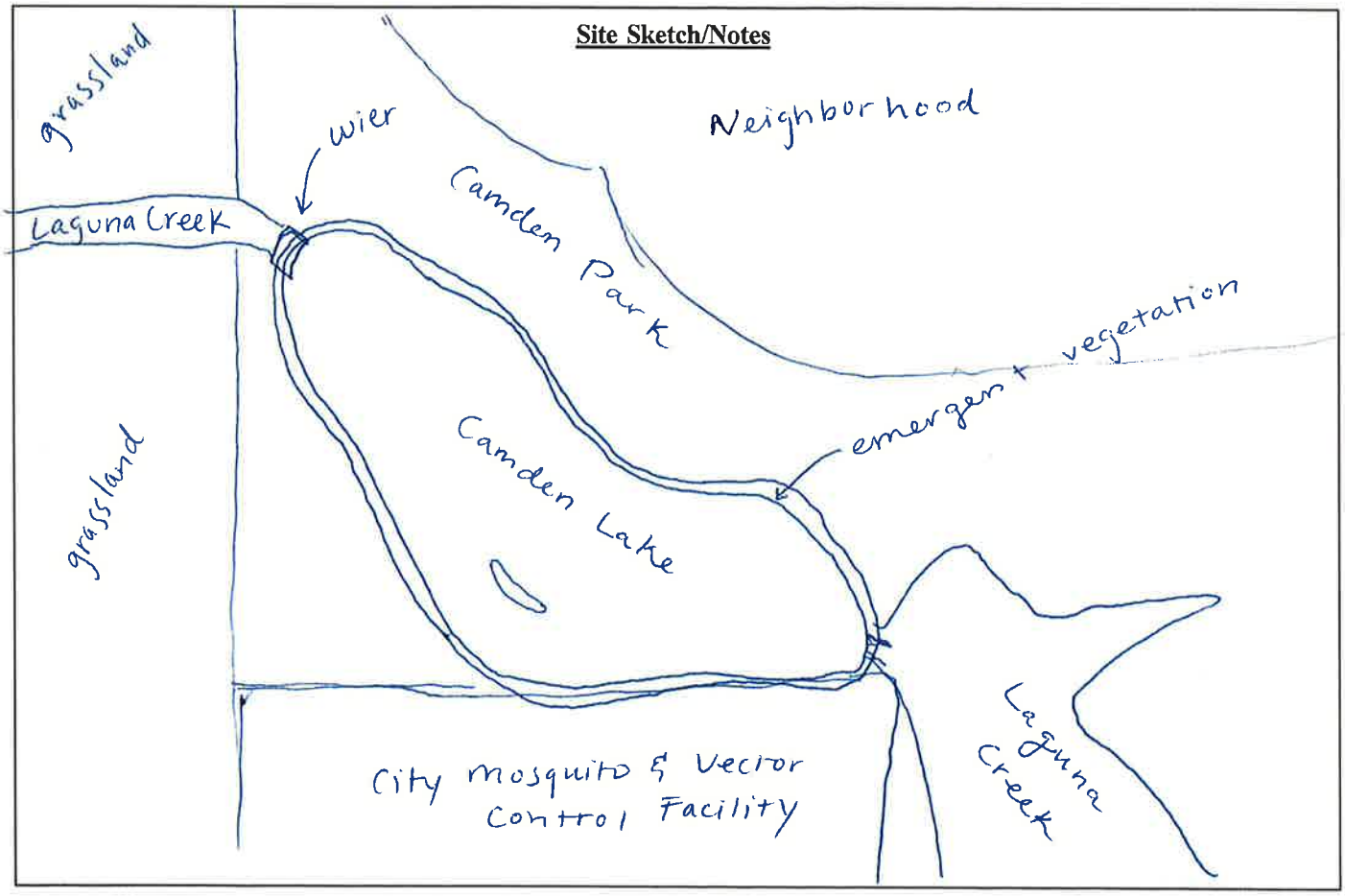
Within Forest? Yes (No)

Distance to Forest Edge: N/A Ft.

Surrounding landscape/Vegetation: landscaped park with lawn and mix of planted native & ornamental trees

Dominant species observed: Juncus patens, Typha latifolia, Schoenoplectus sp., Cynodon dactylon, Paspalum dilatatum, Ludwigia peploides

Site Sketch/Notes



STREAM CHARACTERIZATION DATA FORM

Project/Site: Laguna Creek Trail - North Camden Spur City/County: City Elk Grove / Sacramento County Sampling Date: 12/11/13

Applicant/Owner: City of Elk Grove State: CA Sampling Point: D-2

Investigator(s): Leslie Parker Section, Township, Range: 25, 07N, 05E

Subregion (LRR): C Lat: 42543 71N Long: 640927E Datum: _____

Soil Map Unit Name: San Joaquin silt loam & Bruella sandy loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Remarks:
man-made, begins at culvert

STREAM CHARACTERIZATION

Stream Type: _____ Ephemeral X Intermittent _____ Perennial Stream Form Present X Pool(s) _____ Riffle(s) X Run(s)

Approximate: Water Depth 0.25 Feet Bank Full Width (OHWM) 5 Feet Stream Width (top of bank to top of bank) 10 Feet

Average: Height of channel banks 3 Left 3 Right Depth of pool(s) 0.25 Feet

Presence of logs and/or large woody debris in stream: X None _____ Occasional ~~0.25~~ Plentiful

Description of stream channel: _____ narrow, deep X narrow, shallow _____ wide, deep _____ wide, shallow

Stream Bottom			
	None	<50%	>50%
silt		X	
clay		X	
mud			X
sand			
gravel	X		
cobbles	X		
boulders	X		
bedrock	X		

Description that best fits the stream bank*		
left		right
	vertical/undercut	
X	steeply sloped (>30%)	X
	gradual/no slope (<30%)	

Water Appearance	
X	clear
	milky
	foamy
X	turbid
	light brown
	dark brown
	oily sheen
	orange
	greenish
	other:
	none

Water Odor	
	sewage
	chlorine
	fishy
	rotten eggs
	organic
	other:
X	none

Extent to which vegetation shades the stream					
	0%		50%		100%
	25%		75%	other - 90 %	

VEGETATION – Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species (Y/N)	Indicator Status
Total % Cover	0		
Sapling/Shrub Stratum			
Total % Cover	0		
Herb Stratum			
Juncus patens	40	Y	FACW
Cyperus eragrostis	40	Y	FACW
Rumex pulcher	1	N	FAC
Typha latifolia	1	N	OBL
Festuca perennis (bank)	2	N	FAC
Conyza canadensis (bank)	1	N	FACU
Epilobium brachycarpum	1	N	UPL
Geranium molle (bank)	1	N	UPL
Polygonum aviculare	1	N	FACW
Persicaria maculosa	1	N	FACW
Plantago lanceolata (bank)	1	N	FAC
Total % Cover	90		
% Bare	10		

STREAM CHARACTERIZATION DATA FORM

Project/Site: Laguna Creek Trail - North Camden Spur City/County: Elk Grove/Sacramento Sampling Date: 12/11/13

Applicant/Owner: City of Elk Grove State: CA Sampling Point: P-3

Investigator(s): Leslie Parker Section, Township, Range: 25, 07N, 05E

Subregion (LRR): C Lat: 4255310 N Long: 640917E Datum: _____

Soil Map Unit Name: San Joaquin silt loam NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Remarks: Includes main channel of Whitehouse Creek and the overflow channel

STREAM CHARACTERIZATION

Stream Type: _____ Ephemeral _____ Intermittent X Perennial Stream Form Present X Pool(s) X Riffle(s) X Run(s)

Approximate: Water Depth 0.5 Feet Bank Full Width (OHWM) 10 Feet Stream Width (top of bank to top of bank) 40 Feet

Average: Height of channel banks 4 Left 4 Right Depth of pool(s) 0.5 Feet

Presence of logs and/or large woody debris in stream: _____ None X Occasional _____ Plentiful

Description of stream channel: _____ narrow, deep _____ narrow, shallow _____ wide, deep X wide, shallow

Stream Bottom			
	None	<50%	>50%
silt	X		
clay		X	
mud		X	
sand		X	
gravel	X		
cobbles	X		
boulders	X		
bedrock	X		

Description that best fits the stream bank*		
left		right
	vertical/undercut	
	steeply sloped (>30%)	
X	gradual/no slope (<30%)	X

Water Appearance	
X	clear
	milky
	foamy
	turbid
	light brown
	dark brown
	oily sheen
	orange
	greenish
	other:
X	none

Water Odor	
	sewage
	chlorine
	fishy
	rotten eggs
	organic
	other:
X	none

Extent to which vegetation shades the stream					
	0%		50%		100%
	25%	X	75%	other - ____ %	

VEGETATION – Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species (Y/N)	Indicator Status
Salix laevigatus	35	Y	FACW
Salix exigua	5	N	FACW
Populus fremontii	10	N	FAC
Total % Cover	50		
Sapling/Shrub Stratum			
~~Privet~~ Ligustrum ~~sp~~ japonicum	1	N	FACU
Rubus armeniacus	3	N	FACU
Quercus wislizeni	1	N	UPL
Quercus lobata	1	N	FACU
Total % Cover	6		
Herb Stratum			
Rumex crispus	2	N	FAC
Festuca perennis	2	N	FAC
Juncus patens	5	N	FACW
Typha latifolia	5	N	OBL
Cyperus eragrostis	2	N	FACW
Eleocharis macrostachys	20	Y	OBL
Eryngium sp.	2	N	OBL
~~Dactylon~~ Cynodon dactylon	5	N	FACU
Plantago lanceolata	1	N	FAC
Cichorium intybus	1	N	FACU
Holocarpha virgata	1	N	UPL
Alisma sp.	1	N	OBL
total %	45		
total bare	55		

Laguna Creek Trail-North Camden Spur

D-1

D-2

D-3

OW-1

Laguna Creek Trail-North Camden Spur

P-1

P-1

P-2

P-2

P-3 (main channel)

P-3 (overflow channel)

SW-1

APPENDIX B – HISTORIC PROPERTY SURVEY REPORT AND ARCHAEOLOGICAL SURVEY REPORT

State of California Transportation Agency | Department of Transportation

HISTORIC PROPERTY SURVEY REPORT

1. UNDERTAKING DESCRIPTION AND LOCATION

District	County	Route	Post Miles	Unit	E-FIS Project Number	Phase
District	*County*	*Federal Project. Number. (Prefix, Agency Code, Project No.)*		*Location*		
3	*SAC*	*SR2SL 5479(036)*		*City of Elk Grove, Laguna Creek at Camden Park to Bond Road near Emerald Crest Drive*		

For Local Assistance projects off the highway system, use headers in italics

Project Description:

The City of Elk Grove, in cooperation with the California Department of Transportation (Caltrans), proposes to construct the Laguna Creek Trail–South Camden Spur. The proposed project is a 0.5 mile multi-use trail from the west end of the existing Laguna Creek Trail at the northern end of Camden Park south to Bond Road, in Elk Grove, Sacramento County, California. Maps of the Project Vicinity, Project Location are located in Attachment A of this Historic Property Survey Report. The Laguna Creek Trail-North Camden Spur Project and the Laguna Creek Trail-South Camden Spur Project are two contiguous projects designed to provide bicycle-pedestrian trail connectivity between the Camden Point and Camden Estates residential areas (north of Laguna Creek) to schools and commercial retail-shopping-dining uses along or south of Bond Road. The proposed Project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The Project proposes to close an identified gap in the trail infrastructure that serves the City of Elk Grove from Bond Road to Camden Park.

No additional right-of-way is required for the proposed trail alignment and bridge structure beyond encroachment onto Cosumnes Community Services District property. The proposed project would require relocation of a storm drain inlet, a manhole, and irrigation system modifications. The project is consistent with the Elk Grove General Plan and the Elk Grove Bicycle, Pedestrian and Trails Master Plan. Each plan identifies the need for an off-street multi-use trail system providing connections throughout the city and the Sacramento region.

This document was prepared to comply with historic preservation regulations, policies, and statutes, primarily Section 106 of the National Historic Preservation Act, due to federal and state funding. Caltrans, acting as the lead agency under the delegated authority of the Federal Highway Administration (FHWA), is providing the Project oversight as federal funds are involved. The studies conducted for this Project are consistent with Caltrans responsibilities under the January 2014 *First Amended Programmatic Agreement Among 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, as it Pertains to the Administration of Federal-Aid Highway Program in California (PA)* for compliance with Section 106 of the National Historic Preservation Act (NHPA).

The City of Elk Grove is responsible for compliance with the California Environmental Quality Act (CEQA), which requires that California public agencies consider the consequences of their actions on the environment, including cultural resources. Public Resources Codes provide

specific guidance that supports CEQA compliance. Such guidance includes the evaluation of resources in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using criteria outlined in Section 5024.1 of the California Public Resources Code to determine whether any cultural resources potentially affected by the project are historical resources for the purposes of CEQA.

2. AREA OF POTENTIAL EFFECTS

The Area of Potential Effects (APE) for the Project was established in consultation with Erin Dwyer, Associate Environmental Planner (Archaeology) (PQS), and Cindy Root, District Local Assistance Engineer, on October 7, 2014. Maps of the Project Vicinity, Project Location and the APE map are located are included in Attachment A of this Historic Property Survey Report.

The APE was established as approximately 9 acres within Section 25 of Township 7 North, Range 5 East as depicted on the Florin (1980) 7.5-minute USGS Quadrangle. Boundaries were set by Caltrans District 3 and the City of Elk Grove. The APE includes portions of the existing public right of ways and streets, and includes an encroachment onto Cosumnes Community Services District property.

The Project's horizontal APE consists of a linear, irregularly shaped corridor that extends from a point north of the northern tip of Camden Park, on the north side of Laguna Creek, south to Bond Road, west of the Emerald Crest Drive/Bond Road intersection.

Subsurface impacts will take place along the trail route to a maximum depth of 2 ft. The maximum depth of disturbance at the proposed bridge at Laguna Creek is 40 ft.

3. CONSULTING PARTIES / PUBLIC PARTICIPATION

x Native American Tribes, Groups and Individuals

- On November 18, 2014, letters requesting information about sites, traditional cultural properties, values, or other cultural considerations within the project area were sent to 16 groups and individuals identified by the NAHC. Follow-up phone calls were made on December 1, 2014 and December 2, 2014. When the individual could not be reached by phone, messages were left either on voicemail or with a receptionist. Three responses have been received. All consultation correspondence and consultation log are provided in Attachment B.
- Randy Yonemura - No response.
- Rhonda Morningstar Pope, Chairperson, Buena Vista Rancheria - No response.
- Roselyn Lewenya, Environmental Director, Buena Vista Rancheria - No response.
- Judith Marks, Colfax-Todds Valley Consolidated Tribe - No response.
- Pamela Cubbler, Colfax-Todds Valley Consolidated Tribe- No response.
- Yvonne Miller, Chairperson, Ione Band of Miwok Indians - No response.
- Anthony Burris, Chairperson, Ione Band of Miwok Indians Cultural Committee - No response.
- Cosme Valdez, Interim Chief Executive, Nashville-El Dorado Miwok- No response.
- Hermo Olanio, Vice Chairperson, Shingle Springs Band of Miwok Indians - No response.

- Nicholas Fonseca, Chairperson, Shingle Springs Band of Miwok Indians - No response.
- Daniel Fonseca, Cultural Resource Director, Shingle Springs Band of Miwok Indians - responded by letter sent to Caltrans, dated December 5, 2014. The response letter states that Shingle Spring is not aware of any known cultural resources within the project. Shingle Springs requests continued consultation through project updates from Caltrans. Shingle Springs also requests copies of all completed record searches and surveys completed in and around the APE as well as any archaeological, cultural or environmental reports completed as part of the project.
- Gene Whitehouse, Chairperson, United Auburn Indian Community of Auburn Rancheria - No response.
- Marcos Guerrero, Tribal Preservation Committee, United Auburn Indian Community of Auburn Rancheria - on December 2, 2014, Mr. Guerrero stated that is staff was doing a search for ethnographic sites in the area. He asked for the record search results and was informed that no previously recorded cultural resources were within the APE. He stated that his staff would likely send out a letter requesting a copy of the cultural resources report for the project. To date, no additional response has been received.
- Jason Camp, THPO, United Auburn Indian Community of Auburn Rancheria – on December 3, 2014, Mr. Camp left a phone message requesting that the consultation letters be resent via email. Letters were sent via email on December 3, 2014. No further response was received.
- Raymond Hitchcock, Chairperson, Wilton Rancheria - No response.
- Steven Hutchason, Executive Director Environmental Resources, Wilton Rancheria- No response.

x Native American Heritage Commission

- Letter sent on October 21, 2014 requested Sacred Lands File search and current list of Native American Contacts.
- Response received on November 6, 2014 stating no known sacred lands in the immediate project area. All consultation correspondence is provided in Attachment B.

4. SUMMARY OF IDENTIFICATION EFFORTS

x National Register of Historic Places
x California Register of Historical Resources
x California Inventory of Historic Resources
x California Historical Landmarks
x California Points of Historical Interest
x California Historical Resources Information System (CHRIS)
x Caltrans Historic Highway Bridge Inventory
x Other Sources consulted *[e.g., historical societies, city archives, etc. List names and dates below]*

- Record and Information search at the North Central Information Center completed December 8, 2010 for previous project alignment. Record search results included as Attachment C.
  - NCIC Resources within 0.5 miles of the current APE, on file at the North Central Information Center, File No. SAC-10-154, December 8, 2010.
  - NCIC Reports within 0.5 miles of the current APE, on file North Central Information Center, File No. SAC-10-15.

- Historic Maps: 1855 GLO Plat; 1909 USGS Florin Quadrangle; and 1953 SU Army Corps of Engineers Florin Sheet.
- Geologic and Soils Maps (Helley and Harwood 1985; NRCS 2012). See Archaeological Survey Report included as Attachment D.

x **Results:**

- No known cultural resources were previously recorded within the APE or within 0.5 mile radius of the APE.
- No cultural resources were observed within the APE during intensive pedestrian survey on November 17, 2014. Surface visibility was poor, however, there was evidence of extensive disturbance by modern development within and adjacent to the APE. Archaeological Survey Report documenting inventory efforts is included as Attachment D.
- APE is located on a dissected alluvial fan belonging to the lower member of the Riverbank Formation. This formation dates to the middle Pleistocene (~450,000-130,000 years before present), which predates human occupation of the area indicating a low potential for buried archaeological deposits. The high degree of modern disturbance and the age of the soil formation in the APE indicate a low potential for buried archaeological deposits

5. PROPERTIES IDENTIFIED

x **No cultural resources** are present within the APE.

6. HPSR to District File

x Caltrans, in accordance with Section 106 Programmatic Agreement Stipulation VIII, has determined that there are no cultural resources present in the APE and/or there are properties within the APE that **are exempt from evaluation;** see Section 5.

7. HPSR to SHPO

x Not applicable.

8. HPSR to CSO

x Not applicable.

9. Findings for State-Owned Properties

x Not applicable; project does not involve Caltrans right-of-way or Caltrans-owned property.

10. CEQA Considerations

x Not applicable; Caltrans is not the lead agency under CEQA.

11. List of Attached Documentation

x Project Vicinity, Location, and APE Maps *(note which attachment(s) contains the maps)*
x Archaeological Survey Report (ASR)

- Attachment C: Hannah Ballard, M.A., Samantha Schell, B.A., Graham Dalldorf, M.A., Elena Reese, M.A., and Daniel Trout, B.A.; January 2015.
- Peer Reviewed by Erin Dwyer, January 2015

x Other *(Specify below)*

- Native American Consultation Documentation
- Record Search Documentation

12. HPSR Preparation and Caltrans Approval

Prepared by *(sign on line)*: District ___ Caltrans PQS:	*PQS level and discipline]*	Date
Prepared by: *(sign on line)*		2/5/15
Consultant / discipline:	*John Holson, Principal Archaeologist*	Date
Affiliation	*Pacific Legacy, Inc.* *900 Modoc St.* *Berkeley, CA 94707*	
Reviewed for approval by: *(sign on line)*		2/11/15
District 3 Caltrans PQS discipline/level:	*Erin Dwyer* *PQS: PI – Prehistoric and Historical Archaeology*	Date
Approved by: *(sign on line)*	Susan D. Bauer	2-11-15
District 3 EBC:	*Susan D. Bauer* *Environmental Management Branch, M1*	Date

ATTACHMENTS

ATTACHMENT A. FIGURES

Figure 1. Project Vicinity Map

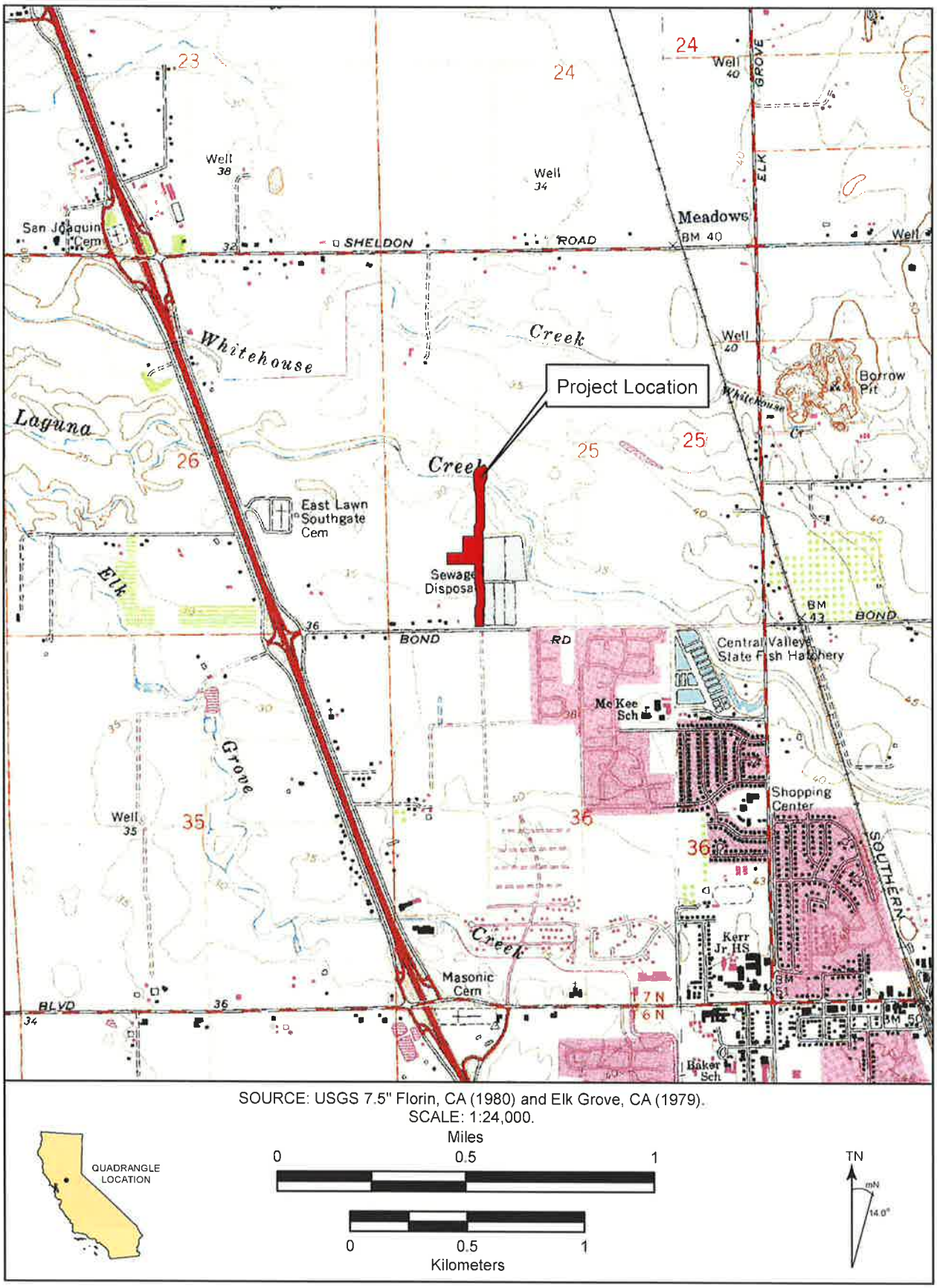


Figure 2. Project Location Map, Laguna Creek Trail-South Camden Spur Project


Camden
Lake

Figure 4. Survey Coverage

ATTACHMENT B. NATIVE AMERICAN CONSULTATION DOCUMENTATION

Pacific Legacy Historic Preservation
Bay Area Division
900 Modoc Street
Berkeley, CA 94707

Phone: 510.524.3991
Fax: 510.524.4419
www.pacificlegacy.com

Fax

To:	Cynthia Gomez	From:	Starla Lane
Company:	Native American Heritage Commission	Phone:	(510) 524-3991
Phone:	(916) 373-3710	Fax:	(510) 524-4419
Fax:	(916) 373-5471	Date:	12/22/2014
Re:	Laguna Creek Trail South Camden Spur, Elk Grove (PL-2478-03)	Pages:	4

Inland Empire/Mojave Desert
44702 10th St. West
Lancaster, CA 93534
661.729.9395 Ph.
661.729.9417 Fax

Business Office
PO Box 6050
Arnold, CA 95223
209.795.4481 Ph.
209.795.1967 Fax

Pacific Basin
30 Aulike St. #301
Kailua, HI 96734
808.263.4800 Ph.
808.263.4300 Fax

Sierra/Central Valley
4919 Windplay Dr. #4
El Dorado Hills, CA 95762
916.358.5156 Ph.
916.358.5161 Fax

Southern California
PO Box 421282
San Diego, CA 92142
858.900.8024 Ph.
510.524.4419 Fax

Pacific Legacy
Historic Preservation

Bay Area Division
900 Modoc Street
Berkeley, CA 94707

Phone: 510.524.3991
Fax: 510.524.4419
www.pacificlegacy.com

October 21, 2014

Cynthia Gomez
Native American Heritage Commission
1550 Harbor Boulevard, Suite 100
West Sacramento, CA 95691

Re: Laguna Creek Trail South Camden Spur, Elk Grove (PL-2478-03)

Dear Ms. Gomez:

We have been retained by PMC Environmental to conduct an archaeological assessment for a property located east of Highway 99 in Elk Grove, California. The project area extends from south of Kingsland Court, continues across Laguna Creek, and extends south to Bond Road. We would like to request a review of the Sacred Lands Inventory file and a list of interested Native American groups for Sacramento County. We have attached a map of the project area for your review. If you have any questions, I can be reached at (510) 524-3991 ext 111. Thank you for your kind attention to this matter.

Sincerely,

Starla Lane
Archaeologist
Bay Area Division
900 Modoc St.
Berkeley, CA 94707
Ph. 510-524-3991, ext. 111
lane@pacificlegacy.com

Attachments: Sacred Lands File & Native American Contacts List Request
Project Location Map

Pacific Legacy Historic Preservation
Bay Area Division
900 Modoc Street
Berkeley, CA 94707

Phone: 510.524.3991
Fax: 510.524.4419
www.pacificlegacy.com

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Boulevard
West Sacramento, CA 95691
(916) 373-3710
(916) 373-5471 – Fax
nahc@pacbell.net
Information Below is Required for a Sacred Lands File Search

Project: Laguna Creek Trail South Camden Spur, Elk Grove (PL-2478-03)

County: Sacramento

USGS Quadrangle Name: Florin, CA (1980), 7.5'

Township: 7N Range: 5E Section(s): 25

Company/Firm/Agency: Pacific Legacy, Inc.

Contact Person: Starla Lane

Street Address: 900 Modoc St.

City: Berkeley, CA Zip: 94707

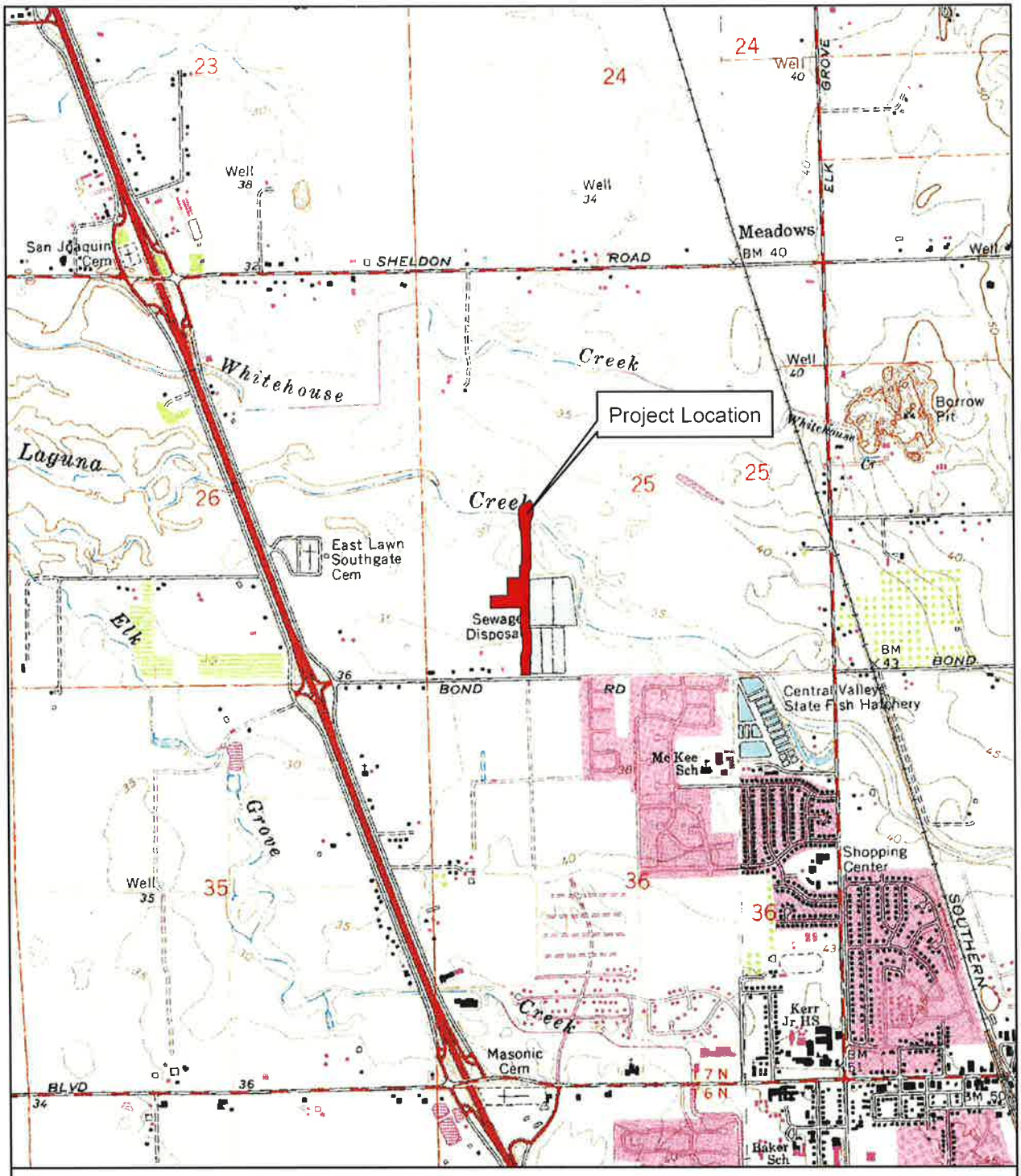
Phone: (510) 524-3991 ext. 111

Fax: (510) 524-4419

Email: lane@pacificlegacy.com

Project Description:

The City of Elk Grove proposes to extend a bicycle and pedestrian trail from the west end of the existing Laguna Creek Trail, at the northern end of Camden Park, south to Bond Road. The proposed project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. This extension is the south half of a two-project proposal to improve the trail system in Elk Grove.



SOURCE: USGS 7.5" Florin, CA (1980) and Elk Grove, CA (1979).
SCALE: 1:24,000.

Miles
0 0.5 1

Kilometers
0 0.5 1

Project: Laguna Creek Trail-South Camden Spur, Elk Grove, CA (PL 2478-3)

Pacific Legacy Historic Preservation

STATE OF CALIFORNIA — Edmund G. Brown, Jr., Governor

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd.
West Sacramento, CA 95691
(916) 373-3710
Fax (916) 373-5471

November 3, 2014

Starla Lane
900 Modoc Street
Berkeley, CA 94707

By: FAX: 510-524-4419

3 Pages

Re: Laguna Creek Trail South Camden Spur project, Sacramento County

Ms. Lane,

A record search of the sacred land file has failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the sacred lands file does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Enclosed is a list of Native Americans individuals/organizations who may have knowledge of cultural resources in the project area. The Commission makes no recommendation or preference of a single individual, or group over another. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe or group. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 373-3713.

Sincerely,

Layla Wenston for

Debbie Pilas-Treadway
Environmental Specialist III

Native American Contacts
Sacramento County
October 31, 2014

Randy Yonemura
3305 - 39th Avenue — Miwok
Sacramento , CA 95824
randy_yonemura@yahoo.com
(916) 421-1600
(916) 601-4069 Cell

Buena Vista Rancheria
Rhonda Morningstar Pope, Chairperson
2418 20th Street, Suite 200 — Me-Wuk / Miwok
Sacramento , CA 95811
rhonda@buenavistatribe.com
(916) 491-0011 Office
(916) 491-0012 Fax

Colfax-Todds Valley Consolidated Tribe
Judith Marks
1068 Silverton Circle — Miwok, Maidu
Lincoln , Ca 95648
(916) 580-4078

Colfax-Todds Valley Consolidated Tribe
Pamela Cubbler
P.O. Box 734 — Miwok, Maidu
Foresthill , Ca 95631
(530) 320-3943
(530) 367-2093 home

Ione Band of Miwok Indians
Yvonne Miller, Chairperson
P.O. Box 699 — Miwok
Plymouth , CA 95669
administrator@ionemiwok.org
(209) 245-5800 Office
(209) 245-3112 Fax

Ione Band of Miwok Indians Cultural Committee
Anthony Burris, Chairperson
P.O. Box 699 — Miwok
Plymouth , CA 95669
(209) 245-5800 Office
(209) 245-3112 Fax

Nashville-El Dorado Miwok
Cosme Valdez, Interim Chief Executive Officer
P.O. Box 580986 — Miwok
Elk Grove , CA 95758
valdezcom@comcast.net
(916) 429-8047 Voice/Fax

Shingle Springs Band of Miwok Indians
Hermo Olanio, Vice Chairperson
P.O. Box 1340 — Miwok, Maidu
Shingle Springs , CA 95682
holanio@ssband.org
(530) 676-8010 Office
(530) 676-8033 Fax

Shingle Springs Band of Miwok Indians
Nicholas Fonseca, Chairperson
P.O. Box 1340 — Miwok, Maidu
Shingle Springs , CA 95682
nfonseca@ssband.org
(530) 676-8010 Office
(530) 676-8033 Fax

Shingle Springs Band of Miwok Indians
Daniel Fonseca, Cultural Resource Director
P.O. Box 1340 — Miwok, Maidu
Shingle , CA 95682
(530) 676-8010 Office
(530) 676-8033 Fax

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Laguna Creek Trail South Camden Spur project, Sacramento County

Native American Contacts
Sacramento County
October 31, 2014

Jnited Auburn Indian Community of the Auburn Rancheria
Gene Whitehouse, Chairperson
0720 Indian Hill Road — Maidu
Auburn , CA 95603 — Miwok
530) 883-2390 Office
530) 883-2380 Fax

nited Auburn Indian Community of the Auburn Rancheria
Marcos Guerrero, Tribal Preservation Committee
0720 Indian Hill Road — Maidu
Auburn , CA 95603 — Miwok
mguerrero@auburnrancheria.com
530) 883-2364 Office
530) 883-2320 Fax

nited Auburn Indian Community of the Auburn Rancheria
ason Camp, THPO
0720 Indian Hill Road — Maidu
uburn , CA 95603 — Miwok
amp@auburnrancheria.com
916) 316-3772 Cell
530) 883-2390
530) 888-5476 - Fax

Wilton Rancheria
aymond Hitchcock, Chairperson
7728 Kent Street — Miwok
k Grove , CA 95624
tchcock@wiltonrancheria-nsn.gov
16) 683-6000 Office
16) 683-6015 Fax

ilton Rancheria
even Hutchason, Executive Director Environmental Resources
'28 Kent Street — Miwok
k Grove , CA 95624
utchason@wiltonrancheria-nsn.gov
16) 683-6000, Ext. 2006
16) 683-6015 Fax

his list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and afety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code

his list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed aguna Creek Trail South Camden Spur project, Sacramento County

DEPARTMENT OF TRANSPORTATION
DISTRICT 3
703 B Street
Marysville, CA 95901
PHONE (530) 741-7113
FAX (530) 741-4457
TTY 711
www.dot.ca.gov/dist3

Serious drought
Help save water!

November 18, 2014

Mr. Randy Yonemura
4305 39th Avenue
Sacramento, CA 95824

Re: Invitation to Begin Section 106 Consultation for the Laguna Creek Trail, South Camden Spur Project, City of Elk Grove, Sacramento County, California

Dear Mr. Yonemura:

The California Department of Transportation (Caltrans) will be assisting the City of Elk Grove as they initiate a local project to build a bicycle-pedestrian trail between Camden Point and Camden Estates residential areas to schools and commercial areas along or south of Bond Road (see attached map). This project is the south half of two projects and proposes to improve the trail system in Elk Grove by connecting existing segments of the Laguna Creek Trail. The proposed project will involve an extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Additionally, the proposed project would require relocation of a storm drain inlet, a manhole and irrigation system modifications. Minor improvements and striping along existing public right of ways and streets.

Pacific Legacy, Inc. archaeologist, Hannah Ballard, is a consultant representing the City of Elk Grove. Ms. Ballard will be contacting you to initiate Native American consultation. Ms. Ballard will be requesting information you may have regarding sites, traditional cultural properties, values, or other cultural resource considerations within the project area so this information may be incorporated into the planning phase of the project.

A records search was conducted and no previously recorded cultural resources are located within a quarter of a mile of the project area. The entire project area has been previously studied, by two projects. One of these studies was a reconnaissance survey of the Laguna Creek. None of these studies identified cultural resources within or adjacent to the current project area. The nature of this project requires a Phase I investigation, consisting of archaeological survey, to identify any cultural resources within the project's area of potential effect (APE).

Caltrans will serve as the federal lead agency for the project as a result of the Federal Highway Administration (FHWA) assignment of its National Environmental Policy (NEPA) Act responsibilities under Title 23 USC 326 and 327. Caltrans will have review and approval authority for compliance with Section 106 of the National Historic Preservation Act as well as other federal laws and regulations.

Your comments and concerns will be important to the City of Elk Grove as they move forward with their project planning and to Caltrans. If you have any questions or concerns with the project, please contact Hannah Ballard via email (*ballard@pacificlegacy.com*) or at her office (*510-524-3991 extension 6*). Hannah's mailing address is:

Hannah Ballard
Pacific Legacy, Inc.
900 Modoc Street
Berkeley, CA 94707

If you have questions regarding the content of this letter you can contact me at sue.bauer@dot.ca.gov or 530-741-7113 or the Associate Environmental Planner (Archaeology) for this project, Erin Dwyer at erin.dwyer@dot.ca.gov or 530-741-4538.

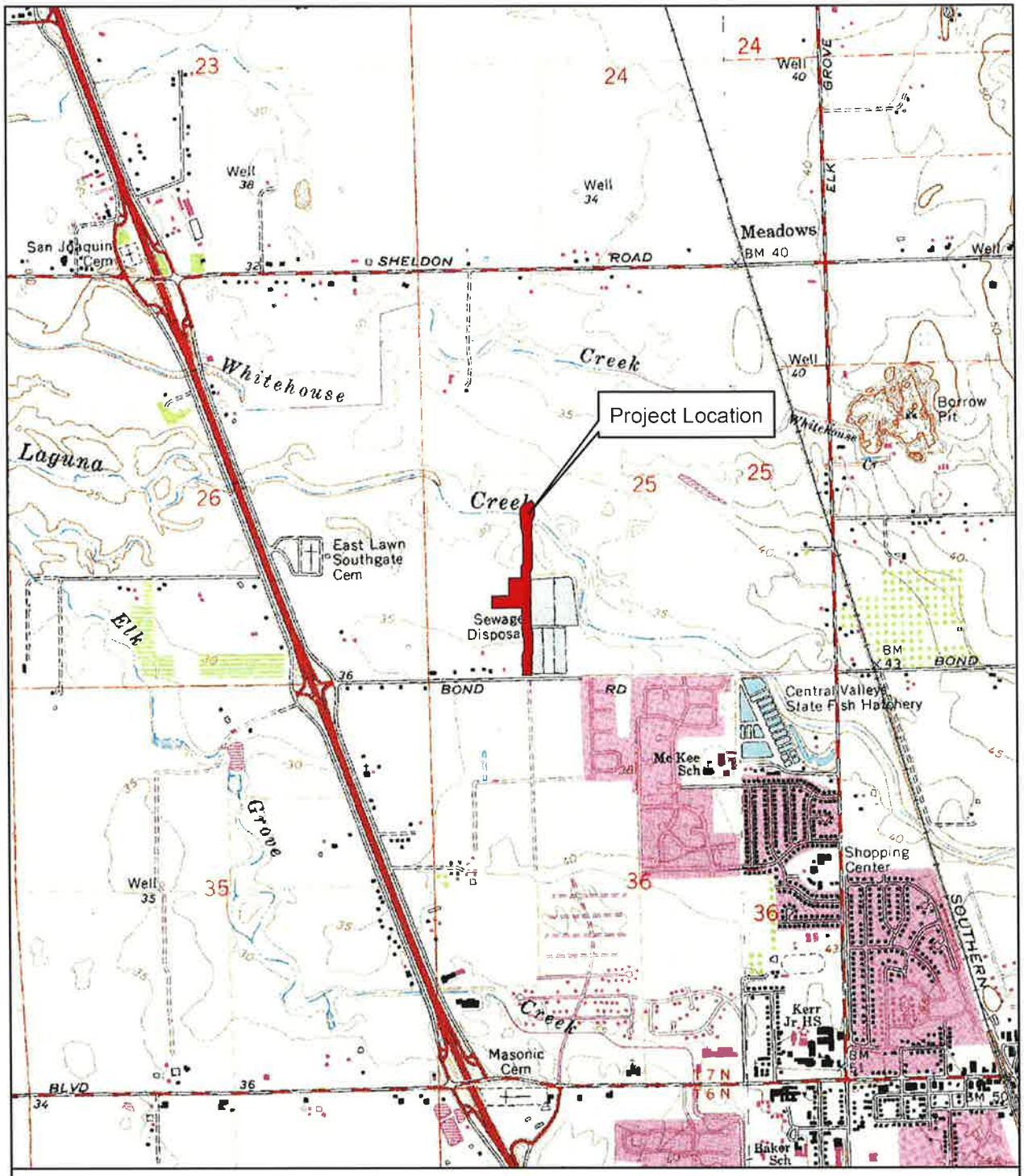
Sincerely,

Susan D. Bauer

Susan D. Bauer
Senior Environmental Planner, M1
Caltrans, District 3

Attachments: Project Location map
Draft Area of Potential Effects map

cc: Erin Dwyer, Associate Environmental Planner (Archaeology)
Michael Karoly, Senior Project Manager, City of Elk Grove



SOURCE: USGS 7.5" Florin, CA (1980) and Elk Grove, CA (1979).
SCALE: 1:24,000.

Miles
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Kilometers
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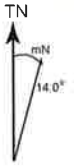


Project: Laguna Creek Trail-South Camden Spur, Elk Grove, CA (PL 2478-3)

Pacific Legacy Historic Preservation

ELK GROVE
City of Elk Grove
Development Services

Figure 1
Laguna Creek Trail – South Camden Spur
APE Map

Hannah Ballard

From: Hannah Ballard
Sent: Wednesday, December 03, 2014 2:51 PM
To: jcamp@auburnrancheria.com
Subject: Laguna Creek Trail North Camden Spur and South Camden Spur Projects
Attachments: Signed Consultation Letters Camden North_J Camp.pdf; Signed Consultation Letters Camden South_J Camp.pdf

Dear Mr. Camp,
Thank you for returning my call. I am attaching copies of the letters I sent you for the two Laguna Creek Trail Projects: North Camden Spur and South Camden Spur. I spoke briefly with Marcos Guerrero yesterday. He said that he was having his staff do a search for ethnographic sites within the Project Areas but the search was not yet complete. If you have any questions, comments or information you would like to share about these projects, please contact me either via email or phone.
Regards,
Hannah

Hannah Ballard
Senior Archaeologist
Pacific Legacy, Inc.
900 Modoc St.
Berkeley, CA 94707
Office: 510-524-3991, extension 6
Mobile: 510-821-0173

SHINGLE SPRINGS RANCHERIA
P.O. BOX 1340; SHINGLE SPRINGS, CA 95682
(530) 676-8010; FAX (530) 676-3582

December 5, 2014

Department of Transportation
DISTRICT 3
703 B Street
Marysville, CA 95901

RE: Invitation to begin Section 106 Consultation for the Laguna Creek Trail, South Camden Spur Project

Dear Susan Bauer

Thank you for your letter dated November 18, 2014 in regard to the Laguna Creek Trail. South Camden Spur Project located in Elk Grove. Based on the information provided, the Shingle Springs Band of Miwok Indians is not aware of any known cultural resources on this site. However, SSR would like to have continued consultation through updates, as the project progresses this will foster a greater communication between the Tribe and your agency.

SSR would also like to request any and all completed record searches and or surveys that were done in or around the project area up to and including environmental, archaeological and cultural reports.

If during the progress of the project new information or human remains are found we would like to be able to go over our process with you that we currently have in place to protect such important and sacred artifacts (especially near rivers and streams).

Please contact the following individuals if such finds are made:

Kara Perry, Administrative Assistant (530) 488-4049 kperry@ssband.org

And copy all communications to:
Andrew Godsey, Assistant Cultural Resource Director / NAI agodsey@ssband.org

Thank you for providing us with this notice and opportunity to comment.

Sincerely,

Daniel Fonseca
Cultural Resource Director
Tribal Historic Preservation Officer (THPO)
Most Likely Descendent (MLD)

Native American Consultation Log for Laguna Creek Trail–South Camden Spur Project

Native American Contact Name	Native American Contact Group	Date of Initial Letter	Date of Follow-Up Phone Call	Response Received	Comment
Randy Yonemura	Miwok	11/19/14	12/1/14, phone message	None	
Roselyn Lewenya, Environmental Director	Buena Vista Rancheria	Initial letter sent to Rhonda Morningstar Pope (11/19/14)	12/1/14, phone message with receptionist	None	Receptionist said the Roselyn Lewenya, Environmental Director, is the individual who would respond to our request for Sec 106 consultation. Left message for Ms. Lewenya.
Judith Marks	Colfax-Todds Valley Consolidated Tribe	11/19/14	12/1/14, phone message	None	
Pamela Cubbler	Colfax-Todds Valley Consolidated Tribe	11/19/14	12/1/14, phone message	None	
Yvonne Miller, Chairperson	Ione Band of Miwok Indians	11/19/14	12/1/14, phone message	None	Administrative Assistant said that Anthony Burris was the most appropriate party to speak with, so a message was left for him.
Anthony Burris, Chairperson	Ione Band of Miwok Indians Cultural Committee	11/19/14	12/2/14, phone message with Admin Assistant	None	Administrative Assistant said that Anthony Burris was the most appropriate party to speak with, so a message was left for him.
Cosme Valdez, Interim Chief Executive	Nashville-El Dorado Miwok	11/19/14	12/2/14, phone message	None	
Hermo Olanio, Vice Chairperson	Shingle Springs Band of Miwok Indians	11/19/14	12/2/14, message with Administrative Assistant	None	
Nicholas Fonseca, Chairperson	Shingle Springs Band of Miwok Indians	11/19/14	12/2/14, message with Administrative Assistant	None	
Daniel Fonseca, Cultural Resource Director, THPO	Shingle Springs Band of Miwok Indians	11/19/14	12/2/14, message with Administrative Assistant	12/5/14	Received response letter via email from Kara Perry, Administrative Assistant in the Cultural Resource Department. Signed hard copy response sent via USPS to Caltrans. The response letter states that Shingle Spring is not aware of any known cultural resources within the project. Shingle Springs requests continued consultation through project updates from Caltrans. Shingle Springs also requests copies of all completed record searches and surveys completed in and around the APE as well as any archaeological, cultural or environmental reports completed as part of the project.

Native American Contact Name	Native American Contact Group	Date of Initial Letter	Date of Follow-Up Phone Call	Response Received	Comment
Gene Whitehouse, Chairperson	United Auburn Indian Community of Auburn Rancheria	11/19/14	12/2/14, phone message	None	
Marcos Guerrero, Tribal Preservation Committee	United Auburn Indian Community of Auburn Rancheria	11/19/14	12/2/14	12/2/14	Mr. Guerrero's staff was doing a search for ethnographic sites in the area. I informed him we had negative record search and survey results. His staff would likely send out a letter requesting a copy of the cultural resources report for the project.
Jason Camp, THPO	United Auburn Indian Community of Auburn Rancheria	11/19/14, 12/3/14 resent via email	12/2/14, phone message	12/3/14, phone message	At Mr. Camp's, request resent letters digitally via email.
Raymond Hitchcock, Chairperson	Wilton Rancheria	11/19/14	12/2/14, receptionist	None	Receptionist directed me to Steven Hutchason, left message on voice mail.
Steven Hutchason, Executive Director Environmental Resources	Wilton Rancheria	11/19/14	12/2/14, phone message	None	Receptionist directed me to Steven Hutchason, left message on voice mail

ATTACHMENT C. RECORD SEARCH RESULTS

Pacific Legacy Historic Preservation
Bay Area Division
900 Modoc Street
Berkeley, CA 94707

Phone: 510.524.3991
Fax: 510.524.4419
www.pacificlegacy.com

December 07, 2010

Ms. Sally Torpy, Coordinator
North Central Information Center (NCIC)
California State University, Sacramento
6000 J Street, Adams Building, Suite #208
Sacramento, CA 95819-6100

Re: Records Search Request, Pacific Legacy Project Number: PL-2478-01

Dear Ms. Sally Torpy:

Pacific Legacy is conducting a cultural resources study and would like the North Central Information Center to complete a records search. The project area is indicated on the attached USGS map.

Project Information

Client: PMC Primary Contact: PMC

Client contact: Jed McLaughlin

Project Name: PMC Laguna Creek Trail Project, Elk Grove (PL-2478-01)

County: Sacramento

Description (including location and USGS 7.5' minute quad): Installation of a bike and pedestrian path measuring approximately one-third of a mile in length.

The project area is depicted on the Florin 7.5' USGS Quad: T07N, R05E, Section 25

Records Search Information:

_X_ List and map of sites within project area and a ½ mile radius

_X_ List and map studies within project area and a ½ mile radius

_X_ Copies of site records

_X_ Copies of Study/Survey Reports (Please give full copy of study/survey report if located in the immediate project location not in the ½ mile radius.)

_X_ Bibliography of Study/Survey Reports

Pacific Legacy Historic Preservation
Bay Area Division
900 Modoc Street
Berkeley, CA 94707

Phone: 510.524.3991
Fax: 510.524.4419
www.pacificlegacy.com

_X_ NRHP Listing

_X_ OHP Determination

_X_ CRHR

_X_ California Historic Landmarks

_X_ California Points of Historical Interest

_X_ California Inventory of Historic Resources

_X_ Other Historic Inventories (local) if applicable

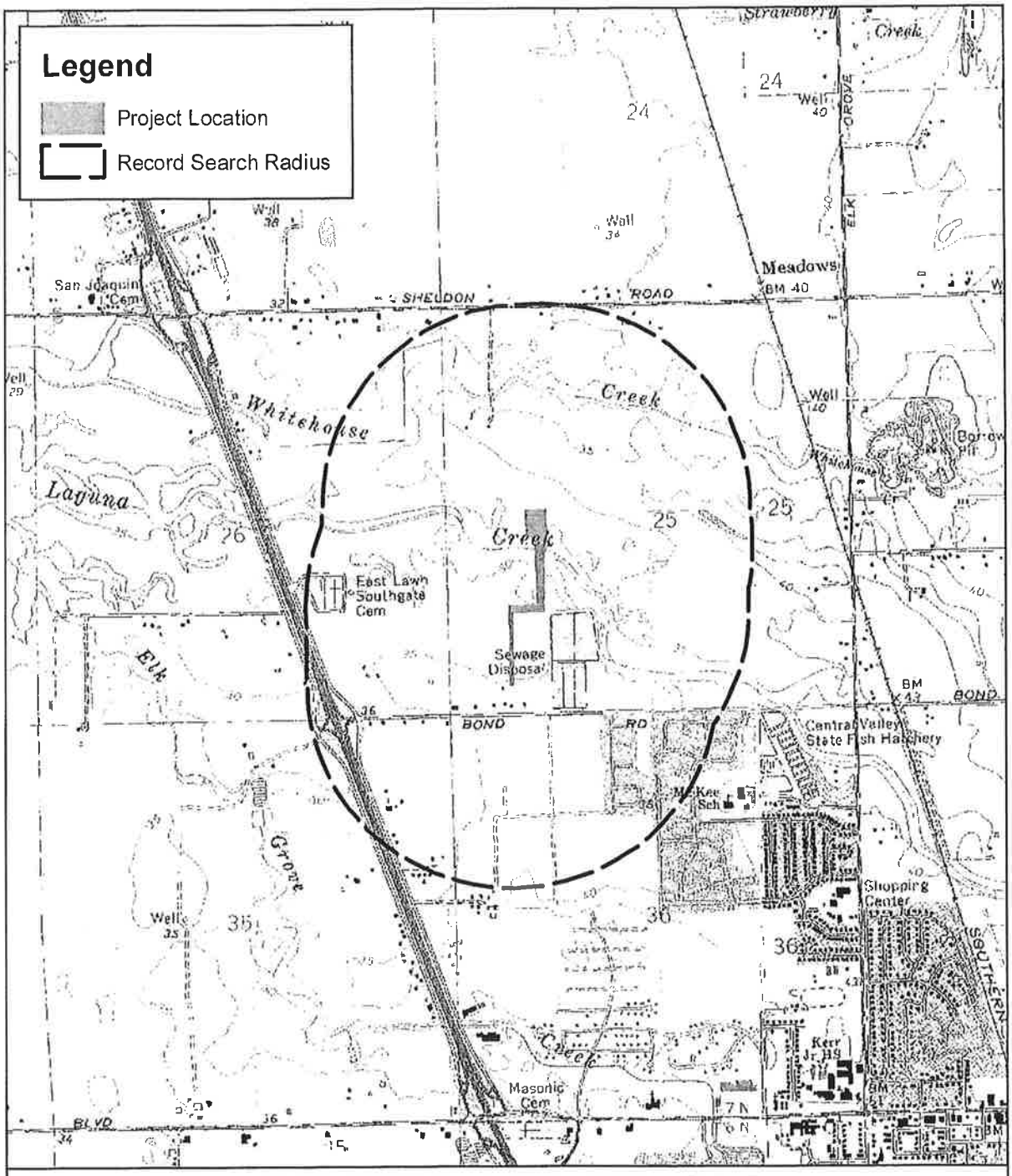
_X_ Historic Maps (GLO, other BLM, Road As-Builts, etc.)

_X_ Caltrans Bridge Inventory

Thank you for your assistance. If you have any questions regarding this request, please do not hesitate to call me at 510-524-3991, extension 106.

Sincerely,

Starla Lane
Archaeologist
900 Modoc St
Berkeley, CA 94707
Ph. 510-524-3991



Project: PMC Laguna Creek Trail Project, Elk Grove (PL-2478-01)

Pacific Legacy
Historic Preservation

NORTH CENTRAL INFORMATION CENTER

916-278-6217 ncic@csus.edu FAX 916-278-5162
CSU-SACRAMENTO - 6000 J STREET, ADAMS BLDG. SUITE #208 - SACRAMENTO, CA 95819-6100
Amador, El Dorado, Nevada, Placer, Sacramento, and Yuba Counties

Records Search Results Summary

December 8, 2010 **NCIC File No.: SAC-10-154**

Starla Lane
Pacific Legacy
900 Modoc Street
Berkeley, CA 94707

Researcher: Ellen Bowden

Re: PMC Laguna Creek Trail Project, Elk Grove (PL-2478-01)
T 7N/R 5E, Section 25
USGS 7.5' Florin Quad, Sacramento County

- **NCIC Resources Within .50 mile Search Radius & Project Area:**

  None

- **NCIC Reports Within .50 mile Search Radius & Project Area:** (11)

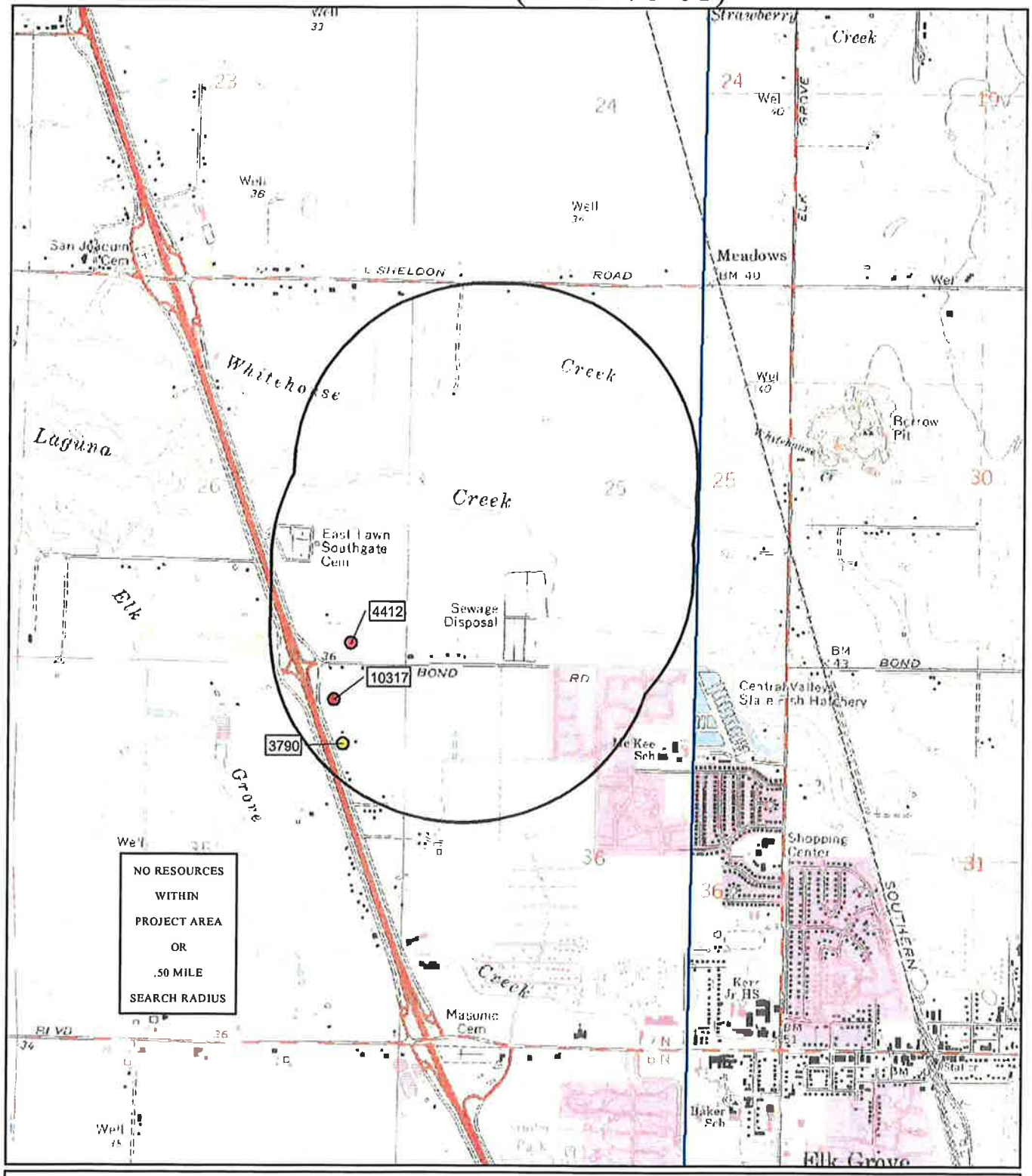
  16
  88
  582
  2529
  3070
  3790
  4412
  4473
  6154
  10317
  10397

- **OHP Historic Property Data File (2010):** Nothing listed
- **Determination of Eligibility (2010):** Nothing listed
- **NRHP/CRHR listings (2008 & updates):** Nothing listed
- **California Inventory of Historic Resources (1976):** Nothing listed

- **California State Historical Landmarks (1996):** Nothing listed
- **Points of Historic Interest (1992):** Nothing listed
- **Caltrans Bridge Inventory**: Nothing listed
- **Historic Maps:**
  1855 GLO PLAT
  1909 USGS Florin Quadrangle
  1953 US Army Corps of Engineers Florin Sheet

Thank you for using our services. An invoice/confidentiality agreement is enclosed; please sign and return a copy for our files.

PMC LAGUNA CREEK TRAIL PROJECT
ELK GROVE (PL-2478-01)



N

NORTH CENTRAL INFORMATION CENTER

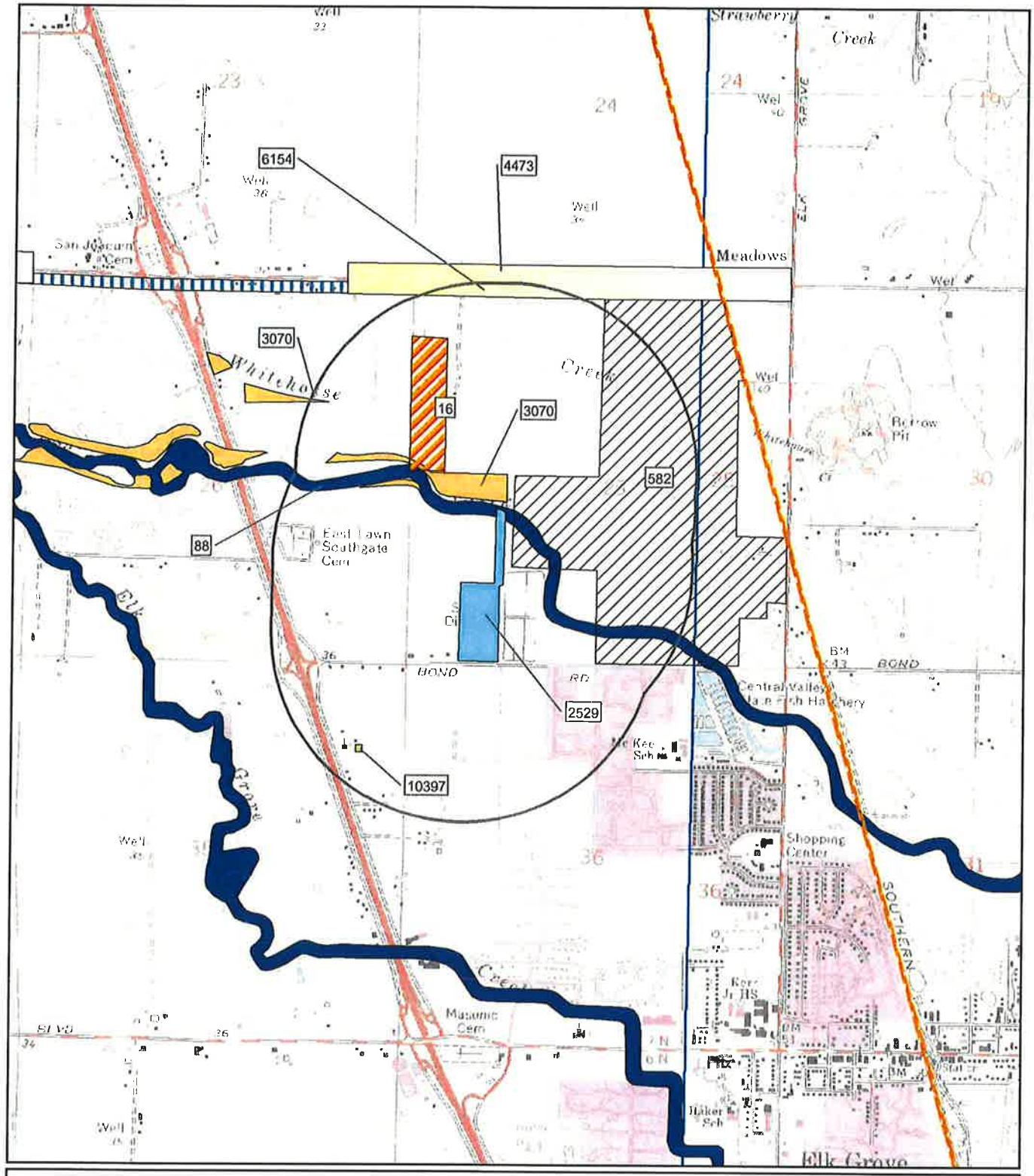
RECORDS SEARCH RESULTS

May depict confidential cultural resource locations.
Do not redistribute.

REPORTS

- 3790
- 4412
- 10317

PMC LAGUNA CREEK TRAIL PROJECT
ELK GROVE (PL-2478-01)



N

NORTH CENTRAL INFORMATION CENTER

RECORDS SEARCH RESULTS

May depict confidential cultural resource locations. Do not redistribute.

REPORTS

16
88
582
2529
3070
4473
6154
10397

North Central Information Center Report Listing

Doc no.	Year	Author(s)	Title	Affiliation	Client
00016	1981	William E. Soule	Cultural Resources Survey Report, Application 26691, Bristow, Bush, Cantrell, and Wallace "A Partnership."	State Archaeologist II, Enviironmental Unit	Divislon of Water Rights, 77 Cadillac Drive, Sacramento, CA 95825.
00088	1974	Johnson, Jerald J.	Reconnaissance Archeological Survey of the Morrison Stream Group in Sacramento County, California.		U.S. Army Corps of Engineers, Sacramento District, 650 Capitol Mall, Sacramento, CA 95814.
00582	1980	Peak, Ann S. and Associates	Cultural Resource Assessment of the Proposed Waterford Grove Development, Sacramento County, California.		Terra Engineering, 936 Enterprise Drive, Sacramento, California 95825.
02529	1999	Childress, Mitchell	Cultural Resources Assessment for California Family Fitness Center on Bond Road, Sacramento County, California.		California Family Fitness Centers, 6100 Fair Oaks Blvd. Suite 3A, Carmichael, CA 95608
03070	1995	Maniery, Mary	Draft Environmental Impact Report, Lower Laguna Creek Drainage Master Plan		County of Sacramento, Department of Environmental Review and Assessment
03790	2001	Billat, Lorna Beth	Nextel Site CA-0222B / Elk Grove		Nextel Communications Wirelesss Telecommunications Service Facility
04412	2001	Peak, Melinda	Historic Resource Reconnaissance of a Proposed Surewest Tower in Sacramento Site # 203		SureWest Communications
04473	2003	Pacific Municipal Consultants	Archaeological and Historic Investigations for the Sheldon Road Widening Project		City of Elk Grove
06154	1995	Woodward-Clyde Consultants	Cultural Resources Inventory Report for the Proposed Mojave Northward Expanslon Project		Mojave Plpeline Company, 5001 Commercenter Dr. Suite 300, Bakersfield, CA
10317	2009	Carolyn Losee	Cultural Resources Investigation for AT&T Wireless Site #CN1868-A "Hwy 99" 9260 East Stockton Boulevard, Elk Grove, Sacramento County, California 95624	Archaeological Resources Technology	EBI Consulting
10397	2009	Billat, Lorna	Big Horn CA-SAC0560: Collocation Submission Packet FCC FORM 621	EarthTouch Inc	Clearwire Wireless Broadband

North Central Information Center Report Detail Record: 16

Citation Information

Authors: William E. Soule
Year: 1981
Title: Cultural Resources Survey Report, Application 26691, Bristow, Bush, Cantrell, and Wallace "A Partnership."
Affiliation: State Archaeologist II, Envlironmental Unit
Client: Division of Water Rights, 77 Cadillac Drive, Sacramento, CA 95825.
No. Pages: 8
Report Type(s): Archaeological survey
Inventory Size: 12 acres
No.Sites: 0
No. Informal: 0
Collections: Unknown
Disclosure: Not for publication

Associated Resources

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 5E	25	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	7/27/2000	Erin Snyder	
Last Modified:	2/17/2010	kate	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	8/27/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 88

Citation Information

Authors: Johnson, Jerald J.
Year: 1974
Title: Reconnaissance Archeological Survey of the Morrison Stream Group in Sacramento County, California.
Affiliation:
Client: U.S. Army Corps of Engineers, Sacramento District, 650 Capitol Mall, Sacramento, CA 95814.
No. Pages:
Report Type(s):
Inventory Size: Approx. 75-90 miles linear and 950+ acres
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Primary No.	HRI No.	Trinomial	Name
P-34-000048		CA-SAC-21	Hollister Mound
P-34-000075		CA-SAC-48	Azevedo Mound
P-34-000077		CA-SAC-50	Facunes Mound
P-34-000083		CA-SAC-56	Mosher
P-34-000084		CA-SAC-57	
P-34-000085		CA-SAC-58	
P-34-000086		CA-SAC-59	Edinger
P-34-000087		CA-SAC-60	
P-34-000088		CA-SAC-61	
P-34-000089		CA-SAC-62	Robinson
P-34-000090		CA-SAC-63/H	Bloom Mound
P-34-000091		CA-SAC-64	Stone Lake Mound
P-34-000092		CA-SAC-65/H	
P-34-000098		CA-SAC-71	Green
P-34-000099		CA-SAC-72	Herzog Mound
P-34-000110		CA-SAC-83	
P-34-000111		CA-SAC-84	
P-34-000112		CA-SAC-85	Nicholaus Mound
P-34-000113		CA-SAC-86	
P-34-000114		CA-SAC-87/H	
P-34-000115		CA-SAC-88	Elliott Mound
P-34-000116		CA-SAC-89	
P-34-000117		CA-SAC-90	
P-34-000172		CA-SAC-145	South Stone Lake
P-34-000215		CA-SAC-188	
P-34-000229		CA-SAC-202	Mooney Site
P-34-000350		CA-SAC-323	
P-34-000351		CA-SAC-324	
P-34-000352		CA-SAC-325/H	
P-34-000353		CA-SAC-326	
P-34-000354		CA-SAC-327	

Notes

no clear project area USGS map

Location Info

County(ies): Sacramento
USGS 7.5' Quads: BRUCEVILLE
CARMICHAEL
CLARKSBURG
COURTLAND
ELK GROVE
FLORIN
SACRAMENTO EAST

North Central Information Center Report Detail Record: 88

PLSS:	Township/range	Sections	BL/M	or Land Grant
	T 6N R 4E	1, 2, 11-13	MDBM	
	T 6N R 4E	13, 24-26, 35, 36	MDBM	
	T 6N R 4E	2, 11	MDBM	
	T 6N R 4E	26	MDBM	
	T 6N R 5E	1	MDBM	
	T 6N R 5E	1, 7	MDBM	
	T 6N R 5E	18, 19, 30	MDBM	
	T 6N R 6E	5, 6	MDBM	
	T 7N R 4E	13, 24, 25, 35, 36	MDBM	
	T 7N R 4E	35	MDBM	
	T 7N R 5E	1, 12, 25, 36	MDBM	
	T 7N R 5E	1-5, 7-27, 35, 36	MDBM	
	T 7N R 6E	1-12, 15-17, 20-23, 28-32	MDBM	
	T 8N R 5E	25	MDBM	
	T 8N R 5E	25-28, 32, 33	MDBM	
	T 8N R 5E	32	MDBM	
	T 8N R 6E	21-24, 26-30, 32-34	MDBM	
	T 8N R 6E	31, 32, 34	MDBM	

Address:

Database Record Metadata

	Date	User	
Entered:	7/31/2000	Erin Snyder	
Last Modified:	12/17/2008	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	12/17/2008	Machiel	GIS plotting in progress

North Central Information Center Report Detail Record: 582

Citation Information

Authors: Peak, Ann S. and Associates
Year: 1980
Title: Cultural Resource Assessment of the Proposed Waterford Grove Development, Sacramento County, California.
Affiliation:
Client: Terra Engineering, 936 Enterprise Drive, Sacramento, California 95825.
No. Pages:
Report Type(s):
Inventory Size: 287 acres
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: ELK GROVE
FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 6E	25	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	9/5/2000	Erin Snyder	
Last Modified:	9/9/2009	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	9/9/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 2529

Citation Information

Authors: Childress, Mitchell
Year: 1999
Title: Cultural Resources Assessment for California Family Fitness Center on Bond Road, Sacramento County, California.
Affiliation:
Client: California Family Fitness Centers, 6100 Fair Oaks Blvd. Suite 3A, Carmichael, CA 95608
No. Pages:
Report Type(s):
Inventory Size: 15.16 Acres
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 5E	25	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	4/12/2001	Doniella Maher	
Last Modified:	9/24/2009	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	9/24/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 3070

Citation Information

Authors: Maniery, Mary
Year: 1995
Title: Draft Environmental Impact Report, Lower Laguna Creek Drainage Master Plan
Affiliation:
Client: County of Sacramento, Department of Environmental Review and Assessment
No. Pages:
Report Type(s):
Inventory Size:
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Primary No.	*HRI No.*	*Trinomial*	*Name*
P-34-000707		CA-SAC-549H	Olen Ranch

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: FLORIN
PLSS:

Township/range	*Sections*	*BL/M*	*or Land Grant*
T 7N R 5E	25, 26, 27	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	11/28/2001	Courtney Chambers	
Last Modified:	10/7/2009	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	Jay	Added records from old Library database
	10/7/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 3790

Citation Information

Authors: Billat, Lorna Beth
Year: 2001
Title: Nextel Site CA-0222B / Elk Grove
Affiliation:
Client: Nextel Communications Wirelesss Telecommunications Service Facility
No. Pages:
Report Type(s):
Inventory Size: >1 acre
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 5E	35	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	9/18/2002	Kris Berry	
Last Modified:	10/22/2009	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	10/22/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 4412

Citation Information

Authors: Peak, Melinda
Year: 2001
Title: Historic Resource Reconnaissance of a Proposed Surewest Tower in Sacramento Site # 203
Affiliation:
Client: SureWest Communicatlons
No. Pages:
Report Type(s):
Inventory Size: less than 1 acre
No.Sites:
No. Informal:
Collections: Unknown
Disclosure: Not for publication

Associated Resources

Notes

Location Info

County(ies): Sacramento
Yuba
USGS 7.5' Quads: CITRUS HTS
ELK GROVE
FLORIN
GALT
LINCOLN
OLIVEHURST
RIO LINDA
SACRAMENTO EAST
TAYLOR MONUMENT

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 9N R 5E	14	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	10/28/2003	Renee Carter	
Last Modified:	2/9/2010	kate	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	12/4/2008	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 4473

Citation Information

Authors: Pacific Municipal Consultants
Year: 2003
Title: Archaeological and Historic Investigations for the Sheldon Road Widening Project
Affiliation:
Client: City of Elk Grove
No. Pages:
Report Type(s):
Inventory Size: linear: ~ 1.5 miles
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Primary No.	*HRI No.*	*Trinomial*	*Name*
P-34-001250			
P-34-001251			
P-34-001252			
P-34-001253			
P-34-001254			
P-34-001255			
P-34-001256			

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: ELK GROVE
FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 5E	22-27	MDBM	

Address:

Database Record Metadata

	Date	*User*
Entered:	6/16/2005	Gabe Aeschliman
Last Modified:	10/28/2009	Machiel

IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	10/28/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 6154

Citation Information

Authors: Woodward-Clyde Consultants
Year: 1995
Title: Cultural Resources Inventory Report for the Proposed Mojave Northward Expansion Project
Affiliation:
Client: Mojave Pipeline Company, 5001 Commercenter Dr. Suite 300, Bakersfield, CA
No. Pages:
Report Type(s): Archaeological survey
Inventory Size: no area provided
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Primary No.	HRI No.	Trinomial	Name
P-34-001293			
P-34-001294		CA-SAC-817H	Central California Traction Company Housi
P-34-001295		CA-SAC-818H	Flood Control Barrier on Laguna Creek
P-34-001296		CA-SAC-819H	Residential Remnant, Sacramento County
P-34-001297			
P-34-001298			
P-34-001299			California Central Traction Co. Railroad
P-34-001300			SPRR- Ione Branch
P-34-001301			SPRR-Amador Branch
P-34-001302			SPRR San Joaquin Valley Mainline
P-34-001303			Galt Stockpile Area
P-34-001304			

Notes

no USGS map

Location Info

County(ies): Sacramento
USGS 7.5' Quads: BUFFALO CREEK
CARMICHAEL
CLAY
ELK GROVE
FLORIN
GALT
SACRAMENTO EAST
SLOUGHHOUSE
PLSS:
Address:

Database Record Metadata

	Date	User	
Entered:	6/22/2005	Gabe Aeschliman	
Last Modified:	3/2/2010	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	12/2/2008	kate	Clay portion plotted in GIS
	12/2/2008	kate	Sloughhouse portion plotted in GIS
	12/3/2008	kate	Sac East Portion plotted in GIS
	3/2/2010	Machiel	Florin portion plotted in GIS

North Central Information Center Report Detail Record: 10317

Citation Information

Authors: Carolyn Losee
Year: 2009
Title: Cultural Resources Investigation for AT&T Wireless Site #CN1868-A "Hwy 99" 9260 East Stockton Boulevard, Elk Grove, Sacramento County, California 95624
Affiliation: Archaeological Resources Technology
Client: EBI Consulting
No. Pages: 10
Report Type(s): Archaeological survey
Inventory Size:
No.Sites: 0
No. Informal:
Collections: Unknown
Disclosure: Not for publication

Associated Resources

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 5E		MDBM	

Address:	*Address*	*City*	*Assessor's parcel no.*
	9260 East Stockton Boulevard	Elk Grove	

Database Record Metadata

	Date	*User*
Entered:	10/26/2009	pete
Last Modified:	12/16/2009	Pete
IC Actions:		

North Central Information Center Report Detail Record: 10397

Citation Information

Authors: Billat, Lorna
Year: 2009
Title: Big Horn CA-SAC0560: Collocation Submission Packet FCC FORM 621
Affiliation: EarthTouch Inc
Client: Clearwire Wireless Broadband
No. Pages: 35
Report Type(s): Archaeological survey
Inventory Size: 10 ft x 10 ft
No.Sites:
No. Informal:
Collections: Unknown
Disclosure: Not for publication

Associated Resources

Notes

Location Info

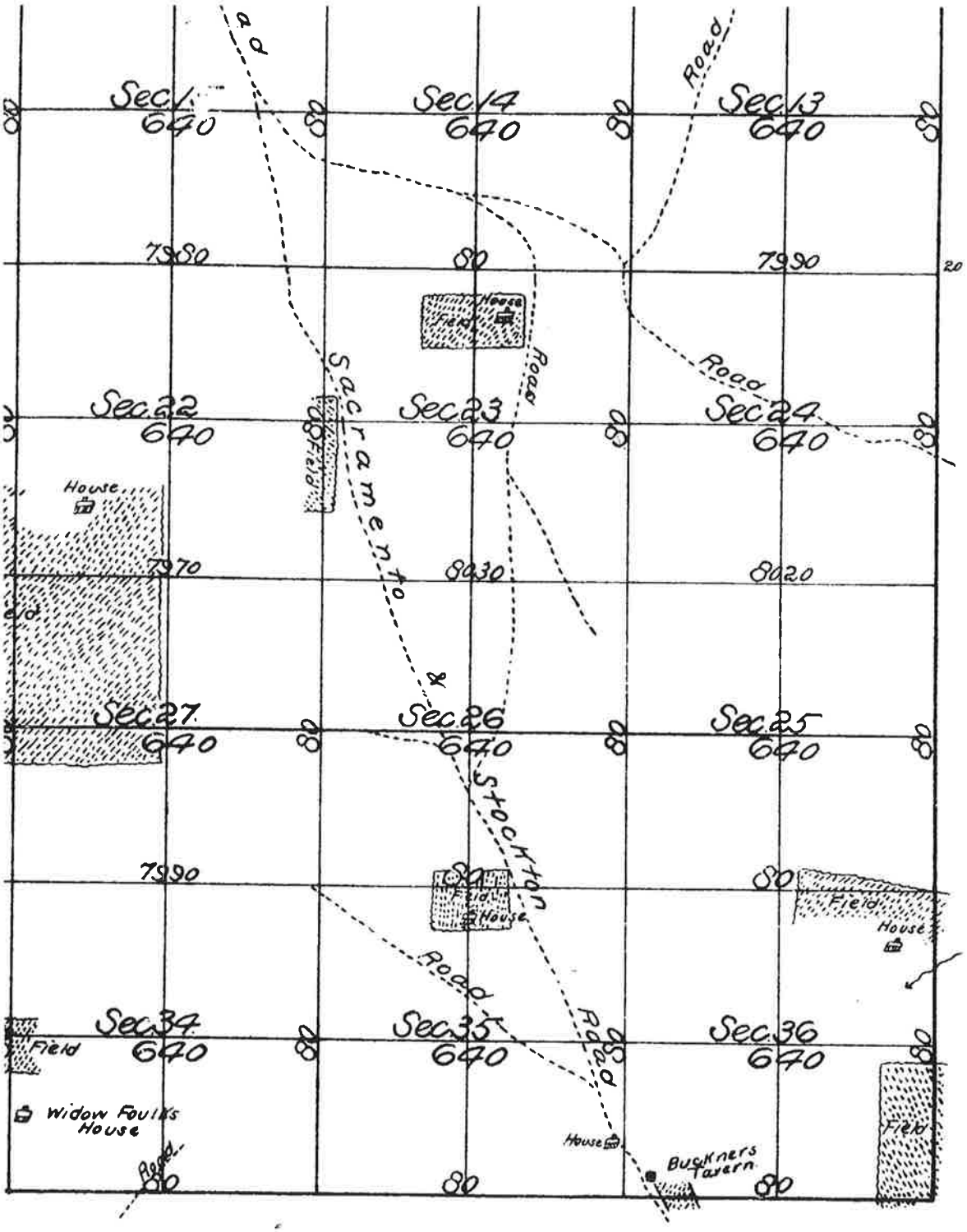
County(ies): Sacramento
USGS 7.5' Quads: FLORIN
PLSS:

Township/range	*Sections*	*BL/M*	*or Land Grant*
T 7N R 5E	36	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	1/14/2010	Ellen	
Last Modified:	1/14/2010	Ellen	
IC Actions:	*Date*	*User*	*Action taken*
	1/14/2010	Ellen	scanned
	1/14/2010	Ellen	digitized



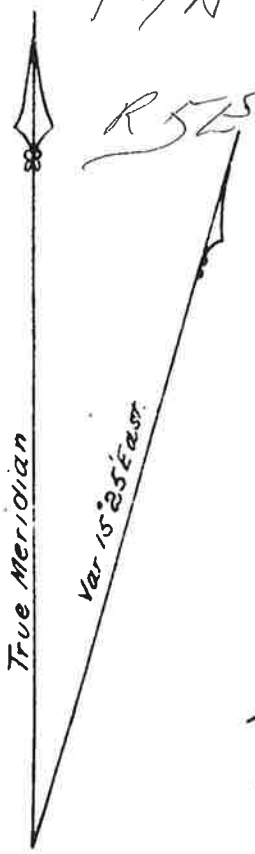
1855

GLO

PLAT

T 7 N

R 5 E



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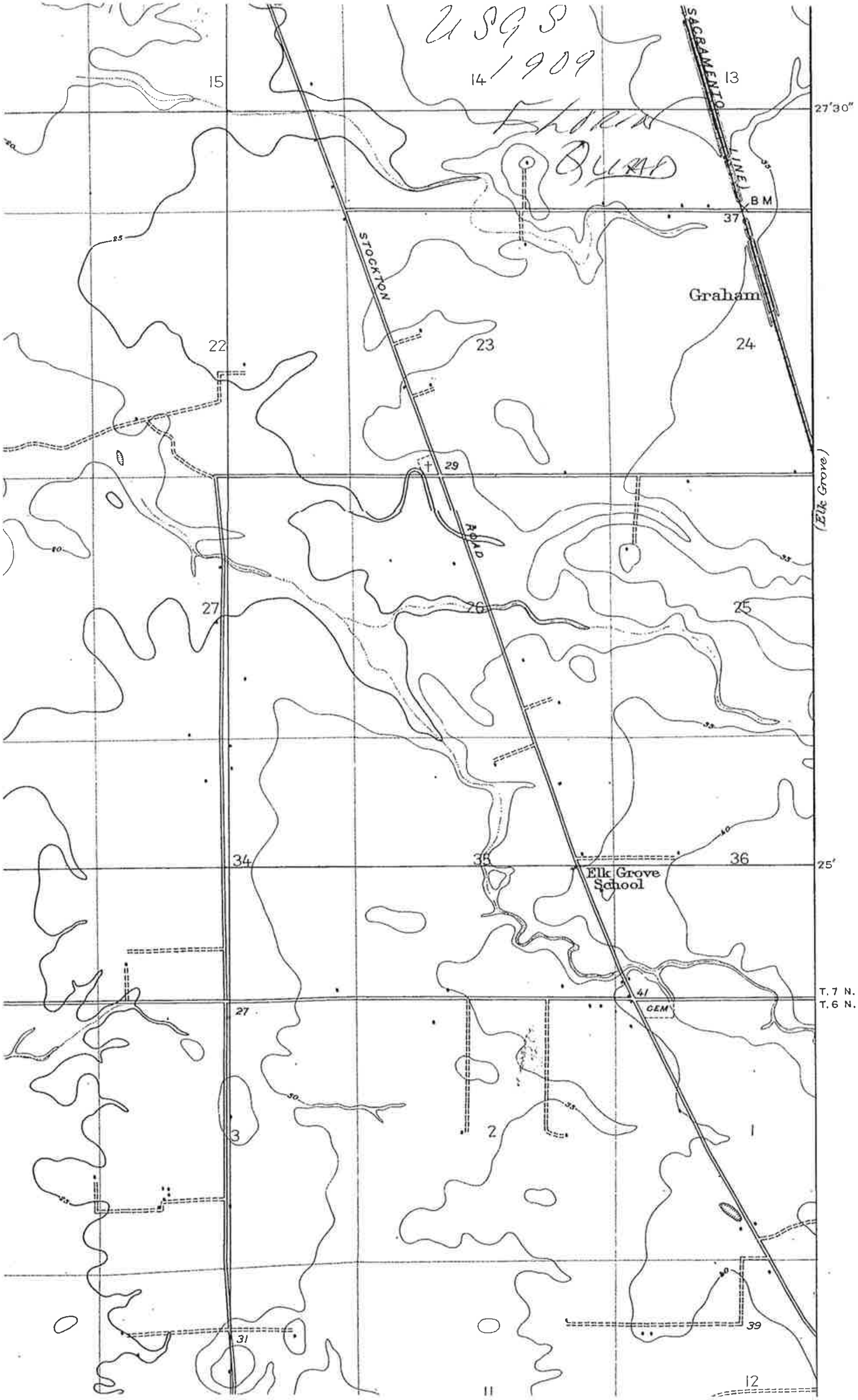
une "
" "

The above Map of Township No 7 North, Range No 5 East (Mount Diablo Meridi
to the field notes of the Surveys thereof, on file in this Office, which have been exam
Surveyor Generals Office
San Francisco California.
August 15th 1855.

John C

California Cemeteries Inventory (From North Central Information Center)

	Name	AKA	AC.	BURIALS	PUBLIC/PRIVATE	LOCATION/ADDRESS	NEW CATEGORY	ACTIVITY/STATUS	CONDITION	Blurb	Transcripts	Photo Records	Coordinates USGS Lat/Lon nn°nn'nn"	Coordinates NAD83/WGS84
13	**East Lawn-Sierra Hills Memorial Park**				Private **East Lawn Sierra Hills Memorial Park and Mortuary** 5757 Greenback Lane Sacramento, CA 95841 916-732-2035 www.eastlawn.com	5757 Greenback Lane Sacramento, CA 95841 (Entry Also off of Verner Ave)		Active					38° 40.54' N, 121° 01.941' W	38.682°N 121.329°W 125 feet
14	**East Lawn Elk Grove Memorial Park**	South East Lawn Memorial Park Elk Grove, East Lawn-Southgate			Private **East Lawn Elk Grove Memorial Park and Mortuary** 9189 East Stockton Boulevard Elk Grove, CA 95624 (916) 732-2031	9189 East Stockton Boulevard Elk Grove, CA 95624		Active					38° 25.41' N, 121° 02.338' W	38.428°N 121.395°W 33 feet
15	**Elder Creek Cemetery** est. 1864	Florin-Elder Creek Cemetery	1.2 ac		District/Public **Elk Grove-Cosumnes Cemetery District** P.O. Box 533 Elk Grove CA 95759 (916) 686-5170	7901 Florin Road Sacramento	Historic (Pioneer)	Active	Good Neatly Maintained	Y	Y		38° 30.40' N, 121° 02.501' W	38.511°N 121.418°W 36 feet
16	**Elk Grove Cemetery** est. 1874 (1877 some claim 1878 Carey)	**I.O.O.F. Cemetery,** **Masonic Lawn Cemetery-Elk Grove**	5 ac. (Orig 2 ac-expanded twice)	400-500	District/Public **Elk Grove-Cosumnes Cemetery District** P.O. Box 533 Elk Grove CA 95759 (916) 686-5170	Elk Grove Blvd. & Highway 99 On the corner of Stockton Blvd. and W. Elk Grove Blvd, just before the freeway on the left (north)	Historic (Pioneer) Fraternal (Masonic) **California State Historical Landmark No. 719 Grave of Elitha Cumi Donner Wilder**	Active	Good Neatly Maintained	Y	Y			
17	***Folsom Prison Burial Grounds***	*Mentioned in Carey, but not much concrete information found.* *Still Exists?*						Needs Investigation & Clarification See Carey p142						
18	**Fair Oaks Cemetery** est. Oct. 21, 1902		4.3 ac. ????		Public-City **Fair Oaks Cemetery District** 7780 Olive Street Fair Oaks, CA 95628 (916) 966-1613 www.FairOaksCemetery.com	7780 Olive Street Fair Oaks, CA 95628		Active	Good Neatly Maintained	Y	Y	Y	38°38.58' N, 121° 01.640' W	38.649°N 121.279°W 161 feet
19	**Franklin Cemetery** est. 1887 (Carey)	Hood-Franklin aka-Georgetown ?	4.3 ac.	300 approx	District/Public **Elk Grove-Cosumnes Cemetery District** P.O. Box 533 Elk Grove CA 95759 (916) 686-5170	Hood-Franklin Road & Franklin Blvd Franklin CA	Historic (Ethnic) Includes Chinese, German	Active	Good Attractive, Neatly Maintained	Y	Y		38° 22.36' N, 121° 2.717' W	38.377°N 121.456°W 20 feet
20	**Freeport Cemetery** STILL EXISTS?					About 1-1/2 mi east of Freeport (Between Freeport & I-57)	Historic (Pioneer)	Cleared- No physical evidence remains?	**Investigation Needed**	Y				
21	**Galt Cemetery** est. 1878	Galt-Arno Cemetery, Galt I.O.O.F. Cemetery, Galt Odd Fellows Cemetery			District/Public **Galt-Arno Cemetery District** 14180 Joy Drive Galt, CA 95632 (916) 686-5170 www.GaltArnoCemDistrict.com	14180 Joy Drive Galt, CA 95632	Historic (Pioneer) Fraternal (Odd Fellows)	Active		Y	Y		38° 14.29' N, 121° 01.805' W	38.241°N 121.302°W 52 feet
22	**Hicksville Cemetery** est. 1879				District/Public **Galt-Arno Cemetery District** 14180 Joy Drive Galt, CA 95632 (916) 686-5170 www.GaltArnoCemDistrict.com	Arno Rd. 1/8 mi. east of Highway 99 Galt, CA	Historic (Pioneer) (Native American)	Active	Good		Y		38° 19.35' N, 121° 01.904' W	38.326°N 121.319°W 49 feet
23	**Hilltop Cemetery** 1878	Odd Fellows Cemetery, Elk Grove Odd Fellows Cemetery	3.5 ac		District/Public **Elk Grove-Cosumnes Cemetery District** P.O. Box 533 Elk Grove CA 95759 (916) 686-5170	Waterman Road, east Elk Grove	Fraternal (Odd Fellows)	Active	Poor Appearance, Burial ID & Location	Y	Y			
24	**Home of Peace Jewish Cemetery**	New Jewish Cemetery, Jewish or Hebrew Cemetery, Chovra Kadisha			Private **Home of Peace Jewish Cemetery** 5700 El Paraiso Ave Blvd Sacramento, CA 95824 (916) 446-1409	5700 El Paraiso Ave Sacramento, CA 95824	Religious (Jewish)	Active	Good Attractive, Neatly Maintained		Y		38° 30.49' N, 121° 02.616' W	38.514°N 121.439°W 30 feet
25	***Jewish Cemetery*** *(See above)* *est.1850*	*Old Jewish Cemetery.* *Hebrew Cemetery.* *Hebrew Benevolent Cemetery*	*160 sf*		*Was under the control of the Congregation B'nai Israel but owned by the Sacramento Hebrew Benevolent Society*	*Extended one block east on 31st Street on the south side of J Street*	*Religious (Jewish)*	*No Longer Exists. Interments Moved to Home of Peace in 1923*						



USGS
1909
Elk Grove Quad
15
14
13
27'30"
SACRAMENTO
LINE
BM
37
STOCKTON
ROAD
Graham
22
23
24
29
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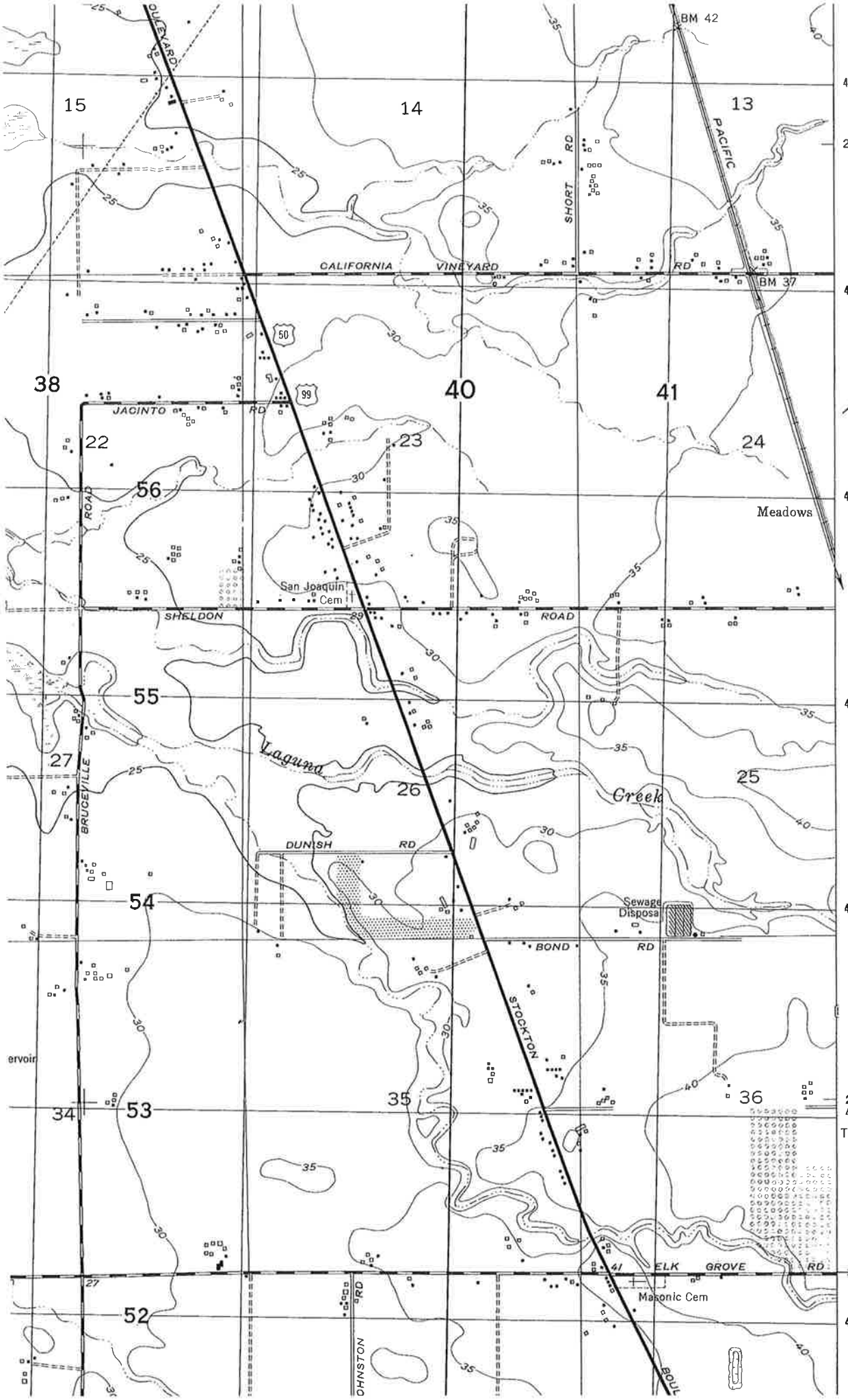

U S Army Corps of Engineers 1953 Florin Sheet

ATTACHMENT D. ARCHAEOLOGICAL SURVEY REPORT

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Pacific Legacy

Incorporated

Cultural Resources Consultants

PHASE I ARCHAEOLOGICAL SURVEY REPORT FOR THE LAGUNA CREEK TRAIL–SOUTH CAMDEN SPUR PROJECT ELK GROVE, CALIFORNIA

FINAL

Prepared for:

City of Elk Grove
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Elk Grove, CA 95758

Prepared by:

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February 2015

2478-03

PHASE I ARCHAEOLOGICAL SURVEY REPORT
LAGUNA CREEK TRAIL- SOUTH CAMDEN SPUR PROJECT
CITY OF ELK GROVE, SACRAMENTO COUNTY

FEDERAL AID PROJECT NUMBER: SR2SL 5479(036)

CONTRACT NUMBER: PL-2478-03

FEBRUARY 2015

Prepared by _____ 2/5/15
John Holson
Principal Investigator
Pacific Legacy, Inc.
Berkeley, CA
Date

Reviewed by _____ 2/11/15
Erin Dwyer
Associate Environmental Planner (Archaeology) (PQS)
Environmental Branch M1, Caltrans District 3
Date

Approved by Susan D. Bauer 2-11-15
Susan D. Bauer, Branch Chief
Environmental Branch M1, Caltrans District 3
Date

CONFIDENTIAL INFORMATION

Archaeological and other heritage resources can be damaged or destroyed through uncontrolled public disclosure of information regarding their location. This document contains sensitive information regarding the nature and location of archaeological sites that should not be disclosed to unauthorized persons.

Information regarding the location, character or ownership of a historic resource is exempt from the Freedom of Information Act pursuant to 16 U.S.C. 470w-3 (National Historic Preservation Act) and 16 U.S.C. § 470hh (Archaeological Resources Protection Act) and California State Government Code, Section 6254.10.

If any information in this document is to be released for public review, all locational information associated with archaeological resources must be redacted before distribution.

SUMMARY OF FINDINGS

The City of Elk Grove, in cooperation with the California Department of Transportation (Caltrans), proposes to construct the Laguna Creek Trail–South Camden Spur trail segment between Bond Road and White Peacock Way in the City of Elk Grove, Sacramento, California. Archaeological investigations for the Laguna Creek Trail–South Camden Spur Project (Project) were carried out under contract between Pacific Municipal Consultants (PMC) and Pacific Legacy, Inc. (Pacific Legacy). The purpose of this study was to identify historic period and/ or prehistoric resources within the Project Area of Potential Effects (APE) that may be adversely affected by the Project.

This document was prepared to comply with historic preservation regulations, policies, and statutes, primarily Section 106 of the National Historic Preservation Act (NHPA), due to federal and state funding. The California Department of Transportation (Caltrans), acting as the lead agency under the delegated authority of the Federal Highway Administration (FHWA), is providing the Project oversight as federal funds are involved. The studies conducted for this Project are consistent with Caltrans responsibilities under the January 2014 *First Amended Programmatic Agreement Among 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, as it Pertains to the Administration of Federal-Aid Highway Program in California (PA)* for compliance with Section 106 of the NHPA.

The City of Elk Grove is responsible for compliance with the California Environmental Quality Act (CEQA), which requires that California public agencies consider the consequences of their actions on the environment, including cultural resources. Public Resources Codes provide specific guidance that supports CEQA compliance. Such guidance includes the evaluation of resources in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using criteria outlined in Section 5024.1 of the California Public Resources Code to determine whether any cultural resources potentially affected by the project are historical resources for the purposes of CEQA.

The City of Elk Grove (City) proposes to extend a multi-use trail from the west end of the existing Laguna Creek Trail at the northern end of Camden Park south to Bond Road. The proposed Project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. The project proposes to close an identified gap in the existing Laguna Creek trail infrastructure that serves the City of Elk Grove from Bond Road to Camden Park. No additional right-of-way is required for the proposed trail alignment and bridge structure beyond encroachment onto Cosumnes Community Services District property. The proposed project would require relocation of a storm drain inlet, a manhole, and irrigation system modifications. The project is consistent with the Elk Grove General Plan and the Elk Grove Bicycle, Pedestrian and Trails Master Plan. Each plan identifies the need for an off-street multi-use trail system providing connections throughout the city and the Sacramento region.

Phase I archaeological investigations for this Project included a review of environmental, ethnographic, prehistoric and historic data for the area, as well as a record and information search by the North Central Information Center. Native American consultation included a review of the NAHC's Sacred Land database and contacting 16 individuals. Pacific Legacy completed an intensive pedestrian survey of the Project APE. The record search, Native American Consultation, and pedestrian survey failed to reveal any cultural resources within or immediately adjacent to the Project APE.

It is Caltrans' policy to avoid cultural resources whenever possible. Further investigations may be needed if the site[s] cannot be avoided by the project. If buried cultural materials are encountered

during construction, it is Caltrans' policy that work stop in that area until a qualified archaeologist can evaluate the nature and significance of the find. Additional survey will be required if the project changes to include areas not previously surveyed.

TABLE OF CONTENTS

APPENDICES

FIGURES

TABLES

1.0 INTRODUCTION

1.1 INTRODUCTION

The City of Elk Grove in conjunction with the California Department of Transportation (Caltrans) is proposing to build the Laguna Creek Trail–South Camden Spur trail segment between northern tip of Bond Road and White Peacock Way. The Laguna Creek Trail–South Camden Spur Project (Project) is located in the City of Elk Grove, and depicted on the Florin (1980) 7.5-minute USGS Quadrangle (Township 7 North, Range 5 East, Section 25) (Figures 1 and 2). The Project Area of Potential Effects (APE) is comprised of approximately nine acres along and surrounding the proposed trail segment (see Figure 3). Pacific Legacy, Inc. (Pacific Legacy) was retained by Pacific Municipal Consultants (PMC) to conduct Phase I archaeological survey of the Project APE. The purpose of this study was to identify historic period and/ or prehistoric resources within the Project APE that may be adversely impacted by the Project.

1.2 PROJECT DESCRIPTION

The proposed Project is located in the City of Elk Grove, Sacramento County, California (Figures 1 and 2). The City of Elk Grove (City) proposes to extend a multi-use trail from the west end of the existing Laguna Creek Trail at the northern end of Camden Park south to Bond Road. The Laguna Creek Trail-North Camden Spur Project and the Laguna Creek Trail-South Camden Spur Project are two contiguous projects designed to provide bicycle-pedestrian trail connectivity between the Camden Point and Camden Estates residential areas (north of Laguna Creek) to schools and commercial retail-shopping-dining uses along or south of Bond Road. The proposed Project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The project proposes to close an identified gap in the trail infrastructure that serves the City of Elk Grove from Bond Road to Camden Park.

No additional right-of-way is required for the proposed trail alignment and bridge structure beyond encroachment onto Cosumnes Community Services District property. The proposed project would require relocation of a storm drain inlet, a manhole, and irrigation system modifications. The project is consistent with the Elk Grove General Plan and the Elk Grove Bicycle, Pedestrian and Trails Master Plan. Each plan identifies the need for an off-street multi-use trail system providing connections throughout the City and the Sacramento region.

1.3 REGULATORY COMPLIANCE

This document was prepared to comply with historic preservation regulations, policies, and statutes, primarily Section 106 of the National Historic Preservation Act (NHPA), due to federal and state funding. Caltrans, acting as the lead agency under the delegated authority of the Federal Highway Administration (FHWA), is providing the Project oversight as federal funds are involved. The studies conducted for this Project are consistent with Caltrans responsibilities under the January 2014 *First Amended Programmatic Agreement Among 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, as it Pertains to the Administration of Federal-Aid Highway Program in California (PA)* for compliance with Section 106 of the NHPA. This report was prepared in accordance with Caltrans' (2013) *Standard Environmental Reference, Vol. 2: Cultural Resources.*

The City of Elk Grove is responsible for compliance with the California Environmental Quality Act (CEQA), which requires that California public agencies consider the consequences of their actions on the environment, including cultural resources. Public Resources Codes provide specific guidance that supports CEQA compliance. Such guidance includes the evaluation of resources in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using criteria outlined in Section 5024.1 of the California Public Resources Code to

determine whether any cultural resources potentially affected by the project are historical resources for the purposes of CEQA.


Camden
Lake

1.3 PROJECT AREA OF POTENTIAL EFFECTS

The APE includes all potential direct and indirect effects to cultural resources that may result from the proposed project (see Figure 2). Thus the APE, as defined by Caltrans, has both vertical and horizontal extents. The Project's horizontal APE consists of a linear, irregularly shaped corridor that extends from the north side of Laguna Creek where it empties into the northern tip of Camden Lake to the northern edge of Bond Road. The APE includes a staging area on the west side of the trail corridor. Subsurface impacts will take place on the northern end of the proposed trail where a bridge will be constructed across Laguna Creek. The vertical APE for the majority of the trail construction is 2 ft., however in the location of the bridge the maximum depth of disturbance will be 40 ft.

The APE map was signed on October 7, 2014, by Erin Dwyer, Associate Environmental Planner (Archaeology) (PQS), and Cindy Root, District Local Assistance Engineer for Caltrans District 3.

1.4 PROJECT HISTORY

Pacific Legacy initially conducted archaeological investigations for the Laguna Creek Trail Project in 2010. This earlier iteration of the project had a different alignment from the current Project. The project was conducted for the City of Elk Grove as a CEQA project and did not involve Caltrans oversight. As currently proposed the Laguna Creek Trail–North Camden Spur and South Camden Spur projects split the earlier Laguna Creek Trail Project into two separate projects with contiguous project areas with different alignments.

1.5 DATES OF FIELDWORK AND PERSONNEL

Pacific Legacy's cultural resources staff meets Caltrans' requirements as professionally qualified staff (equivalent) in the field of prehistoric and historical archaeology. Mr. John Holson served as Project Manager and Principal Investigator of Prehistoric Archaeology. Mr. Holson has a Master's Degree in Cultural Resource Management from the Sonoma State University and over 30 years experience in cultural resources management and California archaeology. Ms. Hannah Ballard, MA, served as Co-Principal Investigator for prehistoric and historical archaeology. Ms. Ballard served as lead author of the ASR. Ms. Ballard has a Master's Degree in Cultural Resource Management from Sonoma State University as well as over 20 years experience in California historical and prehistoric archaeology. Mr. Dan Trout served the Project as CRS3 and conducted the archaeological survey November 17, 2014. Mr. Trout has over 20 years experience in California archaeology. Graham Dalldorf, M.A., served as Project Geoarchaeologist and completed the buried sites analysis. Elena Reese, M.A. and Samantha Schell, B.A. contributed to the report.

2.0 BACKGROUND

2.1 ENVIRONMENTAL SETTING

2.1.1 GEOLOGY, HYDROLOGY, AND SOILS

The Project is situated within the broad expanse of the Sacramento Valley, which lies at the northern end of the Central, or Great Valley. The Central Valley is a long northwest-trending alluvial valley that consists of the Sacramento and San Joaquin Valleys, which meet at the Sacramento-San Joaquin Delta. The Sacramento Valley lies between the Sierra Nevada Range to the east and the Coast Ranges to the west, and is bounded in the north by the Klamath Mountains. The regional landscape evolved extensively during the Late Quaternary period. During the Pleistocene, the Delta area did not exist due to the lower sea levels. The region at that time was characterized by a broad inland valley traversed by well-defined and well-cut drainages. The combined Sacramento and San Joaquin Rivers flowed out to the Pacific Ocean shore near the Farallon Islands. As sea levels rose during the Holocene, the San Francisco Bay formed as coastal valleys were flooded. The downstream segments of rivers such as the Cosumnes and Mokelumne Rivers aggraded, causing repeated avulsions and widespread sediment deposition. As a result, the Pleistocene and Early Holocene surfaces in the region were overlain by thick deposits of younger alluvium that are generally younger than 5,000 years old (Dalldorf 2014:7-8).

Post Euro-American settlement land use changes, including reclamation efforts for conversion of land to agriculture, upstream mining activities, and channelization, have led to dramatic landscape changes in the lower Cosumnes River drainage. These changes include an increase of sedimentation rates up to 25mm/year from 1849 to ca. 1920 as a result of stream aggradation and deposition of historic alluvium including hydraulic mining wash. Subsequent levee construction and reclamation of land for agriculture from ca. 1920 to 1990 simplified channel morphometry and decreased sedimentation rates by limiting overbank flooding (Dalldorf 2014:8).

The Project vicinity currently is characterized by broad alluvial floodplains and shallow-cut drainages with remnants of earlier alluvial fans and terraces. Irrigated agricultural fields and grasslands separate the corridors of riparian vegetation along drainages outside the city limits of Elk Grove. Major rivers near the Project include the American, Cosumnes, and Sacramento Rivers. The Project is approximately three miles northwest of the Cosumnes River on the lower reaches of the Laguna Creek Watershed, which includes approximately 65 square miles of land that drains into Laguna Creek and its tributaries (Brown et al. 2009:2.1). In the nineteenth century, Laguna Creek was described as being dry in the summer, but carried sufficient water in the winter months to support agricultural activity (Thompson and West 1880).

The geology of the Project vicinity is comprised of Quaternary alluvial units. Detailed soil maps of the APE produced by the United States Department of Agriculture's Natural Resource Conservation Service (NRCS) are consistent with the existing surficial geologic maps. Soil map units delineated in the APE (NRCS 2012) belong to the San Joaquin and Bruella series, both of which have well developed soil profiles and are recognized as Pleistocene age soils (Meyer and Rosenthal 2008). San Joaquin series soils are located on undulating low terraces with slopes ranging from 0 to 9 percent. The series is formed in alluvium from mixed, but dominantly granitic sources. Bruella series soils are also located on low terraces and fans with slopes ranging from 0 to 5 percent. The Bruella series consists of very deep, well and moderately well drained soils formed in alluvium from granitic rock sources.

2.1.2 CLIMATE, FLORA/FAUNA, AND CURRENT LAND USE

The Project is situated within a region of Mediterranean climate that is characterized by hot dry summers and warm moist winters, and punctuated by periodic droughts. The climatic region's winter precipitation generally falls as rain with rare snowfalls. The average annual rainfall is about 20 inches during a rainy season that lasts from November to March. The temperatures range from 20 to 115 degrees Fahrenheit during the course of a

year. During the summer months, highs are usually in the 90s, whereas the winters are mostly above the freezing point. During the prehistoric period, the climate was moister and cooler than today (Major 1988; Sikes and Valasik 2014:10).

The natural vegetation habitat is classified as California Prairie in grasslands and Riparian Forest along perennial drainages (Küchler 1977). Fauna in the vicinity include several mammal and bird species. Common small mammals include brush rabbits, cottontail rabbits, deer, mice, voles, gophers, and ground squirrels. Large mammals include mountain lions and coyotes. Hawks and many other bird species, including waterfowl, inhabit the area on a seasonal basis (Dalldorf 2014:7).

The Project is within the Elk Grove city limits and the current land use is characterized by commercial, residential, and recreational development along the creek alignments. Historically, the entire area was agricultural land.

2.2 ETHNOGRAPHY

The following ethnographic context is taken from Barrett (1908), Bennyhoff (1977), Kroeber (1925), Levy (1978), and Merriam (1907). The Project lies within the ethnographic territory of the Eastern Miwok, although it is near the Eastern Miwok and Nisenan territorial border. Linguistically, the Eastern Miwok comprise one of two Miwokan subgroups of the Utian language family and is further subdivided into five languages and three distinct language groups: Plains Miwok; Bay Miwok; and a Sierra Miwok language group.

The primary political unit of the ethnographic Miwok was the tribelet, an independent entity that controlled its own territory and its natural resources. Each tribelet established permanent settlements within its territory, along with seasonal campsites used annually during resource procurement forays. Lineage was also politically important, as it denoted specific geographic localities and usually corresponded to permanent settlements.

Subsistence was based on a gathering and hunting economy involving annual rounds for resource procurement. Dietary staples included acorns, hard seeds, and roots, which were supplemented by fish and game meat. Acorns were harvested between May and August and were stored for the winter months. Hunting was conducted year round and was an important source of food in the winter when fresh plant resources were scarce.

The Miwok tool kit included bow and arrow technology. Flaked stone tools included projectile points, knives, and scrapers made primarily of chert and obsidian. The Eastern Miwok used mortars and pestles for processing acorns and other resources and manufactured both twined and coiled basketry for seed processing, cooking, and storing. The Eastern Miwok participated in a widespread east-west trade network that provided social and economic opportunities (Davis 1961).

Initial contact between Europeans and the indigenous Eastern Miwok groups occurred during the late eighteenth century as a result of Spanish explorations through the San Joaquin and Sacramento valleys. Subsequent establishment and expansion of the Spanish mission system greatly changed the Miwok's indigenous lifestyle. The Miwok were affected by increased population density from coastal and valley groups seeking escape from the missions, introduced diseases such as the malaria epidemic of 1833, and the overwhelming population increase due to the California Gold Rush. Some Miwok participated in the economic endeavors of the newcomers by working in the mining, agricultural, or ranching industries. By the early 1900s, most Miwok were scattered throughout their territory in "rancherias", resisting displacement to reservations established by the federal government.

2.3 PREHISTORY

The Central Valley prehistoric cultural chronology developed as a result of a long history of archaeological investigation in the Sacramento and San Joaquin Delta region. The dominant paradigm for Central Valley

prehistory has been the Central California Taxonomic System (CCTS), pioneered by Lillard et al. (1939), modified by Beardsley (1948), and refined by others (e.g., Bennyhoff 1994). The CCTS is defined by distinct material assemblages reflecting particular cultural adaptations and is organized according to time periods: Early (ca. 4500-2500 B.P.); Middle (ca. 2500-1300 B.P.), and Late (ca. 1300-100 B.P.).

The archaeology of this region is in a period of revision because new data are being collated, analyzed, and interpreted and older assumptions reexamined. The CCTS has given way to the system preferred by Fredrickson (1973), Moratto (1984), and others. Criticism of the CCTS centered on its decreased applicability with distance from its point of origin and the reduced explanatory power within its rigid framework. The focus of the new paradigm is the "pattern", which Fredrickson (1973) defines as an essentially non-temporal, integrative cultural unit: the general way of life shared by people within a given geographic region. Specifically, three patterns - that overlap somewhat in adjoining areas - are recognized for central California: the Windmiller, Berkeley, and Augustine Patterns.

2.3.1 Windmiller Pattern (4500–3000 B.P.)

Windmiller is the earliest identified pattern and extends from approximately 4500–3000 before present (B.P.). It has been identified primarily in the lower Central Valley and Delta regions, but also extends into the Sierra Nevada foothills to the east and to an as yet unknown distance up the valley to the north.

Windmiller peoples are known to have hunted a wide variety of mammals, fish, and fowl, and to have gathered hard seeds. Their material culture assemblage includes large spear and projectile points; trident fish spears; at least two types of fish hooks; quartz crystals and a diversity of charm stone styles; and a baked clay industry that includes net sinkers, pecan-shaped fishline sinkers, and cooking balls. Groundstone items include both the handstone and milling stone and the mortar and pestle. The bone tool industry appears minimal, but includes awls, needles, and flakers. Utilitarian items were often acquired as finished products through trade with outlying localities.

Windmiller groups buried their dead in formal cemeteries both within and separated from their villages in a ritual complex that included the use of red ochre, rich grave offerings, and the ventral extension of the body with a predominately western orientation, although other burial positions (e.g., dorsal extensions and flexed) and cremations are also known. The Windmiller Pattern is said to reflect the influence of a lake or marsh adaptation. The economic stance of a marsh or lake culture is hypothesized to have pre-adapted the Windmiller people to the environment of the lower Sacramento-San Joaquin Valley and Delta, suggesting they may have entered the region with such an economic and resource adaptation.

2.3.2 Berkeley Pattern (3000–1500 B.P.)

The Berkeley Pattern extends roughly from 3000-1500 B.P. and became more widespread, or at least more archaeologically visible, than the antecedent pattern. The Berkeley Pattern differs from the Windmiller Pattern primarily in its greater emphasis on the exploitation of the acorn as a staple, as reflected in the relatively greater amount and variety of mortars and pestles. This pattern is also noted for its especially well-developed bone industry and such technological innovations as ribbon flaking of flaked stone artifacts. During this era, flexed burials replaced extended burials and the use of grave goods generally declined.

2.3.3 Augustine Pattern (1500–Contact Period)

The last complex in this sequence is the Augustine Pattern, which extended temporally from circa 1500 B.P.–until European contact. The Augustine Pattern initially appears to be an outgrowth of the Berkeley Pattern, but is also hypothesized as a blend of Berkeley Pattern traits with those carried into the area by the migration (that would have begun approximately 1800 B.P.) of Wintun populations from the north. This pattern witnessed a great elaboration of ceremonial and social organization, including the development of social

stratification. Exchange became well developed and even more intensive emphasis was placed on the use of acorns as indicated by the use of shaped mortars and pestles and by numerous hopper mortars.

Other notable elements of the material culture assemblage include flanged tubular smoking pipes (cloud blowers), harpoons, and an especially elaborate baked clay industry that includes figures and pottery vessels (Cosumnes Brownware), clam shell disk beads, and the use of small projectile points, referred to as the Gunther Barbed series. The appearance of small projectile points suggests the use of the bow and arrow. Other traits include the introduction of pre-interment grave-pit burning of offerings during the mortuary ritual, increased fixed village sites, population growth, and a developing monetary economy in which beads were used as a standard of exchange.

2.4 HISTORY

The following historical summary draws from several existing histories and sources including: Hoover et al. (1990), Beck and Haase (1974), Thompson and West (1880), Davis (1890), and Reed (1923).

2.4.1 SPANISH PERIOD (1796–1822)

Spanish interest in Upper California began in the 1760s with rumors that Russia was planning to expand its colonial sphere of interest southward from Alaska. In response, Spain sent Father Junípero Serra, along with 300 priests, soldiers, sailors, laborers and retainers, to begin establishing a system of missions northward. In 1769, Mission San Diego and the first presidio were established. This success was followed by a string of settlements and missions northward which ended with Mission San Francisco Solano in Sonoma County in 1823 (Hoover et al. 1966).

The Sacramento River Delta area was discovered and named by several Spanish expeditions in the late eighteenth century; however, it was not explored until the early nineteenth century. The first expedition into the Sacramento Valley was led by Gabriel Moraga in 1808 (Beck and Haase 1974:18). He explored portions of the Mokelumne, Cosumnes, and American Rivers, as well as the Sacramento River. The most thorough exploration of the Sacramento River region by the Spanish occurred in 1817 and was led by Father Narisco Durán. This expedition was probably the first to pass the future location of the City of Sacramento (Hoover et al. 1990:286). The Spanish built their northernmost mission in San Rafael in 1817 and Sacramento County remained at the fringes of the Spanish colony (Hoover et al. 1990:174).

2.4.2 MEXICAN PERIOD (1822–1848)

In 1822, Mexico gained its independence from Spain and built the last and northernmost mission in Sonoma in 1823 (Hoover et al. 1990:476). The Mexican government continued to consider the Sacramento Valley as the edges of Mexican territory and initially left it unsettled. In 1826, Jedediah Strong Smith, an American fur trapper, and his company made the first overland expedition into California and returned in 1827 to explore the San Joaquin and Sacramento Valleys. The Mexican government insisted he and his men leave, but the path into the Sacramento Valley had been opened (Hoover et al. 1990:286). In 1833, the Mexican government secularized the mission lands and transferred them to private ownership. Various governors issued large land grants throughout California to settle the territory.

In 1839, John A. Sutter, a German-Swiss immigrant, petitioned Governor Alvarado for a grant of land in the Sacramento Valley to build a colony. Since the Mexican government had been having trouble with interior Native American groups rustling coastal settlement cattle, the proposal of a buffer in the form of Sutter's colony was attractive (Davis 1890:7). In 1841, Governor Alvarado granted Sutter 11 leagues of land in Sacramento County and he established New Helvetia, also known as Sutter's Fort, which acted both as a safe haven and a trading post (Hoover et al. 1990:286). During the 1840s, Sutter's Fort became a shelter for immigrants entering California via the overland trail.

Along with John Sutter, the Mexican government granted several other ranchos to immigrants in the Sacramento Valley during the 1830s and 1840s. These grantees included J. B. R. Cooper (Rancho Río Ojotska), John Sinclair (Rancho del Paso), W. A. Leidesdorff (Rancho Río de los Americanos), and William Daylor and Jared Sheldon (Rancho Omochumnes) (Hoover et al. 1990:288). Rancho Omochumnes, located along the Cosumnes River, was granted in 1844 and encompassed modern Elk Grove and the APE (Hoover et al. 1990:289).

2.4.3 American Period (1848–Present)

At the close of the Mexican-American War (1846–1848), the 1848 Treaty of Guadalupe Hidalgo brought Alta California under control of the United States. In that same year, James Marshall discovered gold on the American River and the California Gold Rush began. The discovery of gold brought tens of thousands of gold seekers from around the world. These newcomers pushed further into the California interior than had been the case during the Mexican era. The wealth and expanding population in California curtailed the usual territory phase and California became a state in 1850 (Hoover et al. 1990).

In 1849, the first California state capitol was established in San Jose. From there it moved to town of Vallejo and then Benicia. Finally, in 1854, the state capital was moved to Sacramento. Construction on the capitol building began in 1860 and completed in 1874 (Hoover et al. 1990).

Outside of Sacramento, mining camps sprung up along the American and Cosumnes Rivers. Most of these camps disappeared as the Gold Rush ended. With the development of roads and railroads in the 1850s-1870s, towns were established along these transportation routes. The towns of Folsom, Galt, and Elk Grove were among the communities that developed during this time. The original site of Elk Grove was located approximately one mile south of the current city. It started as a way station along Stockton Road in the 1850s (Reed 1923:127). The APE is located within the city limits of modern Elk Grove. In 1876, Elk Grove was established by J. Everson who founded the Elk Grove Building Company. The Elk Grove Building Company was a group of business people who wanted to develop a business center along the new Central Pacific railroad line. During the 1870s, this company built two hotels, a flour mill, a general store, a hardware store, a meat market, furniture manufactory, a carriage and wagon manufactory, dressmaker and milliner shops, and a grain warehouse. By 1880, the town was well established (Thompson and West 1880:234).

2.5 Potential for Buried Archaeological Deposits

The proposed Project is located in the lower reaches of the Laguna Creek watershed, along the southeastern margin of the Sacramento Valley. The landscape of the Sacramento Valley has undergone considerable change since humans first occupied the area ca. 13,500 years ago. In an effort to understand how these changes may have impacted the visibility, burial, and/or preservation of archaeological sites during the period of human occupation, Meyer and Rosenthal (2008) produced a thorough synthesis regarding regional landscape evolution during the late Quaternary. A number of causal factors have contributed to this evolution, including climate change, Holocene sea level rise (eustacy), tectonics, and historic period mining operations, among others. Regardless of the cause, Meyer and Rosenthal (2008) posit that repeated cycles of deposition, erosion, and landscape stability have produced a mosaic of differently-aged landforms along the margins of the Sacramento and San Joaquin Valleys, and that landform age can be used to model the sensitivity for buried archaeological deposits using existing surficial geologic and soil maps, supplemented with radiocarbon dates and focused field investigations.

Existing surficial geologic maps show that the APE is located on a dissected alluvial fan belonging to the lower member of the Riverbank Formation (Helley and Harwood 1985). The lower Riverbank Formation dates to the middle Pleistocene (~450,000-130,000 years ago), and is grouped more generally with "older Pleistocene deposits" by Meyer and Rosenthal (2008). These older Pleistocene deposits are characterized by high gravel content, deeply weathered soil profiles (red to reddish brown), and subsurface accumulations of

clay and silica. More importantly, these deposits were emplaced prior to human occupation in the region, and are thus considered to have a very low potential for buried archaeological resources.

Detailed soil maps of the APE produced by the NRCS comport with the existing surficial geologic maps. Soil map units delineated in the APE (NRCS 2012) belong to the San Joaquin and Bruella series, both of which have well developed soil profiles and are recognized as Pleistocene age soils (Meyer and Rosenthal 2008). Based on this age assignment, these soil series have been assigned a very low potential for buried archaeological resources. Given the similar data provided by both existing surficial geologic and soil maps, the overall potential for buried archaeological resources to be present within the APE is estimated to be very low.

3.0 SOURCES CONSULTED

3.1 RECORDS AND INFORMATION SEARCH

On December 8, 2010, a record and information search (File No. SAC-10-154) was conducted by the staff at the North Central Information Center (NCIC) of the California Historical Resources Information System, California State University, Sacramento. This record search was completed for an earlier Laguna Creek Trail project alignment. Based on consultation with Erin Dwyer, Caltrans PQS, the record search was not updated for the current Project. The record search documentation is included in Appendix A.

The record search consisted of a review of:

- the National Register of Historic Places *Directory of Determinations of Eligibility*, (National Park Service 2010);
- the National Register of Historic Places and California Register of Historical Resources listings (2008 and Updates) (National Park Service 2008; State of California 2008);
- the California Inventory of Historic Resources (State of California 1976);
- the *California Historical Landmarks* (State of California 1996);
- the California Points of Historical Interest listing (State of California 1992);
- the OHP Historic Property Data File (State of California 2010);
- the CALTRANS State and Local Bridge Survey (State of California 1989);
- Historic Maps including: 1855 GLO PLAT, 1909 USGS Florin Quadrangle, 1953 US Army Corps of Engineers Florin Sheet;
- the California Cemeteries Inventory; and,
- other pertinent historic data on file with *Pacific Legacy*.

The record and information search revealed that eleven cultural resource studies have been conducted within ½ mile radius and no cultural resources have been previously recorded within ½ mile of the APE. Of the studies, three (S-00088, S-02529, and S-03070) include portions of the APE. All but a small portion of the APE have been previously studied by these three surveys. Though some of these studies identified cultural resources outside the ½ mile record search radius, all three of these studies were negative within the ½ mile record search radius and within the APE. Table 1 summarizes the previous studies conducted within ½ mile of the APE.

The East Lawn Elk Grove Memorial Park, a cemetery and mortuary is located within a ½ mile of the APE. Historic period maps indicate buildings at this location starting 1909 and 1953 and by 1980 the Cemetery is identified on the USGS Florin 7.5" Quadrangle.

Table 1. Previous Studies within ½ Mile of the APE

NCIC Study Number	Author	Date	Type	Results	In APE?
S-00016	Soule	1981	Cultural Resource Survey	Negative	No
S-00088	Johnson	1974	Cultural Resource Survey	Negative in the APE	Yes
S-00582	Peak and Associates	1980	Cultural Resource Survey	Negative	No
S-02529	Childress	1999	Cultural Resource Survey	Negative	Yes

NCIC Study Number	Author	Date	Type	Results	In APE?
S-03070	Maniery	1995	Cultural Resource Survey	Negative in the APE	Yes
S-03790	Billat	2001	Cultural Resource Survey	Negative	No
S-04412	Peak	2001	Cultural Resource Survey	Negative	No
S-04473	PMC	2003	Cultural Resource Survey	Negative within ½ mile of APE	No
S-06154	Woodward Clyde Associates	1995	Cultural Resource Survey	Negative within ½ mile of APE	No
S-10317	Losee	2009	Cultural Resource Survey	Negative	No
S-10397	Billat	2009	Cultural Resource Survey	Negative	No

3.2 NATIVE AMERICAN CONSULTATION

On behalf of Caltrans, Pacific Legacy conducted Native American consultation for the Project. Pacific Legacy sent a letter to the NAHC on October 21, 2014 requesting a search of their Sacred Lands Inventory for information regarding cultural resources within the APE and the greater Laguna Creek Trail–South Camden Spur Project (Pacific Legacy 2014). A response letter from Ms. Debbie Pilas-Treadway of the NAHC, dated November 3, 2014, was received via fax on November 6, 2014. Ms. Pilas-Treadway indicated that the search of the Sacred Lands File failed to indicate the presence of cultural resources "in the immediate Project Area."

The NAHC provided a list of 16 tribal groups or individuals who may have knowledge of cultural resources in the APE or may have an interest in the Project. Letters signed by Susan Bauer, Senior Environmental Planner, M1, Caltrans District 3, were sent to these groups and three additional groups and individuals on November 19, 2015. The letters provided a brief description of the current status of the Laguna Creek Trail–South Camden Spur Project and requested input on cultural resources in the APE. In December 2014, Hannah Ballard of Pacific Legacy made follow-up phone calls to all the parties on the NAHC list. Ballard spoke directly to six of the potentially interested Native Americans previously contacted by letter.

A written response was received from Daniel Fonseca Miwok/Maidu, Shingle Springs Rancheria Tribal Historic Preservation Officer (THPO) and Most Likely Descendent (MLD) requesting updated information on the Project in addition to copies of any and all record searches and/ or surveys in or around the APE. Documentation of the Native American consultation effort is provided in Table 2 and Appendix B.

Table 2. Summary of Native American Consultation

Native American Contact Name	Native American Contact Group	Date(s) Reply Received			Comment
		Initial Letter	Follow-Up Phone Call	Response Received	
Randy Yonemura	Miwok	11/19/14	12/1/14, phone message	None	
Rhonda Morningstar Pope, Chairperson;	Buena Vista Rancheria	11/19/14	12/1/14, phone message with receptionist	None	Receptionist said the Roselyn Lewenya, Environmental Director, is the individual who would respond to our request for Sec 106 consultation. Left message for Ms. Lewenya.
Roselyn Lewenya, Environmental Director	Buena Vista Rancheria	Initial letter sent to Rhonda Morningstar Pope (11/19/14)	12/1/14, phone message with receptionist	None	Receptionist said the Roselyn Lewenya, Environmental Director, is the individual who would respond to our request for Sec 106 consultation. Left message for Ms. Lewenya.
Judith Marks	Colfax-Todds Valley Consolidated Tribe	11/19/14	12/1/14, phone message	None	
Pamela Cubbler	Colfax-Todds Valley Consolidated Tribe	11/19/14	12/1/14, phone message	None	
Yvonne Miller, Chairperson	Ione Band of Miwok Indians	11/19/14	12/1/14, phone message	None	Administrative Assistant said that Anthony Burris was the most appropriate party to speak with, so a message was left for him.
Anthony Burris, Chairperson	Ione Band of Miwok Indians Cultural Committee	11/19/14	12/2/14, phone message with Admin Assistant	None	Administrative Assistant said that Anthony Burris was the most appropriate party to speak with, so a message was left for him.
Cosme Valdez, Interim Chief Executive	Nashville-El Dorado Miwok	11/19/14	12/2/14, phone message	None	
Hermo Olanio, Vice Chairperson	Shingle Springs Band of Miwok Indians	11/19/14	12/2/14, message with Administrative Assistant	None	
Nicholas Fonseca, Chairperson	Shingle Springs Band of Miwok Indians	11/19/14	12/2/14, message with Administrative Assistant	None	
Daniel Fonseca, Cultural Resource Director, THPO	Shingle Springs Band of Miwok Indians	11/19/14	12/2/14, message with Administrative Assistant	12/5/14	Received response letter via email from Kara Perry, Administrative Assistant in the Cultural Resource Department. Signed hard copy response sent via USPS to Caltrans. The response letter states that Shingle Spring is not aware of any known cultural resources within the project. Shingle

Native American Contact Name	Native American Contact Group	Date(s) Reply Received			Comment
		Initial Letter	Follow-Up Phone Call	Response Received	
					Springs requests continued consultation through project updates from Caltrans. Shingle Springs also requests copies of all completed record searches and surveys completed in and around the APE as well as any archaeological, cultural or environmental reports completed as part of the project.
Gene Whitehouse, Chairperson	United Auburn Indian Community of Auburn Rancheria	11/19/14	12/2/14, phone message	None	
Marcos Guerrero, Tribal Preservation Committee	United Auburn Indian Community of Auburn Rancheria	11/19/14	12/2/14	12/2/14	Mr. Guerrero's staff was doing a search for ethnographic sites in the area. I informed him we had negative record search and survey results. His staff would likely send out a letter requesting a copy of the cultural resources report for the project.
Jason Camp, THPO	United Auburn Indian Community of Auburn Rancheria	11/19/14, 12/3/14 resent via email	12/2/14, phone message	12/3/14, phone message	At Mr. Camp's, request resent letters digitally via email.
Raymond Hitchcock, Chairperson	Wilton Rancheria	11/19/14	12/2/14, receptionist	None	Receptionist directed me to Steven Hutchason, left message on voice mail.
Steven Hutchason, Executive Director Environmental Resources	Wilton Rancheria	11/19/14	12/2/14, phone message	None	Receptionist directed me to Steven Hutchason, left message on voice mail

4.0 ARCHAEOLOGICAL SURVEY METHODS

On November 17, 2014, a pedestrian survey of the APE was conducted by Pacific Legacy archaeologist Daniel Trout, B.A. The purpose of the archaeological survey was to identify cultural resources within the APE that may be affected by the Project. The entire APE (approximately 0.5 miles long and 9 acres) was intensively surveyed using transects spaced no more than 10 meters apart. Figure 4 depicts the survey coverage.

The APE is located on a gently undulating alluvial plane dissected by two drainages and bounded on three sides by commercial, residential, and recreational development. Both of the drainages contained water at the time of survey. The APE is centered on a large, manmade, north-south oriented drainage measuring approximately 12 ft. wide by 5 ft. deep. To the north, an uncovered portion of the drainage divides residential and recreational areas to the east, from a dry wetland and agricultural area to the west. At the northern end of the APE, east-west oriented Laguna Creek empties into Camden Lake. In the southern $^2/_3$ of the APE, a covered portion of the drainage divides the Sacramento and Yolo Counties Vector Control District, to the east, from the Family Fitness Center to the west.

The northeast end of the APE has been disturbed by residential construction and recreational maintenance associated with Camden Park. It also appears that the northwestern portion of the APE has been subject to agricultural activities. On the southern end of the APE, the Sacramento and Yolo Counties Vector Control District is set behind a 6 ft. high chain link fence and has 12 mosquito fish spawning ponds that border the fence line. These ponds have a western access road that has been built up approximately 3 ft. and covered in gravel. The southwestern portion has been affected by commercial improvements: building (Family Fitness Center), parking lot, and drainage construction. The portion of the APE behind the Family Fitness Center is highly disturbed. There are large angular boulders and cobbles that may be left over building materials from drainage construction. The area is also littered with modern trash. Overall the APE exhibited a high level of disturbance.

Vegetation consists of scrub and numerous invasive weeds, reeds along the drainages, and seasonal grasses. Due to dense vegetation, ground visibility throughout the APE was poor (10–15%). During survey particular care was taken to examine portion of the APE with bare ground for cultural material. The soil within the APE is brown clay loam. No prehistoric or historic period cultural materials or resources were identified in the APE during the Phase I survey.

Figure 4. Survey Coverage–South Camden Spur Project, Elk Grove, California

5.0 STUDY FINDINGS AND CONCLUSIONS

The records search and literature review revealed that no previously recorded ethnographic, historic, or archaeological sites were situated within a ½ mile radius of the APE. The pedestrian survey of the APE did not identify prehistoric or historic period resources. The high degree of disturbance and the low potential for buried sites indicates that there is a low potential for archaeological resources to be encountered during Project construction related ground disturbing activities. It is our opinion that no further studies within the APE are necessary unless: 1) Project plans change to include unsurveyed areas; 2) Project plans change to include the construction of additional facilities; or 3) cultural materials are encountered during ground disturbing activities.

It is Caltrans' policy to avoid cultural resources whenever possible. Further investigations may be needed if the site[s] cannot be avoided by the project. If buried cultural materials are encountered during construction, it is Caltrans' policy that work stop in that area until a qualified archaeologist can evaluate the nature and significance of the find. Additional survey will be required if the project changes to include areas not previously surveyed.

If human remains are encountered during ground disturbing activities, work in that area must halt and the Sacramento County Coroner must be immediately notified. If the remains are determined to be Native American, then the NAHC is to be notified within 24 hours as required.

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APPENDICES

APPENDIX A. RECORD SEARCH RESULTS

Pacific Legacy Historic Preservation
Bay Area Division
900 Modoc Street
Berkeley, CA 94707

Phone: 510.524.3991
Fax: 510.524.4419
www.pacificlegacy.com

December 07, 2010

Ms. Sally Torpy, Coordinator
North Central Information Center (NCIC)
California State University, Sacramento
6000 J Street, Adams Building, Suite #208
Sacramento, CA 95819-6100

Re: Records Search Request, Pacific Legacy Project Number: PL-2478-01

Dear Ms. Sally Torpy:

Pacific Legacy is conducting a cultural resources study and would like the North Central Information Center to complete a records search. The project area is indicated on the attached USGS map.

Project Information

Client: PMC Primary Contact: PMC

Client contact: Jed McLaughlin

Project Name: PMC Laguna Creek Trail Project, Elk Grove (PL-2478-01)

County: Sacramento

Description (including location and USGS 7.5' minute quad): Installation of a bike and pedestrian path measuring approximately one-third of a mile in length.

The project area is depicted on the Florin 7.5' USGS Quad: T07N, R05E, Section 25

Records Search Information:

_X_ List and map of sites within project area and a ½ mile radius

_X_ List and map studies within project area and a ½ mile radius

_X_ Copies of site records

_X_ Copies of Study/Survey Reports (Please give full copy of study/survey report if located in the immediate project location not in the ½ mile radius.)

_X_ Bibliography of Study/Survey Reports

Pacific Legacy Historic Preservation
Bay Area Division
900 Modoc Street
Berkeley, CA 94707

Phone: 510.524.3991
Fax: 510.524.4419
www.pacificlegacy.com

_X_ NRHP Listing

_X_ OHP Determination

_X_ CRHR

_X_ California Historic Landmarks

_X_ California Points of Historical Interest

_X_ California Inventory of Historic Resources

_X_ Other Historic Inventories (local) if applicable

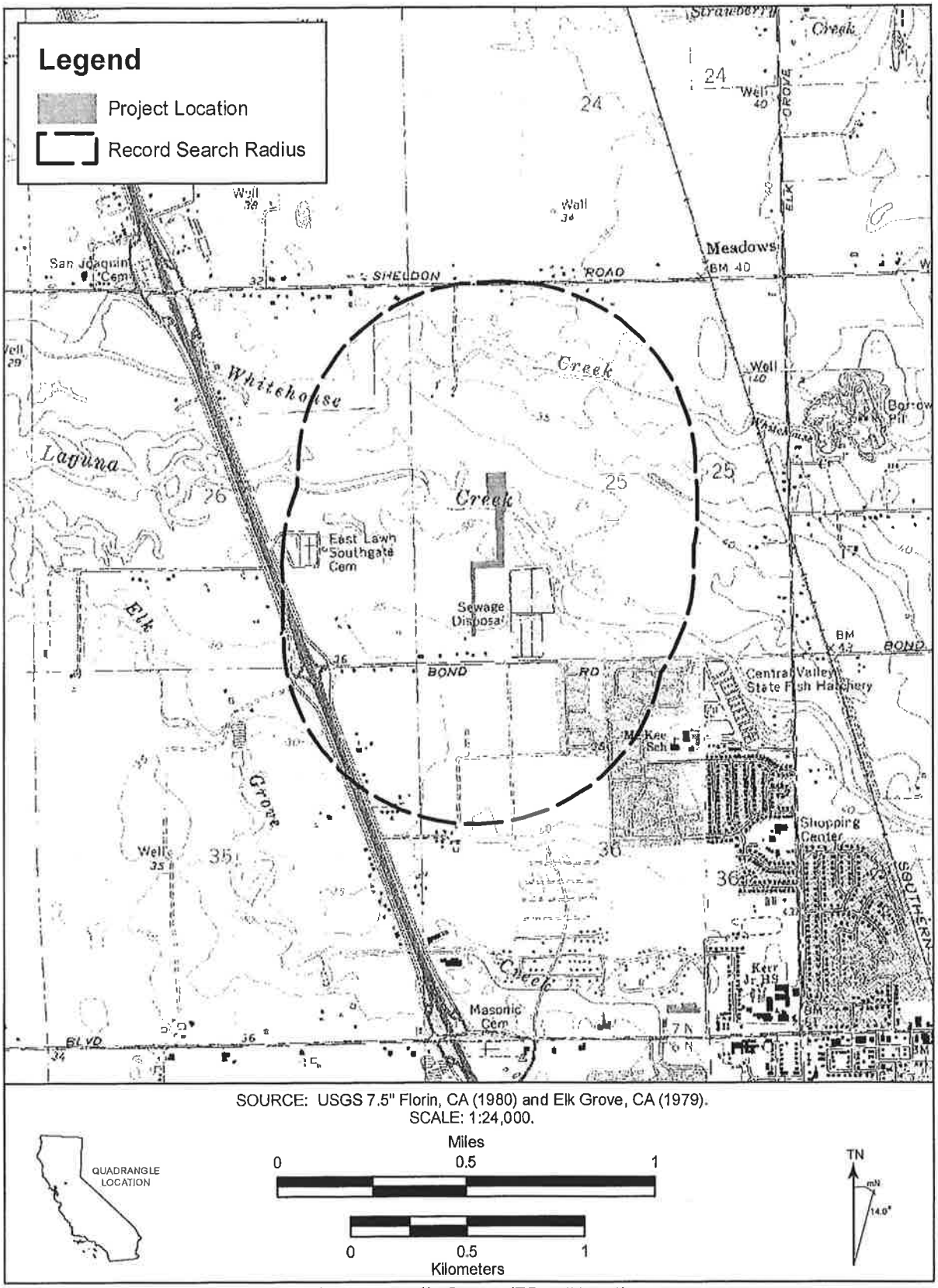
_X_ Historic Maps (GLO, other BLM, Road As-Builts, etc.)

_X_ Caltrans Bridge Inventory

Thank you for your assistance. If you have any questions regarding this request, please do not hesitate to call me at 510-524-3991, extension 106.

Sincerely,

Starla Lane
Archaeologist
900 Modoc St
Berkeley, CA 94707
Ph. 510-524-3991



Project: PMC Laguna Creek Trail Project, Elk Grove (PL-2478-01)

Pacific Legacy
Historic Preservation

NORTH CENTRAL INFORMATION CENTER

916-278-6217 ncic@csus.edu FAX 916-278-5162
CSU-SACRAMENTO - 6000 J STREET, ADAMS BLDG. SUITE #208 - SACRAMENTO, CA 95819-6100
Amador, El Dorado, Nevada, Placer, Sacramento, and Yuba Counties

Records Search Results Summary

December 8, 2010 **NCIC File No.: SAC-10-154**

Starla Lane
Pacific Legacy
900 Modoc Street
Berkeley, CA 94707

Researcher: Ellen Bowden

Re: PMC Laguna Creek Trail Project, Elk Grove (PL-2478-01)
T 7N/R 5E, Section 25
USGS 7.5' Florin Quad, Sacramento County

- **NCIC Resources Within .50 mile Search Radius & Project Area:**

  None

- **NCIC Reports Within .50 mile Search Radius & Project Area:** (11)

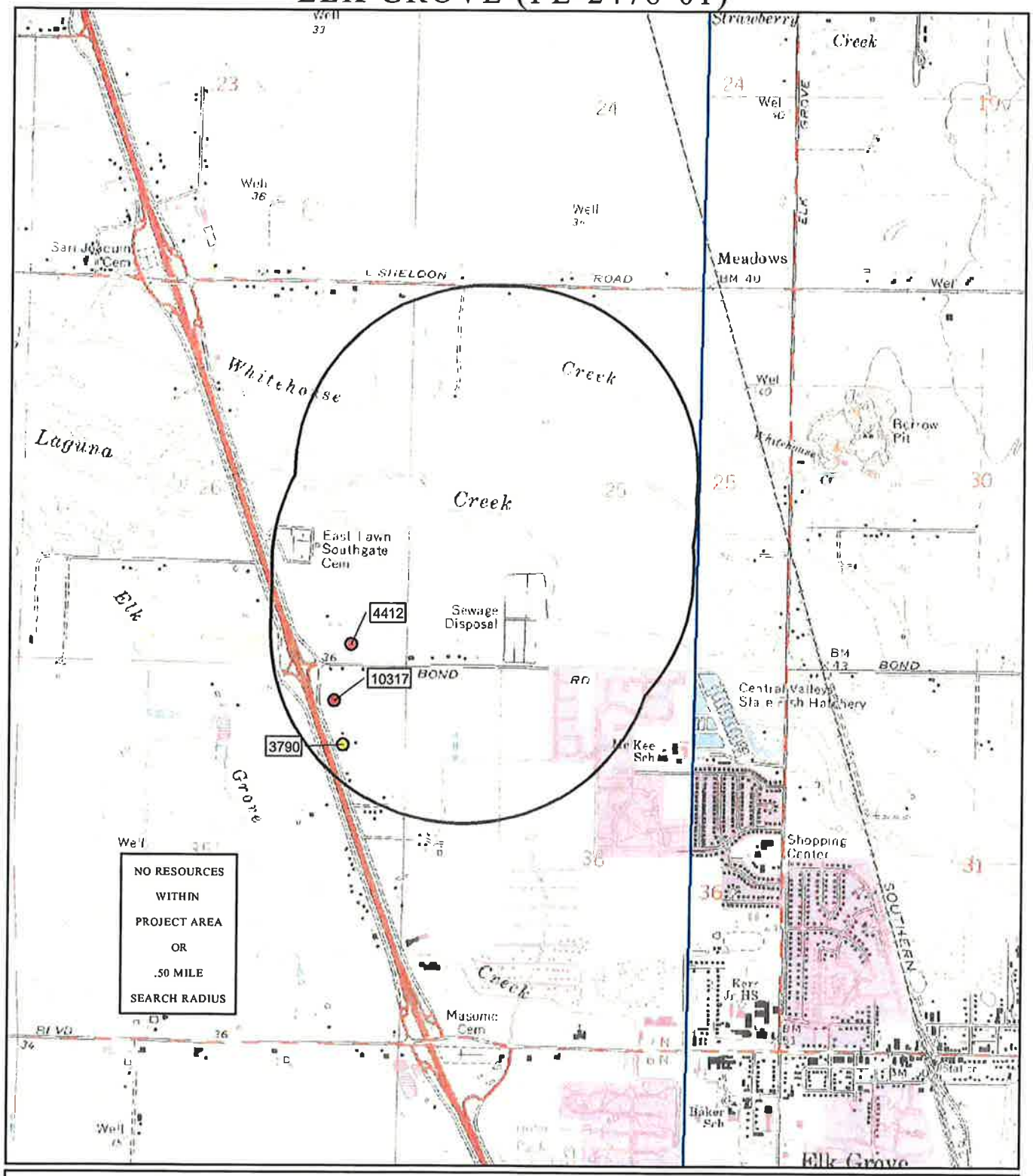
  16
  88
  582
  2529
  3070
  3790
  4412
  4473
  6154
  10317
  10397

- **OHP Historic Property Data File (2010):** Nothing listed
- **Determination of Eligibility (2010):** Nothing listed
- **NRHP/CRHR listings (2008 & updates):** Nothing listed
- **California Inventory of Historic Resources (1976):** Nothing listed

- **California State Historical Landmarks (1996):** Nothing listed
- **Points of Historic Interest (1992):** Nothing listed
- **Caltrans Bridge Inventory**: Nothing listed
- **Historic Maps:**
  1855 GLO PLAT
  1909 USGS Florin Quadrangle
  1953 US Army Corps of Engineers Florin Sheet

Thank you for using our services. An invoice/confidentiality agreement is enclosed; please sign and return a copy for our files.

PMC LAGUNA CREEK TRAIL PROJECT
ELK GROVE (PL-2478-01)



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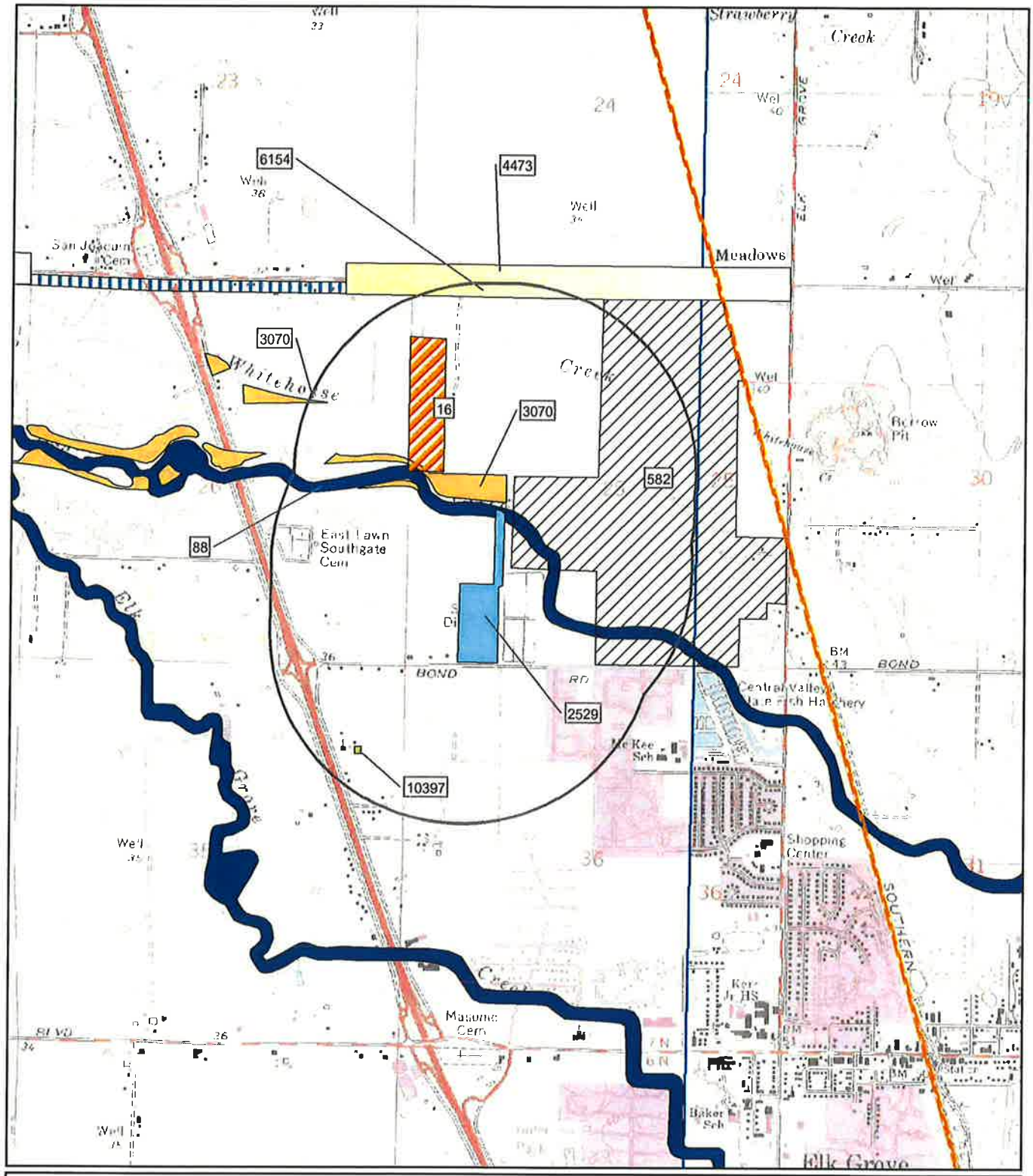
RECORDS SEARCH RESULTS

May depict confidential cultural resource locations.
Do not redistribute.

REPORTS

- 3790
- 4412
- 10317

PMC LAGUNA CREEK TRAIL PROJECT
ELK GROVE (PL-2478-01)



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NORTH CENTRAL INFORMATION CENTER

RECORDS SEARCH RESULTS

May depict confidential cultural resource locations.
Do not redistribute.

REPORTS

16
88
582
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3070
4473
6154
10397

North Central Information Center Report Listing

Doc no.	Year	Author(s)	Title	Affiliation	Client
00016	1981	William E. Soule	Cultural Resources Survey Report, Application 26691, Bristow, Bush, Cantrell, and Wallace "A Partnership."	State Archaeologist II, Enviironmental Unit	Division of Water Rights, 77 Cadillac Drive, Sacramento, CA 95825.
00088	1974	Johnson, Jerald J.	Reconnaissance Archeological Survey of the Morrison Stream Group in Sacramento County, California.		U.S. Army Corps of Engineers, Sacramento District, 650 Capitol Mall, Sacramento, CA 95814.
00582	1980	Peak, Ann S. and Associates	Cultural Resource Assessment of the Proposed Waterford Grove Development, Sacramento County, California.		Terra Engineering, 936 Enterprise Drive, Sacramento, California 95825.
02529	1999	Childress, Mitchell	Cultural Resources Assessment for California Family Fitness Center on Bond Road, Sacramento County, California.		California Family Fitness Centers, 6100 Fair Oaks Blvd. Suite 3A, Carmichael, CA 95608
03070	1995	Maniery, Mary	Draft Environmental Impact Report, Lower Laguna Creek Drainage Master Plan		County of Sacramento, Department of Environmental Review and Assessment
03790	2001	Billat, Lorna Beth	Nextel Site CA-0222B / Elk Grove		Nextel Communications Wirelesss Telecommunications Service Facility
04412	2001	Peak, Melinda	Historic Resource Reconnaissance of a Proposed Surewest Tower in Sacramento Site # 203		SureWest Communications
04473	2003	Pacific Municipal Consultants	Archaeological and Historic Investigations for the Sheldon Road Widening Project		City of Elk Grove
06154	1995	Woodward-Clyde Consultants	Cultural Resources Inventory Report for the Proposed Mojave Northward Expansion Project		Mojave Pipeline Company, 5001 Commercenter Dr. Suite 300, Bakersfield, CA
10317	2009	Carolyn Losee	Cultural Resources Investigation for AT&T Wireless Site #CN1868-A "Hwy 99" 9260 East Stockton Boulevard, Elk Grove, Sacramento County, California 95624	Archaeological Resources Technology	EBI Consulting
10397	2009	Billat, Lorna	Big Horn CA-SAC0560: Collocation Submission Packet FCC FORM 621	EarthTouch Inc	Clearwire Wireless Broadband

North Central Information Center Report Detail Record: 16

Citation Information

Authors: William E. Soule
Year: 1981
Title: Cultural Resources Survey Report, Application 26691, Bristow, Bush, Cantrell, and Wallace "A Partnership."
Affiliation: State Archaeologist II, Enviironmental Unit
Client: Division of Water Rights, 77 Cadillac Drive, Sacramento, CA 95825.
No. Pages: 8
Report Type(s): Archaeological survey
Inventory Size: 12 acres
No.Sites: 0
No. Informal: 0
Collections: Unknown
Disclosure: Not for publication

Associated Resources

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 5E	25	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	7/27/2000	Erin Snyder	
Last Modified:	2/17/2010	kate	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	8/27/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 88

Citation Information

Authors: Johnson, Jerald J.
Year: 1974
Title: Reconnaissance Archeological Survey of the Morrison Stream Group in Sacramento County, California.
Affiliation:
Client: U.S. Army Corps of Engineers, Sacramento District, 650 Capitol Mall, Sacramento, CA 95814.
No. Pages:
Report Type(s):
Inventory Size: Approx. 75-90 miles linear and 950+ acres
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Primary No.	*HRI No.*	*Trinomial*	*Name*
P-34-000048		CA-SAC-21	Hollister Mound
P-34-000075		CA-SAC-48	Azevedo Mound
P-34-000077		CA-SAC-50	Facunes Mound
P-34-000083		CA-SAC-56	Mosher
P-34-000084		CA-SAC-57	
P-34-000085		CA-SAC-58	
P-34-000086		CA-SAC-59	Edinger
P-34-000087		CA-SAC-60	
P-34-000088		CA-SAC-61	
P-34-000089		CA-SAC-62	Robinson
P-34-000090		CA-SAC-63/H	Bloom Mound
P-34-000091		CA-SAC-64	Stone Lake Mound
P-34-000092		CA-SAC-65/H	
P-34-000098		CA-SAC-71	Green
P-34-000099		CA-SAC-72	Herzog Mound
P-34-000110		CA-SAC-83	
P-34-000111		CA-SAC-84	
P-34-000112		CA-SAC-85	Nicholaus Mound
P-34-000113		CA-SAC-86	
P-34-000114		CA-SAC-87/H	
P-34-000115		CA-SAC-88	Elliott Mound
P-34-000116		CA-SAC-89	
P-34-000117		CA-SAC-90	
P-34-000172		CA-SAC-145	South Stone Lake
P-34-000215		CA-SAC-188	
P-34-000229		CA-SAC-202	Mooney Site
P-34-000350		CA-SAC-323	
P-34-000351		CA-SAC-324	
P-34-000352		CA-SAC-325/H	
P-34-000353		CA-SAC-326	
P-34-000354		CA-SAC-327	

Notes

no clear project area USGS map

Location Info

County(ies): Sacramento
USGS 7.5' Quads: BRUCEVILLE
CARMICHAEL
CLARKSBURG
COURTLAND
ELK GROVE
FLORIN
SACRAMENTO EAST

North Central Information Center Report Detail Record: 88

PLSS:	Township/range	Sections	BL/M	or Land Grant
	T 6N R 4E	1, 2, 11-13	MDBM	
	T 6N R 4E	13, 24-26, 35, 36	MDBM	
	T 6N R 4E	2, 11	MDBM	
	T 6N R 4E	26	MDBM	
	T 6N R 5E	1	MDBM	
	T 6N R 5E	1, 7	MDBM	
	T 6N R 5E	18, 19, 30	MDBM	
	T 6N R 6E	5, 6	MDBM	
	T 7N R 4E	13, 24, 25, 35, 36	MDBM	
	T 7N R 4E	35	MDBM	
	T 7N R 5E	1, 12, 25, 36	MDBM	
	T 7N R 5E	1-5, 7-27, 35, 36	MDBM	
	T 7N R 6E	1-12, 15-17, 20-23, 28-32	MDBM	
	T 8N R 5E	25	MDBM	
	T 8N R 5E	25-28, 32, 33	MDBM	
	T 8N R 5E	32	MDBM	
	T 8N R 6E	21-24, 26-30, 32-34	MDBM	
	T 8N R 6E	31, 32, 34	MDBM	

Address:

Database Record Metadata

	Date	User	
Entered:	7/31/2000	Erin Snyder	
Last Modified:	12/17/2008	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	12/17/2008	Machiel	GIS plotting in progress

North Central Information Center Report Detail Record: 582

Citation Information

Authors: Peak, Ann S. and Associates
Year: 1980
Title: Cultural Resource Assessment of the Proposed Waterford Grove Development, Sacramento County, California.
Affiliation:
Client: Terra Engineering, 936 Enterprise Drive, Sacramento, California 95825.
No. Pages:
Report Type(s):
Inventory Size: 287 acres
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: ELK GROVE
FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 6E	25	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	9/5/2000	Erin Snyder	
Last Modified:	9/9/2009	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	9/9/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 2529

Citation Information

Authors: Childress, Mitchell
Year: 1999
Title: Cultural Resources Assessment for California Family Fitness Center on Bond Road, Sacramento County, California.
Affiliation:
Client: California Family Fitness Centers, 6100 Fair Oaks Blvd. Suite 3A, Carmichael, CA 95608
No. Pages:
Report Type(s):
Inventory Size: 15.16 Acres
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 5E	25	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	4/12/2001	Doniella Maher	
Last Modified:	9/24/2009	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	9/24/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 3070

Citation Information

Authors: Maniery, Mary
Year: 1995
Title: Draft Environmental Impact Report, Lower Laguna Creek Drainage Master Plan
Affiliation:
Client: County of Sacramento, Department of Environmental Review and Assessment
No. Pages:
Report Type(s):
Inventory Size:
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Primary No.	*HRI No.*	*Trinomial*	*Name*
P-34-000707		CA-SAC-549H	Olen Ranch

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: FLORIN
PLSS:

Township/range	*Sections*	*BL/M*	*or Land Grant*
T 7N R 5E	25, 26, 27	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	11/28/2001	Courtney Chambers	
Last Modified:	10/7/2009	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	Jay	Added records from old Library database
	10/7/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 3790

Citation Information

Authors: Billat, Lorna Beth
Year: 2001
Title: Nextel Site CA-0222B / Elk Grove
Affiliation:
Client: Nextel Communications Wirelesss Telecommunications Service Facility
No. Pages:
Report Type(s):
Inventory Size: >1 acre
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 5E	35	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	9/18/2002	Kris Berry	
Last Modified:	10/22/2009	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	10/22/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 4412

Citation Information

Authors: Peak, Melinda
Year: 2001
Title: Historic Resource Reconnaissance of a Proposed Surewest Tower in Sacramento Site # 203
Affiliation:
Client: SureWest Communications
No. Pages:
Report Type(s):
Inventory Size: less than 1 acre
No.Sites:
No. Informal:
Collections: Unknown
Disclosure: Not for publication

Associated Resources

Notes

Location Info

County(ies): Sacramento
Yuba

USGS 7.5' Quads: CITRUS HTS
ELK GROVE
FLORIN
GALT
LINCOLN
OLIVEHURST
RIO LINDA
SACRAMENTO EAST
TAYLOR MONUMENT

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 9N R 5E	14	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	10/28/2003	Renee Carter	
Last Modified:	2/9/2010	kate	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	12/4/2008	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 4473

Citation Information

Authors: Pacific Municipal Consultants
Year: 2003
Title: Archaeological and Historic Investigations for the Sheldon Road Widening Project
Affiliation:
Client: City of Elk Grove
No. Pages:
Report Type(s):
Inventory Size: linear: ~ 1.5 miles
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Primary No.	*HRI No.*	*Trinomial*	*Name*
P-34-001250			
P-34-001251			
P-34-001252			
P-34-001253			
P-34-001254			
P-34-001255			
P-34-001256			

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: ELK GROVE
FLORIN

PLSS: *Township/range*	*Sections*	*BL/M*	*or Land Grant*
T 7N R 5E	22-27	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	6/16/2005	Gabe Aeschliman	
Last Modified:	10/28/2009	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	10/28/2009	Machiel	Survey plotted in GIS

North Central Information Center Report Detail Record: 6154

Citation Information

Authors: Woodward-Clyde Consultants
Year: 1995
Title: Cultural Resources Inventory Report for the Proposed Mojave Northward Expansion Project
Affiliation:
Client: Mojave Pipeline Company, 5001 Commercenter Dr. Suite 300, Bakersfield, CA
No. Pages:
Report Type(s): Archaeological survey
Inventory Size: no area provided
No.Sites:
No. Informal:
Collections:
Disclosure:

Associated Resources

Primary No.	HRI No.	Trinomial	Name
P-34-001293			
P-34-001294		CA-SAC-817H	Central California Traction Company Housi
P-34-001295		CA-SAC-818H	Flood Control Barrier on Laguna Creek
P-34-001296		CA-SAC-819H	Residential Remnant, Sacramento County
P-34-001297			
P-34-001298			
P-34-001299			California Central Traction Co. Railroad
P-34-001300			SPRR- Ione Branch
P-34-001301			SPRR-Amador Branch
P-34-001302			SPRR San Joaquin Valley Mainline
P-34-001303			Galt Stockpile Area
P-34-001304			

Notes

no USGS map

Location Info

County(ies): Sacramento
USGS 7.5' Quads: BUFFALO CREEK
CARMICHAEL
CLAY
ELK GROVE
FLORIN
GALT
SACRAMENTO EAST
SLOUGHHOUSE
PLSS:
Address:

Database Record Metadata

	Date	User	
Entered:	6/22/2005	Gabe Aeschliman	
Last Modified:	3/2/2010	Machiel	
IC Actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	12/2/2008	kate	Clay portion plotted in GIS
	12/2/2008	kate	Sloughhouse portion plotted in GIS
	12/3/2008	kate	Sac East Portion plotted in GIS
	3/2/2010	Machiel	Florin portion plotted in GIS

North Central Information Center Report Detail Record: 10317

Citation Information

Authors: Carolyn Losee
Year: 2009
Title: Cultural Resources Investigation for AT&T Wireless Site #CN1868-A "Hwy 99" 9260 East Stockton Boulevard, Elk Grove, Sacramento County, California 95624
Affiliation: Archaeological Resources Technology
Client: EBI Consulting
No. Pages: 10
Report Type(s): Archaeological survey
Inventory Size:
No.Sites: 0
No. Informal:
Collections: Unknown
Disclosure: Not for publication

Associated Resources

Notes

Location Info

County(ies): Sacramento
USGS 7.5' Quads: FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 5E		MDBM	

Address:	*Address*	*City*	*Assessor's parcel no.*
	9260 East Stockton Boulevard	Elk Grove	

Database Record Metadata

	Date	*User*
Entered:	10/26/2009	pete
Last Modified:	12/16/2009	Pete
IC Actions:		

North Central Information Center Report Detail Record: 10397

Citation Information

Authors: Billat, Lorna
Year: 2009
Title: Big Horn CA-SAC0560: Collocation Submission Packet FCC FORM 621
Affiliation: EarthTouch Inc
Client: Clearwire Wireless Broadband
No. Pages: 35
Report Type(s): Archaeological survey
Inventory Size: 10 ft x 10 ft
No.Sites:
No. Informal:
Collections: Unknown
Disclosure: Not for publication

Associated Resources

Notes

Location Info

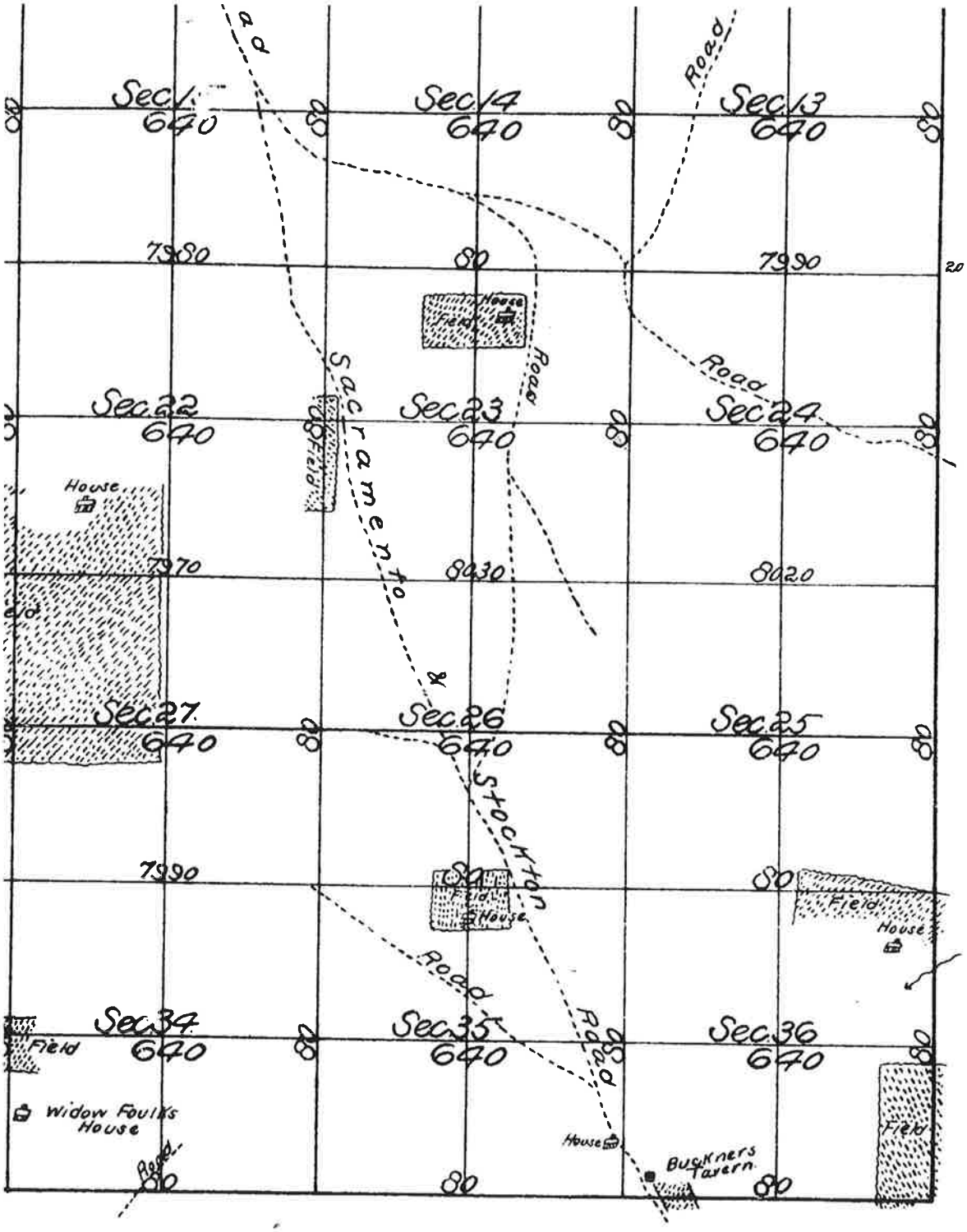
County(ies): Sacramento
USGS 7.5' Quads: FLORIN

PLSS:	*Township/range*	*Sections*	*BL/M*	*or Land Grant*
	T 7N R 5E	36	MDBM	

Address:

Database Record Metadata

	Date	*User*	
Entered:	1/14/2010	Ellen	
Last Modified:	1/14/2010	Ellen	
IC Actions:	*Date*	*User*	*Action taken*
	1/14/2010	Ellen	scanned
	1/14/2010	Ellen	digitized



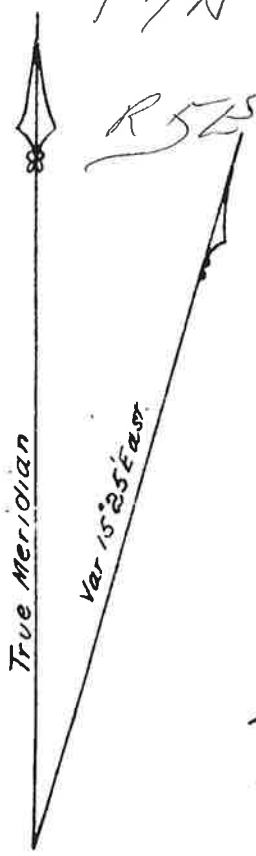
1855

GLO

PLAT

T 7 N

R 5 E



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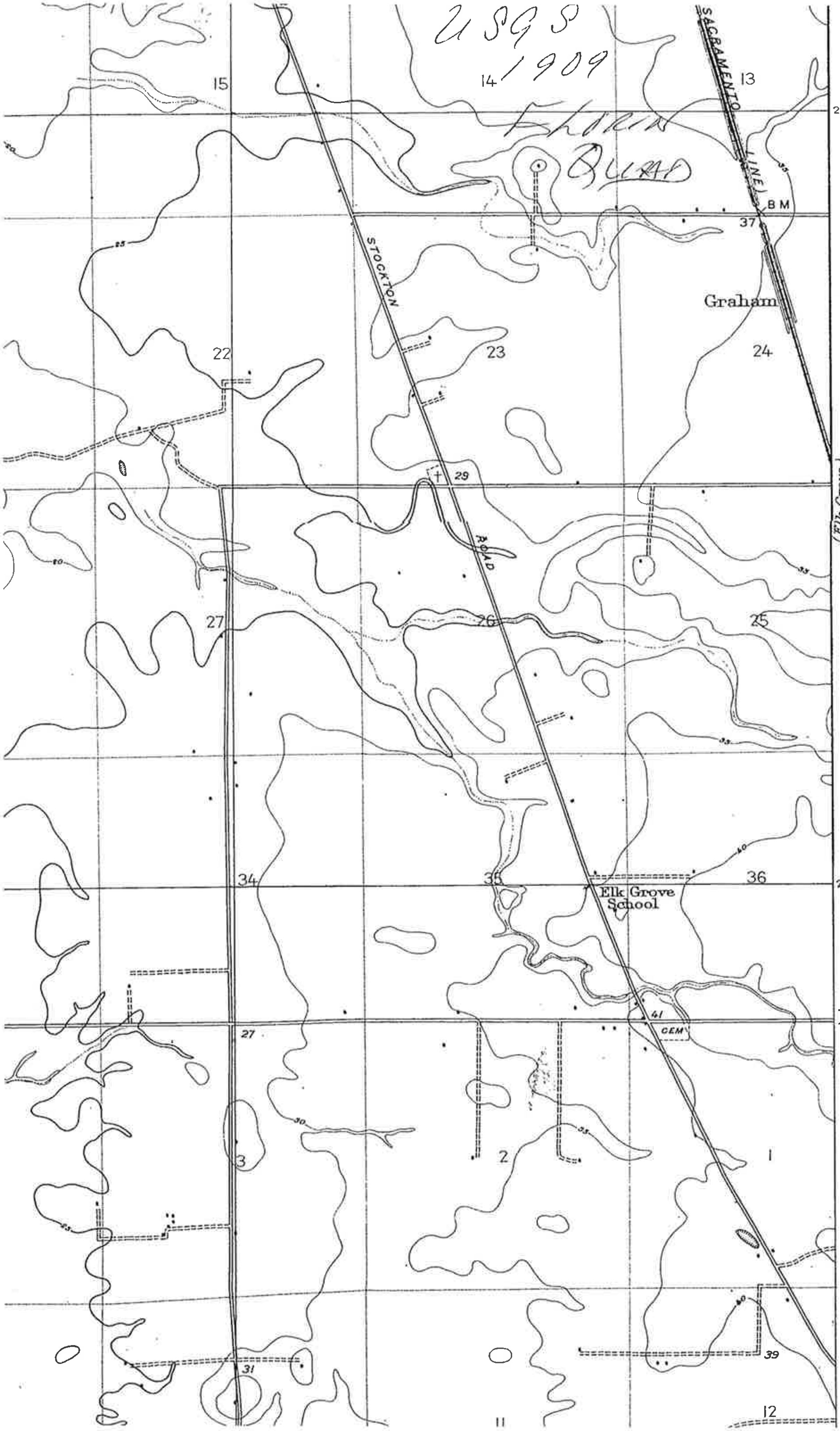
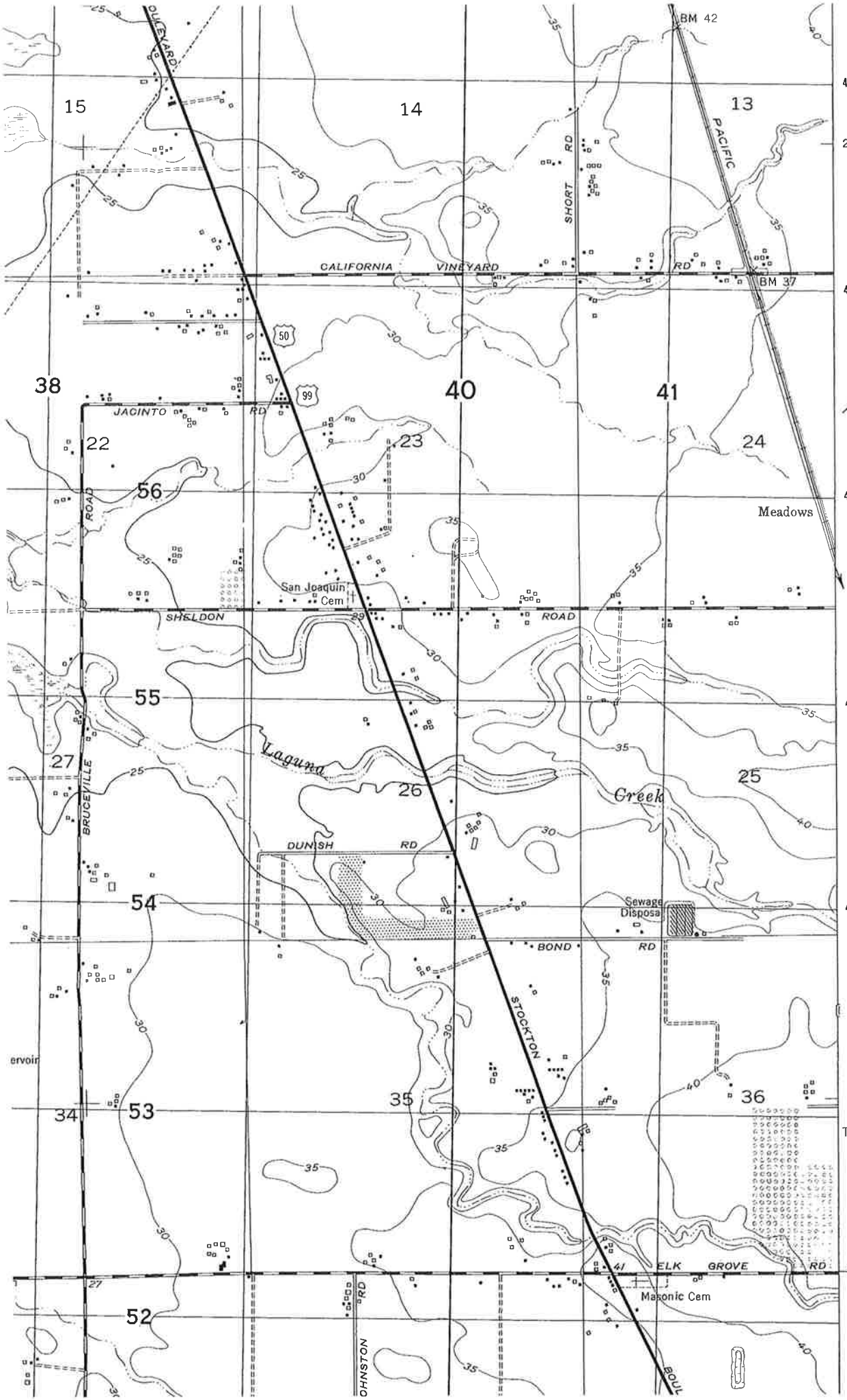
The above Map of Township No 7 North, Range No 5 East (Mount Diablo Meridi
to the field notes of the Surveys thereof, on file in this Office, which have been exam
Surveyor Generals Office
San Francisco California.
August 15th 1855.

John C

California Cemeteries Inventory (From North Central Information Center)

	Name	AKA	AC.	BURIALS	PUBLIC/PRIVATE	LOCATION/ADDRESS	NEW CATEGORY	ACTIVITY/STATUS	CONDITION	Blurb	Transcripts	Photo Records	Coordinates USGS Lat/Lon nn°nn'nn"	Coordinates NAD83/WGS84
13	**East Lawn-Sierra Hills Memorial Park**				Private **East Lawn Sierra Hills Memorial Park and Mortuary** 5757 Greenback Lane Sacramento, CA 95841 916-732-2035 www.eastlawn.com	5757 Greenback Lane Sacramento, CA 95841 (Entry Also off of Verner Ave)		Active					38° 40.54' N, 121° 01.941' W	38.682°N 121.329°W 125 feet
14	**East Lawn Elk Grove Memorial Park**	South East Lawn Memorial Park Elk Grove, East Lawn-Southgate			Private **East Lawn Elk Grove Memorial Park and Mortuary** 9189 East Stockton Boulevard Elk Grove, CA 95624 (916) 732-2031	9189 East Stockton Boulevard Elk Grove, CA 95624		Active					38° 25.41' N, 121° 02.338' W	38.428°N 121.395°W 33 feet
15	**Elder Creek Cemetery** est. 1864	Florin-Elder Creek Cemetery	1.2 ac		District/Public **Elk Grove-Cosumnes Cemetery District** P.O. Box 533 Elk Grove CA 95759 (916) 686-5170	7901 Florin Road Sacramento	Historic (Pioneer)	Active	Good Neatly Maintained	Y	Y		38° 30.40' N, 121° 02.501' W	38.511°N 121.418°W 36 feet
16	**Elk Grove Cemetery** est. 1874 (1877 some claim 1878 Carey)	**I.O.O.F. Cemetery,** **Masonic Lawn Cemetery-Elk Grove**	5 ac. (Orig 2 ac-expanded twice)	400-500	District/Public **Elk Grove-Cosumnes Cemetery District** P.O. Box 533 Elk Grove CA 95759 (916) 686-5170	Elk Grove Blvd. & Highway 99 On the corner of Stockton Blvd. and W. Elk Grove Blvd, just before the freeway on the left (north)	Historic (Pioneer) Fraternal (Masonic) **California State Historical Landmark** No. 719 Grave of Elitha Cumi Donner Wilder	Active	Good Neatly Maintained	Y	Y			
17	***Folsom Prison Burial Grounds***	*Mentioned in Carey, but not much concrete information found.* *Still Exists?*						Needs Investigation & Clarification See Carey p142						
18	**Fair Oaks Cemetery** est. Oct. 21, 1902		4.3 ac. ????		Public-City **Fair Oaks Cemetery District** 7780 Olive Street Fair Oaks, CA 95628 (916) 966-1613 www.FairOaksCemetery.com	7780 Olive Street Fair Oaks, CA 95628		Active	Good Neatly Maintained	Y	Y	Y	38°38.58' N, 121° 01.640' W	38.649°N 121.279°W 161 feet
19	**Franklin Cemetery** est. 1887 (Carey)	Hood-Franklin aka-Georgetown ?	4.3 ac.	300 approx	District/Public **Elk Grove-Cosumnes Cemetery District** P.O. Box 533 Elk Grove CA 95759 (916) 686-5170	Hood-Franklin Road & Franklin Blvd Franklin CA	Historic (Ethnic) Includes Chinese, German	Active	Good Attractive, Neatly Maintained	Y	Y		38° 22.36' N, 121° 2.717' W	38.377°N 121.456°W 20 feet
20	**Freeport Cemetery** STILL EXISTS?					About 1-1/2 mi east of Freeport (Between Freeport & I-5?)	Historic (Pioneer)	Cleared- No physical evidence remains?	**Investigation Needed**	Y				
21	**Galt Cemetery** est. 1878	Galt-Arno Cemetery, Galt I.O.O.F. Cemetery, Galt Odd Fellows Cemetery			District/Public **Galt-Arno Cemetery District** 14180 Joy Drive Galt, CA 95632 (916) 686-5170 www.GaltArnoCemDistrict.com	14180 Joy Drive Galt, CA 95632	Historic (Pioneer) Fraternal (Odd Fellows)	Active		Y			38° 14.29' N, 121° 01.805' W	38.241°N 121.302°W 52 feet
22	**Hicksville Cemetery** est. 1879				District/Public **Galt-Arno Cemetery District** 14180 Joy Drive Galt, CA 95632 (916) 686-5170 www.GaltArnoCemDistrict.com	Arno Rd. 1/8 mi. east of Highway 99 Galt, CA	Historic (Pioneer) (Native American)	Active	Good				38° 19.35' N, 121° 01.904' W	38.326°N 121.319°W 49 feet
23	**Hilltop Cemetery** 1878	Odd Fellows Cemetery, Elk Grove Odd Fellows Cemetery	3.5 ac		District/Public **Elk Grove-Cosumnes Cemetery District** P.O. Box 533 Elk Grove CA 95759 (916) 686-5170	Waterman Road, east Elk Grove	Fraternal (Odd Fellows)	Active	Poor Appearance, Burial ID & Location	Y	Y			
24	**Home of Peace Jewish Cemetery**	New Jewish Cemetery, Jewish or Hebrew Cemetery, Chevra Kadisha			Private **Home of Peace Jewish Cemetery** 5700 El Paraiso Ave Blvd Sacramento, CA 95824 (916) 446-1409	5700 El Paraiso Ave Sacramento, CA 95824	Religious (Jewish)	Active	Good Attractive, Neatly Maintained		Y		38° 30.49' N, 121° 02.616' W	38.514°N 121.439°W 30 feet
25	*Jewish Cemetery (See above)* *est.1850*	*Old Jewish Cemetery.* *Hebrew Cemetery,* *Hebrew Benevolent Cemetery*	*160 sf*		*Was under the control of the Congregation B'nai Israel but owned by the Sacramento Hebrew Benevolent Society*	*Extended one block east on 31st Street on the south side of J Street*	*Religious (Jewish)*	*No Longer Exists. Interments Moved to Home of Peace in 1923*						


USGS
14 1909
Elk Grove Quad
15
13
27'30"
SACRAMENTO LINE
BM
37
STOCKTON
ROAD
Graham
22
23
24
29
(Elk Grove)
27
26
25
34
35
36
25'
Elk Grove School
41
CEM
T. 7 N.
T. 6 N.
27
3
2
1
31
39
11
12



U S
Army
Corps
of
Engineers
1953
Flood
Sheet

APPENDIX B. NATIVE AMERICAN CONSULTATION DOCUMENTATION

Pacific Legacy
Historic Preservation

Bay Area Division
900 Modoc Street
Berkeley, CA 94707

Phone: 510.524.3991
Fax: 510.524.4419
www.pacificlegacy.com

Fax

To:	Cynthia Gomez	From:	Starla Lane
Company:	Native American Heritage Commission	Phone:	(510) 524-3991
Phone:	(916) 373-3710	Fax:	(510) 524-4419
Fax:	(916) 373-5471	Date:	12/22/2014
Re:	Laguna Creek Trail South Camden Spur, Elk Grove (PL-2478-03)	Pages:	4

Inland Empire/Mojave Desert
44702 10th St. West
Lancaster, CA 93534
661.729.9395 Ph.
661.729.9417 Fax

Business Office
PO Box 6050
Arnold, CA 95223
209.795.4481 Ph.
209.795.1967 Fax

Pacific Basin
30 Aulike St. #301
Kailua, HI 96734
808.263.4800 Ph.
808.263.4300 Fax

Sierra/Central Valley
4919 Windplay Dr. #4
El Dorado Hills, CA 95762
916.358.5156 Ph.
916.358.5161 Fax

Southern California
PO Box 421282
San Diego, CA 92142
858.900.8024 Ph.
510.524.4419 Fax

Pacific Legacy
Historic Preservation

Bay Area Division
900 Modoc Street
Berkeley, CA 94707

Phone: 510.524.3991
Fax: 510.524.4419
www.pacificlegacy.com

October 21, 2014

Cynthia Gomez
Native American Heritage Commission
1550 Harbor Boulevard, Suite 100
West Sacramento, CA 95691

Re: Laguna Creek Trail South Camden Spur, Elk Grove (PL-2478-03)

Dear Ms. Gomez:

We have been retained by PMC Environmental to conduct an archaeological assessment for a property located east of Highway 99 in Elk Grove, California. The project area extends from south of Kingsland Court, continues across Laguna Creek, and extends south to Bond Road. We would like to request a review of the Sacred Lands Inventory file and a list of interested Native American groups for Sacramento County. We have attached a map of the project area for your review. If you have any questions, I can be reached at (510) 524-3991 ext 111. Thank you for your kind attention to this matter.

Sincerely,

Starla Lane
Archaeologist
Bay Area Division
900 Modoc St.
Berkeley, CA 94707
Ph. 510-524-3991, ext. 111
lane@pacificlegacy.com

Attachments: Sacred Lands File & Native American Contacts List Request
Project Location Map

Pacific Legacy
Historic Preservation

Bay Area Division
900 Modoc Street
Berkeley, CA 94707

Phone: 510.524.3991
Fax: 510.524.4419
www.pacificlegacy.com

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Boulevard
West Sacramento, CA 95691
(916) 373-3710
(916) 373-5471 – Fax
nahc@pacbell.net
Information Below is Required for a Sacred Lands File Search

Project: Laguna Creek Trail South Camden Spur, Elk Grove (PL-2478-03)

County: Sacramento

USGS Quadrangle Name: Florin, CA (1980), 7.5'

Township: 7N Range: 5E Section(s): 25

Company/Firm/Agency: Pacific Legacy, Inc.

Contact Person: Starla Lane

Street Address: 900 Modoc St.

City: Berkeley, CA Zip: 94707

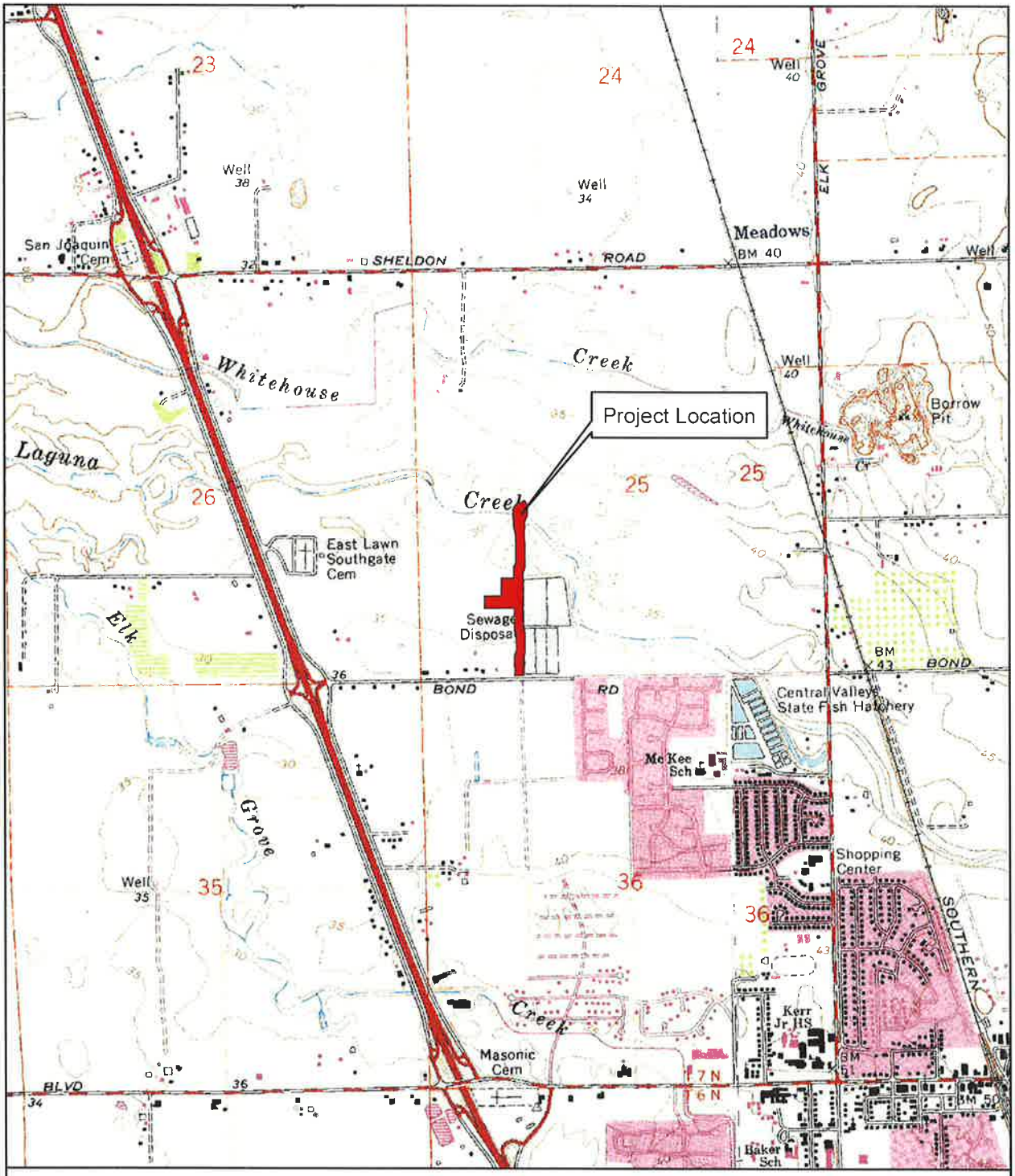
Phone: (510) 524-3991 ext. 111

Fax: (510) 524-4419

Email: lane@pacificlegacy.com

Project Description:

The City of Elk Grove proposes to extend a bicycle and pedestrian trail from the west end of the existing Laguna Creek Trail, at the northern end of Camden Park, south to Bond Road. The proposed project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. This extension is the south half of a two-project proposal to improve the trail system in Elk Grove.



SOURCE: USGS 7.5" Florin, CA (1980) and Elk Grove, CA (1979).
SCALE: 1:24,000.

QUADRANGLE LOCATION

Miles
0 0.5 1

0 0.5 1
Kilometers

TN
mN
14.0°

Project: Laguna Creek Trail-South Camden Spur, Elk Grove, CA (PL 2478-3)

Pacific Legacy
Historic Preservation

STATE OF CALIFORNIA — Edmund G. Brown, Jr., Governor

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd.
West Sacramento, CA 95691
(916) 373-3710
Fax (916) 373-5471

November 3, 2014

Starla Lane
900 Modoc Street
Berkeley, CA 94707

By: FAX: 510-524-4419

3 Pages

Re: Laguna Creek Trail South Camden Spur project, Sacramento County

Ms. Lane,

A record search of the sacred land file has failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the sacred lands file does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Enclosed is a list of Native Americans individuals/organizations who may have knowledge of cultural resources in the project area. The Commission makes no recommendation or preference of a single individual, or group over another. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe or group. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 373-3713.

Sincerely,

Layla Weaston for

Debbie Pilas-Treadway
Environmental Specialist III

Native American Contacts
Sacramento County
October 31, 2014

Randy Yonemura
1305 - 39th Avenue — Miwok
Sacramento , CA 95824
randy_yonemura@yahoo.com
(916) 421-1600
(916) 601-4069 Cell

Buena Vista Rancheria
Rhonda Morningstar Pope, Chairperson
2418 20th Street, Suite 200 — Me-Wuk / Miwok
Sacramento , CA 95811
rhonda@buenavistatribe.com
(916) 491-0011 Office
(916) 491-0012 Fax

Colfax-Todds Valley Consolidated Tribe
Judith Marks
9068 Silverton Circle — Miwok
Lincoln , Ca 95648 — Maidu
(916) 580-4078

Colfax-Todds Valley Consolidated Tribe
Pamela Cubbler
P.O. Box 734 — Miwok
Forresthill , Ca 95631 — Maidu
(530) 320-3943
(530) 367-2093 home

Ione Band of Miwok Indians
Yvonne Miller, Chairperson
P.O. Box 699 — Miwok
Plymouth , CA 95669
administrator@ionemiwok.org
(209) 245-5800 Office
(209) 245-3112 Fax

Ione Band of Miwok Indians Cultural Committee
Anthony Burris, Chairperson
P.O. Box 699 — Miwok
Plymouth , CA 95669
(209) 245-5800 Office
(209) 245-3112 Fax

Nashville-El Dorado Miwok
Cosme Valdez, Interim Chief Executive Officer
P.O. Box 580986 — Miwok
Elk Grove , CA 95758
valdezcom@comcast.net
(916) 429-8047 Voice/Fax

Shingle Springs Band of Miwok Indians
Hermo Olanio, Vice Chairperson
P.O. Box 1340 — Miwok
Shingle Springs , CA 95682 — Maidu
holanio@ssband.org
(530) 676-8010 Office
(530) 676-8033 Fax

Shingle Springs Band of Miwok Indians
Nicholas Fonseca, Chairperson
P.O. Box 1340 — Miwok
Shingle Springs , CA 95682 — Maidu
nfonseca@ssband.org
(530) 676-8010 Office
(530) 676-8033 Fax

Shingle Springs Band of Miwok Indians
Daniel Fonseca, Cultural Resource Director
P.O. Box 1340 — Miwok
Shingle , CA 95682 — Maidu
(530) 676-8010 Office
(530) 676-8033 Fax

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Laguna Creek Trail South Camden Spur project, Sacramento County

Native American Contacts
Sacramento County
October 31, 2014

Jnited Auburn Indian Community of the Auburn Rancheria
Gene Whitehouse, Chairperson
0720 Indian Hill Road Maidu
\uburn , CA 95603 Miwok
530) 883-2390 Office
530) 883-2380 Fax

nited Auburn Indian Community of the Auburn Rancheria
Marcos Guerrero, Tribal Preservation Committee
0720 Indian Hill Road Maidu
uburn , CA 95603 Miwok
guerrero@auburnrancheria.com
530) 883-2364 Office
530) 883-2320 Fax

nited Auburn Indian Community of the Auburn Rancheria
ason Camp, THPO
0720 Indian Hill Road Maidu
uburn , CA 95603 Miwok
amp@auburnrancheria.com
916) 316-3772 Cell
530) 883-2390
530) 888-5476 - Fax

Wilton Rancheria
aymond Hitchcock, Chairperson
728 Kent Street Miwok
k Grove , CA 95624
tchcock@wiltonrancheria-nsn.gov
16) 683-6000 Office
16) 683-6015 Fax

ilton Rancheria
even Hutchason, Executive Director Environmental Resources
'28 Kent Street Miwok
k Grove , CA 95624
tchason@wiltonrancheria-nsn.gov
16) 683-6000, Ext. 2006
16) 683-6015 Fax

his list is current only as of the date of this document.

istribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and afety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code

his list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed aguna Creek Trail South Camden Spur project, Sacramento County

DEPARTMENT OF TRANSPORTATION
DISTRICT 3
703 B Street
Marysville, CA 95901
PHONE (530) 741-7113
FAX (530) 741-4457
TTY 711
www.dot.ca.gov/dist3

Serious drought
Help save water!

November 18, 2014

Mr. Randy Yonemura
4305 39th Avenue
Sacramento, CA 95824

Re: Invitation to Begin Section 106 Consultation for the Laguna Creek Trail, South Camden Spur Project, City of Elk Grove, Sacramento County, California

Dear Mr. Yonemura:

The California Department of Transportation (Caltrans) will be assisting the City of Elk Grove as they initiate a local project to build a bicycle-pedestrian trail between Camden Point and Camden Estates residential areas to schools and commercial areas along or south of Bond Road (see attached map). This project is the south half of two projects and proposes to improve the trail system in Elk Grove by connecting existing segments of the Laguna Creek Trail. The proposed project will involve an extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Additionally, the proposed project would require relocation of a storm drain inlet, a manhole and irrigation system modifications. Minor improvements and striping along existing public right of ways and streets.

Pacific Legacy, Inc. archaeologist, Hannah Ballard, is a consultant representing the City of Elk Grove. Ms. Ballard will be contacting you to initiate Native American consultation. Ms. Ballard will be requesting information you may have regarding sites, traditional cultural properties, values, or other cultural resource considerations within the project area so this information may be incorporated into the planning phase of the project.

A records search was conducted and no previously recorded cultural resources are located within a quarter of a mile of the project area. The entire project area has been previously studied, by two projects. One of these studies was a reconnaissance survey of the Laguna Creek. None of these studies identified cultural resources within or adjacent to the current project area. The nature of this project requires a Phase I investigation, consisting of archaeological survey, to identify any cultural resources within the project's area of potential effect (APE).

Caltrans will serve as the federal lead agency for the project as a result of the Federal Highway Administration (FHWA) assignment of its National Environmental Policy (NEPA) Act responsibilities under Title 23 USC 326 and 327. Caltrans will have review and approval authority for compliance with Section 106 of the National Historic Preservation Act as well as other federal laws and regulations.

Your comments and concerns will be important to the City of Elk Grove as they move forward with their project planning and to Caltrans. If you have any questions or concerns with the project, please contact Hannah Ballard via email (*ballard@pacificlegacy.com*) or at her office (*510-524-3991 extension 6*). Hannah's mailing address is:

Hannah Ballard
Pacific Legacy, Inc.
900 Modoc Street
Berkeley, CA 94707

If you have questions regarding the content of this letter you can contact me at sue.bauer@dot.ca.gov or 530-741-7113 or the Associate Environmental Planner (Archaeology) for this project, Erin Dwyer at erin.dwyer@dot.ca.gov or 530-741-4538.

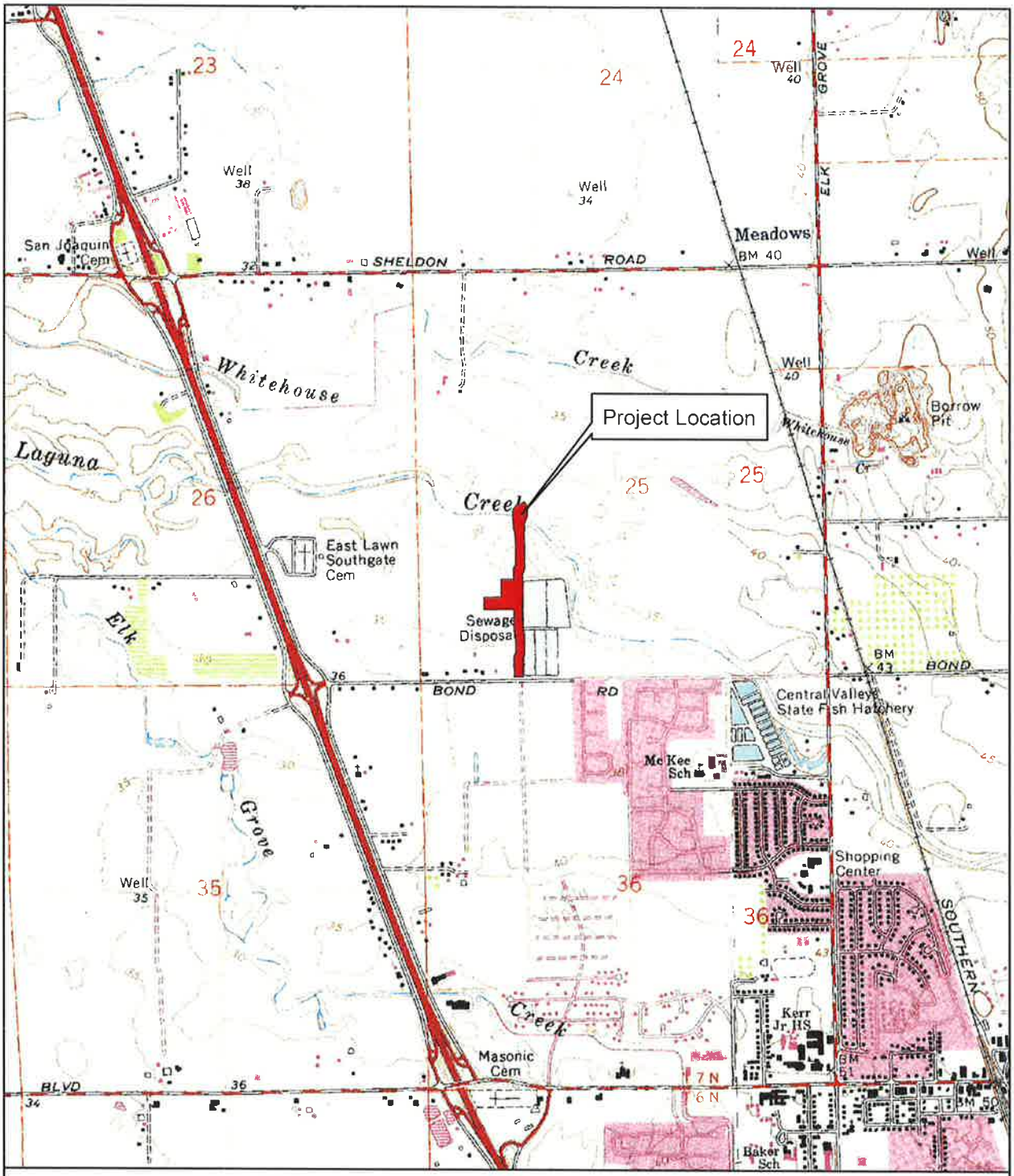
Sincerely,

Susan D. Bauer

Susan D. Bauer
Senior Environmental Planner, M1
Caltrans, District 3

Attachments: Project Location map
Draft Area of Potential Effects map

cc: Erin Dwyer, Associate Environmental Planner (Archaeology)
Michael Karoly, Senior Project Manager, City of Elk Grove



SOURCE: USGS 7.5" Florin, CA (1980) and Elk Grove, CA (1979).
SCALE: 1:24,000.

QUADRANGLE LOCATION

Miles
0 0.5 1

Kilometers
0 0.5 1

TN
mN
14.0°

Project: Laguna Creek Trail-South Camden Spur, Elk Grove, CA (PL 2478-3)

Pacific Legacy Historic Preservation

City of Elk Grove
Development Services

Figure 1
Laguna Creek Trail – South Camden Spur
APE Map

Hannah Ballard

From: Hannah Ballard
Sent: Wednesday, December 03, 2014 2:51 PM
To: jcamp@auburnrancheria.com
Subject: Laguna Creek Trail North Camden Spur and South Camden Spur Projects
Attachments: Signed Consultation Letters Camden North_J Camp.pdf; Signed Consultation Letters Camden South_J Camp.pdf

Dear Mr. Camp,
Thank you for returning my call. I am attaching copies of the letters I sent you for the two Laguna Creek Trail Projects: North Camden Spur and South Camden Spur. I spoke briefly with Marcos Guerrero yesterday. He said that he was having his staff do a search for ethnographic sites within the Project Areas but the search was not yet complete. If you have any questions, comments or information you would like to share about these projects, please contact me either via email or phone.
Regards,
Hannah

Hannah Ballard
Senior Archaeologist
Pacific Legacy, Inc.
900 Modoc St.
Berkeley, CA 94707
Office: 510-524-3991, extension 6
Mobile: 510-821-0173

SHINGLE SPRINGS RANCHERIA
P.O. BOX 1340; SHINGLE SPRINGS, CA 95682
(530) 676-8010; FAX (530) 676-3582

December 5, 2014

Department of Transportation
DISTRICT 3
703 B Street
Marysville, CA 95901

RE: Invitation to begin Section 106 Consultation for the Laguna Creek Trail, South Camden Spur Project

Dear Susan Bauer

Thank you for your letter dated November 18, 2014 in regard to the Laguna Creek Trail. South Camden Spur Project located in Elk Grove. Based on the information provided, the Shingle Springs Band of Miwok Indians is not aware of any known cultural resources on this site. However, SSR would like to have continued consultation through updates, as the project progresses this will foster a greater communication between the Tribe and your agency.

SSR would also like to request any and all completed record searches and or surveys that were done in or around the project area up to and including environmental, archaeological and cultural reports.

If during the progress of the project new information or human remains are found we would like to be able to go over our process with you that we currently have in place to protect such important and sacred artifacts (especially near rivers and streams).

Please contact the following individuals if such finds are made:

Kara Perry, Administrative Assistant (530) 488-4049 kperry@ssband.org

And copy all communications to:
Andrew Godsey, Assistant Cultural Resource Director / NAI agodsey@ssband.org

Thank you for providing us with this notice and opportunity to comment.

Sincerely,

Daniel Fonseca
Cultural Resource Director
Tribal Historic Preservation Officer (THPO)
Most Likely Descendent (MLD)

Native American Consultation Log for Laguna Creek Trail–South Camden Spur Project

Native American Contact Name	Native American Contact Group	Date of Initial Letter	Date of Follow-Up Phone Call	Response Received	Comment
Randy Yonemura	Miwok	11/19/14	12/1/14, phone message	None	
Roselyn Lewenya, Environmental Director	Buena Vista Rancheria	Initial letter sent to Rhonda Morningstar Pope (11/19/14)	12/1/14, phone message with receptionist	None	Receptionist said the Roselyn Lewenya, Environmental Director, is the individual who would respond to our request for Sec 106 consultation. Left message for Ms. Lewenya.
Judith Marks	Colfax-Todds Valley Consolidated Tribe	11/19/14	12/1/14, phone message	None	
Pamela Cubbler	Colfax-Todds Valley Consolidated Tribe	11/19/14	12/1/14, phone message	None	
Yvonne Miller, Chairperson	Ione Band of Miwok Indians	11/19/14	12/1/14, phone message	None	Administrative Assistant said that Anthony Burris was the most appropriate party to speak with, so a message was left for him.
Anthony Burris, Chairperson	Ione Band of Miwok Indians Cultural Committee	11/19/14	12/2/14, phone message with Admin Assistant	None	Administrative Assistant said that Anthony Burris was the most appropriate party to speak with, so a message was left for him.
Cosme Valdez, Interim Chief Executive	Nashville-El Dorado Miwok	11/19/14	12/2/14, phone message	None	
Hermo Olanio, Vice Chairperson	Shingle Springs Band of Miwok Indians	11/19/14	12/2/14, message with Administrative Assistant	None	
Nicholas Fonseca, Chairperson	Shingle Springs Band of Miwok Indians	11/19/14	12/2/14, message with Administrative Assistant	None	
Daniel Fonseca, Cultural Resource Director, THPO	Shingle Springs Band of Miwok Indians	11/19/14	12/2/14, message with Administrative Assistant	12/5/14	Received response letter via email from Kara Perry, Administrative Assistant in the Cultural Resource Department. Signed hard copy response sent via USPS to Caltrans. The response letter states that Shingle Spring is not aware of any known cultural resources within the project. Shingle Springs requests continued consultation through project updates from Caltrans. Shingle Springs also requests copies of all completed record searches and surveys completed in and around the APE as well as any archaeological, cultural or environmental reports completed as part of the project.

Native American Contact Name	Native American Contact Group	Date of Initial Letter	Date of Follow-Up Phone Call	Response Received	Comment
Gene Whitehouse, Chairperson	United Auburn Indian Community of Auburn Rancheria	11/19/14	12/2/14, phone message	None	
Marcos Guerrero, Tribal Preservation Committee	United Auburn Indian Community of Auburn Rancheria	11/19/14	12/2/14	12/2/14	Mr. Guerrero's staff was doing a search for ethnographic sites in the area. I informed him we had negative record search and survey results. His staff would likely send out a letter requesting a copy of the cultural resources report for the project.
Jason Camp, THPO	United Auburn Indian Community of Auburn Rancheria	11/19/14, 12/3/14 resent via email	12/2/14, phone message	12/3/14, phone message	At Mr. Camp's, request resent letters digitally via email.
Raymond Hitchcock, Chairperson	Wilton Rancheria	11/19/14	12/2/14, receptionist	None	Receptionist directed me to Steven Hutchason, left message on voice mail.
Steven Hutchason, Executive Director Environmental Resources	Wilton Rancheria	11/19/14	12/2/14, phone message	None	Receptionist directed me to Steven Hutchason, left message on voice mail

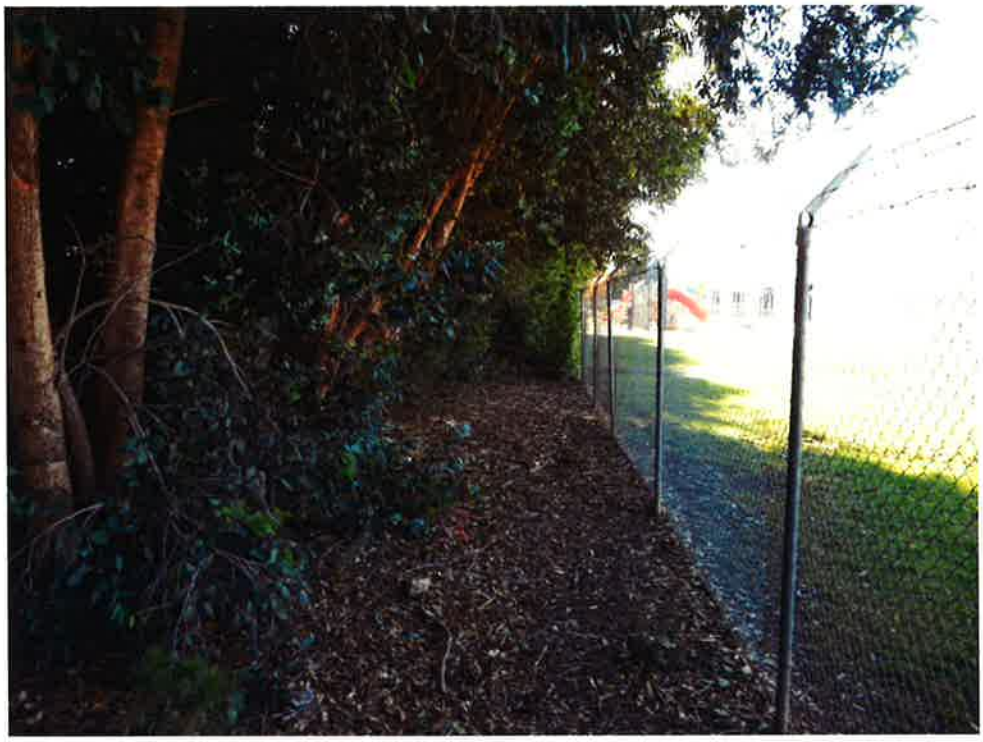
APPENDIX C. PHOTOGRAPHIC DOCUMENTATION

Attachment C: Pacific Legacy Photographic Documentation

Client: Pacific Municipal Consultants
Location: Laguna Creek Trail–South Camden Spur, Elk Grove, Sacramento County

Prepared by: Daniel Trout
Photographer: Daniel Trout
Photograph Date: November 17, 2014

Photograph No. 0064



Direction:
South

Description:
View to the south along fence line with daycare to right and land owned by the Sacramento and Yolo Counties Vector Control District on left.

Photograph No. 0066

Direction:
North

Description:
Overview of APE, view from the north end of the Sacramento and Yolo Counties Vector Control District towards Camden Park.

Attachment C: Pacific Legacy Photographic Documentation

Client: Pacific Municipal Consultants
Location: Laguna Creek Trail-South Camden Spur, Elk Grove, Sacramento County

Prepared by: Daniel Trout
Photographer: Daniel Trout
Photograph Date: November 17, 2014

Photograph No. 0069

Direction:
South

Description:
View from the north end of Sacramento and Yolo Counties Vector Control District towards Bond Road showing built up pond access road.

Photograph No. 0076

Direction:
North

Description:
View from Bond Road, the south end of APE, north over underground storm drain (dirt area) with paved lot on left and Sacramento and Yolo Counties Vector Control District on right.

Attachment C: Pacific Legacy Photographic Documentation

Client: Pacific Municipal Consultants
Location: Laguna Creek Trail-South Camden Spur, Elk Grove, Sacramento County

Prepared by: Daniel Trout
Photographer: Daniel Trout
Photograph Date: November 17, 2014

Photograph No. 0085

Direction:
North

Description:
View to the north from behind fitness club with paved lot on left and open field with dumped trash and debris on left.

Photograph No. 0086

Direction:
Northeast

Description:
Overview of the APE, view from west over paved area behind fitness club. The tree line marks the edged of the Sacramento and Yolo Counties Vector Control District.

Attachment C: Pacific Legacy Photographic Documentation

Client: Pacific Municipal Consultants
Location: Laguna Creek Trail-South Camden Spur, Elk Grove, Sacramento County

Prepared by: Daniel Trout
Photographer: Daniel Trout
Photograph Date: November 17, 2014

Photograph No. 0088

Direction:
North

Description:
View of the storm drain and ditch (center) with the open field to the left and the Sacramento and Yolo Counties Vector Control District on the right.

Photograph No. 0093

Direction:
North

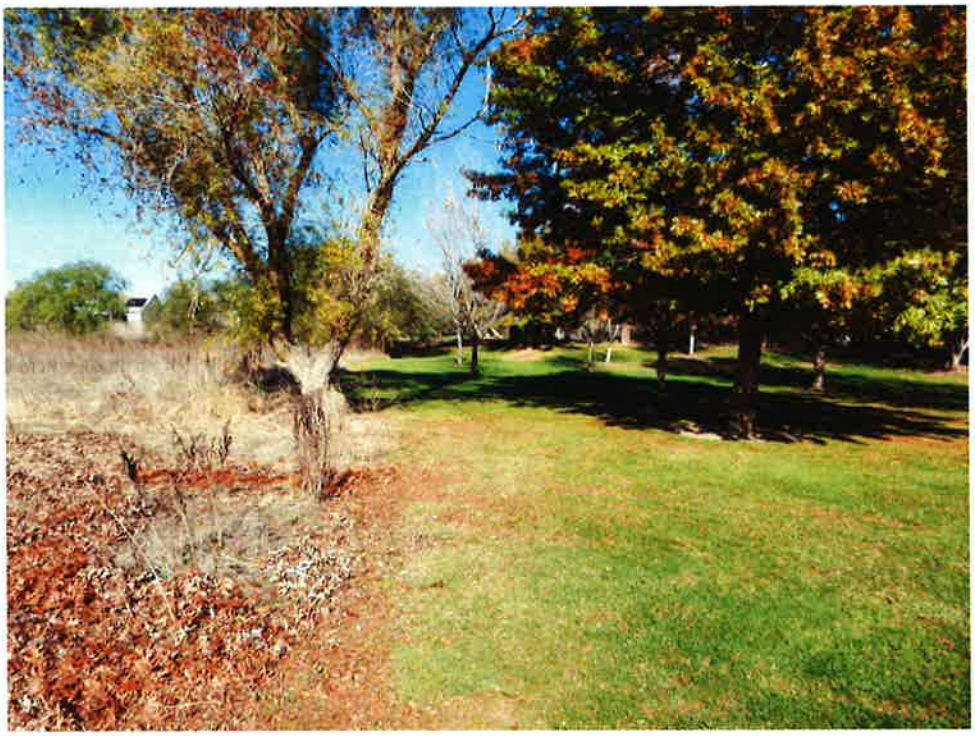
Description:
Laguna Creek where it crosses the APE.

Attachment C: Pacific Legacy Photographic Documentation

Client: Pacific Municipal Consultants
Location: Laguna Creek Trail-South Camden Spur, Elk Grove, Sacramento County

Prepared by: Daniel Trout
Photographer: Daniel Trout
Photograph Date: November 17, 2014

Photograph No. 0094



Direction:
North

Description:
View north of the Laguna creek where Camden Park (right) meets the open field (left).

Photograph No. 0100

Direction:
South

Description:
View from the creek south with ditch on right and the pond out of frame on left.

APPENDIX C – INITIAL SITE ASSESSMENT

HAZARDOUS WASTE INITIAL SITE ASSESSMENT
LAGUNA CREEK TRAIL – SOUTH CAMDEN SPUR PROJECT
BOND ROAD TO LAGUNA CREEK
NORTH OF BOND ROAD, BETWEEN ELK CREST DRIVE AND EMERALD CREST DRIVE
ELK GROVE, CALIFORNIA

January 6, 2015

HAZARDOUS WASTE INITIAL SITE ASSESSMENT
LAGUNA CREEK TRAIL – SOUTH CAMDEN SPUR PROJECT
BOND ROAD TO LAGUNA CREEK
NORTH OF BOND ROAD, BETWEEN ELK CREST DRIVE
AND EMERALD CREST DRIVE
ELK GROVE, CALIFORNIA

Project No. 20152737.001A

Prepared by:

Margaret Carroll

Margaret R. Carroll
Project Professional

Reviewed by:

Lizanne Simmons

Lizanne Simmons
California Professional Geologist No. 7431

KLEINFELDER, INC.
3077 Fite Circle
Sacramento, California 95827
(916) 366-1701

January 6, 2015

KLEINFELDER
Bright People. Right Solutions.

TABLE OF CONTENTS

TABLE OF CONTENTS (continued)

TABLES **Page**

PLATES

APPENDICES

EXECUTIVE SUMMARY

Kleinfelder has completed this Hazardous Waste Initial Site Assessment (ISA) for PMC, Inc. (PMC; the "Client") for the Laguna Creek Trail – South Camden Spur Project, located north of Bond Road, between Elk Crest Drive and Emerald Crest Drive in the City of Elk Grove, California. The Laguna Creek Trail – South Camden Spur Project segment (the Site) runs from Bond Road on the south to Laguna Creek on the north as shown on Plate 1, Site Location and Vicinity Map.

The City of Elk Grove proposes to extend a multi-use trail from the west end of existing Laguna Creek Trail at the northern end of Camden Park south to Bond Road. The proposed project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The project proposes to close an identified gap in the trail infrastructure that serves the City of Elk Grove from Bond Road to Camden Park.

No additional right-of-way is required for the proposed trail alignment and bridge structure beyond encroachment onto Cosumnes Community Services District's property. The proposed project would require relocation of a storm drain inlet, manhole, and two irrigation control valves.

Information gathered and activities performed for this ISA were consistent with those required to address the State of California Department of Transportation's (Caltrans') Initial Site Assessment (ISA) Checklist for Hazardous Waste (Appendix DD, Hazardous Waste, Project Development Procedures Manual, June 18, 2009). The completed Initial Site Assessment Checklist, pursuant to Caltrans' Guidelines, is included in Appendix A.

During the conduct of the ISA, the following information that could potentially affect environmental conditions at the Site was revealed:

- It is not anticipated that impacted soil will be encountered during construction and improvement activities. However, should impacted soil (as evidenced by staining and/or odors) be encountered during construction activities, it is recommended that the Caltrans Unknown Hazard Procedures be implemented

during construction activities. The resident engineer overseeing construction should have available field monitoring equipment (e.g., photoionization detector [PID]) to facilitate timely detection of potentially hazardous conditions in the field.

- Groundwater is anticipated to be encountered at depths greater than 75 feet bgs. Should groundwater be encountered during construction/excavation activities and dewatering become necessary, regulatory compliance and permitting consistent with the Central Valley Regional Water Quality Control Board (CVRWQCB) and National Pollutant Discharge Elimination System (NPDES) requirements should be adhered to, and groundwater sampling should be conducted.
- A Phase II Preliminary Site Investigation (PSI) is not required for this project.

1 INTRODUCTION

1.1 PURPOSE

Information gathered and activities performed for this ISA were consistent with those required to address the State of California Department of Transportation's (Caltrans') Initial Site Assessment (ISA) Checklist for Hazardous Waste (Appendix DD, Hazardous Waste, Project Development Procedures Manual, June 18, 2009). The completed Initial Site Assessment Checklist, pursuant to Caltrans' Guidelines, is included in Appendix A. Qualifications of the report preparers are included in Appendix B. Resumes of environmental professionals conducting this ISA are on file at Kleinfelder's office and are available upon request.

1.2 DETAILED SCOPE-OF-SERVICES

The following sections describe Kleinfelder's work scope:

- Section 2, **Site Setting**, is a compilation of information concerning the Site's location, physical setting, and geologic and hydrogeologic conditions.
- Section 3, **Records Review**, is a compilation of Kleinfelder's review of several databases available from the Federal, State, and local regulatory agencies regarding hazardous substance use, storage, or disposal at the Site; and for off-Site facilities within a 1-mile radius from the Site. This section includes interviews and telephone conversations conducted by Kleinfelder with people, if available, knowledgeable about the Site and local regulatory personnel. This section also presents information obtained from historical resources to supplement regulatory agency database records.
- Section 4, **Visual Survey**, is a compilation of information concerning the Site's location, physical setting, and geologic and hydrogeologic conditions. This section also describes Kleinfelder's Site observations during the Site reconnaissance and observations of adjacent parcels.
- Section 5, **Evaluation**, is a presentation of our findings and opinions regarding the information in Sections 2, 3 and 4, and presents our conclusions regarding the potential for hazardous waste involvement in the proposed Project.

- Section 6, **References**, is a summary of the resources used to compile this report.

Pertinent documentation regarding the Site is included in Appendices of this report.

1.3 SIGNIFICANT ASSUMPTIONS

The subject property is hereafter referred to as the "Site." The Site boundaries are based on *Plate 1, Site Location and Vicinity Map*. The Site conditions discussed herein are limited to readily-apparent environmental conditions observed from the roadway.

1.4 LIMITATIONS AND EXCEPTIONS

Environmental assessments are non-comprehensive by nature and are unlikely to identify all environmental problems or eliminate all risk. The attached report is a qualitative assessment. Kleinfelder offers a range of investigative and engineering services to suit the needs of our clients, including more quantitative investigations. Although risk can never be eliminated, more detailed and extensive investigations yield more information, which may help you understand and better manage your risks. Since such detailed services involve greater expense, we ask our clients to participate in identifying the level of service, which will provide them with an acceptable level of risk. Please contact the signatories of this report if you would like to discuss this issue of risk further.

No warranty, either express or implied is made. Environmental issues not specifically addressed in the report were beyond the scope of our work and not included in our evaluation.

Land use, Site conditions (both on-Site and off-Site) and other factors will change over time (e.g. Environmental Data Resources Inc. (EDR), The EDR Radius Map™ Report with GeoCheck®). Since Site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings and opinions can be considered valid only as of the date of The EDR Radius Map™ Report with GeoCheck® (October 2, 2014). Additionally, Site conditions observed were limited to readily-apparent environmental conditions observed from the roadway, since individual parcel access was not granted.

This report may be used only by the Client, City of Elk Grove, and the registered design professional in responsible charge, only for the purposes stated within a reasonable time from its issuance, but in no event later than 1 year from the date of The EDR Radius Map™ Report with GeoCheck® (expires October 2, 2015). Land or facility use, on and off-Site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time. Any party other than the Client or City of Elk Grove who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the Client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party and client agrees to defend, indemnify, and hold harmless Kleinfelder from any claim or liability associated with such unauthorized use or non-compliance.

During the course of the performance of Kleinfelder's services, hazardous materials may have been discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project Site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, or generator, or person who arranges for disposal, transport, storage or treatment of hazardous materials within the meaning of any governmental statute, regulation or order. Client is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment or disposal of any hazardous materials observed at the project Site, either before or during performance of Kleinfelder's services. Client is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.

2 RECORDS REVIEW

The Site consists of a dirt pathway, vegetated areas, and an unlined drainage swale located primarily within public right-of-way. The Site is shown on the attached Plate 1 – Site Location and Vicinity Map. Select photographs of the Site are presented on Plates 2 through 7.

2.1 PROPOSED PROJECT DESCRIPTION

The City of Elk Grove proposes to extend a multi-use trail from the west end of the existing Laguna Creek Trail at the northern end of Camden Park south to Bond Road. The proposed project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The project proposes to close an identified gap in the trail infrastructure that serves the City of Elk Grove from Bond Road to Camden Park.

No additional right-of-way is required for the proposed trail alignment and bridge structure beyond encroachment onto Cosumnes Community Services District's property. The proposed project would require relocation of a storm drain inlet, manhole, and two irrigation control valves.

2.2 SITE SETTING

The Site is located in an area of residential, commercial, and recreational use in the city of Elk Grove, California. The information presented in Table 1 describes the physical location of the Site. This information was obtained from review of various maps (such as topographic maps and tax assessor maps), aerial photographs, public records at City and/or County offices, interviews, and/or information provided by the Client.

Table 1
Site Setting

Parameter	Information/Comments
LOCATION	The Site consists of a dirt pathway, vegetated areas, and an unlined drainage swale located generally within an easement area in the City of Elk Grove, Sacramento County, California (see Plate 1, Site Location and Vicinity Map).
ASSESSOR PARCEL NUMBERS (APNs)	The Site consists of an easement area for which APNs are not assigned.
ADDRESS(ES)	The Site consists of an easement area that is not associated with street addresses.
SECTION, TOWNSHIP, AND RANGE	Township 7 North, Range 5 East, Section 26, Mt. Diablo Meridian.
ZONING	Information obtained from the City of Elk Grove website (http://www.egplanning.org/gp_zoning/general_plan/index.asp) does not show zoning for the Site, but does show the Site located within an area of mixed use including, commercial and low residential use (to the west) and public/quasi-public and public park use (to the east).
ADJACENT LAND USE	The Site is adjoined to the west by California Family Fitness recreational center (8569 Bond Road) and undeveloped land. Sacramento-Yolo Mosquito & Vector Control District (8631 Bond Road) and portions of Camden Park adjoin the Site to the east and north. Residences adjoin the Site to the north beyond Camden Park and south beyond Bond Road.

Table 2 presents information about the physical setting and regional geology of the Project area. This information was obtained from published maps.

Table 2
Physical Setting

Data	General Information
USGS TOPOGRAPHIC QUADRANGLE	Based on a review of the United States Geological Survey (USGS) Florin, California 7.5-Minute Series (Topographic) Quadrangle Map, dated 1980, the Site is located at approximate elevations ranging between 30 and 36 feet above mean sea level. The topographic relief of the Site is relatively flat sloping gently toward the north.

Table 2 (continued)
Physical Setting

Data	General Information
SOIL TYPE	According to the Physical Setting Source Summary provided in EDR's database report (EDR, 2014a), the Site is situated in an area with a Soil Component to the west referred to as "San Joaquin." The soil surface texture is described as silt loam from surface to approximately 22 inches below the surface. To the east of the Site is the Soil Component name "Water" with a soil surface texture indicated to be silt loam.
OIL AND GAS WELLS	Kleinfelder reviewed DOGGR's Well Finder online database (http://maps.conservation.ca.gov/doggr/index.html) for oil and gas wells located on the Site and in the Site vicinity. There are no oil or gas wells depicted on the Site or in the Site vicinity. A copy of the Well Finder search results is provided in Appendix C.

Information about groundwater is presented on Table 3. This information was obtained from published data and maps, interviews with public agencies, and/or from previous investigations conducted by Kleinfelder in the vicinity of the Site.

Table 3
Regional Geology and Hydrogeology

Physical Parameter	Information/Comments
REGIONAL PHYSIOGRAPHY AND GEOLOGY	The Site is located in the eastern portion of the Great Valley physiographic province that is bound to the east by the Sierra Nevada Mountains and to the west by the Coast Ranges. The basin extends north to the City of Red Bluff and south to the City of Bakersfield. The Great Valley is monotonous geologically, representing primarily the alluvial, flood, and delta plains of its two major rivers and their tributaries (Norris and Webb, 1990).
REGIONAL HYDROGEOLOGY	The Site is located within South American Subbasin of the Sacramento Valley Groundwater Basin. The South American Subbasin is bound on the east by 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. The South American Subbasin aquifer system is comprised of continental deposits of late Tertiary to Quaternary age. These deposits include younger alluvium (consisting of flood basin deposits, dredge tailings, and Holocene stream channel deposits), older alluvium, and Miocene/Pliocene volcanics (California Department of Water Resources [CDWR], 2004).

Table 3 (continued)
Regional Geology and Hydrogeology

Physical Parameter	Information/Comments
DEPTH TO GROUNDWATER AND DIRECTION OF ANTICIPATED FLOW [1]	Based on a Spring 2004 Sacramento County Groundwater Elevation Contour Map, presented in the Sacramento County Water Agency's (SCWA's) Central Sacramento County Groundwater Management Plan (SCWA, 2006), the groundwater elevation beneath the Site is approximately 45 feet below mean sea level. Based on approximate Site surface elevations of 30 to 36 feet, this corresponds to a groundwater depth greater than 75 feet below ground surface (bgs). Based on groundwater contours present on the map, groundwater in the Site vicinity flows towards the south.
REGIONAL GROUNDWATER QUALITY PROBLEMS	Groundwater in the South American Subbasin is typically a calcium magnesium bicarbonate or magnesium calcium bicarbonate. Seven sites within the South American Subbasin have been identified with significant groundwater contamination issues; including three Superfund sites (Aerojet, Mather Field, and the Sacramento Army Depot). Other sites are the Kiefer Boulevard Landfill, an abandoned Pacific Gas and Electric (PG&E) site (on Jiboom Street near Old Sacramento), and the Southern Pacific and Union Pacific Rail Yards in downtown Sacramento (CDWR, 2004). However, regional groundwater quality problems as a result of these facilities were not identified beneath the Site or adjoining properties.
FLOOD ZONE DESIGNATION	According to The EDR Radius Map™ Report with GeoCheck®, the majority of the Site is located within a 100-year flood zone. The southernmost portion of the Site is located partially in a 500-year flood zone tapering off outside of a flood zone at the southern end of the Site (EDR, 2014a). EDR depicts surface water at Laguna Creek and the Camden Park Reservoir in the area of the proposed bridge structure on the northern portion of the Site. In addition, the fish ponds at the Sacramento-Yolo Vector and Mosquito Control District, east of the Site, are shown as a National Wetlands Inventory area.

[1] Groundwater flow direction is based on regional information sources. Site-specific conditions may vary due to a variety of factors including geologic anomalies, utilities, nearby pumping wells (if present), and other factors.

3 RECORDS REVIEW

3.1 STANDARD ENVIRONMENTAL RECORD SOURCES

The purpose of the records review is to obtain and review records that would help evaluate environmental conditions of potential concern in connection with the Site and adjoining properties.

Federal, state and local regulatory agencies publish databases or "lists" of businesses and properties that handle hazardous materials or hazardous waste, or are the known location of a release of hazardous substances to soil and/or groundwater. These databases are available for review and/or purchase at the regulatory agencies, or the information may be obtained through a commercial database service. Kleinfelder contracted with a commercial database service, EDR, and performed a review of the State Water Resources Control Board (SWRCB) online GeoTracker™ Database to review the regulatory agency lists for references to the Site, and for listings within a 1-mile radius of the Site. The EDR database search results are included in Appendix D, The EDR Radius Map™ Report with GeoCheck®, providing a description of the types of information contained in each of the databases reviewed and the agency responsible for compiling the data. The federal, state and local databases reviewed by EDR are listed in the Map Findings Summary section of The EDR Radius Map™ Report with GeoCheck® and key databases reviewed are summarized on Table 4. The properties listed within 1-mile of the Site (in the EDR database report and in the online GeoTracker™ database) were reviewed for requisite search distances as required by the ASTM International Designation E 1527-13, "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.*"

Table 4
Records Review-Search Distance

FEDERAL	DISTANCE
United States Environmental Protection Agency (US EPA) National Priority List (NPL)	1 mile
Delisted NPL	½ mile
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	½ mile
CERCLIS-No Further Remedial Action Planned (NFRAP)	½ mile
Resource Conservation Recovery Act (RCRA)-Corrective Action (CORRACTS) Treatment, Storage, and Disposal Facility (TSDF)	1 mile
RCRA-non CORRACTS TSD	½ mile
RCRA-Generator (RCRA-GEN)/Facility Index System (FINDS)	Site & adjoining
Institutional Control/Engineering Control Registries and Emergency Response Notification System (ERNS)	Site
State Brownfields Sites	½ mile
STATE/LOCAL	**DISTANCE**
State-Equivalent CERCLIS	½ mile
State Landfills or Solid Waste Listing	½ mile
State Leaking Underground Storage Tank (LUST) Listing	½ mile
Site Mitigation and Brownfields Reuse Program Database	½ mile
State Voluntary Cleanup Sites	½ mile
State Equivalent NPL	1 mile
State Institutional Control/Engineering Control Registries	Site
State Registered Storage Tanks	Site & adjoining

EDR utilizes a geographical information system to plot the locations of facilities that are listed in regulatory databases that had reported spills, leaks, or other incidents. Information was reviewed to help establish if the Site, or nearby properties within 1 mile of the Site have been included in the noted databases and lists. The EDR listings, as available, include the type of hazardous material, the quantity, and regulatory agency involved. Each of the listings was reviewed to assess whether these properties would likely pose a hazardous waste impact to the Site based on the following, or a combination thereof:

- The listed property was located at a distance where the facility would be an unlikely hazardous waste impact to the area underneath the Site improvement areas.
- The listed property was located in a down-gradient or cross-gradient direction from the Site at a distance that would be unlikely to pose a hazardous waste impact to the area underneath the Site improvement areas.
- The listed property was identified in low-hazardous risk databases (i.e., underground storage tank [UST], HAZNET, Small Quantity Generator [SQG] databases) not on or immediately adjoining the Site and were not listed in other databases and/or was not listed as having any associated violations. The listing of a facility on these databases is not indicative of an unauthorized release.
- The listing of the facility suggested a short-term release had occurred (i.e., from incidental traffic accidents, or chemicals from illegal drug labs found at residences) with an associated hazardous materials cleanup.
- The quantity of the substances released was not considered to cause a significant hazardous waste impact to the Site.
- The listing indicates that the reported release affected soil only that was not on or immediately adjoining the Site.

Based on these criteria, these listings were not evaluated further and are not discussed in the following sections.

The remaining listings were reviewed to assess whether properties within close proximity to the Site may have had significant environmental releases or incidents, which may have resulted in a hazardous waste impact to the Site. Listings, which indicate a significant release had occurred and/or which remain as an open case with the designated regulatory agency, were further assessed by requesting a file review with the appropriate regulatory agency. Further evaluation was made as to whether the listed release may represent a hazardous waste impact to the proposed Project.

Based on our review of the EDR database report and information reviewed on GeoTracker™, the following listings in the EDR database report were further reviewed to assess the potential for a hazardous waste impact to the Site.

- *"Bond Rd and Emerald Crest"* – This listing was included in the ERNS database. A caller reported the smell of methane gas on October 19, 2009 near the intersection of Bond Road and Emerald Crest Road near the southern end of the Site. There were no apparent sources for the odor. Based on the media affected (air), this listing is not considered a potential hazardous waste impact to the Site.
- *"Sac Co/Yolo Co Mosquito" (8631 Bond Road)* – This facility was listed in the Sacramento County Master List (ML) list of facilities that handle hazardous materials. According to the listing, the facility is listed inactive and is included on a listing that is no longer updated. In addition, the facility is listed out of business. This facility was observed to be present adjoining to the east of the Site. However, a listing in the Sacramento County ML database is not indicative of a release. There are no reported releases from this facility. Therefore, this facility is not considered a potential hazardous waste impact to the Site.
- "Sacramento/Yolo MVCD" (8631 Bond Road) – This facility is listed in the aboveground storage tank (AST) database as having AST capacity of 10,620 gallons. Contents are not reported in the EDR listing. A listing in the AST database is not indicative of a release. There are no reported releases from this facility, and this facility is not directly adjoining the Site. Therefore, this facility is not considered a potential hazardous waste impact to the Site.

Sites not plotted by EDR due to poor or inadequate address information are referred to as orphan sites. There are 18 unmapped sites in the EDR report. The orphan summary/unmapped sites reports were reviewed to assess the potential for properties located outside the Site improvement areas that might pose a hazardous waste impact to the Site. Based on our review, these orphan sites appear to be on other database listings already discussed, or fall under one, or more, or the above listed criteria and do not represent a hazardous waste impact to the Site.

3.2 ADDITIONAL AGENCY ENVIRONMENTAL RECORDS

Local regulatory agencies were contacted for reasonably ascertainable and practically reviewable documentation regarding environmental conditions present at the Site and adjoining facilities.

The following agencies were contacted for documentation:

- ☐ Sacramento County Metropolitan Air Quality Management District (SCMAQMD)
- ☒ State of California, Department of Toxic Substances Control (DTSC)
- ☒ Sacramento County Environmental Management Department (SCEMD)
- ☒ State Water Resources Control Board (SWRCB) GeoTracker™
- ☒ State of California, Office of the State Fire Marshal, Pipeline Safety Division
- ☒ City of Elk Grove Building Department

3.2.1 Sacramento County Metropolitan Air Quality Management District (SCMAQMD)

Since no structures are located on the Site, a written request for information was not submitted to the SCMAQMD.

3.2.2 State of California, Department of Toxic Substances Control (DTSC)

The DTSC maintains detailed information on hazardous waste permitted and corrective action facilities, as well as existing site cleanup information. Kleinfelder performed a search of DTSC's EnviroStor database (http://www.envirostor.dtsc.ca.gov/public/) for information pertaining to properties in the surrounding areas to the Site and assessed whether properties in the area have the potential to impact the Site. Based on the search results, there are no facilities in the immediate vicinity of the Site that are considered a potential hazardous waste impact to the Site.

3.2.3 Sacramento County Environmental Management Department (SCEMD)

Kleinfelder reviewed the SCEMD's online database for information pertaining to abandoned/active wells, hazardous materials, underground/aboveground storage tanks, septic systems, and site assessment and mitigation for properties adjoining to the Site. Since the Site is not associated with an APN or street address, information regarding the Site was not available. Information regarding adjoining properties is summarized below:

"California Family Fitness" (8569 Bond Road) – This property adjoins the Site to the west. In 1976, a private domestic water well and septic system, consisting of a septic tank and leaching fields, was constructed and installed on the property, respectively, and are associated with a single-family residence. A permit was issued on September 17, 1999 for the destruction of the water well. This permit indicated that a second well was discovered at the same time and was also destroyed. California Family Fitness appears to have been constructed in 2000. Permits, inspections, and correspondence were available for this facility between 2000 and 2014. The facility maintained hazardous materials handling permits associated with swimming pools on the property. Based on the information reviewed, this facility is not considered a potential hazardous waste impact to the Site.

"Sacramento-Yolo Counties Mosquito" (8631 Bond Road) – This property adjoins the Site to the east. Based on information obtained from this facility's website, it maintains 23 ponds, which produce 2,000 to 7,000 pounds of fish that prey on mosquito larvae. Information was available for this facility between the years 1981 and 2014. The earliest permit was issued on August 21, 1981 for construction of a new private domestic water well associated with a guard house and the installation of a new septic system consisting of a 1,500-gallon septic tank and three leaching fields. A permit was issued on April 21, 1997 for the repair of a pump associated with an irrigation well. The well was shown to be located near the south-central portion of the property, along Bond Road.

The facility is currently permitted (permit issued on August 22, 2014) as a facility that handles hazardous materials, generates hazardous waste, and maintains ASTs. The facility reportedly maintains 1,000-gallon gasoline and diesel ASTs, a 500-gallon waste oil AST, and an 8,000-gallon AST containing "GB 136" (Golden Bear, a petroleum hydrocarbon used in the control of mosquitos) located outside the facility's buildings, east of the ponds located nearest to the Site. Other reported hazardous materials include automotive related chemicals (oils, transmission fluid, coolants), compressed gases, and pesticide and insecticide chemicals. Hazardous wastes were reported to include solids with pesticide traces, used antifreeze, used oil, used filters, brake cleaners, brake shavings, and absorbent materials. The facility reportedly also generates less than 200 pounds per month of medical waste including sharps (syringes, needles, blades, broken glass) and blood or body fluids (collected from sentinel chickens). Wastes are disposed by BFI Medical Waste Systems, Inc.

Staining was observed on unpaved flooring within a barn structure located east of the ponds. The staining was the result of leakage from equipment and vehicles that were stored in this area. According to a May 14, 1992 Limited Investigation Letter Report prepared by Aegis Environmental, Inc. (Aegis), approximately three yards of impacted soil was excavated on April 16, 1992 and placed onto plastic sheeting to allow for "bioremediation" of the soil. Two confirmation soil samples were collected from the base of the excavation and analyzed for the presence of total petroleum hydrocarbons as diesel (TPHd), total oil and grease, and total lead. Total lead was detected at a concentration of 7.1 parts per million in one sample. TPHd and total oil and grease were not detected in the samples analyzed. The SCEMD issued a June 1, 1992 letter indicating no further action was required. Two soil samples of the stockpiled soil were collected and results were provided in a September 28, 1992 letter to the SCEMD. Results indicated the presence of total oil and grease in one sample at a concentration of 285 parts per million. The SCEMD approved the use of this soil as road base, in a letter dated October 27, 1992, at the facility.

Based on the available information for this facility, this facility is not considered a potential hazardous waste impact to the Site.

3.2.4 State Water Resources Control Board, GeoTracker™

Kleinfelder performed a review of the SWRCB GeoTracker™ online database for information pertaining to properties in the Site vicinity that may have the potential to impact soil, soil vapor, or groundwater beneath the Site. This GeoTracker™ database includes information from the UST Program regarding environmental cleanup activities at leaking UST sites and non-UST sites. There were no facilities listed in the GeoTracker™ website listed within a 1-mile radius of the Site that are considered environmental concerns to the Site. A copy of the search results is presented in Appendix C.

3.2.5 State of California, Office of the State Fire Marshal (OSFM), Pipeline Safety Division

According to the Pipeline Safety Division of the Office of the State Fire Marshal (OSFM), information regarding pipelines that transport hazardous substances within the vicinity of the Project limits is available through the Pipeline and Hazardous Materials

Safety Administration's National Pipeline Mapping System (NPMS) at https://www.npms.phmsa.dot.gov/. Based on our review of the information on the NPMS for the Site and vicinity, two records are listed associated with natural gas pipelines operated by Pacific Gas & Electric Company. These pipelines are shown to be located beneath and parallel to Bond Road. There are no hazardous materials pipelines depicted in the vicinity of the Site. A copy of the NPMS map of the Site and vicinity is presented in Appendix C.

3.2.6 City of Elk Grove Building Department

Since the Site is not associated with street addresses or APNs, a search of building permits at the City of Elk Grove Building Department was not performed. Information associated with the Sacramento-Yolo Mosquito & Vector Control District was reviewed on October 21, 2014 to assess whether the property was formerly utilized as a sewage disposal facility. There was no evidence in the building department records that indicated the property as used as a sewage disposal facility. Information reviewed indicated the property has been used by the Sacramento-Yolo Mosquito & Vector Control District.

3.3 ADDITIONAL AGENCY ENVIRONMENTAL RECORDS

The history of the Site was researched to identify obvious uses of the Site and vicinity. This information was used to supplement regulatory agency database records previously discussed. Table 5 summarizes the availability of information reviewed during this assessment.

Table 5
Historical Information Sources

Source	Years Reviewed	Source / Availability
SANBORN FIRE INSURANCE MAPS	Not available	EDR, 2014b
AERIAL PHOTOGRAPHS	1937, 1947, 1957, 1964, 1971, 1984 1993, 1998, 2005, 2006, 2009, 2010, and 2012	EDR, 2014c

Table 5 (continued)
Historical Information Sources

Source	Years Reviewed	Source / Availability
CITY DIRECTORIES	1970 through 2013 (select years)	EDR, 2014d
HISTORICAL TOPOGRAPHIC MAP REPORT	1894, 1909, 1947, 1953, 1968, 1975, and 1980	EDR, 2014e
PREVIOUS ASSESSMENT(S)	See Section 2.10	See Section 2.10

3.4 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps provide historical land use information for some metropolitan areas and small, established towns. Kleinfelder requested EDR to search its library of Sanborn Fire Insurance Maps for maps of the Site. EDR responded that Sanborn Fire Insurance Maps were not available for the Site (EDR, 2014b).

3.5 AERIAL PHOTOGRAPHS

A review of historical aerial photography may indicate past activities at a property that may not be documented by other means or observed during a reconnaissance visit. The effectiveness of this technique depends on the scale and quality of the photographs and the available coverage. Aerial photographs were obtained from several historical photograph collections through EDR (2014c), and span a period of 77 years. A tabulation of the aerial photographs reviewed by Kleinfelder is presented in Table 6. Copies of the aerial photographs provided by EDR are included in Appendix E.

Table 6
Historical Aerial Photographs Reviewed

Date	Approximate Scale	Type	Source	Quality
1937	1" = 500'	Black and White Monoscopic	USGS	Fair
1947	1" = 500'	Black and White Monoscopic	USGS	Good
1957	1" = 500'	Black and White Monoscopic	USGS	
1964	1" = 500'	Black and White Monoscopic	USGS	Good
1971	1" = 500'	Black and White Monoscopic	Cartwright	Fair
1984	1" = 500'	Black and White Monoscopic	USGS	Good
1993	1" = 500'	Black and White Monoscopic	USGS	Fair
1998	1" = 500'	Black and White Monoscopic	USGS/DOQQ	Fair
2005	1" = 500'	Color	USDA/NAIP	Fair
2006	1" = 500'	Color	USDA/NAIP	Good
2009	1" = 500'	Color	USDA/NAIP	Fair
2010	1" = 500'	Color	USDA/NAIP	Good
2012	1" = 500'	Color	USDA/NAIP	Good

Note: Aerial photographs only provide information concerning indications of land use, and no conclusions regarding the release of hazardous substances or petroleum products can be drawn from the review of photographs alone.

3.5.1 Site

The Site appeared to be undeveloped land in the 1937 through 1971 aerial photographs. A natural drainage was apparent at the northern portion of the Site. Between 1984 and 2012, the Site appeared to be a narrow path or area between "sewage disposal ponds" on the east and residential areas to the west.

3.5.2 Surrounding Areas

In the 1937 and 1947 aerial photographs, the surrounding areas appeared as undeveloped land to the north, east and west with a natural drainage (Laguna Creek) apparent to the north. Bond Road was apparent to the south of the Site, beyond which

appeared to be land used for agricultural purposes (row crops). No structures or other features were shown in the immediate Site vicinity.

In the 1957 and 1964 aerial photographs, five "sewage disposal ponds" were apparent adjoining to the east of the Site. Based on information obtained during this ISA, the ponds depicted to the east of the Site have been associated with the Sacramento-Yolo Mosquito & Vector Control District, which maintains ponds to raise fish that prey on mosquito larvae. Two small structures, one possibly an AST, were apparent near the southeast corner of the ponds. No structures were evident adjoining the Site to the west, but residential size structures were apparent farther west along Bond Road. The properties to the north and south appeared generally the same as in the 1937 and 1947 aerial photographs.

The 1971 aerial photograph appeared generally the same as in the 1957 and 1964 aerial photographs, but increased development was apparent farther west of the Site along Bond Road.

The 1984 aerial photograph showed two residential size structures adjoining the Site to the west (at the present-day location of California Family Fitness). In addition, Bond Road appeared to have been improved and residential development appeared to be under construction south of the Site, beyond Bond Road. The "sewage disposal ponds" east of the Site appeared to have been divided into smaller rectangular ponds within the original pond footprints and a structure appeared to the east of the ponds.

The 1993 aerial photograph appeared generally the same as in 1984, but the residential development south of the Site appeared to have been completed. The "sewage disposal" facility appeared to have been expanded to the east with the addition of small structures and additional "sewage disposal ponds". In addition, Laguna Creek appeared to drain into a lake (present-day Camden Park Reservoir) near the northern portion of the Site. Residential development appeared to be under construction north-northeast of Laguna Creek.

The 1998 aerial photograph appeared generally the same as in the 1984 and 1993 photographs, but additional structures appeared to have been constructed east of the original "sewage disposal ponds". A small rectangular area west of the Site, north of the adjoining residence, may have been used for agricultural purposes. Bond Road appeared to have been improved further.

The 2005 through 2012 aerial photographs appeared to show the Site vicinity similar to its present-day configuration. Structures and parking areas associated with the California Family Fitness recreational center were apparent adjoining the Site to the west. Undeveloped land was apparent to the north of this facility, adjoining the remaining areas of the Site to the west. Additional commercial development was shown west of the California Family Fitness facility. Residential development and Camden Park were apparent north-northeast of the Site.

Based on the aerial photographs reviewed, there were no properties that are considered a potential hazardous waste impact to the Site. Based on other information obtained during the preparation of this ISA, the "sewage disposal ponds" noted on aerial photographs since 1957 are fish ponds associated with the Sacramento-Yolo Mosquito & Vector Control District property that adjoins to the east of the Site. The Mosquito & Vector Control District was formed on June 18, 1946 according to information on their website (http://www.fightthebite.net/about/). This property is not considered a potential hazardous waste impact to the Site.

3.6 CITY DIRECTORIES

City directories provide information regarding property occupants by address. EDR provided The EDR-City Directory Image Report, included in Appendix E, for select years for the period between 1970 and 2013 (EDR, 2014d). The listings were reviewed for properties that may represent a hazardous waste impact to the Site. Because the Site is not associated with a street address, listings for the Site are not available in the city directories reviewed.

In general, there were no adjoining property listings in the 1974 city directory. Listings in the 1980 through 1999 city directories reviewed indicated the immediate Site vicinity to the west of the Site was developed primarily for residential use. A recreational center (California Fit Fitness Center Byers Gymnastics Center, J Rene Academy of Dance, Rock Hard Café) was listed adjoining to the west of the Site beginning in the 2003 city directory. The remaining area west of the Site became increasingly commercial between 2003 and 2013. A Chevron gasoline station was listed at 8501 Bond Road in the 2008 city directory and Airport Shuttle was listed at this same address in the 2013 city directory. However, this facility is located in a cross-gradient direction from the Site and is not considered a potential hazardous waste impact to the Site.

The property adjoining to the east of the Site was not listed until the 1999 city directory and was occupied by the Mosquito & Vector Control District (under various listed names) at 8631 and 8633 Bond Road through 2013.

Based on our review, there were no off-Site listings that represent potential concerns to the Site.

3.7 HISTORICAL TOPOGRAPHIC MAP REVIEW

Kleinfelder obtained information regarding historical topographic maps of the Site vicinity from EDR (2014e). The topographic maps reviewed for this assessment are listed in Table 7 and copies of the maps are included in Appendix E.

Table 7
Historical Topographic Maps Reviewed

Year	Quadrangle	Series	Scale
1894	Lodi	30 minute	1:125,000
1909	Florin	7.5 minute	1:31,680
1947	Galt	7.5 minute	1:50,000
1953	Florin	7.5 minute	1:24,000
1968	Florin	7.5 minute	1:24,000
1975 (photorevised from 1968)	Florin	7.5 minute	1:24,000
1980 (photorevised from 1968)	Florin	7.5 minute	1:24,000

3.7.1 Site

The Site is shown as undeveloped land on the 1894 through 1980 topographic maps. A natural drainage traverses the northern portion of the Site. This drainage is depicted as Laguna Creek on the 1947 through 1980 topographic maps.

3.7.2 Surrounding Areas

The properties surrounding the Site are shown as undeveloped land on the 1894, 1909 and 1947 topographic maps. Bond Road is not shown on the 1894 or 1909 maps, but it appears as a secondary road (not labeled) adjoining the Site to the south on the 1947 map. A Central Pacific railroad is shown between 3,800 and 4,400 feet east of the Site and SR-99 is shown between 2,700 and 3,400 feet west of the Site.

The 1953 map depicts a sewage disposal facility with three vertical rectangular ponds located adjoining to the east of the Site. Two small structures are located near the southeastern corner of the ponds. Two additional ponds are depicted on the 1968, 1975 and 1980 maps just north of the three vertical ponds. Two small structures are still present southeast of the ponds, although they appear to be different than the ones noted on the 1953 map.

No structures are shown adjoining to the north, west or south of the Site on the 1953, 1968, 1975, or 1980 maps. Several residential size structures are shown along Bond Road a little farther west of the Site on these maps with an increase in the number of structures throughout these years. Bond Road appears to have been improved on these maps.

Based on review of the historical topographic maps, there were no on-Site or off-Site features that would suggest a potential hazardous waste impact to the Site. Based on other information obtained during the preparation of this ISA, the sewage disposal facility noted on topographic maps since 1953 are fish ponds associated with the Sacramento-Yolo Mosquito & Vector Control District property that adjoins to the east of the Site. This property is not considered a potential hazardous waste impact to the Site.

3.8 PREVIOUS ASSESSMENTS

There were no previous hazardous materials assessments associated with the Site. Limited soil sampling was performed within a barn structure located on the Sacramento-

Yolo Mosquito & Vector Control District property. However, based on the results of sampling (see Section 2.4.3), there was no evidence of significant contamination and closure was granted by the SCEMD. This facility is not considered a potential hazardous waste impact to the Site.

4 VISUAL SURVEY

4.1 METHODOLOGY AND LIMITING CONDITIONS

A representative from Kleinfelder, Michael van den Enden, conducted a Site reconnaissance on October 21, 2014 to assess and photograph present Site conditions. The Site location and vicinity are presented on Plate 1. Color photographs of the Site are presented as Plates 2 through 7. The Site conditions discussed below are limited to readily apparent environmental conditions observed during the Site reconnaissance.

The Site is currently consists of an unpaved dirt pathway, portions of an unlined drainage swale, and vegetated areas. In addition, Laguna Creek passes through the northern portion of the Site.

Site observations are further described in Table 8.

Table 8
Site Observations

General Observations	Remarks	Observed	Not Observed
Current Use	The Site consists of a dirt path from approximately Bond Road on the south to the California Family Fitness (8569 Bond Road) northern property line. The dirt path continues north, but the trail alignment jogs into an area that appears to consist of an unlined drainage swale that is used for surface water drainage and overflow from the adjoining Camden Park reservoir. The remaining portions consist of vegetated areas.	X	
Past Use	Based on historical sources reviewed, the Site has been generally undeveloped land.		X
Structures	No structures were apparent on the Site.		X
Terrain	Relatively flat.	X	
Aboveground storage tank (AST)			X
Air emissions			X
Asbestos			X

Table 8 (continued)
Site Observations

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		Observed	Not Observed
Below grade vaults			X
Burned or buried debris			X
Chemical storage or agricultural chemical mixing areas			X
Discolored soil or water			X
Drains and piping	Storm drains were observed within the Site alignment.	X	
Drums			X
Electrical equipment (PCBs)			X
Fill dirt from an unknown source.			X
Hazardous chemical and petroleum products in connection with known use.			X
Hazardous Waste Storage			X
Heating and Cooling System			X
Industrial waste treatment equipment			X
Leachate or seeps			X
Lead			X
Loading and unloading areas			X
Odors			X
Pesticide storage areas/areas of prolonged use or misapplication			X

Table 8 (continued)
Site Observations

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		Observed	Not Observed
Pits, Ponds, or Lagoons	Laguna Creek is located at the northern end of the Site. It flows into the Camden Park Reservoir, which adjoins the northern portion of the Site to the east. A dam was observed at the mouth of the reservoir. Surface ponds used to raise mosquito eating fish were observed on the property adjoining to the east of the Site at the Sacramento-Yolo Mosquito and Vector Control District.	X	
Pools of Liquid			X
Process waste water			X
Raw material storage or chemical storage areas			X
Sanitary System (Sewer)	Man hole utility covers were observed near the Site alignment at Bond Road.	X	
Septic system (Tank and leach fields)			X
Soil piles			X
Solid Waste			X
Stained pavement or concrete			X
Stains or corrosion (interior)			X
Storm basins/catch	A portion of an unlined drainage swale was observed on-Site near its central portion.	X	
Storm drains	Storm drains were observed within the proposed Site alignment.	X	
Stressed vegetation			X
Sumps & clarifiers			X
Surface impoundments or holding ponds			X

Table 8 (continued)
Site Observations

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		Observed	Not Observed
Surface water	Laguna Creek crosses the northern portion of the Site. The creek flows into the Camden Park Reservoir, which adjoins the Site to the east. A dam was observed near the mouth of the reservoir.	X	
Underground storage tanks			X
Unidentified substance containers			X
Waste Water			X
Water supplies (potable and process)	Not applicable to the Site. City supplies water to adjoining developed properties.	X	
Wells (irrigation, monitoring, or domestic) or cisterns			X
Wells (dry)			X
Wells (Oil and Gas)			X

The Site is situated within a north-south trending easement area. It consists of a dirt pathway from approximately Bond Road on the south to the northern property line of the California Family Fitness center, which adjoins to the west of the Site. This dirt path continues north, but the Site jogs slightly northeast to north and appears to consist of an unlined drainage swale that is used for overflow from the Camden Park Reservoir, which adjoins to the east of the Site. The northern portion of the Site alignment appears to be located within a vegetated area just east of the unlined drainage swale. Dying/dead trees were observed in this area, some of which appear to be located within the proposed new trail alignment. No structures were observed on the Site.

Fencing separates the Site from the adjoining Sacramento-Yolo Mosquito & Vector Control District to the east. A drainage swale and storm drain catch basin were observed on the north side of the California Family Fitness property. A small dam is located where Laguna Creek enters Camden Park Reservoir and passes through the proposed new trail alignment.

Results of the Site reconnaissance did not reveal evidence of a potential hazardous waste impact to the Site.

5 EVALUATION

Information gathered and activities performed by Kleinfelder for this ISA were consistent with those required to address Caltrans' Initial Site Assessment (ISA) Checklist for Hazardous Waste (Appendix DD, Hazardous Waste, Project Development Procedures Manual, June 18, 2009). The completed Initial Site Assessment Checklist consistent with Caltrans' Guidelines included as Appendix A. The following section describes Kleinfelder's findings and presents our recommendations regarding potential hazardous waste involvement in the proposed project.

5.1 FINDINGS

The City of Elk Grove proposes to extend a multi-use trail from the west end of existing Laguna Creek Trail at the northern end of Camden Park south to Bond Road. The proposed project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The project proposes to close an identified gap in the trail infrastructure that serves the City of Elk Grove from Bond Road to Camden Park.

No additional right-of-way is required for the proposed trail alignment and bridge structure beyond encroachment onto Consumnes Community Services District's property. The proposed project would require relocation of a storm drain inlet, manhole, and two irrigation control valves.

Based on a Spring 2004 Sacramento County Groundwater Elevation Contour Map, presented in the SCWA's Central Sacramento County Groundwater Management Plan (SCWA, 2006), the groundwater elevation beneath the Site is approximately 45 feet below mean sea level. Based on approximate Site surface elevations of 30 to 36 feet, this corresponds to a groundwater depth greater than 75 feet below ground surface (bgs). Based on groundwater contours present on the map, groundwater in the Site vicinity flows towards the south.

Federal, state and local regulatory agencies publish databases, which were reviewed to identify businesses, and properties that handle hazardous materials or hazardous

waste, or are the known location of a release of hazardous substances to soil and/or groundwater. In addition, local regulatory agencies were contacted for reasonably ascertainable and practically reviewable information regarding environmental conditions present at facilities in the area of the Site. Based on the database and local regulatory agency records reviewed, there are no off-Site facilities that are considered potential hazardous waste impacts to the Site.

Historical sources; including Sanborn maps, aerial photographs, city directories, and topographic maps, were reviewed to supplement regulatory agency database records. Based on these historical sources, the Site has been undeveloped land with a natural drainage (Laguna Creek) passing through the northern portion of the Site. Since at least 1984, a narrow pathway appeared to be located on the southern portion of the Site.

Kleinfelder performed a reconnaissance of the Site and vicinity on October 21, 2014 to assess and photograph present Site conditions. The Site consists of a dirt pathway, a portion of an unlined drainage swale, and vegetated areas within an easement area. This easement area is located between a recreational facility on the west and the Sacramento-Yolo Mosquito & Vector Control District facility on the east. Laguna Creek passes through the northern portion of the Site, where it flows into the Camden Park Reservoir. A small dam is located where Laguna Creek enters the reservoir. There was no evidence of a hazardous waste impact observed at the time of the Site reconnaissance.

5.2 RECOMMENDATIONS

In summary, this assessment has revealed the following conditions that may suggest the potential presence of hazardous material associated with the proposed project:

- It is not anticipated that impacted soil will be encountered during construction and improvement activities. However, should impacted soil (as evidenced by staining and/or odors) be encountered during construction activities, it is recommended that the Caltrans Unknown Hazard Procedures be implemented during construction activities. The resident engineer overseeing construction should have available field monitoring equipment (e.g., PID) to facilitate timely detection of potentially hazardous conditions in the field.

- Groundwater is anticipated to be encountered at depths greater than 75 feet bgs. Should groundwater be encountered during construction/excavation activities and dewatering become necessary, regulatory compliance and permitting consistent with the CVRWQCB and NPDES requirements should be adhered to, and groundwater sampling should be conducted.
- A Phase II PSI is not required for this project.

6 REFERENCES

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

Central Sacramento County Groundwater Management Plan, February 2006.

Environmental Data Resources (EDR), 2014a, *The EDR Radius Map™ Report with GeoCheck®, Laguna Creek Trail – South Camden Spur, BOND RD, Elk Grove, CA 95624*, Inquiry No. 4094480.2s, October 2.

_____, 2014b, *Certified Sanborn® Map Report, Laguna Creek Trail – South Camden Spur, BOND RD, Elk Grove, CA 95624*, Inquiry No. 4094480.3, October 2.

_____, 2014c, *The EDR Aerial Photo Decade Package, Laguna Creek Trail – South Camden Spur, BOND RD, Elk Grove, CA 95624*, Inquiry No. 4094480.9, October 3.

_____, 2014d, *The EDR-City Directory Image Report, Laguna Creek Trail – South Camden Spur, BOND RD, Elk Grove, CA 95624*, Inquiry No. 4094480.5, October 7.

_____, 2014e, *EDR Historical Topographic Map Report, Laguna Creek Trail – South Camden Spur, BOND RD, Elk Grove, CA 95624*, Inquiry No. 4094480.4, October 3.

Norris, Robert M. and Webb, Robert, W., 1990, Geology of California, Second Edition.

State of California Department of Transportation (Caltrans), 2009, Hazardous Waste, Project Development Procedures Manual, Appendix DD, June 18.

United States Geological Survey (USGS), 1980, 7.5-Minute Topographic Quadrangle Map, Florin, California, photorevised from 1968 map.

Additional sources are referenced separately in the report text.

PLATES

SOURCE: GOOGLE EARTH PRO 2014, IMAGE DATE 4/18/14.

EXPLANATION

PROPOSED LAGUNA CREEK TRAIL

D STORM DRAIN

400 200 0 400

APPROXIMATE SCALE (feet)

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

PROJECT NO.	20152737
DRAWN:	10/2014
DRAWN BY:	MRG
CHECKED BY:	MRC
FILE NAME:	20152737p1_SL&SVM.dwg

SITE LOCATION AND VICINITY MAP

LAGUNA CREEK TRAIL - SOUTH CAMDEN SPUR PROJECT
BOND ROAD TO LAGUNA CREEK NORTH OF BOND ROAD,
BETWEEN ELK CREST DRIVE AND EMERALD CREST DRIVE
ELK GROVE, CALIFORNIA

PLATE
1

ATTACHED IMAGES: Images: Aerial-Image_LagunaCrk_3000_4-18-14.jpg Images: Aerial-Image_LagunaCrk_800_4-18-14.jpg
ATTACHED XREFS:
LONG BEACH, CA
CAD FILE: L:\CADD\2014\20152737\LagunaCrkTrail_10-2014\ LAYOUT: 1
PLOTTED: 29 Oct 2014, 9:11am, mgriffin

View facing north at the Site from Bond Road.

View of utilities observed on the Site near Bond Road.

KLEINFELDER *Bright People. Right Solutions.*	PROJECT NO. 20152737 DRAWN BY: MvdE CHECKED BY: MRC DATE: 10/2014 REVISED:	SITE PHOTOGRAPHS Laguna Creek Trail - South Camden Spur Project; Bond Road to Laguna Creek; North of Bond Road between Elk Crest Drive and Emerald Crest Drive Elk Grove, California	PLATE 2

View of a typical fish pond at the Sacramento-Yolo Mosquito and Vector Control District property that adjoins the Site to the east.

View facing north along the Site from near the California Family Fitness southern property line. A storm drain is shown.

KLEINFELDER *Bright People. Right Solutions.*	PROJECT NO. 20152737 DRAWN BY: MvdE CHECKED BY: MRC DATE: 10/2014 REVISED:	SITE PHOTOGRAPHS Laguna Creek Trail - South Camden Spur Project; Bond Road to Laguna Creek; North of Bond Road between Elk Crest Drive and Emerald Crest Drive Elk Grove, California	PLATE 3

View facing north at the Site, north of the California Family Fitness southern property line.

View facing west of the Site alignment, just north of the California Family Fitness center.

KLEINFELDER Bright People. Right Solutions.	PROJECT NO. 20152737 DRAWN BY: MvdE CHECKED BY: MRC DATE: 10/2014 REVISED:	SITE PHOTOGRAPHS Laguna Creek Trail - South Camden Spur Project; Bond Road to Laguna Creek; North of Bond Road between Elk Crest Drive and Emerald Crest Drive Elk Grove, California	PLATE 4

View north at the portion of the Site that appears to consist of the unlined drainage swale. A storm drain is shown just inside the fence.

View facing south at the portion of the Site that appears to consist of the unlined drainage swale.

KLEINFELDER Bright People. Right Solutions.	PROJECT NO. 20152737 DRAWN BY: MvdE CHECKED BY: MRC DATE: 10/2014 REVISED:	SITE PHOTOGRAPHS Laguna Creek Trail - South Camden Spur Project; Bond Road to Laguna Creek; North of Bond Road between Elk Crest Drive and Emerald Crest Drive Elk Grove, California	PLATE 5

View facing north at unlined drainage swale. The Site alignment in this area appears to be located just east (right) of the swale in the area of trees. Burned trees are shown.

View facing south from the south side of Laguna Creek along the Site alignment.

KLEINFELDER *Bright People. Right Solutions.*	PROJECT NO: 20152737 DRAWN BY: MvdE CHECKED BY: MRC DATE: 10/2014 REVISED:	SITE PHOTOGRAPHS Laguna Creek Trail - South Camden Spur Project; Bond Road to Laguna Creek; North of Bond Road between Elk Crest Drive and Emerald Crest Drive Elk Grove, California	PLATE 6

View facing south from the northern most portion of the Site from the western end of the existing paved trail north of Laguna Creek.

View of Laguna Creek (with vegetation), existing dam (central portion of photo), and Camden Reservoir beyond.

KLEINFELDER Bright People. Right Solutions.	PROJECT NO: 20152737 DRAWN BY: MvdE CHECKED BY: MRC DATE: 10/2014 REVISED:	SITE PHOTOGRAPHS Laguna Creek Trail - South Camden Spur Project; Bond Road to Laguna Creek; North of Bond Road between Elk Crest Drive and Emerald Crest Drive Elk Grove, California	PLATE 7

APPENDIX A

Initial Site Assessment (ISA) Checklist

Initial Site Assessment (ISA) Checklist

Project Information

District 3 County Sacramento Route Bond Road to Laguna Creek

Kilometer Post (Post Mile) ____

Description The City of Elk Grove proposes to extend a multi-use trail from the west end of the existing Laguna Creek Trail at the northern end of Camden Park south to Bond Road. The proposed project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The project proposes to close an identified gap in the trail infrastructure that serves the City of Elk Grove from Bond Road to Camden Park. No additional right-of-way is required for the proposed trail alignment and bridge structure beyond encroachment onto Consumnes Community Services District's property. The proposed project would require relocation of a storm drain inlet, manhole, and two irrigation control valves.

Is the project on the HW Study Minimal-Risk Projects List (HW1)? No

Project Manager _____ phone # _____

Project Engineer _____ phone # _____

Project Screening

Attach the project location map to this checklist to show location of all known and/or potential HW sites identified.

1. Project Features: New R/W? X Excavation? X Railroad Involvement?
   Structure demolition/modification? Subsurface utility relocation? X

2. Project Setting: Bond Road to Laguna Creek; North of Bond Road between Elk Crest Drive and Emerald Crest Drive, Elk Grove, California
   Rural or Urban Urban
   Current land uses
   Adjacent land uses Residential; Commercial, Recreational (Camden Park); Public Utilities (Sacramento-Yolo Mosquito & Vector Control District)
   (industrial, light industry, commercial, agricultural, residential, etc.)

Initial Site Assessment (ISA) Checklist

(continued)

3. Check federal, State, and local environmental and health regulatory agency records as necessary, to see if any known hazardous waste site is in or near the project area. If a known site is identified, show its location on the attached map and attach additional sheets, as needed, to provide pertinent information for the proposed project. No off-Site properties were found to represent a hazardous waste concern to the proposed Project improvement areas.

4. Conduct Field Inspection. Date October 21, 2014
   Use the attached map to locate potential or known HW sites. No off-site facilities were found to represent a hazardous waste impact to the proposed Site.

   STORAGE STRUCTURES / PIPELINES:

   Underground tanks Not identified — Surface tanks Not identified
   Sumps Not observed — Ponds: Laguna Creek (north end of Site)
   Drums Not observed — Basins Unlined drainage swale on a portion of the Site
   Transformers Not observed.
   Landfill Not observed.

   CONTAMINATION: (spills, leaks, illegal dumping, etc.)
   Surface staining Not observed
   Oil sheen Not observed
   Odors No odors noted — Vegetation damage Burned trees within a vegetated area near the northern portion of the Site
   Other N/A

   HAZARDOUS MATERIALS: (asbestos, lead, etc.)

   Buildings Not observed — Spray-on fireproofing Unknown
   Pipe wrap Not observed — Friable tile Unknown
   Acoustical plaster Unknown — Serpentine Unknown
   Paint Not observed — Other

5. Additional record search, as necessary, of subsequent land uses that could have resulted in a hazardous waste site. Use the attached map to show the location of potential hazardous waste sites.

   None identified.

6. Other comments and/or observations: Not applicable

Initial Site Assessment (ISA) Checklist
(continued)

ISA Determination

1. Does the project have potential hazardous waste involvement? **No** If there is known or potential hazardous waste involvement, is additional ISA work needed before task orders can be prepared for the Investigation? **No** If "YES," explain; then give an estimate of additional time required:

If signs of potential impact (odors, discolored soil, etc.) are observed during construction activity (from possible vehicle accident/leaks or other), sampling and analysis should be conducted. It is recommended that Caltrans' Unknown Hazard Procedures be implemented prior to work in these areas. Should groundwater be encountered during construction activities and dewatering become necessary, regulatory compliance consistent with the Central Valley Regional Water Quality Control Board and National Pollutant Discharge Elimination System requirements should be followed.

A brief memo should be prepared to transmit the ISA conclusions to the Project Manager and Project Engineer.

ISA Conducted by:

Margaret Carroll

Date: January 6, 2015

Margaret R. Carroll
Project Professional

Reviewed by:

Lizanne Simmons

Date: January 6, 2015

Lizanne Simmons
California Professional Geologist No. 7431

APPENDIX B

Qualifications of Preparers

STATEMENT OF QUALIFICATIONS

We declare that to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of 40 Code of Federal Regulations (CFR) 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all-appropriate inquiries in conformance with the standards and practices set forth in CFR Part 312.

Margaret R. Carroll
Environmental Professional

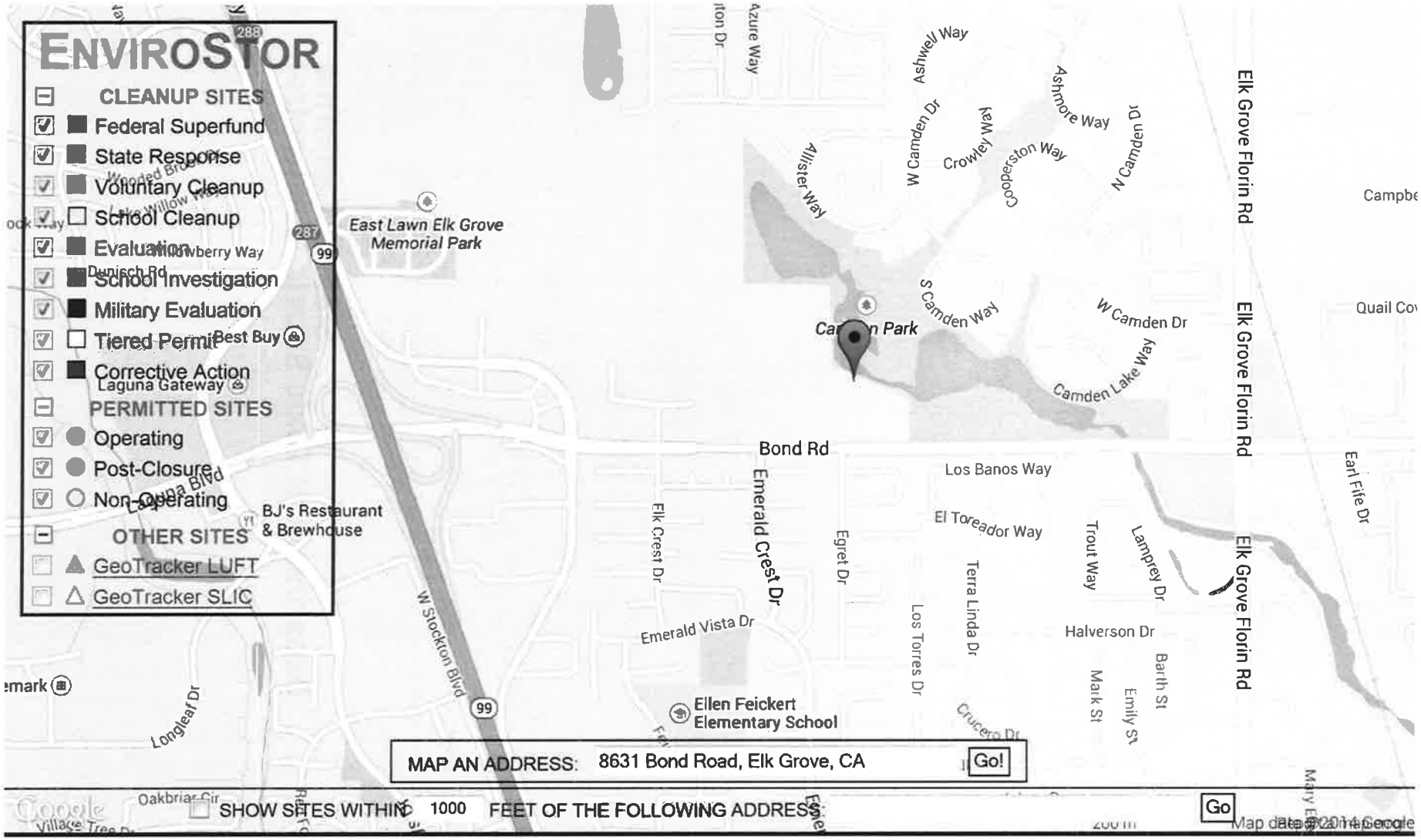
Lizanne Simmons, PG
Principal Geologist

The resumes of above-listed environmental professionals performing this ISA are on file at the Kleinfelder office and are available on request.

APPENDIX C

Research Documentation

State of California
Department of Toxic Substances Control



SITES CURRENTLY VISIBLE ON MAP — 1 SITES LISTED — EXPORT THIS LIST TO EXCEL

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY
FRANKLIN MEADOWS ELEM SCHOOL NO. 37	NO ACTION REQUIRED	SCHOOL INVESTIGATION	FIRE POPPY DRIVE/BLOSSOM RANCH DRIVE	ELK GROVE

Sacramento County Environmental Management Department

GENE S. **PORTER, INC.**

ENGINEERING • ARCHITECTURE
77 CADILLAC **DR.,** SUITE 188
SACRAMENTO, CA 95825

(916) 927-1748 FAX (916) 927-4174

FAX

TO: Environmental Management Department
Hazardous Materials Division
Att: Delyn Ellison

LOCATION: 8475 Jackson Road Suite 230 Sacramento, CA

FAX NUMBER: 386-7040

FROM: GEORGE **SCHELCHER,** GENE S. PORTER. **INC.**

LOCATION: 77 CADILLAC DRIVE. **SUITE** 1 ffl. SACRAMENTO **CA** 95825

COMMENTS: Re: Bond Road Project. Mosquito Control District
Attached are the recommended conditions
governing the handling and storage of hazardous
materials as contained in the final staff
report of the Planning Department on the Application
for Use Permit for this proposed project.
Planning has requested us to get your department
to clarify items 3, 4, 5 and 6.

NUMBER OF PAGES INCLUDING THIS PAGE:

DATE & TIME:

c. Additional landscaping will be provided along all perimeters to provide adequate physical and visual buffering.

d. Additional chain link fencing will be installed surrounding the area in the southeast portion of the site where new fish ponds and building facilities are to be built.

e. This use provides a natural wildlife habitat for the red-tailed hawk and giant garter snake.

5. This permit will allow the District to consolidate its activities that are now conducted from four separate locations in Sacramento County, at this one site in order to improve administration, coordination, communication, efficiency, reduce costs and provide for future expansion of the mosquito control and vector program.

C. **Recommended Conditions:** Any approval should be subject to the following conditions:

1. The Sacramento-Yolo Mosquito and Vector Control District facilities shall not expand onto the portion of the site indicated on the conceptual Floodplain/Open Space Plan.

2. No equipment shall be stored within 100 feet of Bond Road.

Gas Vaults gas diesel waste oil

3. Storage and handling facilities for all hazardous material shall provide both primary and secondary levels of containment above the level of the 100-year floodplain.

Visual monitoring

4. A monitoring system capable of detecting that hazardous materials stored in the primary containment have entered the secondary containment shall be provided. Where secondary containment may be subject to the intrusion of water, a means of monitoring for such water shall be installed. provided. Change okayed by Cindy Stanelli 6-12-

SB

4' diked area

5. Material transfer facilities shall be designed and constructed in a manner which prevents hazardous materials from escaping into the environment.

6. A record keeping system shall be maintained which completely accounts for the disposition of each hazardous material.

Pesticides

Cindy Stanelli
Stanelli
440-5206

CP:kb
sr911038

Control No. 911038
Type: UPP

TO: **PROJECT** PLANNING COMMISSION

ON: **SACRAMENTO-YOLO MOSQUITO** & VECTOR **CONTROL DISTRICT** USE **PERMIT**

ASSESSOR'S PARCEL NO.: 116-0042-016

LOCATION: The property is located on the north **side** of Bond **Road, approximately** 2,600 feet west of Elk Grove-Florin Road, in the Elk Grove **community.**

APPLICANT/OWNER:

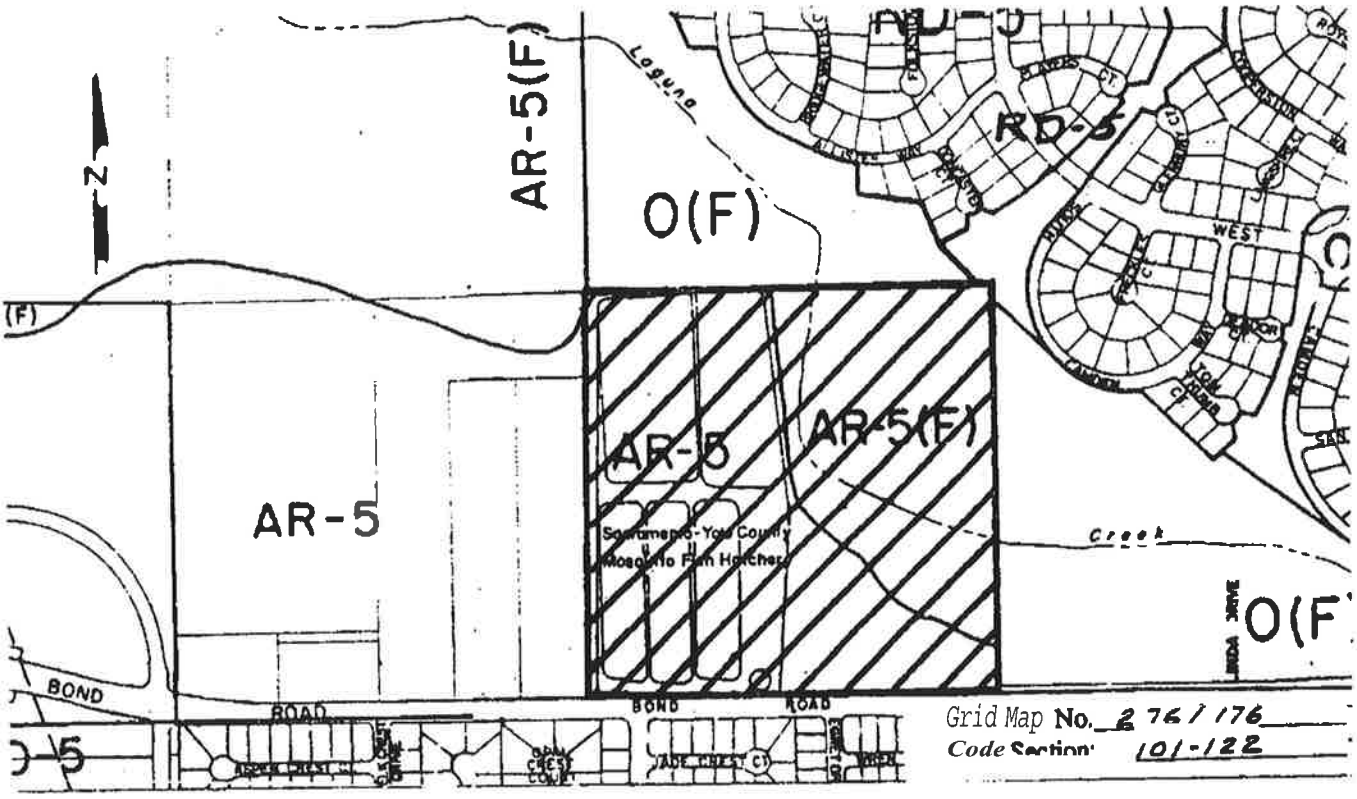
Sacramento-Yolo Mosquito and
Vector Control District
1650 Silica Avenue
Sacramento, CA 95815

ENGINEER/ARCHITECT:

Gene **S. Porter,** Inc.
77 Cadillac Drive, Suite 188
Sacramento, CA 95825
Attn: George **Schelcher**

REQUEST: **The** proposed project consists of the **renewal** of a Use **Permit** to allow the existing public facility located on the western portion of the site to remain, and a Use Permit to allow for the expansion of this facility onto the vacant eastern portion of the property. The property is located in the **AR-5** and **AR-5(F)** zone.

ENVIRONMENTAL DOCUMENT: NEGATIVE DECLARATION



APPLICATION AND PERMIT FOR SEWAGE DISPOSAL SYSTEM

Department of Health
Environmental Health Branch

(Call 366-2101 for inspection)

3701 Branch Center Road
Sacramento, California 95827

8N0002031

OFFICE USE ONLY	NAME	DATE
Received by:	Tom Valentine	8-21-81
Approved by:	Tom Valentine	8-21-81
Finaled by:	Mike Valentine	8-25-81

Receipt No. 95913 Permit No. 8114

Date Issued: AUG 2 1 1981

Date August 21, 1901 Property Owner Sacto. Yolo Co. Mosquito Abtmt Phone Number 422-0520

Mailing Address 1650 Selica Ave. Sacramento, Calif. 95815

JOB LOCATION

Street Address 8631 Bond Rd. X-Street Sheldon/99 frontage rd.

Subdivision Name 20 Ac. Lot Number 2

Parcel Number Bk. 14 Map 34 Date Parcel Recorded

DESIGN INFORMATION

New ☒ Repair ☐ Other ☒ Number of Bedrooms _____ If other, explain

Single Family ☐ Mobile Home ☐ Other ☒ If other, explain guard house--1 bath rom. w/c sink, shower

Water Supply: Private Well ☒ Public ☐ Soils Studies Accomplished: Yes ☐ No ☐ By Whom: _____ Date _____

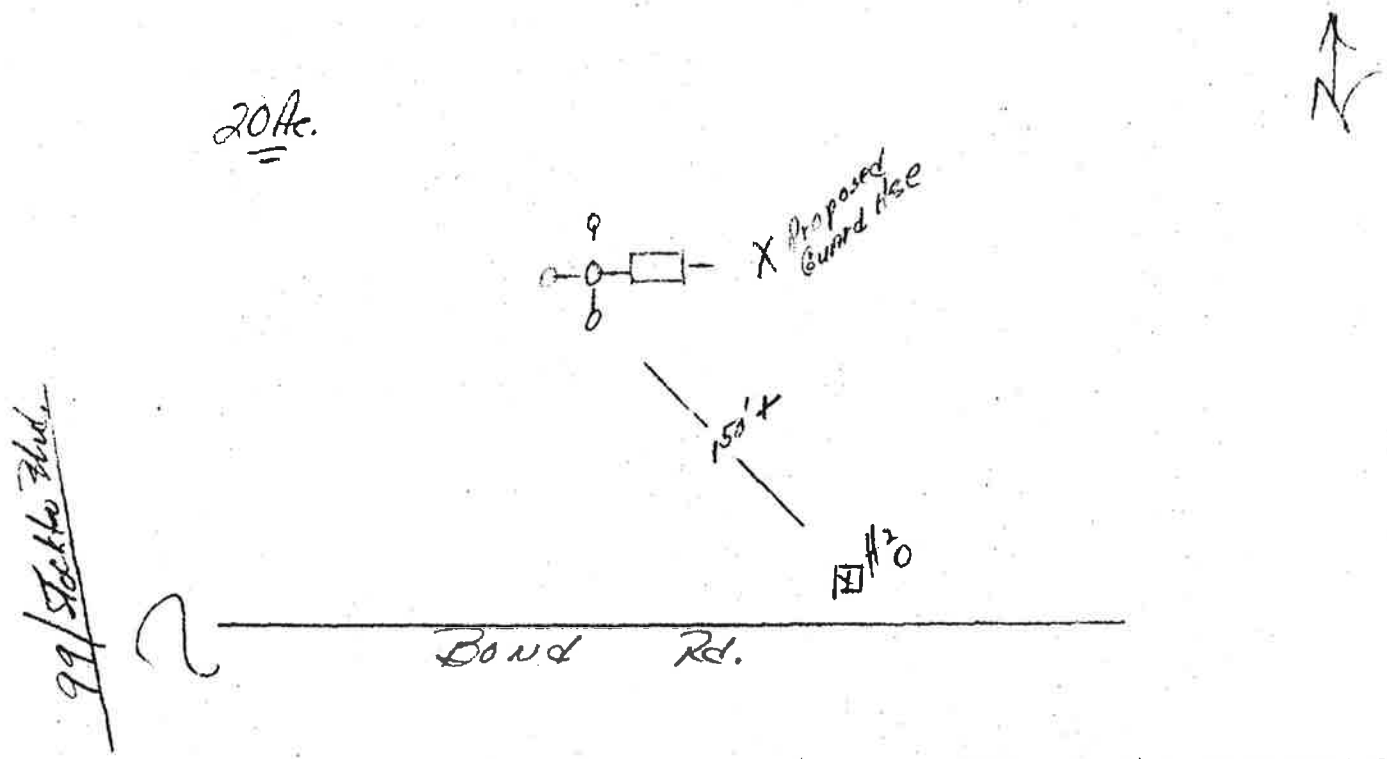
INSTALLATION

Septic Tank: New ☒ Existing ☐ Size: 1500 gals. Tank pumped: Yes ☐ No ☐

Leaching Pits: Number 3 , 3 Feet Diameter 35 Feet Deep.

Deep Trench ☐ Leach Line ☐ : Length: _____ Lineal Feet, Width: _____ ft, Depth _____ ft.

PLOT PLAN: *SHOW STREETS, WATER COURSES, PARCEL DIMENSIONS, LOCATION OF STRUCTURES, LAYOUT OF SEPTIC SYSTEM, WATER WELLS (ALSO ADJACENT WELLS), CONTOURS, AND ANY OTHER REQUIRED INFORMATION.*



I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT AND THAT THE PROPOSED WORK WILL BE DONE TO MEET THE REQUIREMENTS OF SACRAMENTO COUNTY CODE, CHAPTER 6.32 AND ALL REGULATIONS OF THE COUNTY HEALTH OFFICER. A FEE FOR THE SANITATION PERMIT IS SUBMITTED HEREWITH. THIS PERMIT WILL EXPIRE ONE YEAR FROM DATE OF ISSUE.

Walker Pre-Cast Concrete Products

OWNER OR CONTRACTOR

GENE S. PORTER, INC.

ENGINEERING & ARCHITECTURE
77 CADILLAC DRIVE, SUITE 188
SACRAMENTO, CA 95825

(916) 927-1746 FAX (916) 927-4174

August 27, 1990

Environmental Management Department
Hazardous Materials Division - Suite 230
County of Sacramento
8475 Jackson Road
Sacramento, CA 95826

Re: Sacramento County-Yolo County
Mosquito Abatement District
8631 Bond Road
Elk Grove, CA

Att: Delyn Ellison

Dear Ms. Ellison:

As per our telephone conversation this morning enclosed is manufacturer's data sheet on the petroleum hydrocarban product commonly referred to as G B.

We propose to store this product used in the control of mosquitos at the above location in above ground facilities.

Cordially,

George Schleicher

GS:hch
encl.

GENE S. PORTER, INC.

ENGINEERING • ARCHITECTURE
77 CADILLAC DRIVE, SUITE 188
SACRAMENTO, CA 95825

(916) 927-1746 FAX (916), 927-4174

October 31, 1990

Environmental Management Department
Hazardous Materials Division - Suite 230
County of Sacramento
8475 Jackson Road
Sacramento, CA 95826

Re: Sacramento County-Yolo County
Mosquito Abatement District
8631 Bond Road
Elk Grove, CA

Att: Delyn Ellison

Dear Ms. Ellison:

Please refer to the enclosed copy of our August 27, 1990 letter with enclosure, regarding the proposed aboveground stationary tank storage outside of buildings for both flammable and nonflammable liquids as part of the expansion of existing facilities at the above location.

Enclosed is a preliminary site plan showing the nature and extent of this proposed expansion marked to show the aboveground storage tanks for the following liquids:

Gasoline	1000 gal.
Waste Oil	500 gal
Diesel	1000 gal.
GB 136	8000 gal.

This proposed layout of aboveground storage facilities has been reviewed by the Elk Grove Fire Marshall and approved subject to the completion of civil drawings complying with certain stipulated conditions which he requires and which the District is prepared to meet.

We would like to determine at this time what environmental requirements will have to be met in addition to the requirements of the 1982 Uniform Fire Code Article 79 for these aboveground storage tanks located outside of buildings.

Because of the extremely high cost of using multiple aboveground ConVault tanks for storing the nonflammable diesel and GB136 we are exploring the use of a fire code compliant 1000 gallon and an 8000 gallon tank for these two liquids diked to provide secondary containment.

The District which is a public entity currently holds a permit for the storage of hazardous materials at this location. We are not clear whether the addition of these new storage facilities can be handled under the current permit or if a second permit will be required.

We would appreciate your comments on the enclosed information.

Please feel free to call if you have any questions.

Cordially,

George Scholcher

GS:hch
encl.

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
8475 Jackson Road, Suite 230 • Sacramento, CA 95826 • (916) 386-6160

White — Env. Mgt.
Yellow — Inspector
Pink — Facility

HAZARDOUS MATERIALS DIVISION
Mel Knight, Chief

HAZARDOUS MATERIAL INSPECTION REPORT

DBA Mosquito Abatement District ADD 8631 Bond Road SUITE _____ CITY Elk Grove PH 922-6526
OWNER Sac Co - Yolo Co ADD _____ SUITE _____ CITY _____ PH _____
[✓] BERP INITIAL [ ] _____ ANNUAL [ ] REINSPECTION HR. _____ [ ] COMPLAINT/REQUEST AP # _____
BUSINESS INVENTORY & EMERGENCY RESPONSE PLAN B.L. # _____

		Yes	No	N/A
A.	**PERMIT APPLICATION**			
	1. Complete	✓		
B.	**INVENTORY**			
	2. All hazardous material listed		✓	
	3. Amount consistent with inventory	✓		
	4. Material stored in proper containers	✓		
	5. Container properly labeled		✓	
	6. Compatible chemical storage	✓		
	7. Spill containment provided	✓		
	8. Proper hazardous waste disposal		✓	
	9. Containers not leaking	✓		
	10. UFC violation		✓	
C.	**EMERGENCY RESPONSE PLANS**			
	11. Plan consistent with conditions on site			
D.	**PLOT PLAN**			
	12. Streets & adjacent building(s) identified	✓		
	13. Hazardous materials location	✓		
	14. Exits & emergency exits	✓		
	15. Fire extinguishers/water source	✓		✓
	16. Emergency shut-off switches			
	17. Utility shut-off switches	✓		
	18. Location & verification of MSDS	✓		
	19. Sewer system & storm drains	✓		
	20. Evacuation area	✓		
	21. Changes modification from previous year			✓
E.	**TRAINING**			
	22. Methods for safely handling hazardous material	✓		
	23. Safety equipment examination date			✓
	24. Familiarization of emergency response plan	✓		
	ACUTELY HAZARDOUS MATERIALS			
	25. Registration form filed			✓
	26. Trade secret requested			✓

COMMENTS:
✓ ADD ACETYLENE TO INVENTORY
(2.) ✓ LIST SOLVENT SINK ON WASTE - PORTION OF INVENTORY
✓ ADD ATF (AUTOMATIC TRANSMISSION FLUID TO INVENTORY AND LIQUID FERTILIZER
✓ CHECK MSDS FOR SOAP
(8.) ✓ MAINTAIN COPIES OF WASTE DISPOSAL RECORD ON SITE FOR REVIEW DURING INSPECTION
✓ OBTAIN AN EPA WASTE GENERATOR NUMBER SPECIFIC TO THIS ADDRESS
✓ PUMP "SUMP" UNDER THE DIRECTION OF A HAZARDOUS WASTE HAULER
✓ FILL OUT A SEWER USE QUESTIONNAIR
(5.) LABEL LIQUID FERTILIZER STORAGE TANK WITH CONTENT'S NAME AND HAZARD CLASS. IF APPLICABLE.
✓ NOTE: DO NOT CUT ABOVE GROUND STORAGE TANK ON SITE.

UNDERGROUND STORAGE TANKS EHID # _____ No. Tanks PD ____ Actual No. Tanks ____ Permit Date _____

*Tank I.D. #					
*Tank Volume	✓ APPARENT HYDROCARBON CONTAMINATION ON DIRT FLOOR OF VEHICLE STORAGE BLDG.				
*Containment					
A. MONITORING ALT.					
Applicable Sections		N			
B. TANK TEST RESULTS		A			
1. DATE					
2. NET RATE					

		Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
27.	INVENTORY RECONCILIATION															
28.	TANK GAUGING															
29.	DOUBLE CONTAINMENT															
30.	PIPELINE LEAK DETECTOR															
31.	METERS CALIBRATED															
32.	ELECTRONIC MONITORING															
33.																

YOU ARE HEREBY ORDERED TO CORRECT THE VIOLATION WITHIN 60 **DAYS.**

INSPECTOR Dalyn Ellison 2-11-91
ACCEPTED BY _____

To: **Delyn** Ellison

From: David Brown

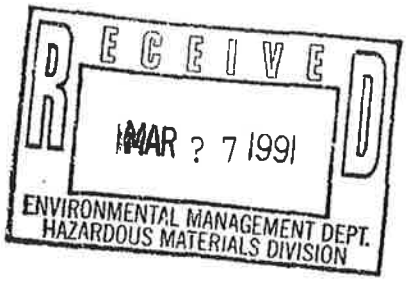
Subject: Business Emergency Response Plan

Dear **Delyn,**

Enclosed are the materials that I had neglected to list in the original plan that was submitted. I have also sent in the materials for obtaining an **E.P.A.** Waste Generator Number for our Bond Road facility. Please contact me if there is any other information that is required by us.

thanks

Dave



ELK GROVE
COMMUNITY
SERVICES
DISTRICT

FIRE DEPARTMENT
(916) 685-9502

RECREATION AND
PARK DEPARTMENT
(916) 685-3917

GERALD H. DERR
General Manager

BARBARA M. WACKFORD
Administrator of
Parks and Recreation

THOMAS J. FISCHLIN
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JOHN L. ZEHNDER, JR.

MICHAEL LEARY

8760 ELK GROVE BLVD.
ELK GROVE, CA 95624

March 28, 1991

Gene S. Porter Inc.
77 Cadillac Drive, Suite 188
Sacramento, CA 95825

RE: Mosquito Abatement Facility
Bond Road

Dear Mr. Porter,

I have reviewed the plans you provided on the revised storage locations of the flammable and combustible liquids. My first concern is that I have seen so many plans that quality control is becoming difficult to maintain. After you have made the following corrections I would like for you to send me two sets of plans for review.

1. I have overlooked the need for a fire hydrant at the northwest portion of this facility. The location of this hydrant is shown on the plans and shall be incorporated with the "civil" drawings for approval.

2. The 60'/ 40' turning radii are not provided at the locations shown. Correct these radii for next review.

3. The location of the storage tanks is acceptable.

I look forward to seeing plans incorporating all of these and previously mentioned items.

Sincerely,

Richard Holmes
Fire Marshal

COUNTY OF SACRAMENTO

ENVIRONMENTAL MANAGEMENT DEPARTMENT

NORMAN D. COVELL, DIRECTOR

HAZARDOUS MATERIALS DIVISION
Mel Knight, Chief

May 6, 1991

David Brown
Sacramento-Yolo County Mosquito and Vector Control District
1650 Silica Avenue
Sacramento, CA 95624

SUBJECT: PROPOSED EXPANSION OF THE SACRAMENTO-YOLO MOSQUITO ABATEMENT AND VECTOR CONTROL DISTRICT BOND ROAD PROJECT

Dear Mr. **Brown,**

This office has reviewed the proposed expansion of the Sacramento-Yolo County Mosquito Abatement District for compliance with the pertinent hazardous materials and waste regulations implemented by this **department,** Chapter 6.95 of the California Health and Safety Code (Hazardous Materials Management Plans) and Title 22 of the California Code of Regulations (Small Quantity Hazardous Waste **Generators).** Both of the **programs** are most appropriately directed at the operational activities of **an** industry. **However,** given my current knowledge of the Bond Road facility, I will address the proposed expansion.

To comply with the criteria of Chapter **6.95,** within thirty days of receipt of the new hazardous materials (the Golden Bear insecticide, the gasoline and **diesel),** please notify this department with an up-date of the current hazardous materials inventory and site map.

The waste oil generated on site must be handled as hazardous waste per the requirements of Title 22 of the California Code of Regulations. The proposed location of the new above-ground waste oil tank appears to be outside of the fenced area on the facility map. It is strongly recommended by this department that the tank be secured, denying access to the public.

A site inspection of the current conditions at the Bond Road facility was conducted by this **departmenton** March 11, 1991. Given the remarks noted on the inspection report have been attended to (see **attached),** the Bond Road facility appears to be in compliance with the regulations enforced by this department.

Most of the specific hazardous material storage criteria is located in the Uniform Fire Code (1988 Edition) Article 80. The fire jurisdictions are responsible for implementation of the UFC. The Elk Grove Fire District has authority at the Bond Road facility.

Before any structure is placed over or any improvements are made to the existing shop and insecticide storage building located on the northwest side of the Bond Road property, the hydrocarbon contamination of the dirt floor must be addressed with a site assessment. If the existing storage is to be moved from the area, the extent of contamination must also be determined and remediated if necessary.

If I can be of any further service to you or your organization regarding these matters, please feel free to contact me at (916) 386-6689.

Sincerely,

Delyn Ellison-Lloyd

Delyn Ellison-Lloyd
Hazardous Materials Specialist II

DEL:cdc
Enclosure
cc Mr. George Schelcher

May 9, 1991

Delyn Ellison-Lloyd
Hazardous Materials Specialist II

Subject: Bond Road Project

Dear **Ms. Ellison-Lloyd,**

This letter regards the comments made in your letter to us dated May 6, 1991. The waste oil tank that stores our waste oil is not, as you state, located outside of the fenced area of our property. Our entire facility is surrounded by a six foot chain-link **fence,** and the waste oil tank is inside these boundaries. After completion of our project the tank will still be located within these boundaries. If there are any questions concerning this, I would be happy to take you to our facility and clear this matter up.

The hydrocarbon contamination that you refer to will be addressed with a site assessment. We do not plan any improvements at that location of our facility. All of the improvements that are planned are south of this point. We will, however, start that assessment within a year of the completion date of our project, and I will notify your office when that is completed.

If I can be of any further service to you, please contact me at (916) 922-6526.

Sincerely,

David Brown
Administrative Assistant

cc. George Schelcher

White — Env. Mgt.
Yellow — Inspector
Pink — Facility

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT

8475 Jackson Road, Suite 230 • Sacramento, CA 95826 • (916) 386-6160

HAZARDOUS MATERIALS DIVISION
Mel Knight, Chief

HAZARDOUS MATERIAL INSPECTION REPORT

DBA MOSQUITO ABATEMENT DIST ADD 8631 BOND RD SUITE ________ CITY ELK GROVE ZIP ________

BUS PH 922-6526 CONTACT DAVE BROWN PH ________ OWNER SAC CO-YOLO CO

[ ] ____ INITIAL [ ] ____ ANNUAL [✓] REINSPECTION HR. 1 [ ] COMPLAINT/REQUEST AP # ________

BUSINESS INVENTORY & EMERGENCY RESPONSE PLAN B.L. # ________

	Yes	No	N/A
A. PERMIT APPLICATION			
1. Complete	✓		
B. INVENTORY			
2. All hazardous material listed	✓		
3. Amount consistent with inventory	✓		
4. Material stored in proper containers	✓		
5. Container properly labeled	✓		
6. Compatible chemical storage	✓		
7. Spill containment provided	✓		
8. Proper hazardous waste disposal	✓		
9. Containers not leaking	✓		
10. Secure storage	✓		
11. No UFC violation noted	✓		
C. EMERGENCY RESPONSE PLANS			
12. Plan consistent with conditions on site	✓		
D. PLOT PLAN			
13. Streets & adjacent building(s) identified	✓		
14. Hazardous materials location	✓		
15. Exits & emergency exits	✓		
16. Fire extinguishers/water source	✓		
17. Emergency shut-off switches			✓
18. Utility shut-off switches	✓		
19. Location & verification of MSDS	✓		
20. Sewer system & storm drains	✓		
21. Evacuation area			
22. Changes modification from previous year			✓
E. TRAINING			
23. Hazardous material safe handling methods	✓		
24. Safety equipment examination date	✓		✓
25. Emergency response plan familiarization	✓		
F. ACUTELY HAZARDOUS MATERIALS			
26. Registration form filed			✓
27. Trade secret requested			✓

COMMENTS:

(2.) ACETYLENE, AUTOMATIC TRANSMISSION FLUID, SOLVENT AND LIQUID FERTILIZER ADDED TO INVENTORY

(5) ABOVEGROUND FERTILIZER TANK LABELED WITH CONTENTS NAME

(8) PAPERWORK SUBMITTED TO OBTAIN EPA WASTE GENERATOR NUMBER PER LETTER DATED 3-27-91

• HYDROCARBON CONTAMINATION IN VEHICLE STORAGE BLDG WILL BE ADDRESSED AFTER PROJECT COMPLETION

• SITE COMPLETELY ENCLOSED BY CHAIN LINK FENCE, WASTE OIL TANK WILL BE INSIDE A SECURE AREA WHEN INSTALLED

UNDERGROUND STORAGE TANKS EMD # ________ No. Tanks PD ____ Actual No. Tanks ____ Permit Date ________

*Tank I.D. #					
*Tank Volume					
*Containment					
A. MONITORING ALT.					
Applicable Sections		N			
B. TANK TEST RESULTS					
1. DATE			A		
2. NET RATE					

	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
28. INVENTORY RECONCILIATION															
29. TANK GAUGING															
30. DOUBLE CONTAINMENT															
31. PIPELINE LEAK DETECTOR															
32. METERS CALIBRATED															
33. ELECTRONIC MONITORING															
34.															

YOU ARE HEREBY ORDERED TO CORRECT THE VIOLATION WITHIN N/A **DAYS.**

[illegible signature] 5-29-91 [illegible signature]

GENE S. PORTER, I[redacted]

ENGINEERI[redacted] • ARCHITECTURE
77 CADILLAC DRIVE, SUITE 188
SACRAMENTO, CA 95825

(916) 927-1746 FAX (916). 927-4174

December 4, 1991

County of Sacramento
Environmental Management Department
Hazardous Materials Division
8475 Jackson Road Suite 230
Sacramento, CA 95826

Re: Sacramento-Yolo Mosquito
And Vector Control District
8631 Bond Road
Elk Grove, CA

Att: Delyn Ellison

Dear Ms. Ellison:

Enclosed are a Partial Site Plan, and plans titled Golden Bear Insecticide Storage and Golden Bear Insecticide Tank showing the location and manner in which the 8000 gallons of Golden Bear, a petroleum hyrocarbon classified as hazardous, is to be stored aboveground on this project.

The Fire Marshal of the Elk Grove Fire Department considers Golden Bear to be a non-flammable liquid and has no special signing requirements that must be met in connection with the storage and handling of this material.

Please review the enclosed plans and let us know if the Environmental Management Department has any special signing requirements that must be posted at or on this tank..

If you need any additional information please call.

Cordially,

George Schleicher

GS:hch
encl.

Sac Co / Yolo Co Mosquito Abatement

CHRONOLOGY OF EVENTS

DATE	PERSON INVOLVED	INFORMATION RECEIVED VIA	COMMENTS
2-18-92	AOE	Phone Letter	Request from George Schelshes for the Sac Co / Yolo Co Mosquito Abatement District 8631 Bond Rd. Expanding the pesticide storage area which must be sprinkled per Elk Grove Fire. New 1,281a sq. ft. requiring fourteen sprinkler heads which produces 8,200 gallons for 20 mins, for containment they would like to gravity feed the effluent via piping from the wash rack to 135,000 gallon gunite pool (which is dry). Want to curb the storage area.
3-6-92	AOE	Phone	Spoke with Stu Fostas from Elk Grove Fire Dept. He indicated he had preformed an on-site inspection. He determined that they had below threshold quantities of Haz mat with regards to Article 80 of UFC. so they do not need to meet the mitigation requirements

AEGIS ENVIRONMENTAL, INC.

1050 Melody Lane, Suite 160, Roseville, CA 95678 ✦ 916 • 782-2110 / 916 • 969-2110 / FAX 916 • 786-7830

May 14, 1992

Mr. Irvin Schauer
Sacramento-Yolo Mosquito and Vector Control District
1650 Silica Avenue
Sacramento, California 95815

Subject: **Limited Investigation Letter Report**
Storage Barn
8631 Bond Road, Elk Grove, California

Dear Mr. Schauer:

Aegis Environmental, Inc. (Aegis), is pleased to provide Sacramento-Yolo Mosquito and Vector Control District (SYMVCD) this letter report documenting the results of the limited investigation on April 16, 1992, at the subject site (Figure 1). This investigation was in response to a request from the County of Sacramento Environmental Management Department-Hazardous Materials Division. This letter report is based, in part, on information obtained by Aegis from SYMVCD and is subject to modification as newly acquired information may warrant.

SITE DESCRIPTION

The SYMVCD Bond Road site is an active site used in the control of mosquitos and other vectors that spread disease. The structure labeled as a barn on Figure 2 was used for the storage of equipment and materials. The project site is located in a agricultural-residential area of Elk Grove.

PURPOSE AND SCOPE

The purpose and scope of work completed at the site includes the following, and was performed according to the Aegis standard operating procedures (SOP) included in Appendix A:

- Excavate and remove soil within the barn (Figure 3) that was visually identified to contain petroleum hydrocarbons.

- Based on the results of field observations, two confirmation soil samples (ES-1 and ES-2) were collected from the base of the excavation and submitted to a state-certified laboratory for analysis.
- Three yards of impacted soil from the excavation was placed on plastic sheeting. Soil samples will be collected at a later date after bioremediation of the stockpiled soil and submitted to a state-certified laboratory for analysis.

ANALYTICAL RESULTS: SOIL

A total of two soil samples were analyzed by Sparger Technology, of Sacramento, California, for concentrations of;

- total petroleum hydrocarbons, as diesel, by EPA Method 8015;
- total lead, and;
- total oil & grease by EPA Method 5520.

The soil sample analytical results for gasoline constituents are summarized in Table 1. The soil sample analytical reports and chain-of-custody form are included in Appendix B.

REMARKS/SIGNATURES

The interpretations and/or conclusions contained within this letter report represent our professional opinions. These opinions are based on currently available information, and were developed in accordance with currently accepted geologic, hydrogeologic, and engineering practices at this time and for this specific site. Other than this, no warranty is implied or intended.

This letter report has been prepared solely for the use of Sacramento-Yolo Mosquito and Vector Control District. Any reliance on this letter report by third parties shall be at such parties' own risk. The work described herein was performed under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

We appreciate the opportunity to provide Sacramento-Yolo Mosquito and Vector Control District with geologic, hydrogeologic, and engineering and environmental consulting services, and trust this letter report meets your needs. If you have any questions or concerns, please call us at (916) 782-2110.

Sincerely,

AEGIS ENVIRONMENTAL, INC.

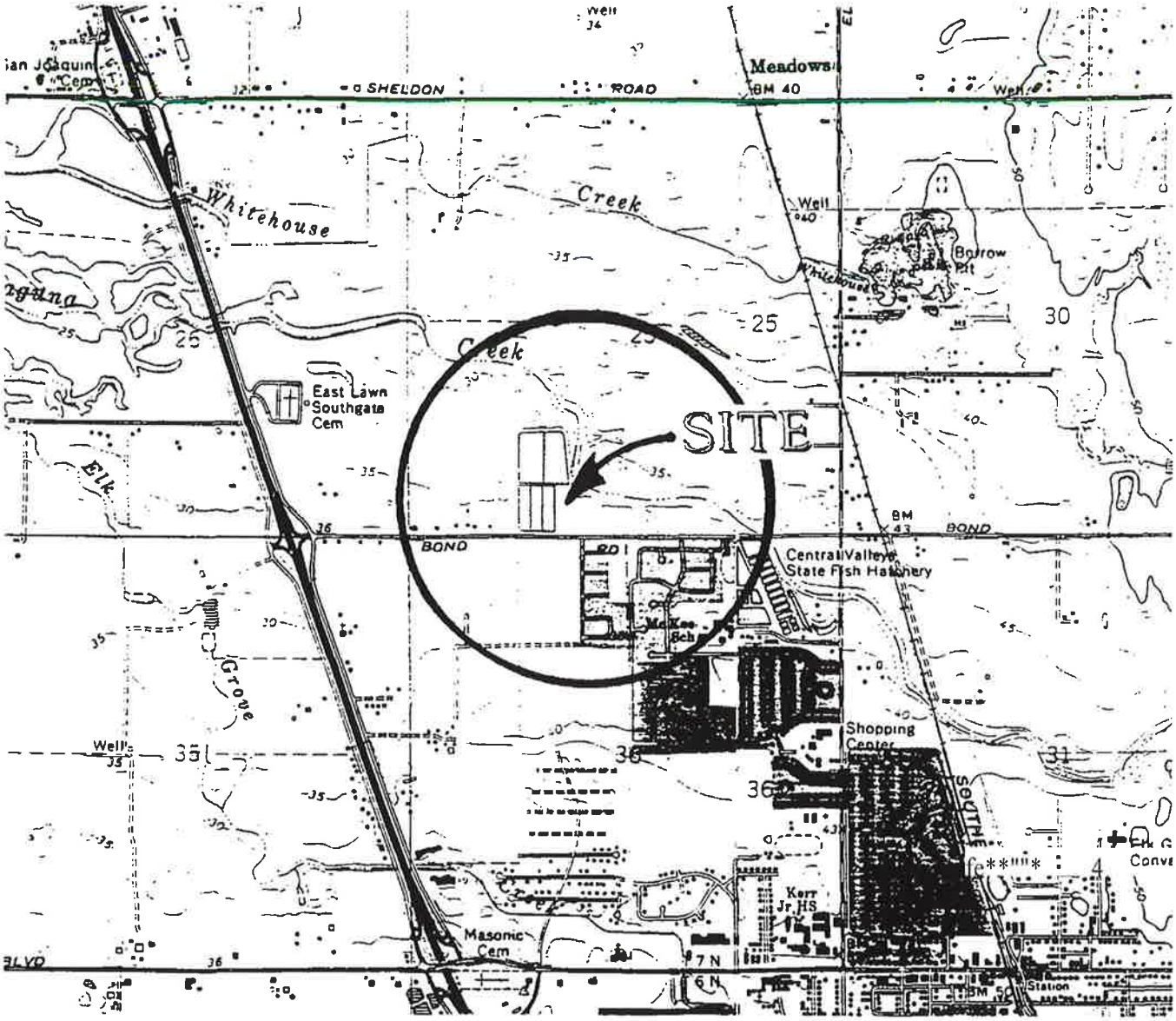
Owen M. Kittredge
Staff Geologist

Pat Wright
Registered Geologist
CRG No. 529

5-15-92
Date

OMK/PW/law

FIGURES

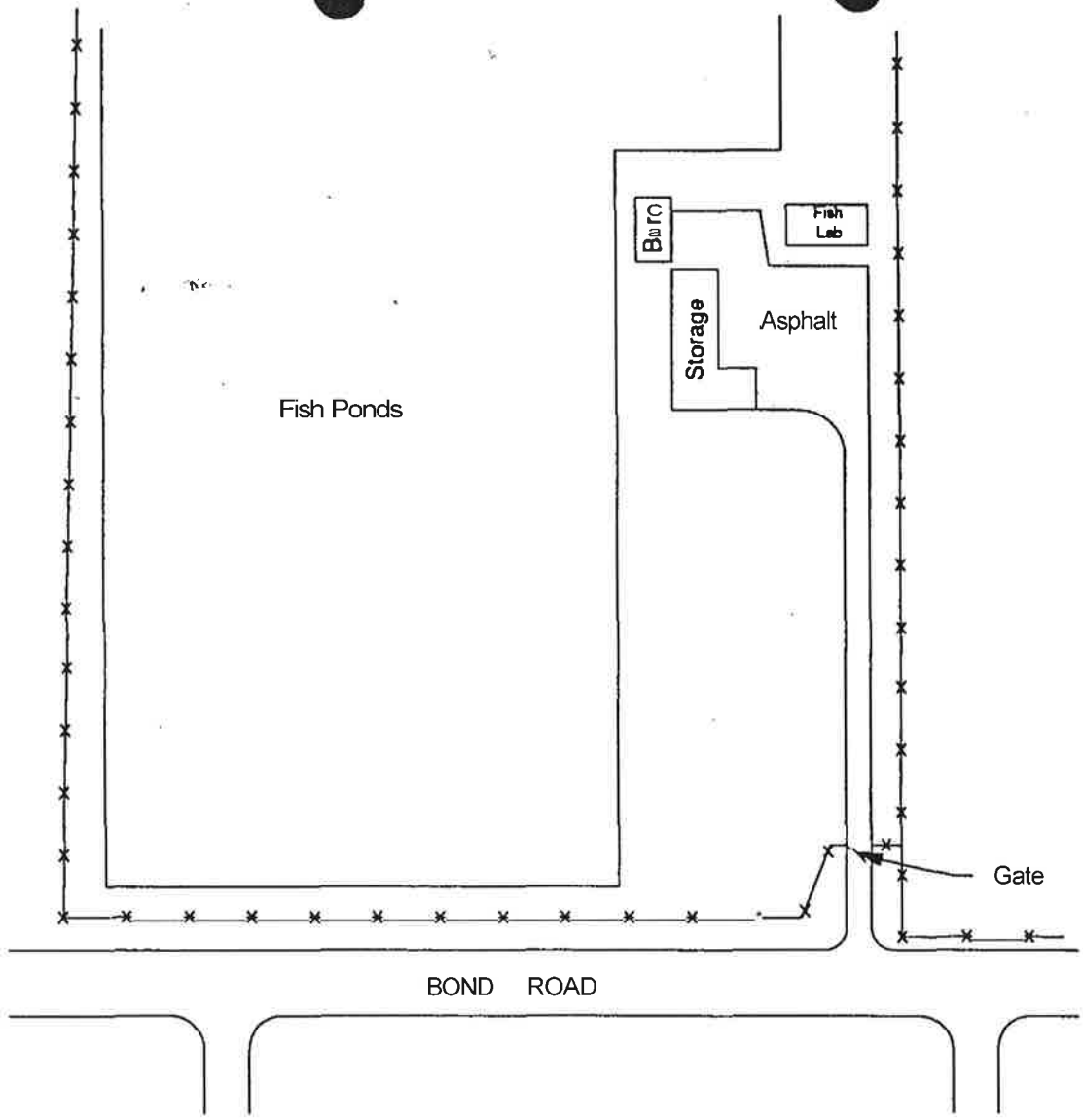


GENERAL NOTES:

BASE MAP FROM USGS
7.5 MINUTE TOPOGRAPHIC
FLORIN AND ELK GROVE. **CA**

0 2000 4000
Approximate Scale
1" = 2000'

AEGIS ENVIRONMENTAL, INC.		SITE LOCATION MAP	FIGURE 1
DRAWN BY: D. Hada	DATE: April 19, 1992	Bond Road **Sacramento-Yolo** Mosquito and Vector Control District 8631 Bond Road **Elk** Grave, CA	PROJECT NUMBER: 92-028
REVISED BY:	DATE:		
REVIEWED BY:	DATE: 5/15/92		



LEGEND

Fence

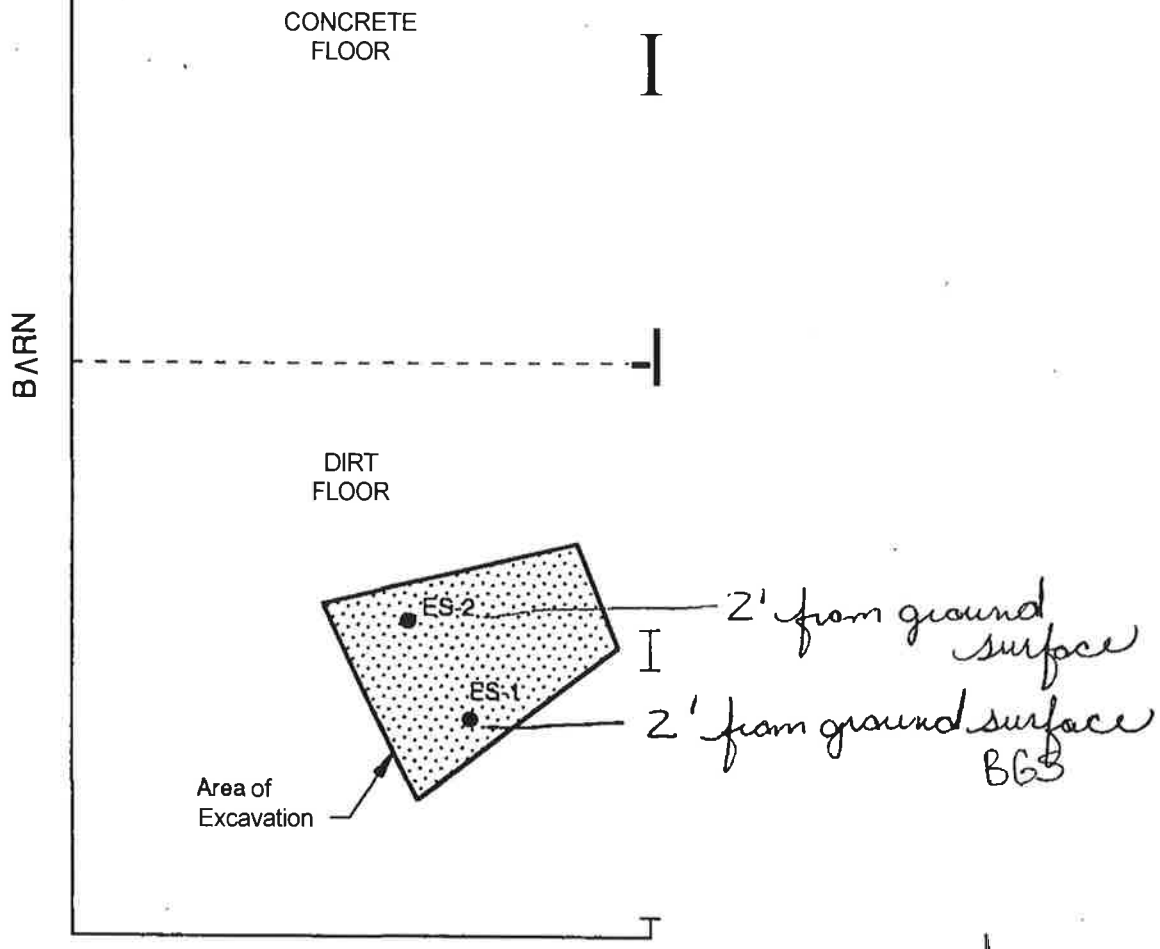
NOTES

Site Map After **Field** Sketch
(April **16, 1992**)

All Locations Are Approximate

0 60 120
Approximate **Scale**
1" = 60'

AEGIS ENVIRONMENTAL, INC.		SITE MAP	FIGURE 2
DRAWN BY: D. Hada	DATE: April **19, 1992**	Bond Road **Sacramento-Yolo** Mosquito and Vector Control District 8631 Bond Road Elk Grove, CA	
REVISED BY:	DATE:		PROJECT NUMBER: 92-028
REVIEWED BY:	DATE: 5/15/97		



LEGEND

● Excavation **Sample** Location

NOTES

Site Map After **Field** Sketch
(April 16, 1992)

All Locations Are Approximate

0 10 20
Approximate Scale
1" = 10'

AEGIS ENVIRONMENTAL, INC.		SAMPLE LOCATION MAP	FIGURE 3
DRAWN BY: D. Hada	DATE: April 19, 1992	Bond **Road** **Sacramento-Yolo** Mosquito and Vector Control District 8631 Bond Road Elk Grove, CA	PROJECT NUMBER: 92-028
REVISED BY:	DATE:		
REVIEWED BY:	DATE: 5/15/92		

TABLE

TABLE 1

ANALYTICAL RESULTS: SOIL

8631 BOND ROAD, ELK GROVE, CALIFORNIA
APRIL 16, 1992
(All results in parts-per-million)

Sample	Total Petroleum Hydrocarbons, as Diesel #2	Total Oil & Grease	Total Lead
ES-1	<	<	7.1
ES-2	<	<	<< 0.25

NOTES:
- < = Below detection limits per "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (August 10, 1990) Practical Quanititation Reporting Limits. (PQL for BTEX = 0.005 ppm, TPH, as gasoline and diesel = 1.0 ppm).
- << = Below the indicated detection limit labelled in the analytical laboratory results reports.
- ES-2 = Excavation sample #2.

ATTACHMENT 1

STANDARD OPERATING PROCEDURES

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: SOIL EXCAVATION AND SAMPLING
SOP-2

Excavation and subsequent soil sampling is performed under the direction of a registered geologist or civil engineer. To reduce the potential for cross-contamination, all excavation equipment is either steam-cleaned or washed prior to use and between excavations. Soil samples for chemical analysis are collected in cleaned, thin-walled brass tubes of varying diameters and lengths (e.g., 6 inches long by 2 inches outside-diameter) or other appropriate cleaned sample container. If used, one tube may be set in a 2-inch inside-diameter hand-driven sampler. To reduce the potential for cross-contamination between samples, the sampler is washed in a solution and double-rinsed between each sampling event.

Upon recovery, a portion of the soil sample is sealed for later screening with either a portable photoionization detector, flame ionization detector, or an explosimeter. Another portion of the sample is used for description of the excavated materials. A third portion of the sample is hermetically sealed, labeled and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. These procedures minimize the potential for cross-contamination and volatilization of volatile organic compounds prior to chemical analysis.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES
SOP-4

Sample identification and chain-of-custody procedures ensure sample integrity, and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, sampling methodology, name(s) of on site personnel and any other pertinent field observations also recorded on the field excavation or boring log.

Chain-of-custody forms are used to record possession of the sample from time of collection to its arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample-control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s) and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURE
RE: GROUNDWATER PURGING AND SAMPLING
SOP-7

Prior to water sampling, each well is purged by evacuating a minimum of three well-bore volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity or pH stabilize, a maximum of ten well-bore volumes of groundwater have been recovered or the well is bailed dry. When practical, the groundwater sample should be taken when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a Teflon bailer, PVC bailer, or stainless steel bladder pump with a Teflon bladder. If the sampling system is dedicated to the well, then the bailer is usually Teflon, but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analyzer (VOA) vials, with Teflon septa, are used as sample containers.

The groundwater sample is decanted into each VOA vial in such a manner that there is no meniscus at the top of the vial. A cap is quickly secured to the top of the vial. The vial is then inverted and gently tapped to see if air bubbles are present. If none are present, the vial is labeled and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. Label information should include a unique sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

For quality control purposes, a duplicate water sample is collected from each well. This sample is put on hold at the laboratory. When required, a trip blank is prepared at the laboratory and placed in the transport cooler. It is labeled similar to the well samples, remains in the cooler during transport, and is analyzed by the laboratory along with the groundwater samples. In addition, a field blank may be prepared in the field when sampling equipment is not dedicated. The field blank is prepared after a pump or bailer has been either steam-cleaned or properly washed, prior to use in the next well, and is analyzed along with the other samples. The field blank analysis demonstrates the effectiveness of the in-field cleaning procedures to prevent cross-contamination.

To minimize the potential for cross-contamination between wells, all well development and water sampling equipment not dedicated to a well is either steam-cleaned or properly washed between use. As a second precautionary measure, wells are sampled in order of least to highest concentrations as established by available previous analyses.

ATTACHMENT 2

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

Sparger Technology, Inc.
With Automation in Mind

*

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

May 1, 1992

Mr. Owen Kittredge
Aegis Environmental Inc.
1050 Melody Lane, Suite 160
Roseville, California 95678

Dear Mr. Kittredge

Enclosed is the report for the two (2) soil samples. The samples were received at Sparger Technology Analytical Lab on April 17, 1992.

The samples were received in two (2) brass tubes. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

The report consists of the following sections:

I. Sample Description
II. Analysis Request
III. Quality Control Report
IV. Analysis Results

No problems were encountered with the analysis of your samples.

If you have questions, please feel free to call.

Sincerely,

R. L. James
Principal Chemist

3050 Fire Circle, Suite 112 » Sacramento, California 95827 * (916) 362-8947 • FAX (916) 362-0947

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

I Sample Description

See attached Sample Description Information.

The samples were received under chain-of-custody.

II Analysis Request

The following analytical tests were requested:

Lab ID	Your ID	Analysis Description
ST92-04-260A	ES-1	TPH-diesel
ST92-04-261A	ES-1	Total Lead
ST92-04-262A	ES-1	Oil & Grease
ST92-04-263A	ES-2	TPH-diesel
ST92-04-264A	ES-2	Total Lead
ST92-04-265A	ES-2	Oil & Grease

3050 Fire Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

III **Quality** Control

A. Project Specific QC. No **project** specific QC (i.e., spikes and/or **duplicates)** was requested.

B. Method Blank **Results.** A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your sample.

No target parameters were detected in the method blank associated with your sample at the reporting limit levels noted on the data sheets in the Analytical Results section.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{\text{(measured concentration)}}{\text{(actual concentration)}} \times 100$$

IV **Analysis Results**

Results are on the attached data sheet.

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-9947 • FAX (916) 362-0947

Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8015 Modified Analysis Report

Attention:	Mr. Owen Kittredge Aegis Environmental 1050 Melody Lane, Suite 160 Roseville, CA 95678	Date Sampled: Date Received: Date Analyzed:	Apr. 16, 1992 Apr. 17, 1992 Apr. 29, 1992
Project #:	92-028	Project Name:	8631 Bond Road Elk Grove, CA
Client ID:	ES-1	LAB ID:	ST92-04-260A
Matrix:	Soil	Dilution:	

Name	Amount	Detection Limit	Units
TPHdiesel	ND	1.0	ug/g

ppb - part* per billion - ug/kg - micrograms per kilogram
ppm - parts per million - ug/g - micrograms per gram
NO - Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

4-29-92
Data Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY. INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Total Lead Analysis Report

Attention: Mr. Owen Kittredge
Aegis Environmental
1050 Melody Lane, Suite 160
Roseville, CA 95678

Date Sampled: Apr. 16, 1992
Date Received: Apr. 17, 1992
Date Analyzed: Apr. 21, 1992

Project #: 92-028
Project Name: 8631 Bond Road
Elk Grove, CA
Client ID: ES-1
LAB ID: ST92-04-261A
Matrix: Soil
Dilution:

Name	Amount	Reporting Limit	Units
Total Lead	7.1	0.25	ug/g

ppb - parts per billion - ug/kg - micrograms per kilogram
ppm = parts per million - ug/g = micrograms per gram
ND - Not Detected. Compound(s) may be present at concentrations below the reporting limit.

R. L. James, Principal Chemist

4-21-92
Data Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

5520 Modified Analysis Report

Attention:	Mr. Owen **Kittredge** Aegis Environmental 1050 Melody Lane, Suite 160 Roseville, CA 95678	Date Sampled: Date Received: Date Analyzed:	Apr. **16,** 1992 Apr. **17,** 1992 Apr. **25,** 1992
Project #:	92-028	Project Name:	8631 Bond Road Elk **Grove,** CA
Client ID:	**ES-1**	LAB ID:	ST92-04-262A
Matrix:	Soil	Dilution:	

Name	Amount	Detection Limit	Units
Oil & Grease	ND	50	ug/g

ppb - parts per billion - ug/kg = microgram per kilogram
ppm - parts per million - ug/g - microgram per gram
NO - Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

4-29-92
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

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Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8015 Modified Analysis Report

Attention:	Mr. Owen **Kittredge** Aegis Environmental 1050 Melody Lane, Suite 160 Roseville, CA 95678	Date Sampled: Date Received: Date Analyzed:	Apr. **16,** 1992 Apr. 17, 1992 Apr. 25, 1992
Project #:	92-028	Project Name:	8631 Bond Road Elk Grove, CA
Client ID:	ES-2	**LAB ID:**	**ST92-04-263A**
Matrix:	Soil	Dilution:	

Name	Amount	Detection Limit	Units
TPHdiesel	ND	1.0	**ug/g**

ppb - part* per billion - **ug/kg** - **micrograms** per **kilogram**
ppm - **parts per million** - ug/g - **micrograms per gram**
NO - **Not Detected. Compound(s) may be present at concentrations** below **the detection limit.**

R. L. James, Principal Chemist

4-25-92
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS **CERTIFIED** BY THE STATE OF **CALIFORNIA**
DEPARTMENT OF HEALTH SERVICES AS A **HAZARDOUS** WASTE **TESTING** LABORATORY
(Certification No. 1614)

3050 Fire Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8047 • FAX (916) 362-0947

Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Total Lead Analysis Report

Attention: Mr. Owen Kittredge
Aegis Environmental
1050 Melody Lane, Suite 160
Roseville, CA 95678

Date Sampled: Apr. 16, 1992
Date Received: Apr. 17, 1992
Date Analyzed: Apr. 21, 1992

Project #: 92-028
Project Name: 8631 Bond Road
Elk Grove, CA
Client ID: ES-1
LAB ID: ST92-04-264A
Matrix: Soil
Dilution:

Name	Amount	Reporting Limit	Units
Total Lead	ND	0.25	ug/g

ppb - parts per billion - ug/kg - micrograms par kilogram
ppm - parts par million - ug/g - micrograms per gram
NO - Not Detected. Compound(s) may be present at concentrations below the raporting limit.

R. L. James, Principal Chemist

4-21-92
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory **Division**
Mobile Laboratory Division
Scientific Division

5520 Modified Analysis Report

Attention:	Mr. Owen **Kittredge** Aegis **Environmental** 1050 Melody **Lane**, Suite 160 Roseville, CA 95678	Date Sampled: Date Received: Date Analyzed:	Apr. **16, 1992** Apr. 17, 1992 Apr. **25,** 1992
Project **#:**	92-028	Project Name:	8631 Bond Road Elk **Grove,** CA
Client ID:	ES-2	**LAB** ID:	ST92-04-265A
Matrix:	Soil	Dilution:	

Name	Amount	Detection Limit	Units
Oil & Grease	**ND**	50	**ug/g**

ppb - parts per billion - **ug/kg** - **microgram** per **kilogram**
ppm - **parts per million** - **ug/g** = **microgram** per gram
NO - Not **Detected. Compound(s) may** be **present** at **concentrations below** the **detection limit.**

R. L. James, Principal Chemist

4-25-92
Data Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY. INC. IS **CERTIFIED** BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A **HAZARDOUS** WASTE TESTING LABORATORY
(Certification No. 1614)

*3050 fire Circle, Suite 112 • Sacramento **California 95827** • (916) 362-8947 • FAX (916) 362-0947*

Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Metals, CAM 5 Soil
MS Recoveries

Date of Analysis: 4/21/92

Units : (mg/Kg)

Element	Sample Conc.	Spike Conc.	MS	% Recovery
Cadmium (Cd)	0.00	25	25.65	102.6%
Chromium (Cr)	19.10	25	49.40	121.2%
Lead (Pb)	2.85	25	30.45	110.4%
Nickel (Ni)	11.45	25	39.95	114.0%
Zinc (Zn)	102.85	25	156.15	213.2%

ppm = parts per million - mg/Kg - milligram per Kilogram
ND - Not Detected. Compound(s) may be present at concentrations below the detection limit.

Ray L. James, Principal Chemist

4-21-92
Date

Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Metals, CAM 5 Soil
LCS / LCSD Recoveries

Date of Analysis: 4/21/92

Units : **(mg/Kg)**

Element	Spike Conc.	LCS	% Recovery	Duplicate LCS	Duplicate % Recovery	% RSD
Cadmium (Cd)	25	28.20	112.8%	22.45	89.8%	23%
Chromium (Cr)	25	30.40	121.6%	24.20	96.8%	23%
Lead (Pb)	25	27.30	109.2%	20.80	83.2%	27%
Nickel (Ni)	25	29.00	116.0%	22.90	91.6%	24%
Zinc{Zn)	25	30.50	122.0%	24.30	97.2%	23%

ppm - parts per million - mg/Kg - milligram per Kilogram

ND - Not Detected. Compound(s) may be present at concentrations below the detection limit.

Ray L. James, Principal Chemist

4-21-92
Date

F-6

Phone (916) 782 2110
FAX (916) 786-7830

AEGIS Environmental Consultants, Inc.

Sample Identification/Field Chain of Custody Record

1241

[redacted] results to:
Aegis Environmental
1050 Melody Lane, Suite 160
Roseville, CA 95678

Site Address: 8631 BOND ROAD, ELK GROVE CA
AEGIS Project #: 92-028
Shipped By: OWEN KITTREDGE
Shipped To: SPL ENVIRONMENTAL TECHNOLOGY
Project Manager OWEN KITTREDGE

For Shell Projects Only
WIC:
AFE:
STOL:
Shell Engineer:
Hazardous Materials Suspected? (yes/no)

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analysis Required
ES-1	—	—	4/16/92	SOIL	1	TPH diesel, TOTAL OIL & GREASE
ES-2	—	—	4/16/92	SOIL	1	"

Sampler(s) (signature) [signature]

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time		Comments

Sealed for shipment by: (signature) [signature] Date/Time 4/16/92 Shipment Method: COURIER
Received for Lab by: (signature) [signature] Date/Time: 4/17/92 2:25 p.m. Comments:

Receiving Laboratory: Please return original for customer signing for receipt of samples.

SACRAMENTO-YOLO
MOSQUITO
& VECTOR
CONTROL
DISTRICT

1650
Silica Avenue
Sacramento,
California
95815
Telephone
916.922.6526
Fax
916.924.1071

To: Delyn Ellison-Lloyd
Hazardous Materials Specialist II
County of Sacramento
Environmental Management Department
8475 Jackson Road, Suite 230
Sacramento, California 95826

May 21, 1992

Subject: Limited Investigation Letter Report

This letter concerns the information you require documenting the results of the remedial investigation we had performed at our Bond Road facility. Enclosed is the documentation from Aegis Environmental, Inc. that describes the investigation. If you have any questions regarding this information, or if we can be of any other service, please contact me at 922-6526.

Sincerely,

David Brown
Administrative Assistant

COUNTY OF SACRAMENTO

ENVIRONMENTAL MANAGEMENT DEPARTMENT

NORMAN D. COVELL, DIRECTOR

HAZARDOUS MATERIALS DIVISION
Mel Knight, Chief

June 1, 1992

Mr. David Brown, Administrative Assistant
Sacramento-Yolo Mosquito and Vector Control District
1650 Silica Avenue
Sacramento Ca 95815

SUBJECT: LIMITED INVESTIGATION LETTER REPORT FOR THE STORAGE BARN AT 8631 BOND ROAD, ELK GROVE, CA 95624

Dear Mr. Brown:

This letter confirms the completion of site investigation and remedial action at the above site. With the provision that the information provided to the Sacramento County Hazardous Materials Division was accurate and representative of existing conditions, it is our position that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

If you have any questions regarding this matter, please contact me at (916) 386-6689.

Sincerely,

Delyn Ellison-Lloyd

Delyn Ellison-Lloyd
Hazardous Materials Specialist

DEL:aw

cc: Mr. Owen Kittredge

SACRAMENTO-YOLO
MOSQUITO
& VECTOR
CONTROL
DISTRICT

RECEIVED
SEP 30 1992
ENVIRONMENTAL MANAGEMENT DEPT.
HAZARDOUS MATERIALS DIVISION

1650
Silica Avenue
Sacramento,
California
95815
Telephone
916.922.6526
Fax
916.924.1071

Delyn Ellison-Lloyd. R.E.H.S.
Hazardous Materials Specialist II
Environmental Management Department
Hazardous Materials Division
8475 Jackson Road, Suite 230
Sacramento, Ca. 95826

9-28-1992

Subject: Stockpile Sampling at Bond Road

Dear Delyn,

Please find enclosed the documentation from Aegis Environmental, Inc. concerning the results of the stockpile soil sampling at our Bond Road facility.

We intend to stock the soil on site until late summer of 1993, at which time we will use the soil as roadbase. The soil will remain on site until that time and will be covered in such a manner so as to avoid further contamination.

If there are any questions concerning this report, please contact us at 922-6526 and we will be happy to respond.

Sincerely,

David Brown
Administrative Assistant

10-1-92
Comments:
1. Source of generation.
2. Quantity
3. Proposed location on site.
4. Depth to groundwater.
5. Material ... the soil as roadbase

AEL

10-2-92
Notified David Brown of the comments. He will submit an amended proposal. AEL

AEGIS ENVIRONMENTAL, INC.

LETTER OF TRANSMITTAL

Check Return Address Block:

☒ 1050 Melody Lane, Suite 160
Roseville, Ca. 95678

☐ 8196 S W Hall Blvd, Suite 300
Beaverton, Oregon 97005

☐ 1175 Fair View, Suite H
Carson City, Nevada 89701

Date: 9/18/92 Project # 92-028

Subject/Title:
STOCK PILE SAMPLING

TO: ATTN: SACRAMENTO-YOLO MOSQUITO & VECTOR CONTROL DISTRICT

ATTENTION: MR. SCHAUER
1650 SILICA AVE.
SACRAMENTO CA. 95815

RECEIVED
SEP 30 1992
HAZARDOUS MATERIALS MANAGEMENT DEPT. DIVISION

We Are Sending: fcfEnclosed ☐ Under Separate Cover Via _____

The Following:
☐ Draft Report / Letter ☐ Regulatory Correspondance ☐ Figures/Maps/Tables
☒ Final Report / Letter ☐ Laboratory Analytical Results ☐ Statement of Qualifications
☐ Cost Estimate ☐ Contract ☐ _____

These Are Transmitted As Checked Below:
☐ For Approval ☐ For Review And Comment ☐ For Your Information
☐ As Requested ☐ Per Our Telephone Conversation n As Executed
☒ For Your Use n Approved As Submitted ☐ _____

Copies Were Sent To: ☒ None ☐ The Following:

1) _____
2) _____
3) _____
4) _____
5) _____

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☐ Federal Express/ Standard Overnight ☐ Express Mail ☐ Registered Mail
☐ Federal Express/ 2nd Day Delivery ☐ Airborne Express ☐ Priority Mail

Comments: _____

Signed: _____

{1} Original, {2} Central File { Correspondence }, {3} Project Manager

AEGIS ENVIRONMENTAL, INC.

1050 Melody Lane, Suite 160, Roseville, CA 95678 ✦ 916 • 782-2110 / 916 • 969-2110 / FAX 916 • 786-7830

September 18, 1992

Mr. Irvin Schauer
Sacramento-Yolo Mosquito and Vector Control District
1650 Silica Avenue
Sacramento, California 95815

Subject: **Stockpile Sampling**
8631 Bond Road, Elk Grove, California

Dear Mr. Schauer:

Aegis Environmental, Inc. (Aegis), is pleased to provide Sacramento-Yolo Mosquito and Vector Control District this letter documenting the results of the stockpile soil sampling on July 14, 1992, at the subject site (Figure 1). The purpose of the sampling was to document the status of the bioremediation on the stockpile.

Aegis personal collected two samples from the stockpile at the subject site. The samples were submitted for analysis to Sparger Technology, of Sacramento, California, for concentrations of:

- total petroleum hydrocarbons, as diesel, by EPA Method 8015;
- organic lead; and,
- total oil & grease by Method 5520.

The samples were collected according to Aegis' standard operating procedures in Attachment 1.

92-028B.RPT

ANALYTICAL RESULTS: SOIL

8631 BOND ROAD, ELK GROVE, CALIFORNIA
JULY 14, 1992
(All results in parts-per-million)

Soil Pile	Total Petroleum Hydrocarbons, as Diesel #2	Total Oil & Grease	Organic Lead
	<	285	<

NOTE: < = Below detection limits per "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (August 10, 1990) Practical Quanititation Reporting Limits (PQL). (PQL for BTEX = 0.005 ppm, TPH, as gasoline and diesel = 1.0 ppm.)

The stockpiled soil will continue to be bioremediated until analysis for total oil & grease are below the detection limit of 50 ppm or until a final disposal method is found.

REMARKS/SIGNATURES

The interpretations and/or conclusions contained within this report represent our professional opinions. These opinions are based on currently available information, and were developed in accordance with currently accepted geologic, hydrogeologic, and engineering practices at this time and for this specific site. Other than this, no warranty is implied or intended.

This report has been prepared solely for the use of Sacramento-Yolo Mosquito and Vector Control District. Any reliance on this report by third parties shall be at such parties' own risk. The work described herein was performed under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

We appreciate the opportunity to provide Sacramento-Yolo Mosquito and Vector Control District with geologic, hydrogeologic, and engineering and environmental consulting services, and trust this report meets your needs. If you have any questions or concerns, please call us at (916) 782-2110.

Sincerely,

AEGIS ENVIRONMENTAL, INC.

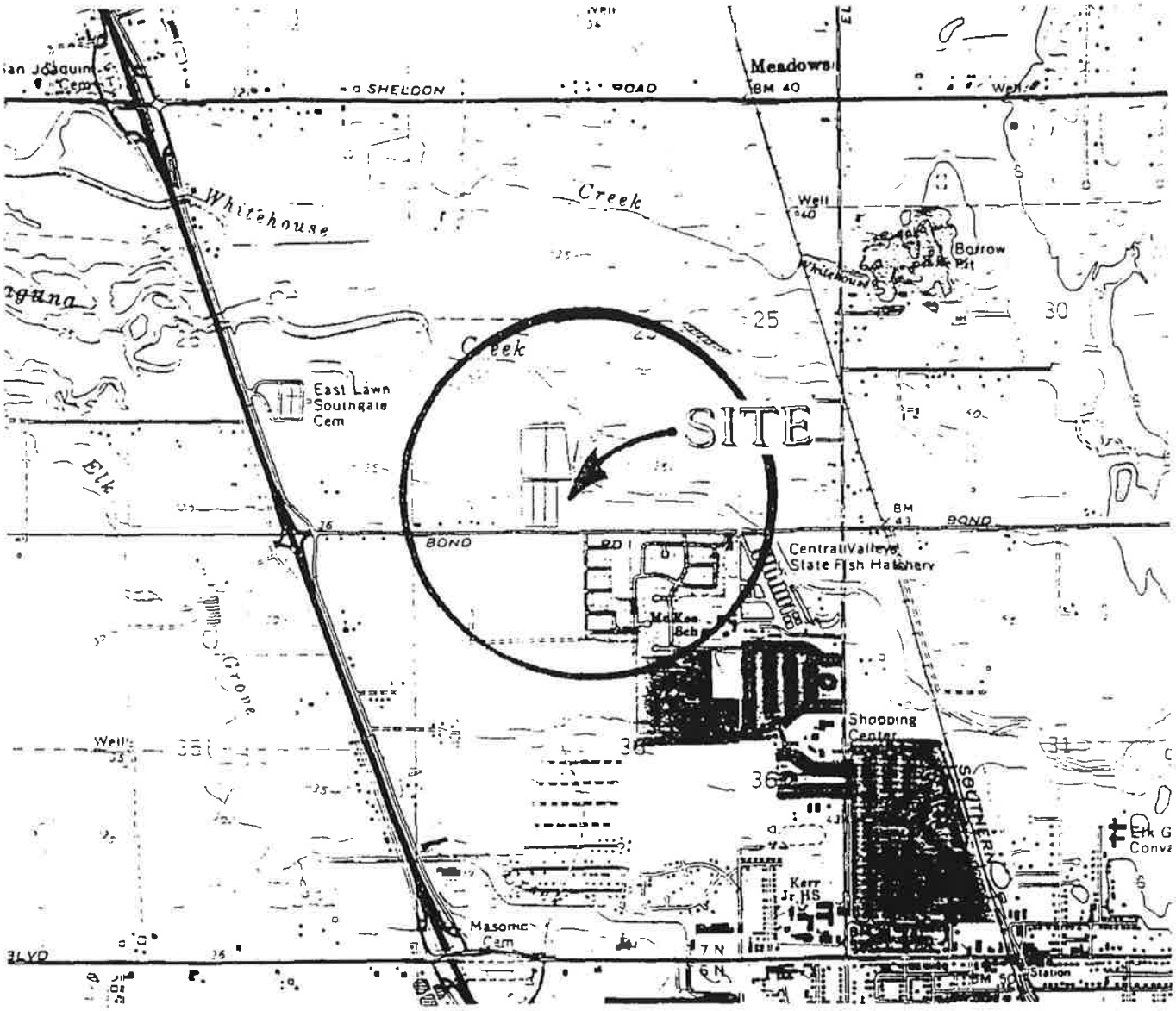
Owen M. Kittredge
Staff Geologist

Pat Wright
Registered Geologist -
CRG No. 529

OMK/PW/law

Attachments

FIGURES



GENERAL NOTES:

BASE MAP FROM USGS
7.5 MINUTE TOPOGRAPHIC
FLORIN AND ELK GROVE, CA

0 2000 4000
Approximate Scale
1" = 2000'

ENVIRONMENTAL, INC.		SITE LOCATION MAP	RGURE 1
DRAWN BY: D. Hada	DATE: April 19, 1992	Bond Road Sacramento-Yolo Mosquito and Vector Control District 8631 Bond Road Elk Grove, CA	PROJECT NUMBER 92-028
REVISED BY:	DATE:		
REVIEWED BY:	DATE: 5/15/92		

* *

ATTACHMENT 1

STANDARD OPERATING PROCEDURES

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES
SOP-4

Sample identification and chain-of-custody procedures ensure sample integrity, and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, sampling methodology, name(s) of on site personnel and any other pertinent field observations also recorded on the field excavation or boring log.

Chain-of-custody forms are used to record possession of the sample from time of collection to its arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample-control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s) and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL
SOP-5

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at methods specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

1. Participation in state and federal laboratory accreditation/certification programs;

2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;

3. Standard operating procedures describing routine and period instrument maintenance;

4. "Out-of-Control"/Corrective Action documentation procedures; and,

5. Multi-level review of raw data and client reports.

ATTACHMENT 2

LABORATORY ANALYTICAL REPORTS AND **CHAIN-OF-CUSTODY** FORMS

Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory DMsion
Mobile Laboratory DMsion
Scientific DMsion

8015 Modified Analysis Report

Attention:	Mr, Owen Kittredge Aegis Environmental 1050 Melody Lane, Suite 1 60 Roseville, CA 95678	Date Sampled: Cats Received: Data Analyzed:	Jul. 14, 1992 Jul. 15, 1992 Jul. 20. 1992
Project #:	92-028	Project Name:	8631 Bond Rd Elk Grove, CA
Client ID:	92-028-SP1 A, B	LAB ID:	ST92-07-428A
Matrix:	Sci!	Dilution:	

Name	Amount	Detection Limit	Units
TPHdiesel	ND	1.0	ug/g

ppb - parts per billion = ug/kg = micrograms per kilogram
ppm - parts Mr million = ug/g = micrograms per gram
NO!= Not Detected. Compound(s) may be present at concentrations below the detection limit

R. J. James, Principal Chemist

7-20-92
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED ev THE STATE OP CALIFORNIA
fIEA*fITMJNr OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8015 Modified Laboratory Control Spike (LCS)
TPH-diesel Analysis Report

Attention:	Mr. Owen Kittredge Aegis Environmental 1C50 Melody Lane, Suite 160 Roseville, CA 95678	Date Sampled: Date Received: Date Analyzed:	Jul. 14, 1992 Jul. 15, 1992 Jul. 20, 1992
Project #:	92-028	Project Name:	8631 Bond Rd Elk Grove, CA
Client ID:	LCS	LAB ID:	ST92-07-20LCS
Matrix:	Soil	Dilution;	

Name	Conc. Spike Added	Sample Result	Conc. LCS	Units	LCS % Recovery
TPHdieael	5000	ND	5064	ug/g	101%

ppb - parts per billion - ug/kg - microgrems per kilogram
ppm = parts per million - ug/g = microgrems per gram
ND - Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

7-20-92
Date Reported

Sparger Technology Inc.
With Automation In Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

5520 Modified Analysis Report

Attention:	Mr. Owen Kittredge Aegis Environmental 1050 Melody Lane, Suite 1 60 Roseville, CA 95827	Date Sampled: Date Received: Date Analyzed:	Jul. 14, 1992 Jul. 15, 1992 Jul. 20, 1992
Project #:	92-028	Project Name:	8631 Bond Rd Elk Grove, CA
Client ID:	92-028-SP1 A,B	LAS ID:	ST92-07-429A
Matrix:	Soil	Dilution:	

Name	Amount	Detection Limit	Units
Oil & Grease	285	50	ug/g

ppb = parts per billion = ug/kg = microgram per kilogram
ppm = parts per million = ug/g = microgram per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

2-20-92
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

Sparger Technology Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Organic Lead DOHS LUFT Analysis Report

Attention:	Mr. Owen Kittredge Aegis Environmental 1050 Melody Lane, Suite 160 Roseville, CA 85673	Data Sampled; Data Received; Date Analyzed:	Jul. 14, 1992 Jul. 15, 1992 Jul. 20, 1992
Project #:	92-028	Project Name:	8631 Bond Rd Elk Grove, CA
Client ID:	92-028-SP1 A, B	LAB ID:	ST92-07-430A
Matrix:	Soil	Dilution:	

Name	Amount	Reporting Limit	Units
Organic Lead	ND	0.50	ug/g

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.

R. L. James, Principal Chemist

7-20-92
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

F4

Ph (9|) 782 2 10
FAX (916) 786-7 30

AEGIS Environmental Consultaots, Inc.

Sample Identification/Field Chain of Custody Record

1388

Send results to:
Aegis Environm
1050 Melody Lane, Suit
Roseville, CA

Site Address: 8631 Bond Rd., Elk Grove, CA
AEGIS Project #: 92-028
Shipped By: Sparger Tech
Shipped To: Sparger Tech
Project Manager: Owen Kittredge

For Shell Projects Only
WIC:
AFE:
CT/DL:
Shell Engineer:
Hazardous Materials Suspected? (yes/n

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analy Required
Soil Pile		92-028-SP1-A,B	7-14-92	Soil	2	TPH-D, oil & Grease, an organic 4

Sampler(s) (signature) John Giorgi

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time		Comments
	John Giorgi				

Sealed ⊆ shipme by: (signature) ______ 5■ ne: ______ Shipment Method: ______
Received for Lab (signature) ______ a le/Ti ne: ______ Comments: C 1posik 7 contain

1/1/0 me 5 day standard TAT

Receiving Laboratory: Please return original form after signing for receipt of samples.
White/Original Yellow/Lab Copy Pink/File Copy

SACRAMENTO-YOLO
MOSQUITO
& VECTOR
CONTROL
DISTRICT

1650
Silica Avenue
Sacramento,
California
95815
Telephone
916.922.6526
Fax
916.924.1071

10-02-1992

Delyn Ellison-Lloyd. R.E.H.S.
Hazardous Materials Specialist II
Environmental Management Department
Hazardous Materials Division
8475 Jackson Road, Suite 230
Sacramento, Ca. 95826

Subject: Stockpile Sampling at Bond Road and letter dated 9-28-92

Dear Delyn,

I am writing this letter to clarify my letter dated 9-28-92 and our intent to use our stockpile of contaminated soil as roadbase at our Bond Road facility.

The contaminated soil was generated from heavy equipment being parked on it and having the engines leak small amounts of oil and grease. The total amount of contaminated soil does not exceed two (2) yards.

We intend to use the soil as roadbase on our facility. The new road will be approximately 50 feet south of our existing shop and 120 feet west of the centerline of the existing driveway. We will cap the roadbase with asphault to make it impervious to rainfall. The roadbase will be approximately 100 feet above the existing ground water level, according to a Department of Water Resources, Central District report.

If there are any questions regarding this matter, please contact me at 922-6526 and I will be happy to respond.

Sincerely,

David Brown
Administrative Assistant

COUNTY OF SACRAMENTO

ENVIRONMENTAL MANAGEMENT DEPARTMENT

NORMAN D. COVELL, DIRECTOR

HAZARDOUS MATERIALS DIVISION
Mel Knight, Chief

October 27, 1992

David Brown
Administrative Assistant
Sacramento-Yolo Mosquito and Vector Control District
1650 Silica Ave.
Sacramento, CA 95815

SUBJECT: DISPOSITION OF THE HYDROCARBON CONTAMINATED SOIL AT 8631 BOND ROAD, ELK GROVE, CA.

Dear Mr. Brown,

This office has reviewed and concurs with your request to incorporate approximately two (2) yards of the petroleum hydrocarbon contaminated soil into roadbase to be used at the Elk Grove facility at 8631 Bond Road. Acceptance of this proposal is based on the following conditions:

1. This contaminated soil generated as a result of the on-site remedial activities associated with the equipment storage barn at the Bond Road facility will be the only contaminated soil used as roadbase at this location under this agreement.

2. The analytical data in our file, to date, indicates the organic lead level of the soil to be below the detection limits of .5 ppm. Although, 285 ppm of oil and grease remain in the soil. These set of analyses serve as justification for our consent. However, it is the understanding of this office that the soil will continue to undergo bioremediation on site, following the previously specified parameters, until needed in late summer of 1993. No further laboratory quantification is necessary.

3. The approximated depth to regional groundwater in the area is 100 feet below ground surface.

4. The soil will be utilized as roadbase and covered with asphalt rendering the contamination impervious to rainfall infiltration.

If you have any further questions or comments regarding this matter, please notify me at (916) 386-6689.

Sincerely,

Delyn Ellison-Lloyd

Delyn Ellison-Lloyd
Hazardous Material Specialist

DEL:kw

MEDICAL WASTE MANAGEMENT PLAN

#168

Environmental Management Department
Environmental Health Division
8475 Jackson Road, Suite 240
Sacramento, CA 95826

BUSINESS NAME: Sacramento/Yolo Mosquito and Vector Control Dist. (MVCD)

BUSINESS ADDRESS: 8631 Bond Rd., Elk Grove, CA 95624

BUSINESS PHONE: (916) 685-1022 TYPE OF FACILITY: Vector Control

NAME OF AUTHORIZED REPRESENTATIVE: David Brown, Manager

SECTION I. TYPES OF MEDICAL WASTE GENERATED (Check all that apply):

☐ Laboratory wastes - specimen or microbiological cultures, stocks of infectious agents, live and attenuated vaccines and culture mediums.

☒ Blood or body fluids - liquid blood elements or other regulated body fluids or articles contaminated with blood or body fluids.

☒ Sharps - syringes, needles, blades, broken glass.

☐ Contaminated animals - animal carcasses, body parts, bedding materials.

☐ Surgical specimens - human or animal parts or tissues removed surgically or by autopsy.

☐ Isolated waste - waste contaminated with excretion, exudate or secretions from humans or animals who are isolated due to highly communicable diseases (Centers for Disease Control, Biosafety Level 4*).

* Biosafety Level 4 viruses and diseases are: Congo-Crimean hemorrhagic fever, tick-borne encephalitis virus complex (Absettarov, Hanzalova, Hypr, Kumlinge, Kyasanur Forest Disease, Omsk Hemorrhagic Fever, and Russian Spring-Summer Encephalitis), Marburg Disease, Ebola, Junin Virus, Lassa Fever Virus, Machump Virus.

SECTION II.

1. This facility is classified as a:

   ☒ Small Quantity Generator (less than 200 pounds per month)
   ☐ Small Quantity Generator with Onsite Treatment of Medical Waste
   ☐ Large Quantity Generator (more than 200 pounds per month)
   ☐ Large Quantity Generator with Onsite Treatment of Medical Waste
   ☐ Limited Quantity Hauling Exemption

2. The estimated quantity of medical waste generated (including Sharps waste) by this facility on a monthly basis is 5 pounds.

MEDICAL WASTE MANAGEMENT PLAN

3. Describe the method of handling, containment, collection, and storage of medical waste within your facility.

Used sharps shall be placed in a certified sharps collection container in the field, consolidated at our facility on Bond Rd., then transported to the CA Dept. of Health Services for storage. (See attached note).

4. Describe the use of any disinfection procedures used in your facility for treatment or cleaning of reusable medical waste receptacles and medical waste spills.

Waste spills shall be cleaned with Lysol.

5. If your facility employs a method of onsite treatment (i.e., autoclave, incineration, steam sterilization) for medical waste, enclose the operating procedures for the equipment with this form.

6. Name of registered hazardous waste hauler contracted by your facility:

NAME: BFI Medical Waste Systems, Inc.

ADDRESS: contracted by the CA Dept. of Health Services (see attached note)

CITY/STATE/ZIP: _____

PHONE: _____

SECTION III. LIMITED QUANTITY HAULING EXEMPTION

If you have a Limited Quantity Hauling Exemption, please list members of your staff authorized to transport the medical waste.

1. _____ 4. _____

2. _____ 5. _____

3. _____ 6. _____

If you have Limited Quantity Hauling Exemption, note the name and address of the storage facility:

NAME: _____

ADDRESS: _____

CITY/STATE/ZIP: _____

PHONE: _____

MEDICAL WASTE MANAGEMENT PLAN

SECTION IV. EMERGENCY DISPOSAL

In case of emergency, such as equipment breakdown on the part of the registered hauler or natural disaster, medical waste will be: (check one)

☒ Stored for up to seven days on the premises. Sufficient storage space is available in

CA Dept. of Health Services, 8455 Jackson Rd., Suite 120 (see attached note).

☐ The following alternate registered biohazardous waste hauler will be utilized:

NAME: _____

ADDRESS: _____

CITY/STATE/ZIP: _____

PHONE: _____

In the event of an emergency or natural disaster, contact the Sacramento Environmental Health Division at 916 - 386-7682 to notify the Division of any changes or to obtain further instruction.

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE STATEMENTS MADE HEREIN ARE TRUE AND CORRECT.

David Brown
Signature

DAVID BROWN
Print Name

4/11/97
Date

Limited Quantity Hauling Exemption Statement of Need

The Sacramento/Yolo Co. Mosquito and Vector Control District is located at 8631 Bond Road, Elk Grove, CA. We operate in Sacramento and Yolo Counties. As part of our mosquito-borne encephalitis virus surveillance program, we maintain sentinel chicken flocks in which blood samples are taken every other week from April through October and we have a wild bird bleeding program in Sacramento County that runs from March through October. We generate less than 4 lbs. of medical waste per week. The Limited Quantity Hauling Exemption is needed so our staff can transport the medical waste generated back to our laboratory in Elk Grove for consolidation. The consolidated waste will then be transported to the California Department of Health Services, 8455 Jackson Road, Suite 120 in Sacramento, CA for storage. The California Department of Health Services has a contract with BFI Medical Waste Systems, Inc., 11875 White Rock Rd., Rancho Cordova, CA to transport and treat the medical waste.

Employees authorized to transport medical waste.

5. David McClain
6. Marti Herrerra
7. Kim Knerl
8. Jill Townzen

EXEMPTION FOR YEAR 1997

COUNTY OF SACRAMENTO

Environmental Management Department

8475 Jackson Road, Suite 240, Sacramento, CA 95826

1168 130695 4/23/97 $180.00

LIMITED QUANTITY HAULING EXEMPTION:

Pursuant to Division 104, Part 14, Section 11803 of the Health and Safety Code, Medical Waste Management Act, the following person(s) are authorized to transport regulated medical waste from the point of generation to a point of storage or treatment under the following conditions:

1. Your office generates less than 20 pounds of regulated medical waste per week.
2. Your office transports less than 20 pounds of medical waste at any one time.
3. Your office maintains on file a record of the following: all medical waste transported off-site for treatment and disposal including number and type of packages, approximate gross weight, date transported, and name of person hauling the waste and final destination.

Please complete the information below and mail this copy to:
(The application fee of $180.00 will be billed by this office to the medical waste generator listed below.)
(Please note the processing fee is an annual fee and is non refundable)

County of Sacramento
Environmental Management Department
Environmental Health Division
8475 Jackson Road, Suite 240
Sacramento, CA 95826

Generator's Name: Sacramento/Yolo MVCD

Generator's Address: 8631 Bond Rd., Elk Grove, CA 95624

Generator's Telephone: (916) 685-1022

Storage Facility Name: CA Dept. of Health Services

Storage Facility Address: 8455 Jackson Rd., Suite 120
Sacramento, CA 95826

Medical Waste Transporter or Treatment Facility Name: BFI Medical Waste Systems, Inc.

Medical Waste Transporter or Treatment Facility Address: 11875 White Rock Rd.
Rancho Cordova, CA

Name of employees who transport medical waste:

1. Ken Boyce
2. Stan Wright
3. Glenn Yoshimura
4. Roger Shimer

Attach list of additional names

An approved copy of this exemption and a tracking document containing the information in item 3 above shall be in the employees possession at all times while transporting medical waste.

Dail Braun
Signature of Generator

Date: April 11, 1997

David King R.E.H.S
Environmental Management Department Approval

Expiration Date: 05-09-98

W:\DATA\FORMS\EHD\HAULING.EXM WHITE - FILE YELLOW-GENERATOR (3/97)

RECEIPT NO. 130695

SACRAMENTO COUNTY
ENVIRONMENTAL MANAGEMENT DEPARTMENT

RECEIVED FROM SACRAMENTO/YOLO MVRL

ACCT. NO. _____ CHECK NO. 21220 LOCATION 8631 BOND RD

RE: MED WASTE

04-23-97 #0

#130695
INFECT WASTE
180.00
#21220
CHECK 180.00
TOTAL 180.00
1CL 5616 07:08TH

BY K Constance

ENVIRONMENTAL HEALTH DIVISION 386-7682
HAZARDOUS MATERIALS DIVISION 386-7681

WELL APPLICATION and PERMIT FORM

ENVIRONMENTAL MANAGEMENT DEPARTMENT
8475 JACKSON ROAD, SUITE 230/240
SACRAMENTO, CA 95826

WP0032087

FOR OFFICE USE ONLY

☐ DISAPPROVED ☑ APPROVED
☐ APPROVED WITH CONDITIONS (See attachment)

Date Received: 4/21/97 Permit Number: 993981
Date Issued: 4/21/97 Census Tract:
By: Jane King Date: 4/21/97 Total Fee: $ 28.00 Receipt Number: 130614
Grout inspection By: Date: / / Deferred By: Site Number
Actual Well Depth: Actual Grout Depth: Final Inspection By: Date: / /
Depth to first Water: Well Destruction Inspection By: Date: / /
Reinspection By: Date(s): Fee @ Prevaling Rate: $

COMMENTS:

APPLICATION FOR A PERMIT TO PERFORM WORK AT THE LOCATION AS INDICATED BELOW:

Inspecting Division: ☒ ENVIRONMENTAL HEALTH ☐ HAZARDOUS MATERIALS

Site Address: 8631 BOND ROAD City: ELK GROVE Zip: 95624
Nearest Major Cross Street: ELK GROVE FLORIN TO THE NORTH Parcel Number:
Property Owner: MOSQUITO & VECTOR CONTROL Phone Number: 685-1022
Owner's Address: SAME City: Zip:
Well Contractor: R-A. Nix WELL DRILLING License Number: 376587 Type:
Contractor Address: 9601 COSUMNES RD Expiration Date: 6-1997
City: WILTON Zip: 95693 Phone: 687-7624 Well/Boring Identification Number:

WORK TO BE PERFORMED:

☐ Construct Well, (C-57 Lic. Req.) ☐ Install New Pump, (C-57, C-61 or Class A) ☐ Test Hole With Destruction (C-57 Lic. Req.)
☐ Deepen Well, (C-57 Lic. Req.) ☒ Repair/Replace Pump, (C-57, C-61 or Class A) ☐ Inactivation Permit , Owner Only
☐ Repair Well, (C-57 Lic. Req.) ☐ Destroy Well (C-57 Lic. Required) ☐ Other (state)
Comments:

DISTANCE TO NEAREST: Leach Field: Leach Pit: 150'+ Septic Tank: Sewer Line:
Stream, ditch, Drainage Canal: 50 100 year flood plain:

INTENDED USE:
☐ Domestic/Private
☐ Public Water System
☒ Irrigation
☐ Cathodic Protection
☐ Monitoring
☐ Extraction/Recovery
☐ Other (state)

DRILLING METHOD:
☐ Auger
☐ Cable Tool
☐ Driven
☐ Rotary
☐ Other (state)

CONSTRUCTION SPECIFICATIONS
BOREHOLE: Diameter: Depth: Gravel Pack: ☐ Yes ☐ No
CASING: Diameter: Depth:
If Steel, Gauge: or Thickness:
If Plastic, Type: (MUST MEET ASTM F-480)
If Conductor, Diameter: Depth:
GROUT: Depth: Sealing Material:
TRANSITION SEAL: Material: Interval:
Comments:

PUMP INSTALLATION/REPAIR: Contractor: R-A. Nix WELL DRILLING License Number: 376587
Type of Pump: SUBMERSIBLE Horse Power: 15 License Type: C-57 Expiration Date:
WELL/TEST HOLE DESTRUCTION: Diameter: Total Depth: Depth to Water:

I will comply with all Codes, Rules and Regulations of the State and County pertaining to or regulating well construction, call for a grout/destruction inspection **at least 48 hours prior to placement of sealing material**, notify the Department within 5 days of the completion of my work so a final inspection can be made and obtain final approval before placing the well in service.

Signature: ☐ Property Owner ☒ Well Contractor
Print Name: ROBERT A. NIX ☐ Agent for Property Owner* ☐ Agent for Well Contractor*
Company: R.A. NIX WELL DRILLING Phone: 687-7624 *Authorization Verified By:
Mailing Address: P.O. BOX 495 City, State, Zip: WILTON CA. 95693

A SITE PLAN MUST BE SUBMITTED WITH EACH APPLICATION
PERMIT EXPIRES ONE (1) YEAR FROM DATE ISSUED

ENVIRONMENTAL HEALTH PLOT PLAN SHEET
FOR WATER WELL & SEWAGE DISPOSAL SYSTEM PERMITS

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
(916) 386-7682

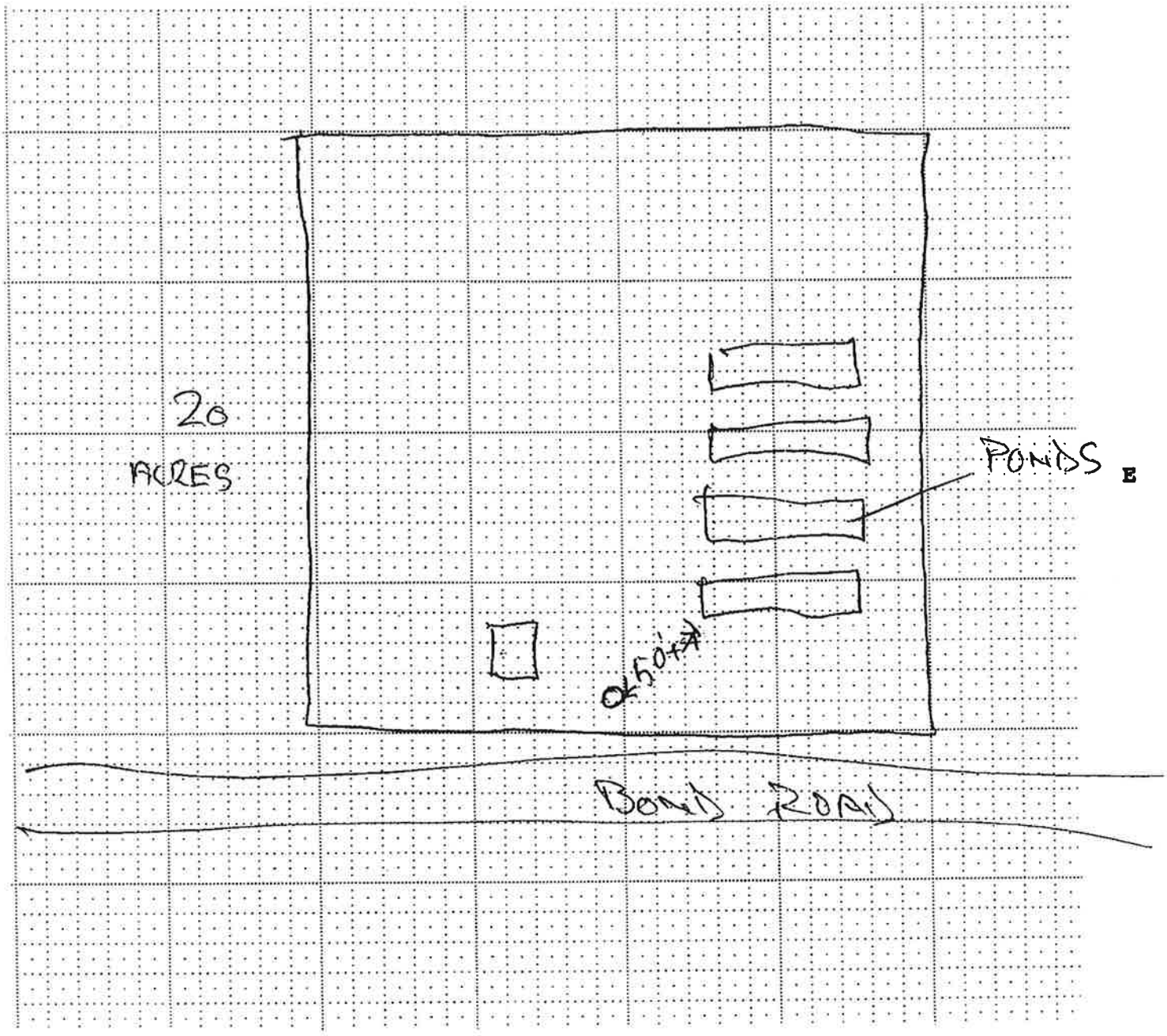
ENVIRONMENTAL HEALTH DIVISION
8475 JACKSON ROAD, SUITE 240
SACRAMENTO, CA. 95826

****

STREET ADDRESS 8631 BOND ROAD DATE 4-21-1997
OR PARCEL NUMBER _____ AND STREET NAME _____
CENSUS TRACT 93 CONTRACTOR Nix PERMIT # 993981

SHOW PARCEL DIMENSIONS, STREETS, STRUCTURES, CONTOURS, LOCATION OF WELLS AND SEPTIC SYSTEMS (SHOW LAYOUT OF SEPTIC SYSTEM). SHOW DISTANCE (IN FEET) FROM SEPTIC AND/OR WELL TO: WATER COURSES, SEPTIC TANKS, LEACHING AREAS, PROPERTY LINE, SEWER LINE AND WATER WELLS (ALSO WELLS ON ADJACENT PROPERTY). PLOT PLAN MUST BE ACCURATE, TO ALLOW SYSTEM TO BE LOCATED AT A FUTURE DATE.

WILL SYSTEM OR WELL BE INSTALLED IN 100 YEAR FLOOD PLAIN? YES ☐ NO ☒



ENVIRONMENTAL HEALTH DIVISION 386-7682
HAZARDOUS MATERIALS DIVISION 386-7681

WELL APPLICATION and PERMIT FORM

WP0032087

ENVIRONMENTAL MANAGEMENT DEPARTMENT
8475 JACKSON ROAD, SUITE 230/240
SACRAMENTO, CA 95826

FOR OFFICE USE ONLY

☐ DISAPPROVED ☑ APPROVED
☐ APPROVED WITH CONDITIONS (See attachment)

Date Received: 4/21/97 Permit Number: 993981
Date Issued: 4/21/97 Census Tract:
By: Jane King Date: 4/21/97 Total Fee: $ 28.00 Receipt Number: 130614
Grout inspection By: Date: / / Deferred By: Site Number
Actual Well Depth: Actual Grout Depth: Final Inspection By: Date: / /
Depth to first Water: Well Destruction Inspection By: Date: / /
Reinspection By: Date(s): Fee @ Prevaling Rate: $

COMMENTS:

APPLICATION FOR A PERMIT TO PERFORM WORK AT THE LOCATION AS INDICATED BELOW:

Inspecting Division: ☒ ENVIRONMENTAL HEALTH ☐ HAZARDOUS MATERIALS

Site Address: 8631 BOND ROAD City: ELK GROVE Zip: 95624
Nearest Major Cross Street: ELK GROVE FLORIN TO THE NORTH Parcel Number:
Property Owner: MOSQUITO & VECTOR CONTROL Phone Number: 685-1022
Owner's Address: SAME City: Zip:
Well Contractor: R-A Nix WELL DRILLING License Number: 376587 Type:
Contractor Address: 9601 COLUMBUS RD Expiration Date: 6-1997
City: WILTON Zip: 95693 Phone: 687-7624 Well/Boring Identification Number:

WORK TO BE PERFORMED:

☐ Construct Well, (C-57 Lic. Req.) ☐ Install New Pump, (C-57, C-61 or Class A) ☐ Test Hole With Destruction (C-57 Lic. Req.)
☐ Deepen Well, (C-57 Lic. Req.) ☒ Repair/Replace Pump, (C-57, C-61 or Class A) ☐ Inactivation Permit , Owner Only
☐ Repair Well, (C-57 Lic. Req.) ☐ Destroy Well (C-57 Lic. Required) ☐ Other (state)
Comments:

DISTANCE TO NEAREST: Leach Field: Leach Pit: 150'+ Septic Tank: Sewer Line:
Stream, ditch, Drainage Canal: 50 100 year flood plain:

INTENDED USE:
☐ Domestic/Private
☐ Public Water System
☒ Irrigation
☐ Cathodic Protection
☐ Monitoring
☐ Extraction/Recovery
☐ Other (state)

DRILLING METHOD:
☐ Auger
☐ Cable Tool
☐ Driven
☐ Rotary
☐ Other (state)

CONSTRUCTION SPECIFICATIONS
BOREHOLE: Diameter: Depth: Gravel Pack: ☐ Yes ☐ No
CASING: Diameter: Depth:
If Steel, Gauge: or Thickness:
If Plastic, Type: (MUST MEET ASTM F-480)
If Conductor, Diameter: Depth:
GROUT: Depth: Sealing Material:
TRANSITION SEAL: Material: Interval:
Comments:

PUMP INSTALLATION/REPAIR: Contractor: R-A Nix WELL DRILLING License Number: 376587
Type of Pump: SUBMERSIBLE Horse Power: 15 License Type: C-57 Expiration Date:

WELL/TEST HOLE DESTRUCTION: Diameter: Total Depth: Depth to Water:

I will comply with all Codes, Rules and Regulations of the State and County pertaining to or regulating well construction, call for a grout/destruction inspection **at least 48 hours prior to placement of sealing material**, notify the Department within 5 days of the completion of my work so a final inspection can be made and obtain final approval before placing the well in service.

Signature: ☐ Property Owner ☒ Well Contractor
Print Name: ROBERT A. NIX ☐ Agent for Property Owner* ☐ Agent for Well Contractor*
Company: R.A. NIX WELL DRILLING Phone: 687-7624 *Authorization Verified By:
Mailing Address: P.O. BOX 495 City, State, Zip: WILTON CA. 95693

A SITE PLAN MUST BE SUBMITTED WITH EACH APPLICATION
PERMIT EXPIRES ONE (1) YEAR FROM DATE ISSUED

ENVIRONMENTAL HEALTH PLOT PLAN SHEET
FOR WATER WELL & SEWAGE DISPOSAL SYSTEM PERMITS

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
(916) 386-7682

ENVIRONMENTAL HEALTH DIVISION
8475 JACKSON ROAD, SUITE 240
SACRAMENTO, CA. 95826

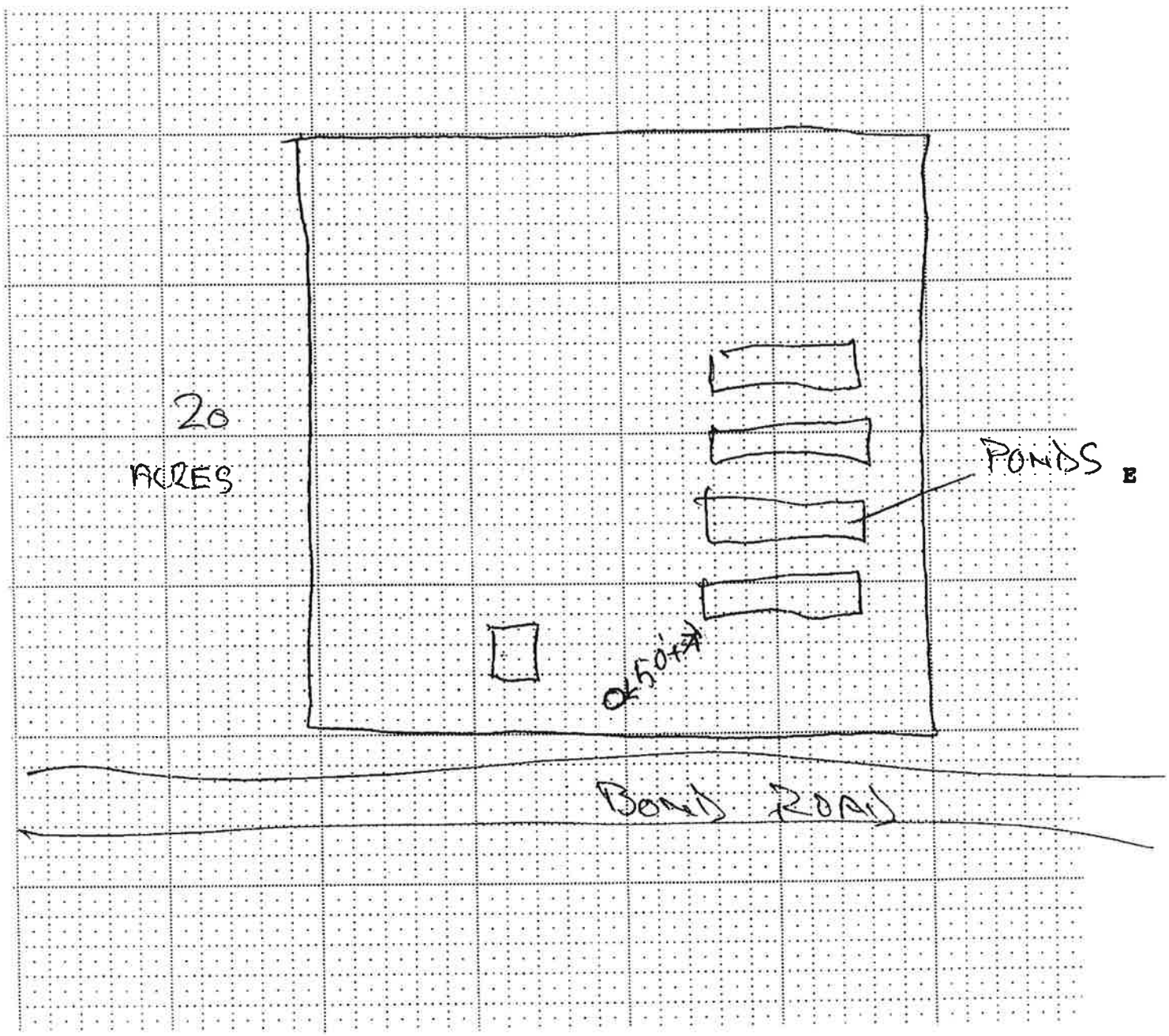
****

STREET ADDRESS 8631 BOND ROAD DATE 4-21-1997
OR PARCEL NUMBER AND STREET NAME
CENSUS TRACT 93 CONTRACTOR Nix PERMIT # 993981

SHOW PARCEL DIMENSIONS, STREETS, STRUCTURES, CONTOURS, LOCATION OF WELLS AND SEPTIC SYSTEMS (SHOW LAYOUT OF SEPTIC SYSTEM). SHOW DISTANCE (IN FEET) FROM SEPTIC AND/OR WELL TO: WATER COURSES, SEPTIC TANKS, LEACHING AREAS, PROPERTY LINE, SEWER LINE AND WATER WELLS (ALSO WELLS ON ADJACENT PROPERTY). PLOT PLAN MUST BE ACCURATE, TO ALLOW SYSTEM TO BE LOCATED AT A FUTURE DATE.

WILL SYSTEM OR WELL BE INSTALLED IN 100 YEAR FLOOD PLAIN? YES ☐ NO ☒

N



S

FORM # EH-S/H2 White Copy - EHD Yellow Copy - Contractor/Owner

<u>FILE LOG</u>

Firm name: SDC. Yolo. MVCD Address:
Telephone: ( )

Date /	Comments
4-23-97	Rec'd application for LQHE, + MW Plan
4-23-97	PAID FEE.
5-9-97	Rcvd LQHE, Plan - Mailed Back copy. JH

5306 WG | 5206 BP | Ø UST | ___ CR/DSCNT | 6 FD | ___ BC | 10 D# | Ann. month _____ | Emp ID# _____

HAZARDOUS MATERIALS FACILITY CLASSIFICATION FORM

THIS IS NOT A BILL

1. Facility Name and Site Address

Sacramento - Yolo Mosquito & Vector Control District
8631 Bond Rd.
Elk Grove, CA 95624

2. Billing Address (if different)

3. Type of Facility: _____ 4. SIC# : _____ 5. Site Phone #: 685-1022

6. Contact Person: James Clausen 7. Title: _____ ext. 530

8. Facility Owner Name and address: Sacramento - Yolo Mosquito & Vector Control District

_____ 9. Owner Phone #: _____ 10. Business Plan Packet mailed date _____

CHECK THE APPROPRIATE CODES LISTED BELOW:

		P/E	FEE
11. Hazardous Materials Disclosure Program			
[ ] All hazardous materials in reportable quantities are wastes only.		( ) 5214	
[ ] Registration of a business with consumer packaged products only (no permit required)		( ) 5207	$92
[ ] Low risk hazardous materials only storage of sand, concrete, cement, gaseous carbon dioxide, argon, helium xenon, krypton, nitrogen or propane for forklift, cooking, or heating. (first year)		( ) 5201	$123
[ ] 1 to 3 chemical compounds	1) Motor oils - 15W40 2x55g	( ) 5203	$308
[ ] 4 to 6 chemical compounds	2) Hydraulic Transm. 3x20g	( ) 5204	$431
[ ] 7 to 9 chemical compounds		( ) 5205	$554
[ ] 10 or more chemical compounds	Argon/CO2 mix 1x 35 cu ft (low risk)	(✓) 5206	$830
12. Underground Tank Program			
[ ] 1 to 5 double-walled tank(s)	Argon 1x 336 cu ft (low risk)	( ) 5402	$246
[ ] 6 + double-walled tanks	3) Oxygen 1x 280 cu ft	( ) 5403	$492
[ ] 1 to 5 single-walled tank(s)		( ) 5404	$492
[ ] 6 + single-walled tanks	4) Acetylene (338, 121) 1x 459 cu ft	( ) 5405	$615
13. Hazardous Waste Generator Program	~~Factor~~ 5) C.I 1x 8000 gal (UST)		
[ ] Photographic Waste - Self-regulation Program (first year)	6) Diesel 1x 1,000 gal (AST)	( ) 5301	$123
[ ] <55 gal. liquid/or 500 lbs. Solid.	7) Gas 1x 1,000 gal (AST)	( ) 5304	$123
[ ] 55 to 200 gal. liquid/500 lbs to 2 tons solid.		( ) 5305	$308
[✓] 200 to 1,200 gal liquid/2 tons to 5 tons solid.	8) Weed pellets 1x 50 lbs	(✓) 5306	$461
[ ] 1,200 to 12,000 gal. liquid/5 tons to 50 tons solid.	9) Sewage 2x55, 1x 30gal	( ) 5307	$584
[ ] 12,000 gal. liquid/More than 50 tons solid.		( ) 5308	$707
[ ] Exempt or excluded as defined by Chapter 6.5, Div 20, Section 25143.2 of CH&SC (all waste recycled or reused on site).	10) Pyrocide 110 gal	( ) 5314	$123
[ ] Oil changed by outside company.	11) Dr. Flush 12 x 5gal	( ) 5316	
[ ] <10 gal per year.	12) Clear 911 1x 55gal	( ) 5317	
14 Discount/Credit	13) Zep 940 E 1x 55gal		
[ ] Landscape discount 40%	Waste oil 750-1000gal/year	( ) 6031	
[ ] Waste oil credit <$40>	used coolant 110 gal/yr	( ) 6040	
15. Certified Unified Program Agency Service Fee			

[ ] This is an estimate of your fiscal year 97/98 fees. Additional fees will accrue if you treat hazardous waste on site. Additionally, our office collects the CUPA service charge for transmittal to the State of California. $ 1291

Any person or business who knowingly makes any false statement or representation in any record, or document filed, maintained or used for the purpose of compliance with this article, shall, upon conviction, be punished by a fine of not more than $25,000 for each day of violation (Section 25541, California Health & Safety Code).

I certify that the above information is complete and correct to the best of my knowledge. _____ Signature of Declarer

Info Source: [ ] Inspection [✓] Site Survey [ ] Drive By [ ] Phone Interview [ ] Self Declaration [ ] Other _____ _____ Date

Surveyor R. Robertz 5/11/99 Date | Data Processing Sign Off _____ Date | Accounting Sign Off _____ Date

WHITE-HMD YELLOW-SPECIALIST PINK-STATISTICS

100698to print W:\DATA\FORMS\HMD\CLASSIFI.98A

COUNTY OF SACRAMENTO
Environmental Management Department
Mel Knight, Director

Bonnie Coleman, Manager
Administrative Services
Raymond E. Hackett, Manager
Environmental Health
Jeanette M. Slewierski, Manager
Hazardous Materials

July 12, 1999

James Clawson
Sacramento-Yolo Mosquito & Vector Control District
8631 Bond Road
Elk Grove, CA 95624

Subject: Notice to submit the Contingency Plan for Hazardous Waste Generation

Dear Mr. Clawson:

This Division acknowledges the Vector Control District's classification as a special district and exemption from the Hazardous Materials Release Plans and Inventory Act. This exemption, however, does not extend to the Contingency Plan/Emergency Response requirement for hazardous waste generators. This Division also collects annual fees and regularly inspects hazardous waste generators. Our records indicate that waste oil, solvent and antifreeze are generated onsite.

Enclosed you will find a green Contingency packet that must be completed and submitted to this Division by 8/12/99. Submit the original and keep a copy onsite. If you have questions regarding this notice, you may contact me at (916) 875-8476.

Sincerely,

Ralph Roberts

Ralph Roberts
Hazardous Materials Specialist

CC:
Steve Kalvelage, Supervising Hazardous Materials Specialist

Enclosure

County of Sacramento Environmental Management Department

HEREBY GRANTS A CONSOLIDATED HAZARDOUS MATERIALS PERMIT TO:

FACILITY NAME: Sacramento/Yolo Mosquito & Vector Control District
FACILITY ADDRESS: 8631 Bond Road, Elk Grove, CA 95624
BUSINESS OWNER: Sacramento/Yolo Mosquito & Vector Control District

This Permit is applicable to the program(s) checked below:

- [X] Use and/or Storage of Hazardous Materials
- [X] Hazardous Waste Generator
- [ ] Underground Storage Tank(s) EMD Permit #:

This Permit:

- is subject to the attached conditions
- is not transferable
- must be posted on the premises

PERMIT DATE: August 1, 1999

Envision Facility ID#: 007014

Ralph Roberts
Hazardous Materials Specialist

Mel Knight, Director

Date run : 8/16/1999 1:51:36PM
Run by : KINGF

COUNTY OF SACRAMENTO
Facility Information as of 8/16/1999

Report # : APPL
Page # : 1

Record Selection Criteria: Facility ID FA0007014

Make changes/corrections in RED ink or pencil.
INFORMATION CHANGE (date) : _____
OWNERSHIP CHANGE (date) : _____

OWNER FILE INFORMATION

Owner ID: OW0006238
Owner Name: SACRAMENTO/YOLO MVCD
Owner DBA:
Owner Address: 8631 BOND RD
ELK GROVE, CA 95624
Home Phone: Not Specified
Work/Bussness Phone: 916-685-1022

Mailing Address: 8631 BOND RD
ELK GROVE, CA 95624
Care of:
CDL#

New Owner ID : _____

Remove from Billing
out of BUSINESS
per letter from State
Exempting

REVERSE THIS YEARS
fee

FACILITY FILE INFORMATION

Facility ID: FA0007014
Facility Name: SACRAMENTO/YOLO MVCD
Location: 8631 BOND RD
ELK GROVE, CA 95624
Phone: 916-685-1022

Mailing Address: 8631 BOND RD
ELK GROVE, CA 95624
Care of
Census Trac :93.00

SIC Code : _____

APN: _____

ACCOUNTS RECEIVABLE FILE INFORMATION

Account ID: AR0007025
Mail Invoices to: Owner
Account Name: SACRAMENTO/YOLO MVCD
Account Balance as of 8/16/1999: $665.00

New Account ID: _____
Mail Invoices to: Owner / Facility / Account
(Circle One)

Program/Element and Description	Record ID	Desig. Empl.	Contact	Status	Transfer to New Owner?
4512 - LIMITED QUANTITY HAULING EXEMPT	PR0008831	EE0001043		01	Y N
5306 - HAZARDOUS WASTE GENERATOR FEE 200-1200 GALLON	PR0027123	EE0001043		01	Y N
6001 - STATE SURCHARGE: REG FACILITY	PR0027124	EE0001043		01	Y N

SPECIALISTS SIGNATURE: Dave King

COMMENTS: _____

Record Selection Criteria: Facility ID FA0007014

OWNER FILE INFORMATION

Owner ID OW0006238
Owner Name SACRAMENTO/YOLO MVCD
Owner DBA
Owner Address 8631 BOND RD
ELK GROVE, CA 95624
Home Phone Not Specified
Work/Bussness Phone 916-685-1022

Mailing Address 8631 BOND RD
ELK GROVE, CA 95624
Care of

New Owner ID : _____

FACILITY FILE INFORMATION

Facility ID: FA0007014
Facility Name: SACRAMENTO/YOLO MVCD
Location: 8631 BOND RD
ELK GROVE, CA 95624
Phone: 916-685-1022

Mailing Address: 8631 BOND RD
ELK GROVE, CA 95624
Care of
SIC Code: _____ Anniv. Month 07

ACCOUNTS RECEIVABLE FILE INFORMATION

Account ID: AR0007025
Mail Invoices to:
Account Name: SACRAMENTO/YOLO MVCD
Account Balance as of 8/31/99: $665.00

New Account ID: _____
Mail Invoices to: Owner / Facility / Account
(Circle One)

Program/Element and Description	Record ID	Employee ID#	Status	UST(s) Linked	Transfer to New Owner?		OOB?	
4512 - LIMITED QUANTITY HAULING EXEMPT	PR0008831	EE0001043	02	0	Y	N	Y	N
5306 - HAZARDOUS WASTE GENERATOR FEE 200-1200 GALLON	PR0027123	EE0001043	01	0	Y	N	Y	N
6001 - STATE SURCHARGE: REG FACILITY	PR0027124	EE0001043	01	0	Y	N	Y	N

UPDATED 8-31-99

SPECIALIST'S SIGNATURE: _____ INFO CHANGE DATE: _____ SUBMITTAL DATE: _____

COMMENTS: _____

Filing Instructions ☐ Close Tank File "C" Rebill Y N ?

☐ OOB Pink Folder ☐ DOD Yellow Strip ☐ Create (new/modified) active file

COUNTY OF SACRAMENTO, ENVIRONMENTAL MANAGEMENT DEPARTMENT, HAZARDOUS MATERIALS DIVISION
8475 Jackson Road, Suite 230 • Sacramento, CA 95826 • 916/875-8550

NOTICE TO COMPLY

DBA Sac./Yolo - Mosquito & Vector Control | FAC # | PH (916) 685-1022 ext. 530

ADDRESS 8631 Bond | CITY Elk Grove | ZIP

CONTACT Richard Dryden, James Clawson | INSPECTION TYPE: BP/ UST/ (HMG)/ INCIDENT REPORT/ REINSPECTION | BP exempt - Sp. Dist.

Instructions:
- Use Corresponding Self-Evaluation And Violation Code Reference Sheets to determine violations.
- Required corrective action is described below.
- You must return your copy of this *Notice* to the HMD with the *Corrective Actions Statement* (on the back of your copy) fully completed and signed within 35 days to avoid reinspection &/or penalties.

VIOLATION CODE	COMMENTS & CORRECTIVE ACTION REQUIRED	DUE DATE
HW67	① Hazardous waste accumulation for SQG (6/9mos) has been exceeded. Used oil, coolant accumulated for greater than the 6 month accumulation. Used oil and coolant must be removed every 6 mos. Satellite accumulation allowing 1yr. Storage for used coolant is an option.	
HW44	② Hazardous waste labels not completed - Haz. waste labels on used coolant and cart for used oil not completed. Complete labels with appropriate start dates. For oil carts, indicate "Empty pail." Submit copy/photo of completed label.	10/29/99
HW44	③ Above ground tank > 110 gals not labeled w/ hazardous waste - Label aboveground used oil tank "Hazardous Waste." Submit photo of properly labeled tank.	11/5/99
HW23	④ Site map submitted incomplete - Review site map instructions, complete and submit site map. Keep a copy onsite.	11/22/99
HW80-83	⑤ Training addresses Pesticide use and handling offsite - Provide training for onsite shop employees covering emergency response actions. Submit copy of training log w/ signatures.	11/22/99

① VIOLATION CODES ARE EXPLAINED ON THE SELF-EVALUATION AND VIOLATION CODE REFERENCE SHEETS. PERFORM annually
② YOUR SIGNATURE IS ACKNOWLEDGMENT OF YOUR RECEIPT OF CORRESPONDING SELF-EVALUATION AND VIOLATION CODE REFERENCE SHEETS.
③ PENALTIES AND/OR LATE FEES ARE CHARGED FOR REINSPECTIONS AND LATE SUBMITTALS.
④ FACILITY IS SUBJECT TO REINSPECTION AT ANY TIME.
⑤ YOU MUST MAKE THE REQUIRED CORRECTIONS BY THE GIVEN DATES AND SUBMIT YOUR CORRECTIVE ACTIONS STATEMENT (COMPLETED & SIGNED) WITH ACCEPTABLE PROOF OF COMPLIANCE (PHOTOS, RECEIPTS, ETC.) TO THE HMD WITHIN 35 DAYS.
⑥ YOU MAY CONTACT ME AT 916/875-8476

SPECIALIST Ralph Kohnt DATE 10/22/99 RECEIVED BY Richard Dryden TITLE Shop-Supervisor

COUNTY OF SACRAMENTO, ENVIRONMENTAL MANAGEMENT DEPARTMENT, HAZARDOUS MATERIALS DIVISION
8475 Jackson Road, Suite 230 • Sacramento, CA 95826 • 916/875-8550

CORRECTIVE ACTIONS STATEMENT

Instructions:

This form **must** be:

- completed, signed & dated by the owner or operator of the facility to which the **Notice To Comply** was issued,
- **sent to the HMD** (address above) **within 35 days** of the date of inspection, and
- accompanied by supporting documentation (photos, receipts, etc) demonstrating that you have achieved compliance for each violation.

Violation Code (from Notice)	Specific Actions / Steps Taken To Correct & Abate Violation (enter below for each violation)	Supporting Documentation of Compliance (enter type)

Disagreements / Explanations:

If you disagree with a particular violation, or would like to offer explanation, you may do so here (enter violation code):

Attach additional pages as necessary following above format (include facility name & address). Enter *"continued"* on last line of table above to indicate additional pages included.

SIGNATURE _____ NAME (PRINTED) _____

TITLE _____ DATE _____

County of Sacramento, Environmental Management Department Hazardous Materials Division

Facility Inspection Notes

DBA: Sac-Yolo Mosquito & Vector ADDRESS:	DATE: FAC #: PAGE: ___ of ___

Rich Dryden Shop Sup. 2 shop emps.

HAZ MATS	AMOUNT	✓ IF: omitted	✓ IF: changed
Exempt			

TANKS: Lab - Ken Borges

NOTES: Training ?. goes through Pesticide operations tng
Used oil - HW labeling "EMPTY drums"
Used absorbent dated (9/24/99) - inaccurate - emp
AW label coolant not filled out
HW label used oil cont not filled out
Sump used oil removed 1x/qtr
Coolant open
6 mos disp exceeded!
training - address for onsite

1/8 81500 20

Facility Inspection Notes, continued

9/1/99 – 10/22

EPA ID# CAL000049907

HAZARDOUS WASTES	Amount on site	Amount Generated: In month	Amount Generated: In year	✔ If Required to be on Chemical Inventory
Used oil 500gal AST	62.5	≈ 40	480-500	3,741 lbs/yr
Used oil cart 30gal				
SK 72gal			105/ 703 lbs	
SK 30gal				
Spent absorbent 9/29/99 30g	-0-			
Brake wash SK 4g				
Used coolant 55g	27 gal	3.4	40.5	349 lbs
Filter 2x 3g	1/3			
			< 220	2,200 lbs/40

6 mos

374
70
349
4793
399

DISPOSAL RECORDS							
Hauler	Waste	Date	Amount	Date	Amount	Date	Amount
Evergreen	used oil	8/30/99	500g				
"	coolant	2/18/99	55g	5/21/98	50g		
SK	w. solv	7/27/99	9g	9/20/99	8g	8/23/99	12g
		6/29/99	8	6/3/99	8g	5/6/99	9
		5/4/9	8g	4/13/99	12g	4/5/99	8g
SK	Brake	2/23/99	4g	8/23/99	4/19/99	12g	
SK	Filters	6/4/99	148 lbs				

Notes: ✓

COUNTY OF SACRAMENTO, [redacted]IRONMENTAL MANAGEMENT DEPARTMENT, [redacted]ARDOUS MATERIALS DIVISION
8475 Jackson Road, Suite 230 • Sacramento, CA 95826 • 916/875-8550

CORRECTIVE ACTIONS STATEMENT

Instructions:

This form must be:

- completed, signed & dated by the owner or operator of the facility to which the **Notice To Comply** was issued,
- **sent to the HMD** (address above) **within 35 days** of the date of inspection, and
- accompanied by supporting documentation (photos, receipts, etc) demonstrating that you have achieved compliance for each violation.

Violation Code (from Notice)	Specific Actions / Steps Taken To Correct & Abate Violation (enter below for each violation)	Supporting Documentation of Compliance (enter type)
HW67	Started 6 month pick on oil and anti freeze by	copies of labels
	putting on hazardous waste labels on oil tank and	
	anti-freeze barrel with last pick up date.	
HW 44	Filled out and put hazardous waste labels on used	copy/ photo of label
	coolant and used oil cart. Also labeled oil cart	and pictures of cart, etc.
	"empty daily."	
HW23	Reviewed site map instructions, completed new site	copy of mat
	map. Put by shop office door and in main office	
HW80-83	Pesticide use & training done in house at SAC-YOLO	picture of books
	Mosquito & Vector Control District 8631 Bond Road Elk	and charts.
	Grove, Ca. 95624 Started training on hazardous waste	copies of training
	From Safety Kleen booklets. Also send copy of our	and hazard waste
	hazardous waste and spill training procedures (in	spill & emergency
	house)	procedures

Disagreements / Explanations: See attached paperwork.

If you disagree with a particular violation, or would like to offer explanation, you may do so here (enter violation code):

Attach additional pages as neceeeary following above format (include facility name & address). Enter *"continued"* on last line of table above to indicate additional pages included.

SIGNATURE Richard Dryden

NAME (PRINTED) Richard Dryden

TITLE Shop Supervisor

DATE 11-12-99

COUNTY OF SACRAMENTO, ENVIRONMENTAL MANAGEMENT DEPARTMENT, HAZARDOUS MATERIALS DIVISION 35 days

8475 Jackson Road, Suite 230 • Sacramento, CA 95826 • 916/875-8550

RECEIVED NOV 1 8 1999 ENVIRONMENTAL MANAGEMENT DEPT. HAZARDOUS MATERIALS DIVISION

NOTICE TO COMPLY

Page 1 of 1

DBA Sac/Yolo - Mosquito + Vector Control

FAC # 35627

ADDRESS 8631 Bond

CITY Elk Grove

ZIP 685-1022 ext. 530

CONTACT Rich Dryden, James Clauson

INSPECTION TYPE: BP/ UST/ HW/ INCIDENT REPORT/ REINSPECTION [illegible] - SP Dist.

Instructions:
- Use Corresponding Self-Evaluation And Violation Code Reference Sheets to determine violations.
- Required corrective action is described below.
- You must return your copy of this *Notice* to the HMD with the *Corrective Actions Statement* (on the back of your copy) fully completed and signed within 35 days to avoid reinspection &/or penalties.

VIOLATION CODE	COMMENTS & CORRECTIVE ACTION REQUIRED	DUE DATE
HW67	1) Hazardous waste accumulation for SQG (6/mos) has been exceeded. Used oil, coolant accumulated for greater than the 6 month accumulation. Used oil and coolant must be removed every 6 mos. 1/2 Satellite accumulation allowing 1 yr. storage for used coolant is an option.	
HW44	2) Hazardous waste labels not completed - Haz. waste labels on used coolant and cart for used oil not completed. Complete labels with appropriate start dates. For oil carts, indicate "Empty daily." Submit copy/photo of completed label.	10/27/99
HW44	3) Above ground tank > 110 gals not labeled w/ hazardous waste - label aboveground used oil tank "Hazardous Waste." Submit photo of properly labeled tank.	11/5/99
HW23	4) Site map submitted incomplete - Review site map instructions, complete and submit site map. Keep a copy onsite.	11/22/99
HW 80-93	5) Training addresses Pesticide use and handling offsite. Provide training for shop employees covering emergency response actions. Submit copy of training log w/ signatures. Performed annually	11/22/99

① VIOLATION CODES ARE EXPLAINED ON THE SELF-EVALUATION AND VIOLATION CODE REFERENCE SHEETS.
② YOUR SIGNATURE IS ACKNOWLEDGMENT OF YOUR RECEIPT OF CORRESPONDING *SELF-EVALUATION AND VIOLATION CODE REFERENCE SHEETS.*
③ PENALTIES AND/OR LATE FEES ARE CHARGED FOR REINSPECTIONS AND LATE SUBMITTALS.
④ FACILITY IS SUBJECT TO REINSPECTION AT ANY TIME.
⑤ YOU MUST MAKE THE REQUIRED CORRECTIONS BY THE GIVEN DATES AND SUBMIT YOUR CORRECTIVE ACTIONS STATEMENT (COMPLETED & SIGNED) WITH ACCEPTABLE PROOF OF COMPLIANCE (PHOTOS, RECEIPTS, ETC.) TO THE HMD WITHIN 35 DAYS.
⑥ YOU MAY CONTACT ME AT 916/875-8476

SPECIALIST Ralph Kibert DATE 10/22/99 RECEIVED BY Richard Dryden TITLE Shop Supervisor

February 6, 2001

JAMES CLAUSON
8631 BOND RD
ELK GROVE CA 95624

Dear Mr. Clauson:

As requested during our conversation on February 6, in regards to the Business Plan, I have enclosed your Hazardous Materials Business Plan for your required signature. If you should need further assistance, please do not hesitate to call me at (916) 875-8450.

Sincerely,

Michelle Troupe

Michelle Troupe

Hazardous Materials Specialist Intern

FA0007014

Notify the Environmental Management Department of any change o ownership, type of business activity, business name, or billing address by calling 916-875-8550. Failure to notify Environmental Management may result in late penalties, Permit denial or revocation, and business closure PERMITS TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s) prior to beginning operation.

ATTN: JAMES CLAUSON
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

YOUR PERMIT MUST BE RETAINED ON THE PREMISES

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
8475 JACKSON RD STE 230

REGULATED FACILITY :

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 8/15/2003

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

5306 HAZARDOUS WASTE GENERATOR FEE 200-1200 GALLON
VALID FROM AUGUST 16, 2003 TO AUGUST 15, 2004

Permits to operate and Annual Fee Payments are NOT TRANSFERABLE. Those referenced above are valid ONLY for this owner SACRAMENTO/YOLO MVCD. Permits become VOID on change of ownership. New owners must apply and pay for a new Permit(s) PRIOR to beginning operation or penalties will be assessed.

County of Sacramento • Environmental Management Department • Hazardous Materials Division
8475 Jackson Road Suite 230 • Sacramento, CA 95826-3904 • Voice (8am – 5pm): 916/875-8550 • FAX: 916/875-8513
Internet Address: http://www.emd.saccounty.net

NOTICE TO COMPLY

- This **Notice To Comply** *Written Summary of Violations* is issued with a *Checklist Summary of Violations* for each inspection type.
- Violations requiring immediate corrective action (Immediate Compliance Violations) are flagged via the red ICV summary box on this form. **ICVs must be corrected immediately or as specified on this Notice.**
- **All violations (other than Immediate Compliance Violations) must be corrected within 30 days (60 days for UST violations only) unless otherwise noted.**
- **You must return your fully completed & signed Return To Compliance Statement(s)** (found on the back of each *Checklist Summary of Violations*) **to HMD within 35 days (or 60 days for UST violations only).**
- A reinspection may occur at any time to verify correction of noted violations.

INSPECTION TYPE:	☑BP ☑WG ☐TP ☐UST ☐AST ☐REINSPECTION			
INSPECTION DATE: 3-17-2004	[illegible]	FACILITY ID#: FA # 7014	CONSENT? ☑YES ☐NO	CONSENTING CONTACT NAME: Ken Boyce
DBA/FACILITY NAME: Sacramento Yolo Mosquito & Vector Control District				SITE PH #: (916) 685 1022
ADDRESS: 8631 Bond Rd	CITY: Elk Grove	CA	ZIP: 95624	
CONSOLIDATED PERMIT STATUS: ☑CURRENT ☐EXPIRED ☐NONE	HMP STATUS: ☑CURRENT ☐NONE ☐OUTDATED ☐SAP			
SPECIALIST: Aimee Norman	SPECIALIST PHONE#: (916) 875- 8529	Page 1 of 3		
RECEIVED BY: Signature: [signature]	Print Name: David Brown	Title: Manager		

Immediate Corrective Action / Compliance is required for items below having these Violation Codes:

ICVs Code Summary:	None observed today

HMD Violation Code:	Written Summary of Violations
HM0D	(1) No Permit for hazardous materials storage. Pay fee & ~~comply~~ comply with this Notice to obtain Permit.
HM01-04 and W020-022	(2) HMP (Hazardous Materials Plan) currently submitted is incomplete. HMP chemical inventory does not list all materials stored in reportable quantities (55 gallons, 500 lbs. & 200 cubic feet). Site map lacks locations of hazardous materials, first aid materials, MSDS and does not identify neighboring properties/businesses. Contingency plan containment procedures (CP3) is incomplete and emergency coordinator personnel is outdated. Business Owner Page is incomplete. Submit a complete HMP to our office. Keep a copy on site. Chemical inventory must include all lube oils, hydraulic oils, waste oil, diesel, gas, ~~acetylene~~ argon-CO_2 gas, oxygen gas, argon gas, roteila oil, golden bear pesticide, vectolex, vectobac, altosid, scourge, pyrolide, trumpet, pyrenone, Kleard, pro flush, propane,

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Internet Address: http://www.emd.saccounty.net

NOTICE TO COMPLY, continued

Refer to page 1 for instructions

INSPECTION DATE:	3-17-2004	FACILITY ID#:	FA 0007014	Page 2 of 3
DBA/FACILITY NAME:	Sacramento Yolo Mosquito & Vector Control Dist.	ADDRESS:	8631 Bond Rd Elk Grove	
SPECIALIST:	Aimee Norman	SPECIALIST PHONE#: (916) 875-	8529	
RECEIVED BY:	Signature: David Bass	Print Name: David Brown	Title: Manager	

HMD Violation Code:	Written Summary of Violations, *continued*
	carbon dioxide gas, liquid nitrogen and all other chemicals stored in reportable quantities.
	An HMP will be mailed to you with a specified 60 day due date. Submit HMP in accordance with that date.
HM 11	(3) No written documentation of employee training in last 12 months for all employees handling or working with hazardous materials or hazardous wastes. Submit written documentation of training for shop employees & lab employees using liquid nitrogen, & pesticide handlers demonstrating training in last 12 months or given in next 30 days.
AST 004 01	(4) No SPCC (Spill Prevention Control & Countermeasure) Plan for petroleum storage in above ground storage tanks exceeding 1320 gallons. Submit SPCC Plan signed by a Registered Professional Engineer or a statement for correction timeline.
W010	(5) Disposal of "ozzymats" filters to trash from parts washer as non-hazardous waste when testing results indicate that mats are potentially hazardous waste. Further testing must be completed to classify ozzymats filters as non-hazardous waste. Testing results provided to me from 2001 indicate that TTLC results exceed STLC limits thus requiring additional ~~soluble~~ soluble metals testing of the mats. Moreover, because the usage varies & the presence of the metals will fluctuate in each filter accumulation / disposal, testing is required with each disposal to properly characterize this waste.

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8475 Jackson Road Suite 230 • Sacramento, CA 95826-3904 • Voice (8am – 5pm): 916/875-8550 • FAX: 916/875-8513
Internet Address: http://www.emd.saccounty.net

NOTICE TO COMPLY, continued

Refer to page 1 for instructions

INSPECTION DATE: 3-17-2004	FACILITY ID#: FA0007014	Page 3 of 3
DBA/FACILITY NAME: Sacramento Yolo Mosquito & Vector Control Dist.	ADDRESS: 8631 Bond Rd Elk Grove	
SPECIALIST: Aimee Norman	SPECIALIST PHONE#: (916) 875- 8529	
RECEIVED BY: Signature: David Baun	Print Name: David Baun	Title: Manager

HMD Violation Code:	Written Summary of Violations, *continued*
	Either conduct STLC testing for metals at next disposal or manage as hazardous waste.
	If you choose to do further testing ~~results~~ to determine whether each disposal is hazardous waste, you must retain all analytical ~~testing~~ results. Any testing results proving the mate as hazardous waste will require that you dispose of the waste as hazardous waste. Submit an action plan for managing this wastestream to our office.
W026	(6) No posting of emergency coordinators information / equipment locations by the telephone. Post / required. Post required information & submit photo to our office showing correction. Form left for your use.
W044 & W050	(7) Tank storing hazardous waste (AST) not marked with accumulation start date. Mark tank & submit photo of correction to our office.
W097	(8) Unable to determine whether AST storing waste oil has spill prevention mechanism ~~or~~ and overfill prevention controls. Submit statement as to whether AST has these controls. If not, tank must be retrofitted. Acceptable controls are check valves, auto shutoff or level sensing devices or alarms.
pending research	(9) I will research issue of overhead protection requirement for your AST. If required, I will send you an addendum to this Notice.

Checklist Summary of Violations for Business Plan / Hazardous Materials / Above Ground Storage Tanks

FACILITY ID#: FA # 7014	SPECIALIST: Aimee Norman	INSPECTION DATE: 3-17-2004
DBA/FACILITY NAME: Sacramento Yolo Mosquito & Vector Control Dist.	ADDRESS: 8631 Bond Rd Elk Grove CA 95624	

HAZARDOUS MATERIALS

Instructions:

1. Violations summarized on this checklist are further denoted on the **Notice To Comply.** Violations of items in bold & italics require immediate corrective action; other violations must be corrected within 30 days.
2. **Corrective action must be demonstrated with proof of compliance within 35 days** by completion & submission of the *Corrective Action Statement* on the back of this checklist.
3. For information on normally required corrective action, compliance requirements & legal citations, refer to your **Notice To Comply** and/or the *HMD Hazardous Materials Inspection Compliance Handbook*.

Facility status is evaluated for each item on this Checklist as follows:
C= Compliance V= Violation U= Unknown/Undetermined N/A= Not Applicable RV= Repeat Violation

Violation Code	Authority	Requirement	Facility Status C	V	U	N/A	RV
HM00	SCC 6.96.045	Has permit for hazardous materials storage.	☐	☒	☐	☐	○
HM01	19CCR 2729.2	Adequate submission / completion of Business Activities & Owner / Operator Identification Forms.	☐	☒	☐	☐	○
HM02	19CCR 2729.1	Adequate submission / completion of chemical inventory forms.	☐	☒	☐	☐	○
HM03	19CCR 2729.2	Adequate submission / completion of site map.	☐	☒	☐	☐	○
HM04	CHSC 25504	Adequate submission / completion of Consolidated Contingency Plan.	☐	☒	☐	☐	○
HM05	19CCR 2729.1	Submission of acutely hazardous materials registration form.	☐	○	☐	☑	○
HM06	19CCR 2703	Submission of unintentional release report (where significant health/environmental impact) to the HMD and State OES.	☐	○	☐	☑	○
HM07	CHSC 25503.5	HMP is maintained on-site.	☑	○	☐	☐	○
HM10	CHSC 25504(c) & 19CCR 2732	Initial employee training program for hazardous materials/emergency response implemented and adequate.	☑	○	☐	☐	○
HM11	CHSC 25504(c) & 19CCR 2732	Annual refresher component to employee training program for hazardous materials/emergency response implemented and adequate.	☐	☒	☐	☐	○
HM12	19CCR 2731(c)	MSDS (Material Safety Data Sheets) maintained on site.	☑	○	☐	☐	○
HM13	19 CCR 2731	Consolidated Contingency Plan adequate and maintained on site.	☑	○	☐	☐	○
HM20	19CCR 2731(c)	Emergency shutoffs are labeled.	☑	○	☐	☐	○
HM21	19CCR 2731(c)	Safety equipment is available & functional.	☑	○	☐	☐	○
HM22	19CCR 2731(c)	Mitigation & cleanup materials are available & sufficient.	☑	○	☐	☐	○
HM23	19CCR 2731(c)	Means to prevent accidental discharge to ground, sewer, s ump or storm drains.	☑	○	☐	☐	○
HM30	19CCR 2731(c)	Containers are kept closed unless in use.	☑	○	☐	☐	○
HM31	19CCR 2731(c)	Containers are in good condition.	☑	○	☐	☐	○
HM32	19CCR 2731(c)	Containers are securely stored.	☑	○	☐	☐	○
HM33	19CCR 2731(c)	Containers are compatible with contents.	☑	○	☐	☐	○
HM34	19CCR 2731(c)	Containers are properly labeled.	☑	○	☐	☐	○
HM35	19CCR 2731(c)	Containers are disposed of properly when empty.	☑	○	☐	☐	○
HM40	19CCR 2731(c)	Storage area is kept clean & spill free.	☑	○	☐	☐	○
HM41	19CCR 2731(c)	Storage area is maintained to separate incompatible materials.	☑	○	☐	☐	○
HM52	19CCR 2731(c)	Fire extinguishers have been serviced in the last 12 months.	☑	○	☐	☐	○
HM53	19CCR 2731(c)	First aid materials available.	☑	○	☐	☐	○
HM54	19CCR 2731(c)	Electrical panel / emergency shutoff switches are labeled.	☑	○	☐	☐	○
AST00	27CCR 15100(d)	Facility storing petroleum in eligible ASTs (total capacity >1320 gallons) has a Spill Prevention Control & Countermeasure Plan (SPCC) on site.	☐	☒	☐	☐	○
AST01	27CCR 15100(d)	SPCC is signed by a Registered Professional Engineer.	☐	☒	☐	☐	○

County of Sacramento ● Environmental Management Department ● Hazardous Materials Division
8475 Jackson Road Suite 230 • Sacramento, CA 95826-3904 • Voice (8am – 5pm): 916/875-8550 • FAX: 916/875-8513 • On the Web: http://www.emd.saccounty.net

County of Sacramento ● Environmental Management Department ● Hazardous Materials Division
8475 Jackson Road Suite 230 • Sacramento, CA 95826-3904
Internet Address: http://www.emd.saccounty.net Voice (8am – 5pm): 916/875-8550 • FAX: 916/875-8513

RETURN TO COMPLIANCE STATEMENT

This *Return To Compliance Statement* **must be returned** to the HMD **within 35 days** of your facility's inspection, **demonstrate compliance** with each violation noted at your recent facility inspection, **and be accompanied by proof of compliance** (photos, copies of manifests/disposal records or receipts, or other original paperwork) where appropriate.

Compliance Certification		
1. *I certify that the violations noted on the Notice To Comply (and accompanying inspection checklists) have been corrected in the manner indicated below.* 2. *I have personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate and complete.* 3. *I am aware that there are significant penalties for submitting false information and/or for non-compliance with violations noted.* 4. *I declare under penalty of perjury that the foregoing certification is true and correct.*		
Executed at:	*, California*	*Date:*
Signature:		*Printed Name:*
Position/Title:		

Summary of Violation Compliance Action

Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
HM00	☐	☐	☐	HM12	☐	☐	☐	HM34	☐	☐	☐
HM01	☐	☐	☐	HM13	☐	☐	☐	HM35	☐	☐	☐
HM02	☐	☐	☐	HM20	☐	☐	☐	HM40	☐	☐	☐
HM03	☐	☐	☐	HM21	☐	☐	☐	HM41	☐	☐	☐
HM04	☐	☐	☐	HM22	☐	☐	☐	HM52	☐	☐	☐
HM05	☐	☐	☐	HM23	☐	☐	☐	HM53	☐	☐	☐
HM06	☐	☐	☐	HM30	☐	☐	☐	HM54	☐	☐	☐
HM07	☐	☐	☐	HM31	☐	☐	☐	AST00	☐	☐	☐
HM10	☐	☐	☐	HM32	☐	☐	☐	AST01	☐	☐	☐
HM11	☐	☐	☐	HM33	☐	☐	☐		☐	☐	☐

Statements:

Checklist Summary of Violations for Hazardous Waste (Page 1 of 2)

FACILITY ID#:	PR #:	SPECIALIST:	INSPECTION DATE:
FA # 7014	27123	Aimee Norman	7/7/2004

DBA/FACILITY NAME:	ADDRESS:
Sacramento Yolo Mosquito & Vector Control Dist.	8631 Bond Rd Elk Grove CA 95624

HAZARDOUS WASTE Aug 28 2009

Instructions:

1. Violations summarized on this checklist are further denoted on the **Notice To Comply.** Violations of items in bold & italics require immediate corrective action; all other violations require compliance within 30 days.
2. **Corrective action must be demonstrated with proof of compliance within 35 days** by completion & submission of the *Corrective Action Statement* on the back of this checklist.

Facility status is evaluated for each item on this Checklist as follows:
C= Compliance V= Violation U= Unknown/Undetermined NA= Not Applicable RV= Repeat Violation

Violation Code	Authority	Requirement	Facility Status C	V	U	NA	RV
W000	CHSC 25189.5(a)	***Authorized / proper disposal of hazardous wastes.***	☑	○	□	□	○
W001	22CCR 66262.12	Has valid EPA ID Number (Call 1-800-618-6942 for state # or 1-415-495-8895 for federal #).	☑	○	□	□	○
W002	SCC 6.98.035	Has license for hazardous waste generation (consolidated permit).	☑	○	□	□	○
W010	22CCR 66262.11	Proper characterization / testing of wastestreams.	□	⊘	□	□	○
W011	22CCR 66262.40(c)	Haz waste analysis retained for three years.	☑	○	□	□	○
W020	19CCR 2729.2	Adequate submission / completion of Business Activities & Owner/Operator ID Forms.	□	⊘	□	□	○
W021	19CCR 2729.1	Adequate submission / completion of chemical inventory (only if storage ≥55 gallons at any time).	□	⊘	□	□	○
W022	19CCR 2729.2	Adequate submission / completion of site map (only if storage ≥55 gallons at any time).	□	⊘	□	□	○
W023	22CCR 66265.51	Adequate submission / completion of written Consolidated Contingency Plan (for LQGS only).	□	○	□	☑	○
W024	22CCR 66265.53(a)	HMP is maintained on-site.	☑	○	□	□	○
W025	22CCR 66262.34(d)	CESQGs/SQGs have a designated emergency coordinator who responds to any emergency, coordinates facility response & makes notifications if emergency threatens health or environment off-site.	☑	○	□	□	○
W026	22CCR 66262.34(d)	CESQGs/SQGs have posted by telephone the Emergency Coordinator's name & phone number, Fire Dept phone number & locations of fire extinguishers, spill control materials and any fire alarm equipment.	□	⊘	□	□	○
W027	22CCR 66262.34(d)	CESQGs/SQGs have implemented minimum emergency response procedures for fires (call fire dept & attempt to extinguish if safe) and spills (reasonably contain flow & clean up as soon as possible).	☑	○	□	□	○
W030	22CCR 66265.35	Adequate aisle space is provided.	☑	○	□	□	○
W031	22CCR 66265.32(b)	Has access to communication equipment for emergency response (phone, alarm, 2 way radio).	☑	○	□	□	○
W032	22CCR 66265.32(c)	Has portable fire extinguishing equipment & water for firefighting.	☑	○	□	□	○
W033	22CCR 66265.32(c)	Adequate spill control/mitigation materials available.	☑	○	□	□	○
W034	22CCR 66265.31	Has protection for storm drains, sumps, & sewer outlets from unplanned release.	☑	○	□	□	○
W035	22CCR 66265.16	Has MSDS (Material Safety Data Sheets).	☑	○	□	□	○
W036	22CCR 66265.33	Fire extinguishers serviced in last 12 months.	☑	○	□	□	○
W037	22CCR 66265.31	First aid materials / kit provided.	☑	○	□	□	○
W038	22CCR 66265.31	Electrical panel / utility / emergency shutoff switches labeled.	☑	○	□	□	○
W039A	22CCR 66262.34	Containers provided & adequate for storage of hazardous waste.	☑	○	□	□	○
W039	22CCR 66265.171	***Containers not leaking.***	☑	○	□	□	○
W040	22CCR 66265.173	Containers kept closed unless removing or adding waste.	☑	○	□	□	○
W041	22CCR 66265.171	***Containers in good condition.***	☑	○	□	□	○
W042	22CCR 66265.173	***Containers securely stored.***	☑	○	□	□	○
W043	22CCR 66265.172	***Containers compatible with contents.***	☑	○	□	□	○
W044	22CCR 66262.31-34	Containers labeled properly (w/ accumulation start date, generator info, EPA ID #, contents, hazards).	□	⊘	□	□	○
W045	22CCR 66261.7	Containers > 5 gallons managed properly when empty (recycled, returned to vendor within 1 year).	☑	○	□	□	○
W046	22CCR 66265.31	Minimal spills in storage area & spills promptly removed.	☑	○	□	□	○
W047	22CCR 66265.174	Storage area inspected weekly.	☑	○	□	□	○
W048	22CCR 66265.172	***Separation of incompatible materials.***	☑	○	□	□	○
W049	22CCR 66265.31	Storage is unlikely to cause unintended discharge to storm drain, sump or sewer.	☑	○	□	□	○
W050	22CCR 66279.21 & 22CCR 66266.130	Proper handling, labeling, management, & recycling of waste oil & waste oil filters.	□	⊘	□	□	○
W051	22CCR 66266.81	Proper handling, labeling, management, & recycling of spent automotive lead acid batteries.	☑	○	□	□	○
W052	22CCR 66273.13 or 22CCR 66273.33	Proper handling, labeling, management, & recycling of universal wastes (thermostats, non-auto batteries, fluorescent lights, etc) when all waste generated is >100 kg/ 220 lbs/ 27 gallons per month.	☑	○	□	□	○
W053	CHSC 25143.9	Proper handling, labeling & management of other excluded recyclable materials.	□	○	□	☑	○
W054	CHSC 25143.10	Completion of UPCF Recyclable Materials Report every two years if recycle onsite >100 kg / 27 gallons per month excluded recyclable material (in lieu of hazardous waste disposal for that material).	□	○	□	☑	○

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4. *I declare under penalty of perjury that the foregoing certification is true and correct.*

Executed at: , *California* *Date:*

Signature: *Printed Name:*

Position/Title:

Summary of Violation Compliance Action

Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
W000	☐	☐	☐	W039A	☐	☐	☐	W067	☐	☐	☐
W001	☐	☐	☐	W040	☐	☐	☐	W068	☐	☐	☐
W002	☐	☐	☐	W041	☐	☐	☐	W069	☐	☐	☐
W010	☐	☐	☐	W042	☐	☐	☐	W070	☐	☐	☐
W011	☐	☐	☐	W043	☐	☐	☐	W071	☐	☐	☐
W020	☐	☐	☐	W044	☐	☐	☐	W072	☐	☐	☐
W021	☐	☐	☐	W045	☐	☐	☐	W073	☐	☐	☐
W022	☐	☐	☐	W046	☐	☐	☐	W074	☐	☐	☐
W023	☐	☐	☐	W047	☐	☐	☐	W080	☐	☐	☐
W024	☐	☐	☐	W048	☐	☐	☐	W080A	☐	☐	☐
W025	☐	☐	☐	W050	☐	☐	☐	W081	☐	☐	☐
W026	☐	☐	☐	W051	☐	☐	☐	W082	☐	☐	☐
W027	☐	☐	☐	W052	☐	☐	☐	W083	☐	☐	☐
W030	☐	☐	☐	W053	☐	☐	☐	W090	☐	☐	☐
W031	☐	☐	☐	W054	☐	☐	☐	W091	☐	☐	☐
W032	☐	☐	☐	W055	☐	☐	☐	W092	☐	☐	☐
W033	☐	☐	☐	W060	☐	☐	☐	W093	☐	☐	☐
W034	☐	☐	☐	W061	☐	☐	☐	W094	☐	☐	☐
W035	☐	☐	☐	W062	☐	☐	☐	W095	☐	☐	☐
W036	☐	☐	☐	W063	☐	☐	☐	W096	☐	☐	☐
W037	☐	☐	☐	W064	☐	☐	☐	W097	☐	☐	☐
W038	☐	☐	☐	W065	☐	☐	☐	W098	☐	☐	☐
W039	☐	☐	☐	W066	☐	☐	☐	W099	☐	☐	☐

Statements:

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Checklist Summary of Violations for Hazardous Waste, *continued (Page 2 of 2)*

FACILITY ID#:	PR#:	SPECIALIST:	INSPECTION DATE:
FA # 7014	27123	Aimee Norman	3.17.2004

DBA/FACILITY NAME:	ADDRESS:
Sacramento Yolo Mosquito & Vector Control Dist.	8631 Bond Rd
	Elk Grove CA 95624

HAZARDOUS WASTE — Aug 20 2009

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Violation Code	Authority	Requirement	Facility Status C	V	U	NA	RV
W060	CHSC 25163	Haz waste transported by a licensed haz waste hauler (exception: TSDF or HHW generator transport).	☑	○	☐	☐	○
W061	CHSC 25189.5	Haz waste shipped to an authorized TSDF or recycler for disposal.	☑	○	☐	☐	○
W062	22CCR 66263.42	Haz waste manifests &/or consolidated manifests completed properly.	☑	○	☐	☐	○
W063	22CCR 66263.42	Haz waste manifests &/or consolidated manifests kept on-site for 3 years.	☑	○	☐	☐	○
W064	22CCR 66262.34(a)	*90 day rule:* Haz waste disposed of every 90 days from first day of accumulation (required if generate ≥1000 kg / 270 gallons per month).	☐	○	☐	☑	○
W065	22CCR 66262.34(d) & CHSC 25123.3(c)	*CESQG 180 days:* Haz waste disposed of within 180 days of accumulating 100 kg / 27 gallons (eligible only if generate <100 kg / 27 gallons per month & never store more than 1620 gallons).	☐	○	☐	☑	○
W066	22CCR 66262.34(d) & CHSC 25123.3(c)	*CESQG 270 days:* Haz waste disposed of within 270 days of accumulating 100 kg / 27 gallons (eligible only if meet 180 day CESQG criteria & waste destination is more than 200 miles away).	☐	○	☐	☑	○
W067	22CCR 66262.34(d) & CHSC 25123.3(c)	*SQG 180 days:* Haz waste disposed of within 180 days from first day of accumulation (eligible only if generate <1000 kg / 270 gallons per month & never store more than 1620 gallons).	☑	○	☐	☐	○
W068	22CCR 66262.34(d) & CHSC 25123.3(c)	*SQG 270 days:* Haz waste disposed of within 270 days from first day of accumulation (eligible only if meet 180 day SQG criteria & waste destination is more than 200 miles away).	☐	○	☐	☑	○
W069	22CCR 66262.34(e)	*Satellite storage:* Haz waste disposed of at least once / year (even if < 100 kg / 27 gallons accumulated) OR within 90 days of accumulating 55 gallons whichever comes first (eligible for satellite rule only if waste accumulated at/near point of generation & meet labeling & storage conditions).	☐	○	☐	☑	○
W070	22CCR 66262.40(a)	Yellow copies of manifests retained for at least 3 years.	☑	○	☐	☐	○
W071	22CCR 66262.23(a)(4)	Blue copies of manifests sent to DTSC within 30 days of disposal.	☐	○	☐	☐	○
W072	22CCR 66262.40(a)	2nd yellow copies of manifests (received from TSDF) retained for at least 3 years.	☐	○	☐	☐	○
W073	22CCR 66262.42(a)	Action taken if 2nd yellow copy not received from TSDF within 35 days of shipment.	☐	○	☐	☐	○
W074	22CCR 66262.42(b)	Exception report filed with DTSC if 2nd yellow not received within 45 days of shipment.	☐	○	☐	☐	○
W080A	22CCR 66262.34(d)	*CESQGs/ SQGs or satellite only:* Employees thoroughly familiar with proper waste handling & emergency procedures relevant to their responsibilities.	☑	○	☐	☐	○
W080	22CCR 66265.16(a)	*LQGs only:* Employees trained on emergency response procedures, equipment use, chemical handling & safety, etc.	☐	○	☐	☑	○
W081	22CCR 66265.16(a)	*LQGs only:* Employees trained on proper hazardous waste management practices.	☐	○	☐	☑	○
W082	22CCR 66265.16(b)	*LQGs only:* Employee training completed within 6 months for new hires.	☐	○	☐	☑	○
W083	22CCR 66265.16(c)	*LQGs only:* Employee training includes an annual refresher component.	☐	○	☐	☑	○
W090	22CCR 66265.16(e)	*LQGs only:* Written documentation of employee training kept for 3 years.	☐	○	☐	☑	○
W091	22CCR 66265.16(d)	*LQGs only:* Written documentation of employee training includes a brief outline of training program & dates of training.	☐	○	☐	☑	○
W092	22CCR 66265.16(d)	*LQGs only:* Written documentation of employee training includes employee names, job titles & job descriptions.	☐	○	☐	☑	○
W093	22CCR 66268.7(a)(1)	Generator has determined (by testing or generator knowledge) whether haz waste destined for land disposal at TSDF meets treatment standards or requires further treatment. (Common exemptions: RCRA waste from CESQGs & universal waste handlers or transporters of batteries, lamps & thermostats)	☑	○	☐	☐	○
W094	22CCR 66268.7(a)(2)-(a)(4)	Documentation of generator's written & signed land disposal restriction (LDR) notification / certification to TSDF that any haz waste sent for land disposal either meets treatment standards or requires further treatment.	☑	○	☐	☐	○
W095	22CCR 66268.7(a)(8)	Retention of all LDR notifications, certifications, determinations, waste analysis data or other LDR documentation for at least 3 years.	☑	○	☐	☐	○
W096	22CCR 66265.195	Haz waste storage tanks / tank systems inspected daily.	☑	○	☐	☐	○
W097	22CCR 66265.194	Stationary haz waste storage tanks / tank systems have spill prevention controls (i.e. check valves), overfill prevention controls (i.e. auto shutoff, level-sensing devices or alarms, etc), and minimum 2 feet of freeboard for uncovered tanks.	☐	☒	☐	☐	○
W098	22CCR 66262.41	LQGs of RCRA waste (>2,200 lbs/mo) submitted Biennial Report to DTSC by March 1 of even years for prior calendar years and copy retained on-site for 3 years.	☐	○	☐	☑	○
W099	22CCR 67100.3	Source Reduction requirements met for facility routinely generating > 12,000 kg (approx 3,165 gallons or 26,400 lbs) haz waste per year (automotive fluids exempted from waste calculation). *Includes:* Source Reduction Plan, HW Management Performance Report, & submission of Summary Progress Report every 4 years with all retained for 3 years after preparation. Documents must be made available within 5 days of request. (Businesses with <250 employees need only complete DTSC's Hazardous Waste Source Reduction Compliance Checklist and Summary Progress Report).	☐	○	☐	☑	○

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Signature: *Printed Name:*
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W001	☐	☐	☐	W040	☐	☐	☐	W068	☐	☐	☐
W002	☐	☐	☐	W041	☐	☐	☐	W069	☐	☐	☐
W010	☐	☐	☐	W042	☐	☐	☐	W070	☐	☐	☐
W011	☐	☐	☐	W043	☐	☐	☐	W071	☐	☐	☐
W020	☐	☐	☐	W044	☐	☐	☐	W072	☐	☐	☐
W021	☐	☐	☐	W045	☐	☐	☐	W073	☐	☐	☐
W022	☐	☐	☐	W046	☐	☐	☐	W074	☐	☐	☐
W023	☐	☐	☐	W047	☐	☐	☐	W080	☐	☐	☐
W024	☐	☐	☐	W048	☐	☐	☐	W080A	☐	☐	☐
W025	☐	☐	☐	W050	☐	☐	☐	W081	☐	☐	☐
W026	☐	☐	☐	W051	☐	☐	☐	W082	☐	☐	☐
W027	☐	☐	☐	W052	☐	☐	☐	W083	☐	☐	☐
W030	☐	☐	☐	W053	☐	☐	☐	W090	☐	☐	☐
W031	☐	☐	☐	W054	☐	☐	☐	W091	☐	☐	☐
W032	☐	☐	☐	W055	☐	☐	☐	W092	☐	☐	☐
W033	☐	☐	☐	W060	☐	☐	☐	W093	☐	☐	☐
W034	☐	☐	☐	W061	☐	☐	☐	W094	☐	☐	☐
W035	☐	☐	☐	W062	☐	☐	☐	W095	☐	☐	☐
W036	☐	☐	☐	W063	☐	☐	☐	W096	☐	☐	☐
W037	☐	☐	☐	W064	☐	☐	☐	W097	☐	☐	☐
W038	☐	☐	☐	W065	☐	☐	☐	W098	☐	☐	☐
W039	☐	☐	☐	W066	☐	☐	☐	W099	☐	☐	☐

Statements:

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HAZARDOUS MATERIALS FACILITY INSPECTION NOTES

Facility Type: ✓ OBP ✓ OWG OTP OUST OAST OREINSPECTION | Page 1 of 3

Inspection Date: 3.17.2004 | Facility ID #: FA 0007014 | Specialist: Norman

Facility Name: Sacramento Yolo Mosquito & Vector Control District

Address: 8631 Bond Rd Elk Grove CA 95624

Name(s) of Hazardous Materials Observed	Amount	Building / Tank # / Location	Check if... Inventory Change	Check if... AHM
gear lube	4x16g	shop		
hydraulic oil	4x16g	↓		
acetylene gas	35 ft³ x 107 ft³			
argon-CO2 gas 75|25	unknown lg cylinder			
oxygen gas	281 ft³			
argon gas	336 ft³	↓		
diesel fuel	1000 g	AST		
gas	1000 g	AST		
Golden bear 11-11 pesticide	6000 g	AST	✓	
Shell rotella oil	55g	shop		
black pearl grease	27 - 40 gal	↓		
Vectolex larvicide granular	7 500 lbs	pest. bay	✓	
Vectobac " "	7 500 lbs	↓	✓	
Vectobac liquid 2½ gal ea.	7 55 gal		✓	
altosid solid	7 500 lbs	↓	✓	

Check	Fire Ext.	First aid	Labels	Absorb.	Electrical	Trash	MSDS'	HMP	Training	Disposal records	EPA ID #	Owner info
Yes	Hood ✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
No												

Other:

Renewal - incomplete owner page

Map - missing neighbors, hazmats, first aid, MSDS

CP - containment section incomplete

training - not keeping records updated

MORE HM STORAGE on page 3

HAZARDOUS MATERIALS FACILITY INSPECTION NOTE continued

Facility ID #: FA 000 7014 | Page 2 of 3

EPA ID #: CAL 000 019 907 | (✓) status: ○CESQG | ⊘SQG | ○LQG

Hazardous Waste(s) observed	Bldg/loc	On-site	In Month	In Year	Inv. Item (✓)
Waste oil 15gal X2	AST	500 g			
waste antifreeze		55g			
brake grindings		1 gal			
Sandblaster new		not used			
chem free parts washer		~7 gal			
filters		30 gal X2			
brake cleaning machine		7 gal			
pesticide absorbent waste		30 gal X2			

DISPOSAL RECORDS

HAULER NAME & EPA ID #	WASTE	Date	Amount	Date	Amount	Date	Amount
Perez & Sons	solids w/ pesticide traces	12-2-03	18 yds	12-2-03	18 yds	12-2-03	18 yds
CAT 000 646 117		12-2-03	6x18 yds				
Evergreen Environmental	used antifreeze	9-25-03	30 gal	4-1-03	25g	3-29-02	30 g
CAD 982 413 262		9-17-01	30 g	3-6-01	20 g	9-16-02	30 g
	used oil	9-21-03	200 g	3-12-03	150 g	3-25-02	100 g
		8-30-99	500 g	8-25-00	150 g	9-23-02	250 g
	oil filters	1-7-03	1 1B #s	9-16-02	1 1B #s	5-30-02	1 1B #s
Safety Kleen	brake cleaner - Aqui	2-18-04	4g	6-11-03	4g	2-6-03	1g
TXR 000 050 930	(18 week term)	9-27-02	4g	5-29-02	4g		
	brake shavings	5-20-03	5 gal				
	absorbent (24 week term)	no receipts, only service order					

Additional Notes:

chem free analogicals
spec
need HMP mail-out

HAZARDOUS MATERIALS FACILITY INSPECTION NOTES, continued

Facility ID #: FA0001014 |

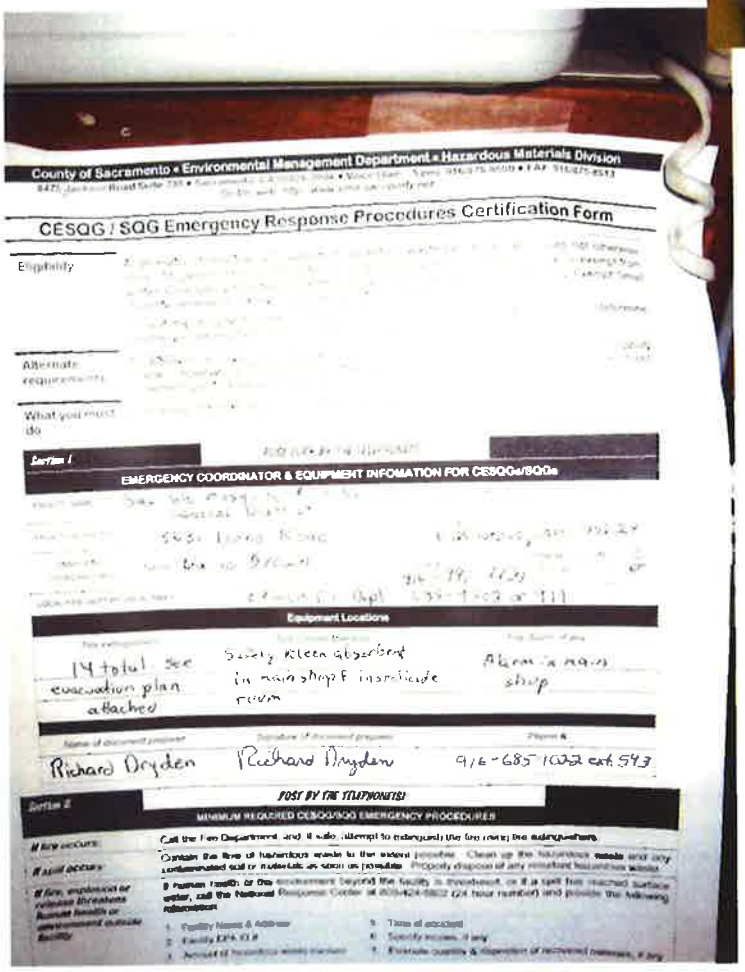
ADDITIONAL HAZARDOUS MATERIALS STORAGE NOTES

Name(s) of Hazardous Materials Observed	Amount	Building / Tank # / Location	Check if... Inventory Change	Check if... AHM
Scourge pesticide	7 600 #s	pest. bay	✓	
pyrocide	30 gal x 24	↓	✓	
trumpet	30 gal x 3		✓	
pyrethrin	30 gal		✓	
Klearol	55 gal		✓	
pro flush	2½ gal x 18		✓	
propane	5 gal x 65		✓	
Carbon dioxide gas	7 200 ft3	lab	✓	
refrigerated nitrogen (liq.)	3630 ft3	lab	✓	

Compliance Document for FA#:	Date received:	Insp Date
FA# 7014	4-16-2004	3-17-2004

Re: PPT

Re: W044



County of Sacramento • Environmental Management Department • Hazardous Materials Division

CESQG / SQG Emergency Response Procedures Certification Form

Eligibility

Alternate requirements

What you must do

Section 1

EMERGENCY COORDINATOR & EQUIPMENT INFOMATION FOR CESQGs/SQGs

Equipment Locations

14 total See evacuation plan attached

Safety Kleen absorbent in main shop & insecticide room

Alarm in main shop

Name of Emergency Coordinator	Signature of Emergency Coordinator	Phone #
Richard Dryden	Richard Dryden	916-685-1022 ext. 543

Section 2

POST BY THE TELEPHONE(S)

MINIMUM REQUIRED CESQG/SQG EMERGENCY PROCEDURES

If fire occurs:

If spill occurs:

If fire, explosion or release threatens human health or environment outside facility:

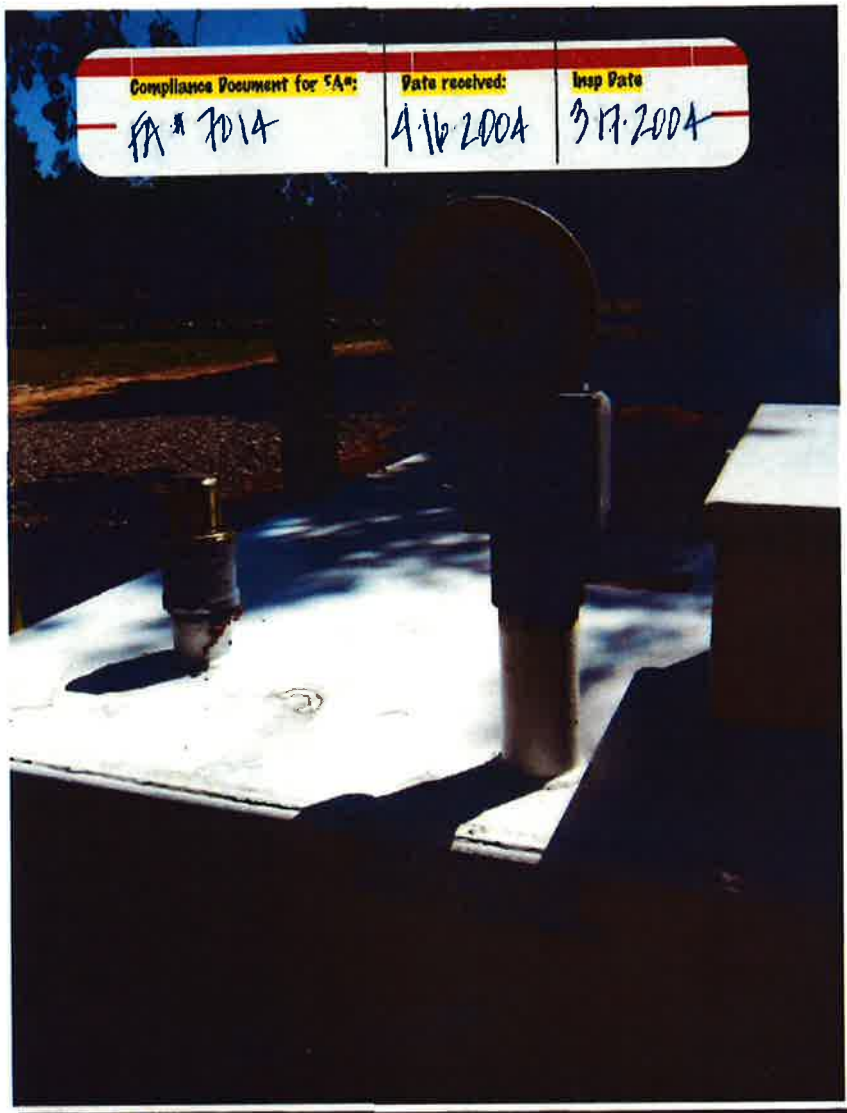
Call the Fire Department and if safe, attempt to extinguish the fire using the extinguishers.

Contain the flow of hazardous waste to the extent possible. Clean up the hazardous waste and any contaminated soil or material as soon as possible. Properly dispose of any resulting hazardous waste.

If human health or the environment beyond the facility is threatened, or if a spill has reached surface water, call the National Response Center at 800-424-8802 (24 hour number) and provide the following information:

1. Facility Name & Address
2. Facility EPA ID #
3. Amount of hazardous waste involved
4. Time of accident
5. Specific injuries, if any
6. Potential quantity & direction of hazardous materials, if any

Re: W024

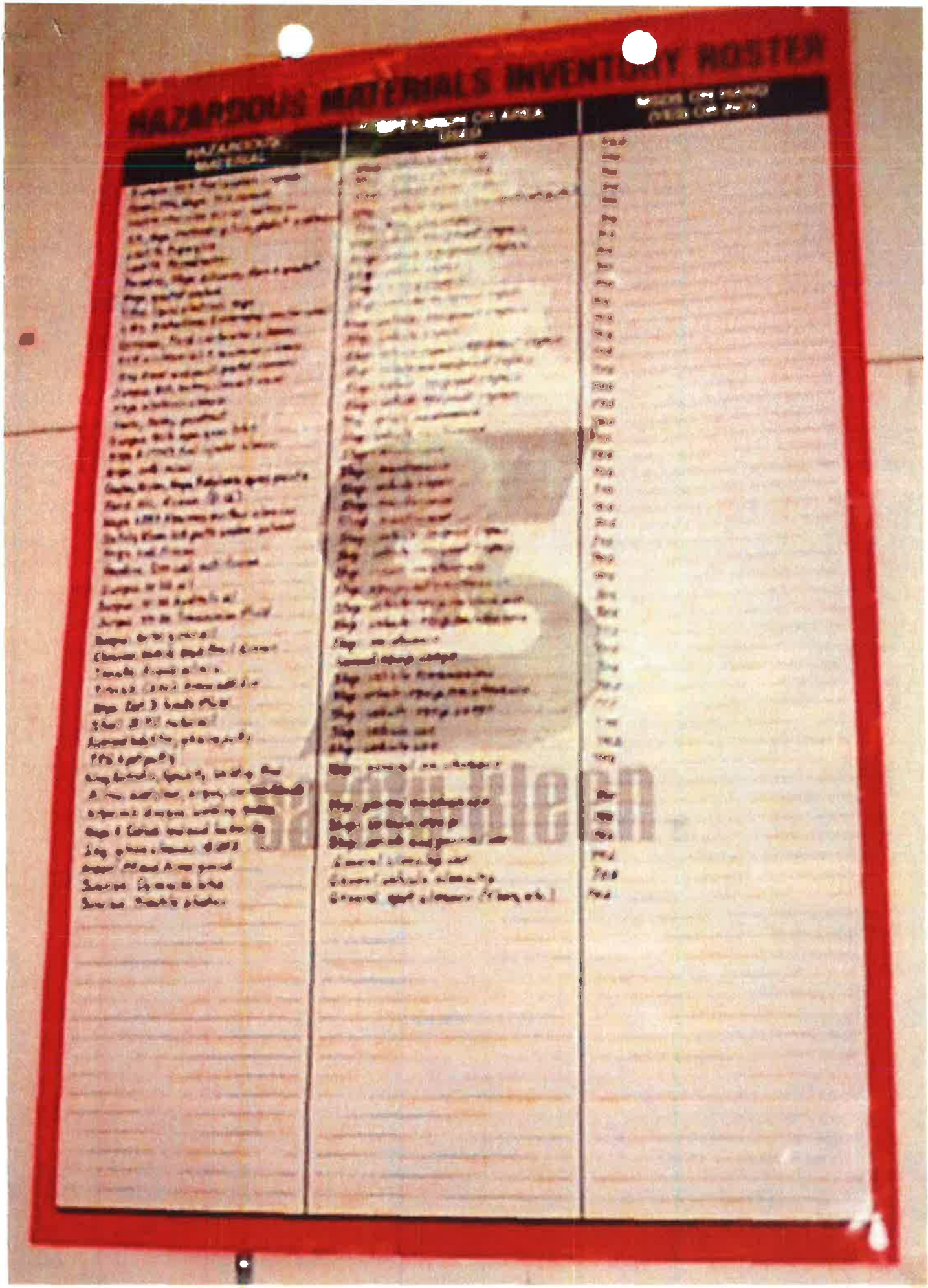

Compliance Document for SA#:
FA # 7014
Date received:
4-16-2004
Insp Date
3-17-2004

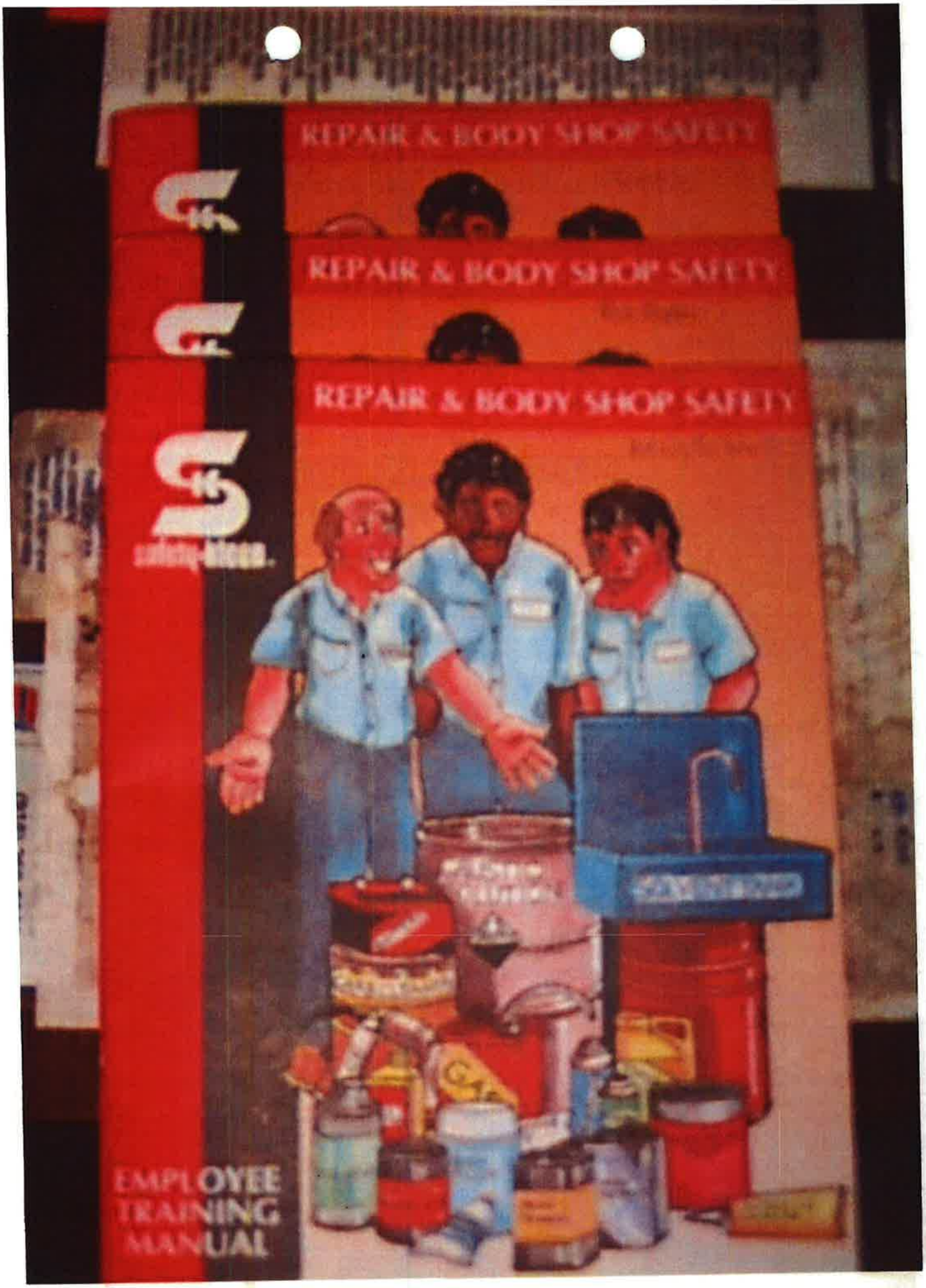

FIRST AID
When You're First on the Scene
HAND SAFETY
CARPAL TUNNEL
HAZARD COMMUNICATION
A Guide to
Skin Safety

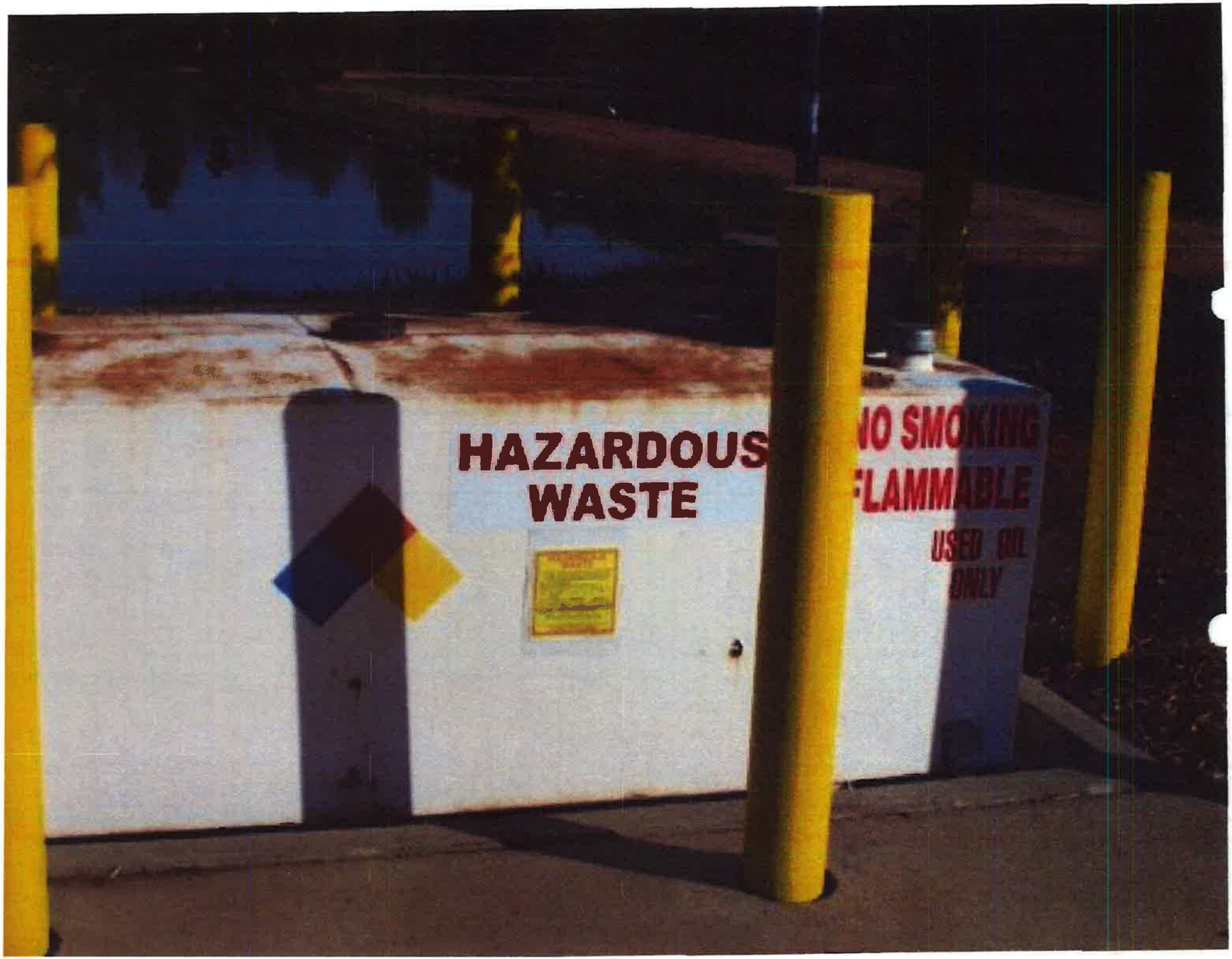
Re: HM 11


HOW TO USE A MATERIAL SAFETY DATA SHEET

HAZARDOUS MATERIAL REFERENCE CHART


HAZARDOUS MATERIALS INVENTORY ROSTER
HAZARDOUS MATERIAL


REPAIR & BODY SHOP SAFETY
REPAIR & BODY SHOP SAFETY
REPAIR & BODY SHOP SAFETY
EMPLOYEE
TRAINING
MANUAL


HAZARDOUS
WASTE
NO SMOKING
FLAMMABLE
USED OIL
ONLY


HAZARDOUS
WASTE


USED
ANTI
FREE
WASTE


EMPTY
DAILY
HAZARDOUS
WASTE

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY. OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES

GENERATOR INFORMATION

NAME SAC-YOLO MOSQUITO AND VECTOR CONTROL DISTRICT

ADDRESS 8631 BOND ROAD PHONE 916-685-1022

CITY ELK GROVE STATE CA ZIP 95624

EPA ID. NO. / MANIFEST DOCUMENT NO. CAL000049907 / 9873817

EPA WASTE NO. CAL000049907 CA WASTE NO. CA221 ACCUMULATION START DATE 9-1-99

CONTENTS, COMPOSITION: Highly refined petroleum oil - zinc compound - drum residue - heavy paraffinic distillate - heavy paraffinic distillate - hydrotreated residual oil

PHYSICAL STATE: ☐ SOLID ☑ LIQUID

HAZARDOUS PROPERTIES: ☑ FLAMMABLE ☐ TOXIC ☐ CORROSIVE ☐ REACTIVITY ☐ OTHER

Not hazardous by D.O.T. Regulations

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY. OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES

GENERATOR INFORMATION

NAME SAC-YOLO MOSQUITO AND VECTOR CONTROL DISTRICT

ADDRESS 8631 BOND ROAD PHONE 916-685-1022

CITY ELK GROVE STATE CA ZIP 95624

EPA ID. NO. / MANIFEST DOCUMENT NO. CAL000049907 / 9873817

EPA WASTE NO. CAL000049907 CA WASTE NO. CA221 ACCUMULATION START DATE 10-25-99

CONTENTS, COMPOSITION: Highly refined petroleum oil - zinc compound - dewaxed heavy paraffinic base distillate - heavy paraffinic distillate - hydrotreated

PHYSICAL STATE: ☐ SOLID ☑ LIQUID

HAZARDOUS PROPERTIES: ☑ FLAMMABLE ☐ TOXIC ☐ CORROSIVE ☐ REACTIVITY ☐ OTHER

Not hazardous by D.O.T. Regulations

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY. OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES

GENERATOR INFORMATION

NAME SAC-YOLO MOSQUITO AND VECTOR CONTROL DISTRICT

ADDRESS 8631 BOND ROAD PHONE 916-685-1022

CITY ELK GROVE STATE CA ZIP 95624

EPA ID. NO. / MANIFEST DOCUMENT NO. CAL000049907 / 97482674

EPA WASTE NO. CAL000049907 CA WASTE NO. CA134 ACCUMULATION START DATE 2-17-97

CONTENTS, COMPOSITION: Ethylene glycol - diethylene glycol - water - inorganic - organic salts

PHYSICAL STATE: ☐ SOLID ☑ LIQUID | HAZARDOUS PROPERTIES: ☑ FLAMMABLE ☑ TOXIC ☐ CORROSIVE ☐ REACTIVITY ☐ OTHER

Not hazardous by D.O.T. Regulations

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!

SACRAMENTO-YOLO
MOSQUITO
& VECTOR
CONTROL
DISTRICT

Compliance Document for FA#:	Date received:	Insp Date
— FA # 7014	4-16-2004	3-17-2004

8631
Bond Road
Elk Grove,
California
95624-1477
Telephone
916.685.1022
Fax
916.685.5464

www.sac-yolomvcd.com

Aimee Norman, REHS
Environmental Specialist-Hazardous Materials Division
8475 Jackson Road, Suite 230
Sacramento, CA 95826

RECEIVED
APR 14 2004
ENVIRONMENTAL MANAGEMENT DEPT
HAZARDOUS MATERIALS DIVISION

This letter is to address the notice to comply from the Environmental Management Department (EMD) Hazardous Materials Division (HMD) dated 03/17/04. There were eight issues that needed to be rectified in order for the Sacramento Yolo Mosquito & Vector Control District (SYMVCD) to be in full compliance with EMD.

1. *No permit for hazardous materials storage.* SYMVCD is in the process of completing the application process and will subsequently be billed for approximately $966 for permit fees. SYMVCD expects to have this task completed by the end of May.

2. *Submit a complete Hazardous Materials Plan.* SYMVCD is currently completing this form and will submit to your office before the due date of May 21, 2004.

3. *Submit written documentation of hazardous materials training for shop employees, lab employees using liquid nitrogen, and pesticide handlers.* SYMVCD completed a comprehensive hazardous materials training for all employees on April 12, 2004. A representative copy is attached.

4. *Submit Spill Prevention Control and Countermeasure Plan signed by a professional engineer.* SYMVCD has contacted David Ceccareli with the State Resources Water Control Board to identify the steps required to fulfill this requirement. SYMVCD will complete this task in a timely manner and inform Aimee Norman of progress as needed.

5. *Submit an action plan regarding the disposal of "Ozzymat filters" from our maintenance shop.* SYMVCD sent a filter to be tested to California Laboratory Services (CLS) on April 1, 2004. A copy of the results are attached. The TTLC results showed that the levels for copper and lead were the only metals that exceeded the STLC limits for hazardous waste. SYMVCD will have the filters retested using the STLC method for copper and lead to ensure that the filter is non hazardous. All results and progress will be reported in a timely manner to Aimee Norman.

6. *Post required information regarding emergency coordinator and equipment.* SYMVCD has completed the CESQG/SQG Emergency Response Procedures Certification Form and posted it above the phone in the shop office. A picture of the completed form is attached.

SACRAMENTO-YOLO
MOSQUITO
& VECTOR
CONTROL
DISTRICT

April 14, 200

8631
Bond Road
Elk Grove,
California
95624-1477
Telephone
916.685.1022
Fax
916.685.5464
www.sac-yolomved.com

7. *Above Ground Storage Tank (AST) not marked with accumulation start date.* SYMVCD has remedied this situation and submitted a photograph for documentation.

8. *Submit statement defining the AST spill prevention mechanism and overfill prevention controls.* SYMVCD has contacted Lube Air Systems to address this issue. Lube Air has installed a overfill alarm system that sounds a 122 decibel siren when the tank level is within six inches of the tank top. They have confirmed that our AST is properly equipped with an emergency vent, atmospheric vent, two overfill/spill prevention boxes , and identification signs and placards. A copy of their letter with this confirmation is attached.

The goal of the SYMVCD is to be in complete compliance with any regulatory agency. We pride ourselves in following all regulations and look forward to fostering a positive relationship with HMD in the future. If there are any questions or comments regarding our response to the notice to comply, please feel free to call me at 685-1022 ext 506. Thank you for your time and effort in resolving this matter.

Sincerely,

Gary Goodman

HAZARDOUS MATERIALS TRAINING RECORD

2004

Compliance Document for FA#:	Date received:	Insp Date
— FA # 701A	4.16.2004	3.17.2004

EMPLOYEE NAME: Ken Boyce EMPLOYEE #: —

TRAINING DATE: 4/13/04 TRAINING LOCATION: Bond Road

EMPLOYEE'S JOB CLASSIFICATIION: Control Operations:☐ Fisheries:☐ Laboratory:☒ Maintenance:☐

RECEIVED
APR 14 2004
ENVIRONMENTAL MANAGEMENT DEPT.
HAZARDOUS MATERIALS DIVISION

GENERAL TRAINING

Training Category	Employee Initials	Trainer Initials
Hazard Communication Plan 1. MSDSs (location, information) 2. labeling secondary containers 3. Employee information 4. Training 5. Hazardous materials inventory	KB	KB
Emergency Procedures and District Contingency Plan (decontaminate, alert facility personnel, evacuate)		
What makes a material hazardous?		
What routes chemicals take to enter your body?		
What information is on a label.(chemical, hazard rating, special instructions, PPE, and first aid)		
Other sources of information (contingency plan, SOPs, manual instructions)		
Personal Protective Equipment: safety glasses, goggles, gloves, rubber boots, protective suits, respirators		
Steps to take before using hazardous materials		
Step to take when exposed to chemicals (decontaminate skin and eyes)		
What to do when a spill occurs (risk assessment, containment, stop the source, disposal of used material)		
Safety showers and eye wash stations (types and location)		
Washing after handling chemicals with soap and water		
Wear clean work clothes daily		
Engineering Controls (fume hoods, etc.)		
Spill Kits (types and location)		
Location of Hazardous Materials in the Workplace		
Disposal of hazardous waste (types and location)	✓	✓
Location of Basic First Aid		

EMPLOYEE'S Signature : Ken Boyce DATE: 4/13/04

TRAINER'S Signature : Ken Boyce DATE: 4/13/04

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

April 08, 2004

CLS Work Order #: CND0011
COC #: None

Nicole Blackman
ChemFree Corporation
8 Meca Way
Norcross, Ga 30093

Project Name: OM - Parts Center

Enclosed are the results of analyses for samples received by the laboratory on 04/01/04 10:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

California Laboratory Services

Compliance Document for FA#:	Date received:	Insp Date
— FA# 7014	4/1/2004	3/31/2004

04/08/04 11:40

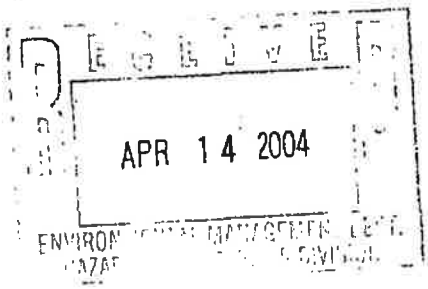
ChemFree Corporation
8 Meca Way
Norcross, Ga 30093

Project: OM - Parts Center
Project Number: [none]
Project Manager: Nicole Blackman

CLS Work Order #: CND0011
COC #: None

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OzzyMat (CND0011-01) Filter	**Sampled: 04/01/04 08:25**	**Received: 04/01/04 10:00**							
Arsenic	ND	1.0	mg/kg	4	CN02649	04/02/04	04/05/04	EPA 7000	
Selenium	ND	0.25	"	1	"	"	"	"	
Thallium	ND	0.25	"	"	"	"	"	"	
Antimony	7.4	2.5	"	"	CN02650	04/02/04	04/02/04	EPA 6010B	
Barium	8.7	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	ND	1.0	"	"	"	"	"	"	
Chromium	4.7	1.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	4.5	2.5	"	"	"	"	"	"	
Molybdenum	1.4	1.0	"	"	"	"	"	"	
Nickel	59	1.0	"	"	"	"	"	"	
Silver	0.67	0.50	"	"	"	"	"	"	
Vanadium	ND	1.0	"	"	"	"	"	"	
Zinc	120	1.0	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CN02722	04/05/04	04/07/04	EPA 7471	



CALIFORNIA LABORATORY SERVICES

04/08/04 11:40

ChemFree Corporation 8 Meca Way Norcross, Ga 30093	Project: OM - Parts Center Project Number: [none] Project Manager: Nicole Blackman	CLS Work Order #: CND0011 COC #: None

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

LUBE AIR SYSTEMS

LUBRICATION SPECIALISTS

100 Foley Ave.
SANTA ROSA, CA. 95401
(707) 573-3033
FAX (707) 573-3087

Sacramento -Yolo Mosquito & Vector Control District
8631 Bond Rd
Elk Grove, Ca 95624
Attn: Richard Dryden

Compliance Document for FA#:	Date received:	Insp Date
— FA# 7014	4-16-2004	3-17-2004

Ref: waste oil tank

On March 24, 2004 I inspected your 500 gallon waste oil tank as per your request to answer questions raised about it by Sacramento Environmental Management Dept. The specific questions were about the existence of a high level alarm and the existence of spill prevention mechanisms.

The tank is a single wall 500 gallon waste oil tank in apparently good condition. The tank is properly equipped with an emergency vent, atmospheric vent, two overfill / spill prevention boxes. and identification signs and placards. At the time of the first inspection on March 24,2004 there was no overfill alarm system. On March 30,2004 we installed a B.J. Enterprises model TM-1 high level alarm unit. This will sound a 122 decibel siren when the tank level is within 6" of the tank top, leaving approximately 20% of the volume for safety. With the addition of this alarm, this tank should meet all known current standards.

Sincerely

Tim Norris
President

LUBE AIR SYSTEMS
100 FOLEY STREET
SANTA ROSA, CA 95401
TELEPHONE (707) 573-3033
FAX (707) 573-3087
Lubrication equipment: Sales, Service and Installation

04/01/2004 Page: 1

INVOICE 99048488

2980

SOLD TO
SACRAMENTO-YOLO MOSQUITO VECTOR
8631 BOND RD
ELK GROVE
CA 95624

SHIP TO
SACRAMENTO-YOLO MOSQUITO CONTROL
8631 BOND RD
ELK GROVE
CA 95624
ATTN: Rich Dryden

CUSTOMER PURCHASE ORDER	TERMS	SHIP VIA	SHIP MODE	REP.
2034 RICH DRYDEN	NET 30	TIM	DELIVER	2

ITEM	CAT	MFR. / PART NO. / DESCRIPTION / SIZE	ORDERED	BACKORDER	SHIPPED	UNIT	UNIT PRICE	AMOUNT
50	LUBE AIR SYSTEMS	LABOR-FIELD / LABOR OUTSIDE OF SHOP /	1.0	0.0	1.0	JOB	250.000	250.00
60	LUBE AIR SYSTEMS	INSTALLATION MATRLS / MISC INSTALLATION MATERIALS /	1.0	0.0	1.0	LOT	10.000	10.00
40	B.J. ENTERPRISES, INC.	TM I SENTERY / TANK MONITOR, BATTERY OPERATED /	1.0	0.0	1.0	EA	274.800	274.80
40	SCULLY SIGNAL	SCULLY S/S 36" / GOLDEN GAL. 36" GAUGE /	1.0	0.0	1.0	EA	99.250	99.25

Reference Order Number: 40842
INSTALL NEW TM1 & GAUGE. WRITE LETTER
No returns or adjustments without invoice.
PLEASE PAY FROM THIS INVOICE. No statement will be sent.

SACRAMENTO

X _____
RECEIVED BY

INVOICE SUBTOTAL:	$634.05
Sales tax at 7.7500 %:	29.77
Freight:	0.00
INVOICE TOTAL:	$663.82

A SERVICE CHARGE OF 1.5% PER MONTH, $.50 MIN., WILL BE CHARGED ON ALL PAST DUE ACCOUNTS.

Analysis Report: CAM Metals, EPA Methods 6010/7000

Client: ChemFree Corporation
8 Meca Way
Norcross, Ga 30093

Project:

Date Sampled: 09/10/2001
Date Received: 10/12/2001
Date Extracted: 10/16/2001
Date Analyzed: 10/16/2001
Date Reported: 10/24/2001
Client ID No.: 091001-01

Project No.:
Contact: Onofre Ortiz
Phone: (770)564-5580

Lab Contact: James Liang
Lab ID No.: I2338-1A
Job No.: 842338
COC Log No.: NO NUMBER
Batch No.: M011016A
Instrument ID: INMIX
Analyst ID: SCOTTF
Matrix: FILTER

Compliance Document for FA#:	Date received:	Insp Date
FA 0007014	3/7/2004	3/7/2004

091001-01

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method	Dilution (factor)
Ag (Silver)	7440224	3.4	1.0	6010	1.0
As (Arsenic)	7440382	ND	0.25	7060	1.0
* Ba (Barium)	7440393	200*	1.0	6010	1.0
Be (Beryllium)	7440417	ND	0.25	6010	1.0
✓ Cd (Cadmium)	7440439	25	0.50	6010	1.0
Co (Cobalt)	7440484	4.0	1.0	6010	1.0
✓ Cr (Chromium)	7440473	69	1.0	6010	1.0
* Cu (Copper)	7440508	150*	1.0	6010	1.0
Hg (Mercury)	7439976	ND	0.10	7471	1.0
* Mo (Molybdenum)	7439987	960*	1.0	6010	1.0
Ni (Nickel)	7440020	17	1.0	6010	1.0
✓ Pb (Lead)	7439921	290	2.5	6010	1.0
* Sb (Antimony)	7440360	78*	2.5	6010	1.0
Se (Selenium)	7783008	ND	0.25	7740	1.0
Tl (Thallium)	7440280	ND	0.25	7841	1.0
V (Vanadium)	7440622	12	1.0	6010	1.0
* Zn (Zinc)	7440666	380*	1.0	6010	1.0

ND = Not detected at or above indicated Reporting Limit

CA DOHS ELAP Accreditation/Registration Number 1233

ChemFree®

ChemFree Corporation

8 Meca Way
Norcross, GA 30093

Tel 770/564-5580
Fax 770/564-5533
www.chemfree.com

September 10, 2001

Test results for
Chemfree ozzy mat
Can be thrown in dumpsters.

Mr. Tom Arundel
NAPA
Woodland, CA 95695
916-838-2070 Ph
530-666-4262 Fax

Mr. Arundel:

Enclosed the chain of custody for the OzzyMat™ that is to be tested under the Total Threshold Limit Concentration (TTLC) 17 CAM Metals. Please sign, date, and relinquish the sample were indicated by an asterisk.

Remove filter from SmartWasher and wring excessive fluid back into the machine. Place filter in enclosed ziplock bag. Make sure bag is zipped securely. Include chain of custody in the shipment.

Send sample to:

Mr. James Liang
CLS Laboratory
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Tel. 916-638-7301
Fax 916-638-4510

If you have any questions, feel free to reach me at 770-564-5593.

Sincerely;

Onofre Ortiz
Chemist
ChemFree Corporation

ENT CONTACT: Phoebe Ortiz
770-564-5593 Ph
770-564-5533 FAX

CHAIN OF CUSTODY RECORD

ChemFree Corporation
8 Mesa Way, Norcross, Ga. 30093
(770) 564-5680 Fax: (770) 564-5633

Lab Contact: James Ling
CLS Labs
Ed 916-638-7301

08/10/01 MON 14:03 FAX 770 564 5533 CHEMFREE CORPORATION 002

CLIENT NAME	# OF CONTAINERS	PROJECT NO.	PROJECT NAME	LAB ID	PURCHASE ORDER NO.
ChemFree Corporation					FOR LAB USE ONLY
CLIENT ADDRESS AND PHONE NUMBER: 770-564-5593			ANALYSES REQUESTED: TTLC 17 CAM Metals		LAB #
PROJECT MANAGER					PROJECT NO.
COPY TO (if applicable): Tom McNally					ACK / VERIFIED
REQUESTED COMPLETION DATE					QUOTE # / BS
SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐					NO. OF SAMPLE / PO / OF

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	REMARKS/ADDITIONAL INFORMATION
091001-01	9/10/01					Ozzy Mat NAPA, CA	Normal TAT

SAMPLED BY AND TITLE: Tom Arundel (NTO PM)	DATE/TIME: 10-11-01	RELINQUISHED BY:	DATE/TIME:
RECEIVED BY: Pineda	DATE/TIME: 10/12/01 8:45	RELINQUISHED BY:	DATE/TIME:
RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:
RECEIVED BY:	DATE/TIME:	SAMPLE SHIPPED VIA: UPS BUS FEDX HAND OTHER	AIRBILL #

HAZWRAP/NEESA: Y / N
QC LEVEL: 1 2 3
COC / ICE
ANA REQ / TEMP
CUST SEAL / PH
SAMLE COND.

ENTERED INTO LIMS / COC REVIEWD

ChemFree Corporation 8 Meca Way * Norcross, Georgia 30093 * Tel (770) 564-5580 * Fax (770) 564-5533

FAX

Date:	October 30, 2001
Number of pages including cover sheet:	3

To:	**Mr. Tom Arundel**	**FROM:**	**Onofre Ortiz**
	NAPA		ChemFree Corporation
CC:	**Woodland, CA**		8 Meca Way
			Norcross, GA 30093
Phone:	**916-838-2070**	**Phone:**	1-800-521-7182 Pvt 770-564-5593
Fax:	**530-666-4262**	**Fax:**	770-564-5533

REMARKS: ☐ Urgent ☒ For your review ☐ Reply ASAP ☐ Please comment

Tom:

Enclosed the TTLC Test results for the OzzyMat from one of your customers. Also the Table of California Regulatory Limits so you can compare the results obtained with the TTLC section on the table.

As you can see, all results are below regulatory limits indicating that the OzzyMat **is not** hazardous and **does not need** to be treated as hazardous solid.

If you have any questions, feel free to reach me.

Sincerely;

Onofre Ortiz

FA0007014

Notify the Environmental Management Department of any change of ownership, type of business activity, business name, or billing address by calling 916-875-8550. Failure to notify Environmental Management may result in late penalties, Permit denial or revocation, and business closure. PERMITS TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s) prior to beginning operation.

YOUR PERMIT MUST BE RETAINED ON THE PREMISES

ATTN: JAMES CLAUSON
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
8475 JACKSON RD STE 230
SACRAMENTO CA 95826
(916) 875-8550

REGULATED FACILITY :

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 5/19/2004

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

5206 HAZARDOUS MATLS DISCLOSURE FEE 10+MATLS
VALID FROM MAY 20, 2004 TO MAY 20, 2005

5324 SMALL QUANTITY HAZ WG
VALID FROM MAY 20, 2004 TO MAY 20, 2005

5440 ABOVE GROUND STORAGE TANK AST
VALID FROM MAY 20, 2004 TO MAY 20, 2005

Permits to operate and Annual Fee Payments are NOT TRANSFERABLE. Those referenced above are valid ONLY for this owner SACRAMENTO/YOLO MVCD. Permits become VOID on change of ownership. New owners must apply and pay for a new Permit(s) PRIOR to beginning operation or penalties will be assessed.

COUNTY OF SACRAMENTO

Environmental Management Department

Mel Knight, Director

Richard Sanchez, Chief
Environmental Health
Dennis Green, Chief
Hazardous Materials
Cecilia Jensen, Chief
Water Protection

June 15, 2004

JAMES CLAUSON
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

FA0007014
EN0002110

NOTICE OF FAILURE TO RETURN TO COMPLIANCE

PREVIOUS NOTICE GIVEN

On **3/17/2004** your facility received a regulatory compliance inspection by the Sacramento County Environmental Management Department. At that time, your facility was noted to have one or more violations of hazardous materials, hazardous waste or underground storage tank laws and/or regulations.

As a result of that inspection, you received a **Notice To Comply and Return To Compliance Statement** requiring that you submit to our Department proof of your compliance within 35 days of your inspection. Currently, our records indicate that you have not demonstrated to us that the required corrective actions have been satisfactorily completed within the stated deadline(s).

YOU ARE NOW SUBJECT TO RE-INSPECTION

Be advised that failure to complete the listed corrective actions and/or submit evidence of such to our Department may result in a re-inspection being performed at your facility. **You will be liable for the cost of this re-inspection.**

POSSIBLE ENFORCEMENT ACTION

In addition, if the re-inspection reveals uncorrected violations, you may be subject to **enforcement action resulting in fines and/or other penalties.**

WHAT YOU MUST DO

In order to avoid a re-inspection, you must provide appropriate evidence documenting that noted corrections have been completed, along with a signed Return to Compliance Statement, **within 20 calendar days of the date of this letter**. This information should be sent to the Environmental Specialist listed on your inspection report.

QUESTIONS?

If you have already provided the requested evidence or have additional questions regarding your inspection or compliance requirements, please contact either Anthony Chu at (916) 875-8405 or Elise Rothschild at (916) 875-8473.

GARY GOODMAN
405-2056

8631
Bond Road
Elk Grove,
California
95624-1477
Telephone
916.685.1022
Fax
916.685.5464
Toll Free
800.429.1022
Web
www.sac-yolomvcd.com

SACRAMENTO-YOLO
MOSQUITO
& VECTOR
CONTROL
DISTRICT

Compliance Document for FA#:	Date received:	Insp date:
7014	7-6-04	3-17-04

RECEIVED
JUL - 6 2004
ENVIRONMENTAL MANAGEMENT DEPT.
HAZARDOUS MATERIALS DIVISION

8631
Bond Road
Elk Grove,
California
95624-1477
Telephone
916.685.102
Fax
916.685.54

Aimee Norman, REHS
Environmental Specialist-Hazardous Materials Division
8475 Jackson Road, Suite 230
Sacramento, CA 95826

This letter is to address the notice to comply from the Environmental Management Department (EMD) Hazardous Materials Division (HMD) dated 06/15/04. The SYMVCD has included the additional hazardous material inventory sheets as requested. There were three items that did not meet reporting quantities. These items are Scourge (7 gallons), Pro Flush (30 gallons), and Klearol (8 gallons). The other issue still open is for SYMVCD to Submit a Spill Prevention Control and Countermeasure Plan signed by a professional engineer. SYMVCD has contacted David Ceccareli with the State Resources Water Control Board to identify the steps required to fulfill this requirement. SYMVCD will complete this task in a timely manner and inform Aimee Norman of progress as needed.

The goal of the SYMVCD is to be in complete compliance with any regulatory agency. We pride ourselves in following all regulations and look forward to fostering a positive relationship with HMD in the future. If there are any questions or comments regarding our response to the notice to comply, please feel free to call me at 685-1022 ext 5060. Thank you for your time and effort in resolving this matter.

Sincerely,

Gary Goodman

FA0007014

Notify the Environmental Management Department of any change of ownership, type of business activity, business name, or billing address by calling 916-875-8550. Failure to notify Environmental Management may result in late penalties, Permit denial or revocation, and business closure. PERMITS TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s) prior to beginning operation.

YOUR PERMIT MUST BE RETAINED ON THE PREMISES

ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
8475 JACKSON RD STE 230
SACRAMENTO CA 95826
(916) 875-8550

REGULATED FACILITY :

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 8/27/2004

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

5206 HAZARDOUS MATLS DISCLOSURE FEE 10+MATLS
VALID FROM AUGUST 26, 2004 TO AUGUST 26, 2005

5306 HAZARDOUS WASTE GENERATOR FEE 200-1200 GALLON
VALID FROM AUGUST 26, 2004 TO AUGUST 26, 2005

5324 SMALL QUANTITY HAZ WG
VALID FROM AUGUST 26, 2004 TO AUGUST 26, 2005

5440 ABOVE GROUND STORAGE TANK AST
VALID FROM AUGUST 26, 2004 TO AUGUST 26, 2005

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8631 BOND RD
ELK GROVE CA 95624

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
8475 JACKSON RD STE 230
SACRAMENTO CA 95826
(916) 875-8550

REGULATED FACILITY :

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 8/26/2005

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10+MATLS
VALID FROM AUGUST 25, 2005 TO AUGUST 25, 2006

PR0027123 5306 HAZARDOUS WASTE GENERATOR FEE 200-1200 GALLON
VALID FROM AUGUST 25, 2005 TO AUGUST 25, 2006

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM AUGUST 25, 2005 TO AUGUST 25, 2006

PR0043138 5440 ABOVE GROUND STORAGE TANK AST
VALID FROM AUGUST 25, 2005 TO AUGUST 25, 2006

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YOUR PERMIT MUST BE RETAINED ON THE PREMISES

ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
8475 JACKSON RD STE 230
SACRAMENTO CA 95826
(916) 875-8550

REGULATED FACILITY :

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 8/25/2006

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10+MATLS
VALID FROM AUGUST 25, 2006 TO AUGUST 25, 2007

PR0027123 5306 HAZARDOUS WASTE GENERATOR FEE 200-1200 GALLON
VALID FROM AUGUST 25, 2006 TO AUGUST 25, 2007

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM AUGUST 20, 2006 TO AUGUST 20, 2007

PR0043138 5440 ABOVE GROUND STORAGE TANK AST
VALID FROM AUGUST 20, 2006 TO AUGUST 20, 2007

Permits to operate and Annual Fee Payments are NOT TRANSFERABLE. Those referenced above are valid ONLY for this owner SACRAMENTO/YOLO MVCDPermits become VOID on change of ownership. New owners must apply and pay for a new Permit(s) PRIOR to beginning operation or penalties will be assessed.

County of Sacramento ● Environmental Management Department ● Hazardous Materials Division
8475 Jackson Road Suite 230 • Sacramento, CA 95826-3904 • Voice (8am – 5pm): 916/875-8550 • FAX: 916/875-8513
Internet Address: http://www.emd.saccounty.net

AC

NOTICE TO COMPLY

1. This **Notice to Comply** *Written Summary of Violations* is issued with a *Checklist Summary of Violations* for each inspection type.
2. Violations requiring priority corrective action are flagged in the red PCA (Priority Compliance Action) summary box on this form.
3. Unless otherwise noted on this Notice, corrective actions must be completed within **30 days**.
4. **You must return your fully completed & signed Return To Compliance Statement(s)** (found on the back of each *Checklist Summary of Violations*) **to HMD as follows:** ***within 14 days for PCAs and 35 days for other violations.***
5. A reinspection may occur at any time to verify correction of noted violations.
6. Correction of the following violations may not preclude enforcement action being taken against this facility.

INSPECTION TYPE: ☑BP ☑WG ☐TP ☐UST ☐AST ☐SW ☐UW ☐CALARP ☐REINSPECTION

INSPECTION DATE: 5-15-07 FACILITY ID#: 7014

DBA/FACILITY NAME: Sacramento / Yolo MVCD SITE PH #: (916) 685-1022

ADDRESS: 8631 Bond. Rd. CITY: Elk Grove ZIP: 95624

SPECIALIST: LISA Scott SPECIALIST PHONE#: (916) 875-6603 Page 1 of 1

By signing this document, I acknowledge that consent has been given to inspect this facility and I have been notified of the regulatory violations cited below. I understand that failure to return to compliance within the specified time frame could result in a reinspection of this facility with ~~an additional fee~~ and possible enforcement action including penalties.

RECEIVED BY: Signature: [signature] Print Name: GARY GOODMAN Title: ASSISTANT MANAGER

Priority Corrective Actions (PCA) noted in this box are required within 14 days or otherwise noted below.

No bold violations observed at this time.

HMD Violation Code:	Written Summary of Violations — Photos Taken ☐YES ☒NO
	No violations found at this time. All previous violations noted in the 3-17-04 inspection have been addressed and fixed.

DOC TYPE: INSPECTION REPORT: WHITE: HMD YELLOW: FACILITY

Checklist Summary of Violations for Business Plan / Hazardous Materials / Above Ground Storage Tanks

FACILITY ID#:	PR#:	SPECIALIST:	INSPECTION DATE:
7014	43139	Lisa Sravil	5-15-07

DBA/FACILITY NAME:	ADDRESS:
Sacramento - Yolo MVCD	8631 Bond. Rd. Elk Grove 95624

HAZARDOUS MATERIALS — Sept 6 2004

Instructions:

1. Violations summarized on this checklist are further denoted on the **Notice To Comply.** Violations require compliance within 30 days.
2. **Corrective action must be demonstrated with proof of compliance within 19 days for reinspections or priority violations or 35 days for all other violations** by completion & submission of the *Return To Compliance Statement* on the back of this checklist.

Facility status is evaluated for each item on this Checklist as follows:
C= Compliance V= Violation N/A= Not Applicable RV= Repeat Violation

Violation Code	Authority	Requirement	Facility Status C	V	N/A	RV
HM00	SCC 6.96.045	Has permit for hazardous materials storage.	☑	○	☐	○
HM01	19CCR 2729.2	Adequate submission / completion of Business Activities & Owner / Operator Identification Forms.	☑	○	☐	○
HM02	19CCR 2729.2	Adequate submission / completion of chemical inventory forms.	☑	○	☐	○
HM02A	19CCR 2729.4 - .5	Adequate submission / completion of the annual hazardous materials renewal plan.	☑	○	☐	○
HM02B	19CCR 2729.5	Annual submission of Business Activities & Owner / Operator Identification and chemical inventory forms when required by EPCRA (if storing >10,000 pounds of a hazardous material or an amount ≥ the TPQ or 500 lbs [whichever is less] for an extremely hazardous material).	☐	○	☑	○
HM03	19CCR 2729.2	Adequate submission / completion of site map.	☑	○	☐	○
HM04	CHSC 25504 & 25503.5	Adequate submission / completion / retention of written Consolidated Contingency Plan.	☑	○	☐	○
HM07	CHSC 25503.5	HMP is maintained on-site or is accessible.	☑	○	☐	○
HM10	CHSC 25504(c) & 19CCR 2732	Initial employee training program for hazardous materials/emergency response implemented and adequate.	☑	○	☐	○
HM11	CHSC 25504(c) & 19CCR 2732	Annual hazardous materials/emergency response refresher component of the employee training program implemented and adequate.	☑	○	☐	○
HM12	19CCR 2731(c)	MSDS (Material Safety Data Sheets) are accessible.	☑	○	☐	○
HM20	19CCR 2731(c)	Emergency shutoffs for chemical processes or equipment are labeled.	☑	○	☐	○
HM21	19CCR 2731(c)	Emergency equipment (such as fire extinguishers, spill prevention & alarm equipment) tested & maintained as necessary (e.g. fire extinguishers assessed annually).	☑	○	☐	○
HM22	19CCR 2731(c)	Adequate spill control and spill mitigation materials are available (e.g. absorbents, rags, or shop vac).	☑	○	☐	○
HM23	19CCR 2731(c)	Ability to protect against/prevent any unplanned release to air, soil or surface water as warranted (e.g. berms, secondary containment, drain covers, socks, etc...).	☑	○	☐	○
HM30	19CCR 2731(c)	Containers, tanks (fixed or portable) and totes are kept closed unless in use.	☑	○	☐	○
HM31	19CCR 2731(c)	Containers, tanks (fixed or portable) and totes are in good condition.	☑	○	☐	○
HM32	19CCR 2731(c)	Containers, tanks (fixed or portable) and totes stored in a manner to prevent rupture, leaking or structural deterioration.	☑	○	☐	○
HM33	19CCR 2731(c)	Containers, tanks (fixed or portable) and totes are compatible with contents.	☑	○	☐	○
HM34	19CCR 2731(c)	Containers, tanks (fixed or portable) and totes are properly labeled.	☑	○	☐	○
HM35	22 CCR 66261.7	Containers, tanks (fixed or portable) and totes are disposed of properly when empty.	☑	○	☐	○
HM40	19CCR 2731(c)	Minimal spills in storage area. All spills promptly addressed to prevent discharge to air, soil or surface water.	☑	○	☐	○
HM41	19CCR 2731(c)	Storage area is maintained to separate incompatible materials.	☑	○	☐	○
AST00	27CCR 15100(d)	Facility storing petroleum in eligible ASTs (total capacity >1320 gallons) has a Spill Prevention Control and Countermeasure Plan (SPCC) on site.	☐	○	☑	○
AST01	27CCR 15100(d)	SPCC is signed by a Registered Professional Engineer.	☐	○	☑	○
OBS/REC	None	Any comments entered with this code are observations or recommendations only and are not violations. Such information is educational or suggested preventative practice but is not currently required.				

County of Sacramento ● Environmental Management Department ● Hazardous Materials Division
8475 Jackson Road Suite 230 • Sacramento, CA 95826-3904 • Voice (8am – 5pm): 916/875-8550 • FAX: 916/875-8513 • On the Web: http://www.emd.saccounty.net

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8475 Jackson Road Suite 230 • Sacramento, CA 95826-3904
Internet Address: http://www.emd.saccounty.net Voice (8am – 5pm): 916/875-8550 • FAX: 916/875-8513

RETURN TO COMPLIANCE STATEMENT

This *Return To Compliance Statement* **must be returned** to the HMD **within 35 days** of your facility's inspection, **demonstrate compliance** with each violation noted at your recent facility inspection, **and be accompanied by proof of compliance** (photos, copies of manifests/disposal records or receipts, or other original paperwork) where appropriate.

Compliance Certification
1. *I certify that the violations noted on the Notice To Comply (and accompanying inspection checklists) have been corrected in the manner indicated below.*
2. *I have personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate and complete.*
3. *I am aware that there are significant penalties for submitting false information and/or for non-compliance with violations noted.*
4. *I declare under penalty of perjury that the foregoing certification is true and correct.*
Executed at: , *California* *Date:*
Signature: *Printed Name:*
Position/Title:

Summary of Violation Compliance Action

Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
HM00	☐	☐	☐	HM11	☐	☐	☐	HM33	☐	☐	☐
HM01	☐	☐	☐	HM12	☐	☐	☐	HM34	☐	☐	☐
HM02	☐	☐	☐	HM20	☐	☐	☐	HM35	☐	☐	☐
HM02A	☐	☐	☐	HM21	☐	☐	☐	HM40	☐	☐	☐
HM02B	☐	☐	☐	HM22	☐	☐	☐	HM41	☐	☐	☐
HM03	☐	☐	☐	HM23	☐	☐	☐	AST00	☐	☐	☐
HM04	☐	☐	☐	HM30	☐	☐	☐	AST01			
HM07	☐	☐	☐	HM31	☐	☐	☐				
HM10	☐	☐	☐	HM32	☐	☐	☐				

Statements:

RETURN FULLY COMPLETED PINK COPY TO HMD WITHIN 35 DAYS

COUNTY OF SACRAMENTO • ENVIRONMENTAL MANAGEMENT DEPARTMENT • HAZARDOUS MATERIALS DIVISION

CHECKLIST SUMMARY OF VIOLATIONS FOR HAZARDOUS WASTE (Page 1 of 2)

Facility ID#: 7014 | Facility Name: Sacramento - Yolo MUCD | Inspection Date: 5-15-07

Does facility have reportable quantities of haz waste?

☐ YES. Requires HM Permit, Business Plan submittal & separate HM Inspection / Checklist completion for waste.

☑ NO. No additional HM requirements for waste.

HAZARDOUS

WASTE

Specialist: LSA Scott

INSTRUCTIONS:

1. Violations summarized on this checklist are further denoted on the **Notice To Comply.** Violations of items in bold and italics require priority corrective action within 14 days; all other violations require compliance within 30 days.
2. **Corrective action must be demonstrated with proof of compliance within 19 days for re-inspections or priority violations or 35 days for all other violations** by completion and submission of the *Return To Compliance Statement* on the back of this checklist.

Facility status is evaluated for each item on this Checklist as follows:
C= Compliance • V= Violation • NA= Not Applicable • RV= Repeat Violation

	Violation Code	Authority	Requirement	Facility Status C	V	NA	RV
Haz Waste Record Keeping	***W000***	CHSC 25189.5(a)	***Authorized / proper disposal of hazardous wastes.***	☑	○	☐	○
	W001	22CCR 66262.12	Has valid EPA ID Number (information and application available on internet at www.dtsc.ca.gov).	☑	○	☐	○
	W002	SCC 6.98.026	Has permit for hazardous waste generation.	☑	○	☐	○
	W003	22CCR 66262.11	Proper characterization / testing of waste streams.	☐	○	☑	○
	W004	22CCR 66262.40(c)	Hazardous waste analysis test results retained for three years.			✓	
	W005	CHSC 25163	Haz waste transported by a licensed haz waste hauler (exception: TSDF or HHW generator transport).	☑	○	☐	○
	W006	CHSC 25189.5	Haz waste shipped to an authorized TSDF or recycler for disposal.	☐	○	☑	○
CESQG/SQG Training Requirements	W007	22CCR 66262.34(d)	Have a designated emergency coordinator who responds to any emergency, coordinates facility response and makes notifications if emergency threatens health or environment off-site.	☑	○	☐	○
	W008	22CCR 66262.34(d)	Have posted by telephone the Emergency Coordinator's name and phone number, Fire Dept phone number and locations of fire extinguishers, spill control materials and any fire alarm equipment.	☑	○	☐	○
	W009	22CCR 66262.34(d)	Have implemented minimum emergency response procedures for fires (call fire dept and attempt to extinguish if safe) and spills (reasonably contain flow and clean up as soon as possible).	☑	○	☐	○
	W010	22CCR 66262.34(d)	Employees thoroughly familiar with proper waste handling and emergency procedures relevant to their responsibilities.	☑	○	☐	○
Container Management	W011	22CCR 66262.34	Containers or tanks provided and suitable for storage of hazardous waste.	☑	○	☐	○
	W012	**22CCR 66265.171**	***Containers not leaking.***	☑	○	☐	○
	W013	22CCR 66265.173	Containers kept closed unless removing or adding waste.	☑	○	☐	○
	W014	**22CCR 66265.171**	***Containers in good condition (not rusted or defective).***	☑	○	☐	○
	W015	22CCR 66265.173	Containers opened, handled, transferred and stored in a manner to prevent rupture and leaking.	☑	○	☐	○
	W016	**22CCR 66265.172**	***Containers not reactive with contents.***	☑	○	☐	○
	W017	22CCR 66262.31-34	Containers and / or portable tanks labeled as "Hazardous Waste" and w/ accumulation start date, generator name and address, contents, hazards and physical state). [Exception: For used oil, label as "Used Oil" rather than "Hazardous Waste"; remaining requirements still apply.]	☑	○	☐	○
	W018	22CCR 66261.7	Containers > 5 gallons managed properly when empty (dated when emptied, recycled, returned to vendor within 1 year; if held EHS, must also be triple-rinsed with proper disposal of rinsate).	☑	○	☐	○
Housekeeping/Spill Prevention	W019	22CCR 66265.35	Adequate aisle space is provided.	☑	○	☐	○
	W020	22CCR 66265.32(b)	Has access to communication equipment for emergency response (phone, alarm, or 2 way radio).	☑	○	☐	○
	W021	22CCR 66265.32(c)	Has portable fire extinguishing equipment and water for firefighting.	☑	○	☐	○
	W022	22CCR 66265.32(c)	Adequate spill control and spill mitigation materials available (e.g. absorbents, rags, or shop vac).	☑	○	☐	○
	W023	22CCR 66265.31	Ability to protect against / prevent any unplanned release to air, soil or surface water as warranted (e.g. berms, secondary containment, drain covers, socks, etc...).	☑	○	☐	○
	W024	22CCR 66265.33	Emergency equipment (such as fire extinguishers, spill prevention and alarm equipment) tested and maintained as necessary (e.g. fire extinguishers assessed annually).	☑	○	☐	○
	W025	22CCR 66265.31	Minimal spills in storage area. All spills promptly addressed to prevent discharge to air, soil or surface water.	☑	○	☐	○
	W026	22CCR 66265.174	Storage area inspected weekly for leaking or deteriorated containers.	☑	○	☐	○
	W027	**22CCR 66265.177**	***Separation of incompatible materials.***	☑	○	☐	○

County of Sacramento ● Environmental Management Department ● Hazardous Materials Division
8475 Jackson Road Suite 230 • Sacramento, CA 95826-3904
Internet Address: http://www.emd.saccounty.net Voice (8am – 5pm): 916/875-8550 • FAX: 916/875-8513

RETURN TO COMPLIANCE STATEMENT

This *Return To Compliance Statement* **must be returned** to the HMD **within 35 days** of your facility's inspection, **demonstrate compliance** with each violation noted at your recent facility inspection, **and be accompanied by proof of compliance** (photos, copies of manifests/disposal records or receipts, or other original paperwork) where appropriate.

Compliance Certification

1. *I certify that the violations noted on the Notice To Comply (and accompanying inspection checklists) have been corrected in the manner indicated below.*
2. *I have personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate and complete.*
3. *I am aware that there are significant penalties for submitting false information and/or for non-compliance with violations noted.*
4. *I declare under penalty of perjury that the foregoing certification is true and correct.*

Executed at: , *California* *Date:*

Signature: *Printed Name:*

Position/Title:

SUMMARY OF HAZARDOUS WASTE VIOLATION COMPLIANCE ACTION

Violation Code	Check Type of Evidence Submitted			Violation Code	Check Type of Evidence Submitted			Violation Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
W000	☐	☐	☐	W023	☐	☐	☐	W046	☐	☐	☐
W001	☐	☐	☐	W024	☐	☐	☐	W047	☐	☐	☐
W002	☐	☐	☐	W025	☐	☐	☐	W048	☐	☐	☐
W003	☐	☐	☐	W026	☐	☐	☐				
W004	☐	☐	☐	W027	☐	☐	☐				
W005	☐	☐	☐	W028	☐	☐	☐				
W006	☐	☐	☐	W029	☐	☐	☐				
W007	☐	☐	☐	W030	☐	☐	☐				
W008	☐	☐	☐	W031	☐	☐	☐				
W009	☐	☐	☐	W032	☐	☐	☐				
W010	☐	☐	☐	W033	☐	☐	☐				
W011	☐	☐	☐	W034	☐	☐	☐				
W012	☐	☐	☐	W035	☐	☐	☐				
W013	☐	☐	☐	W036	☐	☐	☐				
W014	☐	☐	☐	W037	☐	☐	☐				
W015	☐	☐	☐	W038	☐	☐	☐				
W016	☐	☐	☐	W039	☐	☐	☐				
W017	☐	☐	☐	W040	☐	☐	☐				
W018	☐	☐	☐	W041	☐	☐	☐				
W019	☐	☐	☐	W042	☐	☐	☐				
W020	☐	☐	☐	W043	☐	☐	☐				
W021	☐	☐	☐	W044	☐	☐	☐				
W022	☐	☐	☐	W045	☐	☐	☐				

Statements:

RETURN FULLY COMPLETED PINK COPY TO HMD WITHIN 35 DAYS

CHECKLIST SUMMARY OF VIOLATIONS FOR HAZARDOUS WASTE (Page 2 of 2)

Facility ID#: 7014 | Facility Name: Sacramento - Yolo MUCD | Inspection Date: 5-15-07

HAZARDOUS WASTE

Specialist: List Scott

INSTRUCTIONS:

1. Violations summarized on this checklist are further denoted on the **Notice To Comply**. Violations of items in bold and italics require priority corrective action within 14 days; all other violations require compliance within 30 days.
2. **Corrective action must be demonstrated with proof of compliance within 19 days for re-inspections or priority violations or 35 days for all other violations** by completion and submission of the *Return To Compliance Statement* on the back of this checklist.

Facility status is evaluated for each item on this Checklist as follows:
C= Compliance • V= Violation • NA= Not Applicable • RV= Repeat Violation

	Violation Code	Authority	Requirements		Facility Status C	V	NA	RV
Used Oil	W028	22CCR 66266.130	Proper handling, labeling, management, and recycling of waste oil filters (drained, labeled as "Drained Used Oil Filters" with accumulation start date and disposed of every 6 months (if > 1 ton) or annually (if < 1 ton).		☑	○	☐	○
	W029	HSC 25250.7	Used Oil contaminated with hazardous waste other than minimal amounts of vehicle fuel.		☑	○	☐	○
Recyclable Materials	W030	22CCR 66266.81	Proper handling, labeling, management, and recycling of spent automotive lead acid batteries [Must be stored on a non-reactive surface, disposed of every 6 months (if > 1 ton) or annually (if < 1 ton); Disposal records required only when more than 10 batteries are generated, stored or disposed of at one time; damaged batteries must be labeled as such with an accumulation start date].		☐	○	☑	○
	W031	CHSC 25143.9	Proper handling, labeling and management of any recyclable materials.		☐	○	☑	○
	W032	CHSC 25143.10	Completion of UPCF Recyclable Materials Report every two years if recycle onsite >100 kg / 27 gallons per month recyclable material (in lieu of hazardous waste disposal for that material).		☐	○	☑	○
Record Keeping	W033	22CCR 66262.23	Haz waste manifests, bills of lading and / or consolidated manifests completed properly.		☑	○	☐	○
	W034	22CCR 66262.40	Haz waste manifests, bills of lading and / or consolidated manifests kept for 3 years.		☑	○	☐	○
		PRIOR TO: September 5, 2006:						
	W035	22CCR 66262.23(a)(4)	Blue copies of manifests sent to DTSC within 30 days of disposal.		☐	○	☑	○
	W036	22CCR 66262.40(a)	2nd yellow copies of manifests (received from TSDF) retained for at least 3 years.		☐	○	☑	○
		AFTER: September 5, 2006:						
	W037	22CCR 66260.20	New manifest form (EPA Form 8700-22) is being used as of 9/5/06.		☐	○	☑	○
	W038	22CCR 66261.21(f)	Legible copy of generators manifest mailed to DTSC within 30 days.		☐	○	☑	○
Universal Waste	W039	22CCR 66273.13 or 22CCR 66273.33	*CESQG exempt Univ. waste:*	Thermostats, non-auto batteries, consumer electronic devices, and fluorescent lights disposed of to trash until 2/8/2006 if generate <100 kg/ 220 lbs/ 27 gallons per month of RCRA + universal waste (excludes CRT waste) and dispose of ≤ 30 lamps, or 20 pounds of batteries per month.	☐	○	☑	○
	W040	22CCR 66273.13 or 22CCR 66273.33	*SQG or LQG Univ. waste:*	Proper handling, labeling, management and recycling of universal wastes (mercury thermostats / switches / lamps, non-auto batteries, CRTs, aerosol cans, fluorescent lights, etc). Must label waste, document accumulation date, keep <5000 kg (SQGs only) at any time, send to collection, disposal or recycling facility, retain receipts 3 years.	☐	○	☑	○
Accumulation Time	W041	22CCR 66262.34(a)	*LQG 90 days:*	Haz waste disposed of every 90 days from first day of accumulation (*required* if generate ≥1000 kg / 270 gallons per month).	○	☐	☑	☐
	W042	22CCR 66262.34(d) and CHSC 25123.3(c)	*CESQG 180 days:*	Haz waste disposed of within 180 days of accumulating 100 kg / 27 gallons (eligible only if generate <100 kg / 27 gallons per month and never store more than 1620 gallons).	☐	○	☑	○
	W043	22CCR 66262.34(d) and CHSC 25123.3(c)	*CESQG 270 days:*	Haz waste disposed of within 270 days of accumulating 100 kg / 27 gallons (eligible only if meet 180 day CESQG criteria and waste destination is more than 200 miles away).	☐	○	☑	○
	W044	22CCR 66262.34(d) and CHSC 25123.3(c)	*SQG 180 days:*	Haz waste disposed of within 180 days from first day of accumulation (eligible only if generate <1000 kg / 270 gallons per month and never store more than 1620 gallons).	☑	○	☐	○
	W045	22CCR 66262.34(d) and CHSC 25123.3(c)	*SQG 270 days:*	Haz waste disposed of within 270 days from first day of accumulation (eligible only if meet 180 day SQG criteria and waste destination is more than 200 miles away).	☐	○	☑	○
	W046	22CCR 66262.34(e)	*Satellite storage:*	Haz waste disposed of at least once / year (even if < 100 kg / 27 gallons accumulated) OR within 90 days of accumulating 55 gallons whichever comes first (eligible for satellite rule only if waste accumulated at / near point of generation and meet labeling and storage conditions).	☐	○	☑	○
HW Tanks	W047	22CCR 66265.195	**HW ABOVE GROUND STORAGE TANKS (ASTS)** Stationary (bolted down and / or plumbed) haz waste storage tanks / tank systems inspected daily and inspections are documented.		☑	○	☐	○
	W048	22CCR 66262.31-34	Stationary tanks labeled as "Hazardous Waste" and marked with accumulation start date. [Exception: For used oil, label as "Used Oil" rather than "Hazardous Waste"; remaining requirements still apply.]		☑	○	☐	○

Is Facility a LQG of HW (generates >1,000 kg/270 gallons/2,200 lbs/month)? NO ☐ YES ☐ If YES, complete LQG Checklist.

COUNTY OF SACRAMENTO • ENVIRONMENTAL MANAGEMENT DEPARTMENT • HAZARDOUS MATERIALS DIVISION

County of Sacramento ● Environmental Management Department ● Hazardous Materials Division

8475 Jackson Road Suite 230 • Sacramento, CA 95826-3904

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Executed at: , *California* *Date:*

Signature: *Printed Name:*

Position/Title:

SUMMARY OF HAZARDOUS WASTE VIOLATION COMPLIANCE ACTION

Violation Code	Check Type of Evidence Submitted			Violation Code	Check Type of Evidence Submitted			Violation Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
W000	☐	☐	☐	W023	☐	☐	☐	W046	☐	☐	☐
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W002	☐	☐	☐	W025	☐	☐	☐	W048	☐	☐	☐
W003	☐	☐	☐	W026	☐	☐	☐				
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W013	☐	☐	☐	W036	☐	☐	☐				
W014	☐	☐	☐	W037	☐	☐	☐				
W015	☐	☐	☐	W038	☐	☐	☐				
W016	☐	☐	☐	W039	☐	☐	☐				
W017	☐	☐	☐	W040	☐	☐	☐				
W018	☐	☐	☐	W041	☐	☐	☐				
W019	☐	☐	☐	W042	☐	☐	☐				
W020	☐	☐	☐	W043	☐	☐	☐				
W021	☐	☐	☐	W044	☐	☐	☐				
W022	☐	☐	☐	W045	☐	☐	☐				

Statements:

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HAZARDOUS MATERIALS FACILITY INSPECTION NOTES

Facility Type: ✓BP ✓WG OTP OUST OAST OSTORMWATER OREINSPECTION | Page 1 of 3

Inspection Date: 5-15-07 | Facility ID #: 7014 | Specialist: Lisa Scovil

Facility Name: Sacramento/Yolo MVCI)

Address: 8631 Bond Rd. Elk Grove CA

Name(s) of Hazardous Materials Observed	Amount	Location	Name(s) of Hazardous Materials Observed	Amount	Location
1. Methoprene briquets	2,000 lbs	Pesticide Storage	11. Hydraulic Oil	5 GA	work Shop
2. Methoprene pellets	1000 lbs	↓	12. Propane	250 cu ft	Shop
3. Methoprene XRB	50 lbs		13. Engine Oil	90 GA	work Shop
4. Golden Bear Petroleum Hydrocarbon	1500 GA	Outside Shop	14. CO_2/Argon	300 c.ft	
5. Pyrethrins	300 GA	Pesticide Storage	15. Anti-freeze	20 GA	
6. Naled	Non observed	—	16. Gear lube	25 GA	
7. Bacillus Bti	100 GA	Pesticide storage	17. Chassis Grease	15 GA	
8. Diesel	800 GA	Outside Shop	18. Acetylene	350 cu ft	
9. Gasoline	800 GA	Outside Shop	19. Argon	350 cu ft	
10. Hydraulic Trans. fluid	30 GA	Inside Shop	20. Oxygen	300 cu ft	

☑	Emerg. Equip.	Emerg. Shutoff	Labels	Absorb.	Dumpster / Lid	MSDS	Photos	HMP	Training	Disposal records	EPA ID #	Owner info
Yes	✓	✓	✓	✓	✓	✓	/	✓	✓	✓	✓	✓
No												

NOTES:

Don't typically use Golden Bear may obtain Emergency coordinator info in office

Don't weld on a regular basis

STORMWATER:

HAZARDOUS MATERIALS FACILITY INSPECTION NOTES (continued) Page 2 of 3

Facility ID #:	EPA ID No:	(✓) status		
7014	CAL000499077	○CESQG	⊖SQG	○LQG

Hazardous Waste(s) Observed	Bldg/loc	Amount Stored On-Site	Monthly	Annually
Used waste oil	30 GA	Shop	40 GA	500 GA
Used antifreeze	40 GA	Shop	5 GA	60 GA
Metal Grindings	4 GA (¾ of 55GA Drum)	Shop	1 GA	10 GA
filters (oil)	~ 5 filters	Shop	10 GA	110 GA
Pesticide absorbent waste	30 GA	Pesticide Storage	30 GA	150 GA

DISPOSAL RECORDS (use continuation sheet if additional space is needed)

HAULER NAME & EPA ID #	WASTE	Date	Amount	Date	Amount	Date	Amount
Evergreen Environmental CAD 982413262	Used Oil	3/14/07	275 GA	7/31/06	300 GA	12/15/05	200 GA
	↓	5/23/05	120 GA	11/15/05	140 GA	4/19/04	110 GA
	Waste antifreeze	7/31/06	65 GA	3/21/06	55 GA	11/15/05	45 GA
	Used oil filters	[illegible]	[illegible]	8/15/05	(55 GA) 2 barrels		
	Container (drum) disposal	10/23/06	28				
	5 GA Pail disposal	10/23/06	7				
Safety Kleen 300-3470-92	Used oil filters	5/4/07	1 drum (55 GA)	10/30/06	2 drums	7/21/06	2 drums
	↓	1/27/05	1 drum	7/20/04	1 drum		
	Brake wash	3/21/07	10 GA	11/2/06		7/18/06	
	↓	11/7/05	5 GA	7/11/05		11/1/04	
		7/20/04					
	Absorbent	3/3/05	30 GA	11/2/04	30 GA		

NOTES:

HAZARDOUS MATERIALS FACILITY INSPECTION NOTES, continued

Facility ID #	7014	Page 3 of 3

ADDITIONAL NOTES

Hazardous Materials observed

Liq Nitrogen 3000 cu ft

CO_2 300 cu ft

FA0007014

Notify the Environmental Management Department of any change o ownership, type of business activity, business name, or billing address by calling 916-875-8550. Failure to notify Environmental Management may result in late penalties, Permit denial or revocation, and business closure. PERMITS TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s) prior to beginning operation.

YOUR PERMIT MUST BE RETAINED ON THE PREMISES

ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
8475 JACKSON RD STE 230
SACRAMENTO CA 95826
(916) 875-8550

REGULATED FACILITY :

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 8/27/2007

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10-15 MATLS
VALID FROM AUGUST 23, 2007 TO AUGUST 22, 2008

PR0027123 5306 HAZARDOUS WASTE GENERATOR FEE 500-2500 GAL
VALID FROM AUGUST 23, 2007 TO AUGUST 22, 2008

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM AUGUST 19, 2007 TO AUGUST 18, 2008

PR0043138 5440 ABOVE GROUND STORAGE TANK AST
VALID FROM AUGUST 19, 2007 TO AUGUST 18, 2008

Permits to operate and Annual Fee Payments are NOT TRANSFERABLE. Those referenced above are valid ONLY for this owner SACRAMENTO/YOLO MVCDPermits become VOID on change of ownership. New owners must apply and pay for a new Permit(s) PRIOR to beginning operation or penalties will be assessed.

FA0007014

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ENVIRONMENTAL MANAGEMENT DEPARTMENT
8475 JACKSON RD STE 230
SACRAMENTO CA 95826
(916) 875-8550

REGULATED FACILITY :

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 8/20/2008

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10-15 MATLS
VALID FROM AUGUST 21, 2008 TO AUGUST 21, 2009

PR0027123 5306 HAZARDOUS WASTE GENERATOR FEE 500-2500 GAL
VALID FROM AUGUST 21, 2008 TO AUGUST 21, 2009

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM AUGUST 21, 2008 TO AUGUST 21, 2009

PR0043138 5440 EXMPT FAC.SNGL AST < 20,000 GAL ,CUM >100,000
VALID FROM AUGUST 21, 2008 TO AUGUST 21, 2009

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Environmental Management Department
10590 Armstrong Avenue Ste. A
Mather, CA 95655
Tel: (916) 875-8550
Fax: (916) 875-8513
www.emd.saccounty.net/

RECEIVED
JUN 26 2009
ENVIRONMENTAL MANAGEMENT DEPT.
ENVIRONMENTAL COMPLIANCE DIVISION

Aboveground Petroleum Storage Tank Facility Statement

Notification/Change in Status

I. Facility/Business Information

Facility ID#: F A 0 0 0 7 0 1 4

Facility Name (3)	Owner Name (111)
Sac-Yolo Mosquito & Vector Control	
Facility Address (103)	**Owner Mailing Address (113)**
8631 Bond Road	
City (104) / State / Zip (105)	City (114) / State (115) / Zip (116)
Elk Grove / Calif. / 95624	
Billing Address (if different from above)	
Contact Name (117)	Facility Phone (118) / Owner Phone (112)
Gary Goodman	1-916-685-1022
Contact E-mail (119)	Does the facility have an SPCC plan? (920)
gwgoodman@sac-yolomvcd.com	Yes ■ No

II. Total Facility Capacity (in gallons)

(IN Progress) Needs PE CERT.

	(921)
Facility's total aboveground petroleum storage capacity for all tanks or containers greater than or equal to 55 gallons:	10555
Capacity of the largest tank/container that stores petroleum at your facility (in gallons):	8000

III. Tank and Container Details

Attach additional forms if your facility has any additional tanks or containers.

(922) Tank/Container ID# (e.g. 1, 2, etc.)	(923) Contents (Gas, Diesel, etc.)	(924) Capacity in gallons	(925) Location of Tank/Container	(926) Year Installed	(927) Tank type:	(928) Secondary Containment
Tank 1	GB111 golden bear insecticide	8000	North	1994	■Steel □Fiberglass/Plastic □Drum(s) □Generator □Vehicle □Other:	■Yes □No
Tank 2 I.D.# 794135	gasoline	1000	North	1994	■Steel □Fiberglass/Plastic □Drum(s) □Generator □Vehicle	■Yes □No
Tank 3 I.D.# 794135	diesel	1000	North	1994	■Steel □Fiberglass/Plastic □Drum(s) □Generator □Vehicle	■Yes □No
Tank 4 I.D.# 794134	used motor oil	500	East	1994	■Steel □Fiberglass/Plastic □Drum(s) □Generator □Vehicle	○ ■Yes □No
Tank 5	motor oil	55	East inside shop	1994	■Steel □Fiberglass/Plastic □Drum(s) □Generator □Vehicle	■Yes □No
					□Steel □Fiberglass/Plastic □Drum(s) □Generator □Vehicle	□Yes □No
					□Steel □Fiberglass/Plastic □Drum(s) □Generator □Vehicle	□Yes □No
					□Steel □Fiberglass/Plastic □Drum(s) □Generator □Vehicle	□Yes □No

IV. Signature

I certify under penalty of law that the information submitted is accurate and complete to the best of my knowledge.

Signature of owner or tank facility operator	Printed name of owner or tank facility operator (136)	Date (mm/dd/yyyy) (134)
	GARY GOODMAN	6/12/2009

See Instructions on back

FA0007014

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8631 BOND RD
ELK GROVE CA 95624

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COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
10590 ARMSTRONG AVE
MATHER CA 95655
(916) 875-8550

REGULATED FACILITY:

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 7/10/2009

OWNER NAME:

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10-15 MATLS
VALID FROM JULY 22, 2009 TO JULY 22, 2010

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM JULY 22, 2009 TO JULY 22, 2010

PR0043138 5442 AST 10,000 GALLONS AND LESS THAN 100,000
VALID FROM JULY 22, 2009 TO JULY 22, 2010

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10590 ARMSTRONG AVE
MATHER CA 95655
(916) 875-8550

REGULATED FACILITY :

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 9/3/2009

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10-15 MATLS
VALID FROM AUGUST 19, 2009 TO AUGUST 19, 2010

PR0027123 5306 HAZARDOUS WASTE GENERATOR FEE 500-2500 GAL
VALID FROM AUGUST 19, 2009 TO AUGUST 19, 2010

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM AUGUST 19, 2009 TO AUGUST 19, 2010

PR0043138 5442 AST 10,000 GALLONS AND LESS THAN 100,000
VALID FROM AUGUST 19, 2009 TO AUGUST 19, 2010

Permits to operate and Annual Fee Payments are NOT TRANSFERABLE. Those referenced above are valid ONLY for this owner SACRAMENTO/YOLO MVCDPermits become VOID on change of ownership. New owners must apply and pay for a new Permit(s) PRIOR to beginning operation or penalties will be assessed.

RECEIVED
DEC 29 2009
ENVIRONMENTAL MANAGEMENT DEPT.
ENVIRONMENTAL COMPLIANCE DIVISION

Environmental Management Department
10590 Armstrong Avenue Ste A
Mather, CA 95655
Tel: (916) 875-8550
Fax: (916) 875-8513
www.emd.saccounty.net/

Aboveground Petroleum Storage Tank Facility Statement
Notification/Change in Status

I. Facility/Business Information

Facility ID# FA0037014

Facility Name 3	Owner Name 111
Sacramento/Yolo Mosquito & Vector District	
Facility Address 103	**Owner Mailing Address** 113
8631 Bond Rd	

City 104	State	Zip 105	City 114	State 115	Zip 116
Elk Grove	CA	95624			

Billing Address (if different from above)

Contact Name 117	Facility Phone 118	Owner Phone 112
Gary Goodman	916-685-1022	

Contact E-mail 119: gwgoodman@sac-yolomvcd.com

Does the facility have an SPCC plan? 920 — Yes ☒ No ☐

II. Total Facility Capacity (in gallons)

	921
Facility's total aboveground petroleum storage capacity for all tanks or containers greater than or equal to 55 gallons:	10,555 gal
Capacity of the largest tank/container that stores petroleum at your facility (in gallons):	8000 gal

III. Tank and Container Details

Attach additional forms if your facility has any additional tanks or containers.

922 Tank/Container ID# (e.g. 1, 2, etc.)	923 Contents (Gas, Diesel, etc.)	924 Capacity in gallons	925 Location of Tank/Container	926 Year Installed	927 Tank type:	928 Secondary Containment
#1	Golden Bear 1111 Petroleum larvacide	8,000	N/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#2	Gasoline	1,000	N/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#3	Diesel	1,000	N/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#4	used motor oil	500	N/Yard E	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#5	15-40 Rokilla oil	55	Maintenance Shop	N/A	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
					☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☐Yes ☐No
					☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☐Yes ☐No
					☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☐Yes ☐No

IV. Signature

I certify under penalty of law that the information submitted is accurate and complete to the best of my knowledge.

Signature of owner or tank facility operator	Printed name of owner or tank facility operator 136	Date (mm/dd/yyyy) 131
	GARY GOODMAN	12/28/09

See Instructions on back

APSA 05/09

County of Sacramento ● Environmental Management Department ● Environmental Compliance Division
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Internet Address: http://www.emd.saccounty.net

AC

NOTICE TO COMPLY

1. This **Notice to Comply** *Written Summary of Violations* is issued with a *Checklist Summary of Violations* for each inspection type.
2. Violations requiring priority corrective action are flagged in the red PCA (Priority Compliance Action) summary box on this form.
3. Unless otherwise noted on this Notice, corrective actions must be completed within **30 days**.
4. **You must return your fully completed & signed Return To Compliance Statement(s)** (found on the back of each *Checklist Summary of Violations*) **to ECD as follows:** ***within 14 days for PCAs and 35 days for other violations.***
5. A reinspection may occur at any time to verify correction of noted violations.
6. Correction of the following violations may not preclude enforcement action being taken against this facility.

INSPECTION TYPE: ○BP ○WG ○TP ○UST ●AST ○SW ○UW ○CALARP ○REINSPECTION

INSPECTION DATE: 12/10/10 FACILITY ID#: FA0007014

DBA/FACILITY NAME: Sacramento/Yolo MVCD SITE PH #: 916/685-1022

ADDRESS: 8631 Bond Rd. CITY: Elk Grove ZIP: 95624

SPECIALIST: Cooke SPECIALIST PHONE#: (916) 876-7888 Page 1 of 2

By signing this document, I acknowledge that consent has been given to inspect this facility and I have been notified of the regulatory violations cited below. I understand that failure to return to compliance within the specified time frame could result in a reinspection of this facility with an additional fee and possible enforcement action including penalties.

RECEIVED BY: Signature: Print Name: GARY GOODMAN Title: ASSISTANT MANAGER

Priority Corrective Actions (PCA) noted in this box are required within 14 days or otherwise noted below.

NONE!

ECD Violation Code:	Written Summary of Violations	Photos Taken ☐YES ☒NO
HMO2	① Facility does not have chemical inventory forms for the following hazardous materials: • mineral oil • salt • degreaser. Chemical inventory forms must be completed for all hazardous materials and hazardous wastes stored on-site in reportable quantities (55 gallons, 200 cubic feet, 500 pounds). Complete chemical inventory forms for the above materials and submit copies to the Environmental Management Department (EMD). Attn: Rebecca Cooke	

DOC TYPE: INSPECTION REPORT: WHITE: ECD YELLOW: FACILITY

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NOTICE TO COMPLY, continued

INSPECTION DATE: 6/10/10 FACILITY ID# PA0007014 Page 2 Of 2
DBA/FACILITY NAME: Sacramento MVAD ADDRESS: 8631 Bond Rd. 95624
SPECIALIST: Moore SPECIALIST PHONE: (916) 876 7888
RECEIVED BY: Signature: Print Name: GARY GOODMAN Title: ASSISTANT MANAGER

ECD Violation Code: **Written Summary of Violations, *continued***

W017 (2) Observed waste bead blast dust and waste brake grindings without labels. All hazardous waste containers must be labeled as "Hazardous Waste" with accumulation start date, generator name and address, contents, hazards, physical state, and EPA ID#. Submit photos of properly labeled containers.

W044 (3) Facility has never disposed of their waste bead blast dust and waste brake grindings. All hazardous waste must be disposed within 180 days from the first day of accumulation. Dispose of waste streams through a licensed hazardous waste hauler and submit a copy of the waste receipt.

W047 (4) Facility has not been doing daily documented inspections on its waste oil tank. Hazardous waste storage tanks and tank systems must be inspected daily and documented. Do daily documented inspections on your waste oil tank and submit documentation for the next two weeks to EMD.

Refer to page 1 for instructions

Checklist Summary of Violations for Business Plan / Hazardous Materials / Above Ground Storage Tanks

FACILITY ID#: FA0007014 | SPECIALIST: Enoche | INSPECTION DATE: 6/10/10

DBA/FACILITY NAME: Sacramento 4010 MVCD | ADDRESS: 8631 Bond Rd. Elk Grove, CA 95624

HAZARDOUS MATERIALS

Instructions:

1. Priority Corrective Action violations must be corrected within 14 days; all other violations must be corrected within 30 days (unless otherwise noted on the Notice To Comply).
2. Proof of correction must be received by EMD within 19 days for Priority Corrective Action violations and within 35 days for all other violations (unless otherwise noted on the Notice To Comply). Complete and submit the *Return To Compliance Statement* on the back of this checklist.

Facility status is evaluated for each item on this Checklist as follows:
C= Compliance V= Violation N/A= Not Applicable RV= Repeat Violation

Violation Code	Authority	Requirement	Facility Status C	V	N/A	RV
HM00	SCC 6.96.030	Has permit for hazardous materials storage.	☑	○	☐	○
HM01	19CCR 2729.2	Adequate submission / completion of Business Activities & Owner / Operator Identification Forms.	☑	○	☐	○
HM02	19CCR 2729.2	Adequate submission / completion of chemical inventory forms.	☐	☑	☐	○
HM02A	19CCR 2729.4 - .5	Adequate submission / completion of the annual hazardous materials renewal plan.	☑	○	☐	○
HM02B	19CCR 2729.5	Annual submission of Business Activities & Owner / Operator Identification and chemical inventory forms when required by EPCRA (if storing >10,000 pounds of a hazardous material or an amount ≥ the TPQ or 500 lbs [whichever is less] for an extremely hazardous material).	☑	○	☐	○
HM03	19CCR 2729.2	Adequate submission / completion of site map.	☑	○	☐	○
HM04	H&SC 25504 & 25503.5	Adequate submission / completion / retention of written Consolidated Contingency Plan.	☑	○	☐	○
HM07	H&SC 25503.5	HMP is maintained on-site or is accessible.	☑	○	☐	○
HM10	H&SC 25504(c) & 19CCR 2732	Initial employee training program for hazardous materials/emergency response implemented and adequate.	☑	○	☐	○
HM11	H&SC 25504(c) & 19CCR 2732	Annual hazardous materials/emergency response refresher component of the employee training program implemented and adequate.	☑	○	☐	○
HM12	19CCR 2731(c)	MSDS (Material Safety Data Sheets) are accessible.	☑	○	☐	○
HM20	19CCR 2731(c)	Emergency shutoffs for chemical processes or equipment are labeled.	☑	○	☐	○
HM21	19CCR 2731(c)	Emergency equipment (such as fire extinguishers, spill prevention & alarm equipment) tested & maintained as necessary (e.g. fire extinguishers assessed annually).	☑	○	☐	○
HM22	19CCR 2731(c)	Adequate spill control and spill mitigation materials are available (e.g. absorbents, rags, or shop vac).	☑	○	☐	○
HM23	19CCR 2731(c)	Ability to protect against/prevent any unplanned release to air, soil or surface water as warranted (e.g. berms, secondary containment, drain covers, socks, etc...).	☑	○	☐	○
HM30	19CCR 2731(c)	Containers, tanks (fixed or portable) and totes are kept closed unless in use.	☑	○	☐	○
HM31	19CCR 2731(c)	Containers, tanks (fixed or portable) and totes are in good condition.	☑	○	☐	○
HM32	19CCR 2731(c)	Containers, tanks (fixed or portable) and totes stored in a manner to prevent rupture, leaking or structural deterioration.	☑	○	☐	○
HM33	19CCR 2731(c)	Containers, tanks (fixed or portable) and totes are compatible with contents.	☑	○	☐	○
HM34	19CCR 2731(c)	Containers, tanks (fixed or portable) and totes are properly labeled.	☑	○	☐	○
HM35	22CCR 66261.7	Containers, tanks (fixed or portable) and totes are disposed of properly when empty.	☑	○	☐	○
HM40	19CCR 2731(c)	Minimal spills in storage area. All spills promptly addressed to prevent discharge to air, soil or surface water.	☑	○	☐	○
HM41	19CCR 2731(c)	Storage area is maintained to separate incompatible materials.	☑	○	☐	○
CHSC 25270.3		Does the facility have AST(s)? If yes, complete the following: YES ☑ NO ☐ ☐ If AST(s) are < 1,320 gallons, they are unregulated. ☐ If AST(s) are ≥ 1,320 and < 10,000 gallons, complete Tier I/II APSA Facility Checklist. ☑ If AST(s) are ≥ 10,000 gallons, refer to AST Team.				
OBS/REC	None	Any comments entered with this code are observations or recommendations only and are not violations. Such information is educational or suggested preventative practice but is not currently required.				

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RETURN TO COMPLIANCE STATEMENT

This *Return To Compliance Statement* must be returned to EMD within 19 days of your facility's inspection for Priority Corrective Action violations and within 35 days for all other violations (unless otherwise noted on the Notice To Comply). Also include copies of any proof of compliance documents (e.g. photos, copies of manifests/disposal records or receipts, or other original paperwork).

Compliance Certification

1. *I certify that the violations noted on the Notice To Comply (and accompanying inspection checklists) have been corrected in the manner indicated below.*
2. *I have personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate and complete.*
3. *I am aware that there are significant penalties for submitting false information and/or for non-compliance with violations noted.*
4. *I declare under penalty of perjury that the foregoing certification is true and correct.*

Executed at: , *California* *Date:*

Signature: *Printed Name:*

Position/Title:

Summary of Violation Compliance Action

Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
HM00	☐	☐	☐	HM11	☐	☐	☐	HM33	☐	☐	☐
HM01	☐	☐	☐	HM12	☐	☐	☐	HM34	☐	☐	☐
HM02	☐	☐	☐	HM20	☐	☐	☐	HM35	☐	☐	☐
HM02A	☐	☐	☐	HM21	☐	☐	☐	HM40	☐	☐	☐
HM02B	☐	☐	☐	HM22	☐	☐	☐	HM41	☐	☐	☐
HM03	☐	☐	☐	HM23	☐	☐	☐				
HM04	☐	☐	☐	HM30	☐	☐	☐				
HM07	☐	☐	☐	HM31	☐	☐	☐				
HM10	☐	☐	☐	HM32	☐	☐	☐				

Statements:

CHECKLIST SUMMARY OF VIOLATIONS FOR HAZARDOUS WASTE (Page 1 of 2)

Facility ID#: FA0007014 | Facility Name: Sacramento/Yolo MVCD | Inspection Date: 6/10/10

Does facility have reportable quantities of waste? ☑ YES: *Requires HM Permit, Business Plan submittal & separate HM Inspection/Checklist for waste.* ☐ No. *No additional HM requirements for waste.*

Specialist: Knoche

HAZARDOUS WASTE

INSTRUCTIONS:

1. Violations summarized on this checklist are further denoted on the **Notice To Comply.** Violations of items in bold and italics require priority corrective action within 14 days; all other violations require compliance within 30 days.
2. **Corrective action must be demonstrated with proof of compliance within 19 days for re-inspections or priority violations or 35 days for all other violations** by completion and submission of the Return To Compliance Statement on the back of this checklist.

Facility status is evaluated for each item on this Checklist as follows:
C= Compliance • V= Violation • NA= Not Applicable • RV= Repeat Violation

COUNTY OF SACRAMENTO • ENVIRONMENTAL MANAGEMENT DEPARTMENT • ENVIRONMENTAL COMPLIANCE DIVISION

	Violation Code	Authority	Requirement	C	V	NA	RV
Haz Waste Record Keeping	***W000***	***H&SC 25189.5(c)***	***Authorized / proper disposal of hazardous wastes.***	☑	○	☐	○
	W001	22CCR 66262.12	Has valid EPA ID Number (information and application available on internet at www.dtsc.ca.gov).	☑	○	☐	○
	W002	SCC 6.98.026-6.98.30	Has permit for hazardous waste generation.	☑	○	☐	○
	W003	22CCR 66262.11	Proper characterization / testing of waste streams.	☑	○	☐	○
	W004	22CCR 66262.40(c)	Hazardous waste analysis test results retained for three years.	☑	○	☒	○
	W005	H&SC 25163	Haz waste transported by a licensed haz waste hauler (exception: TSDF or HHW generator transport).	☑	○	☐	○
	W006	H&SC 25189.5	Haz waste shipped to an authorized TSDF or recycler for disposal.	☑	○	☐	○
CESQG/SQG Training Requirements	W007	22CCR 66262.34(d)	Have a designated emergency coordinator who responds to any emergency, coordinates facility response and makes notifications if emergency threatens health or environment off-site.	☑	○	☐	○
	W008	22CCR 66262.34(d)	Have posted by telephone the Emergency Coordinator's name and phone number, Fire Dept phone number and locations of fire extinguishers, spill control materials and any fire alarm equipment.	☑	○	☐	○
	W009	22CCR 66262.34(d)	Have implemented minimum emergency response procedures for fires (call fire dept and attempt to extinguish if safe) and spills (reasonably contain flow and clean up as soon as possible).	☑	○	☐	○
	W010	22CCR 66262.34(d)	Employees thoroughly familiar with proper waste handling and emergency procedures relevant to their responsibilities.	☑	○	☐	○
Container Management	W011	22CCR 66262.34	Containers or tanks provided and suitable for storage of hazardous waste.	☑	○	☐	○
	W012	***22CCR 66265.171***	***Containers not leaking.***	☑	○	☐	○
	W013	22CCR 66265.173	Containers kept closed unless removing or adding waste.	☑	○	☐	○
	W014	***22CCR 66265.171***	***Containers in good condition (not rusted or defective).***	☑	○	☐	○
	W015	22CCR 66265.173	Containers opened, handled, transferred and stored in a manner to prevent rupture and leaking.	☑	○	☐	○
	W016	***22CCR 66265.172***	***Containers not reactive with contents.***	☑	○	☐	○
	W017	22CCR 66262.31-34	Containers and / or portable tanks labeled as "Hazardous Waste" and w/ accumulation start date, generator name and address, contents, hazards and physical state). [Exception: For used oil, label as "Used Oil" rather than "Hazardous Waste"; remaining requirements still apply.]	☐	⊘	☐	○
	W018	22CCR 66261.7	Containers > 5 gallons managed properly when empty (dated when emptied, recycled, returned to vendor within 1 year; if held EHS, must also be triple-rinsed with proper disposal of rinsate).	☑	○	☐	○
Housekeeping/Spill Prevention	W019	22CCR 66265.35	Adequate aisle space is provided.	☑	○	☐	○
	W020	22CCR 66265.32(b)	Has access to communication equipment for emergency response (phone, alarm, or 2 way radio).	☑	○	☐	○
	W021	22CCR 66265.32(c)	Has portable fire extinguishing equipment and water for firefighting.	☑	○	☐	○
	W022	22CCR 66265.32(c)	Adequate spill control and spill mitigation materials available (e.g. absorbents, rags, or shop vac).	☑	○	☐	○
	W023	22CCR 66265.31	Ability to protect against / prevent any unplanned release to air, soil or surface water as warranted (e.g. berms, secondary containment, drain covers, socks, etc...).	☑	○	☐	○
	W024	22CCR 66265.33	Emergency equipment (such as fire extinguishers, spill prevention and alarm equipment) tested and maintained as necessary (e.g. fire extinguishers assessed annually).	☑	○	☐	○
	W025	22CCR 66265.31	Minimal spills in storage area. All spills promptly addressed to prevent discharge to air, soil or surface water.	☑	○	☐	○
	W026	22CCR 66265.174	Storage area inspected weekly for leaking or deteriorated containers.	☑	○	☐	○
	W027	***22CCR 66265.177***	***Separation of incompatible materials.***	☑	○	☐	○
Used Oil	W028	22CCR 66266.130	Proper handling, labeling, management, and recycling of waste oil filters (drained, labeled as "Drained Used Oil Filters" with accumulation start date and disposed of every 6 months (if > 1 ton) or annually (if < 1 ton).	☑	○	☐	○
	W029	H&SC 25250.7	Used Oil contaminated with hazardous waste other than minimal amounts of vehicle fuel.	☑	○	☐	○

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RETURN TO COMPLIANCE STATEMENT

This *Return To Compliance Statement* **must be returned** to the ECD **within 35 days** of your facility's inspection, **demonstrate compliance** with each violation noted at your recent facility inspection, **and be accompanied by proof of compliance** (photos, copies of manifests/disposal records or receipts, or other original paperwork) where appropriate.

Compliance Certification

1. *I certify that the violations noted on the Notice To Comply (and accompanying inspection checklists) have been corrected in the manner indicated below.*
2. *I have personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate and complete.*
3. *I am aware that there are significant penalties for submitting false information and/or for non-compliance with violations noted.*
4. *I declare under penalty of perjury that the foregoing certification is true and correct.*

Executed at: , *California* *Date:*

Signature: *Printed Name:*

Position/Title:

SUMMARY OF HAZARDOUS WASTE VIOLATION COMPLIANCE ACTION

Violation Code	Check Type of Evidence Submitted			Violation Code	Check Type of Evidence Submitted			Violation Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
W000	☐	☐	☐	W023	☐	☐	☐	W046	☐	☐	☐
W001	☐	☐	☐	W024	☐	☐	☐	W047	☐	☐	☐
W002	☐	☐	☐	W025	☐	☐	☐	W048	☐	☐	☐
W003	☐	☐	☐	W026	☐	☐	☐	TP00	☐	☐	☐
W004	☐	☐	☐	W027	☐	☐	☐				
W005	☐	☐	☐	W028	☐	☐	☐				
W006	☐	☐	☐	W029	☐	☐	☐				
W007	☐	☐	☐	W030	☐	☐	☐				
W008	☐	☐	☐	W031	☐	☐	☐				
W009	☐	☐	☐	W032	☐	☐	☐				
W010	☐	☐	☐	W033	☐	☐	☐				
W011	☐	☐	☐	W034	☐	☐	☐				
W012	☐	☐	☐	W035	☐	☐	☐				
W013	☐	☐	☐	W036	☐	☐	☐				
W014	☐	☐	☐	W037	☐	☐	☐				
W015	☐	☐	☐	W038	☐	☐	☐				
W016	☐	☐	☐	W039	☐	☐	☐				
W017	☐	☐	☐	W040	☐	☐	☐				
W018	☐	☐	☐	W041	☐	☐	☐				
W019	☐	☐	☐	W042	☐	☐	☐				
W020	☐	☐	☐	W043	☐	☐	☐				
W021	☐	☐	☐	W044	☐	☐	☐				
W022	☐	☐	☐	W045	☐	☐	☐				

Statements:

RETURN FULLY COMPLETED PINK COPY TO ECD WITHIN 35 DAYS

CHECKLIST SUMMARY OF VIOLATIONS FOR HAZARDOUS WASTE (Page 2 of 2)

Facility ID#: FA0007014 | Facility Name: Sacramento / Yolo MVCD | Inspection Date: 06/10/10 | Specialist: Brock

HAZARDOUS WASTE

INSTRUCTIONS:

1. Priority Corrective Action violations must be corrected within 14 days; all other violations must be corrected within 30 days (unless otherwise noted on the Notice To Comply).
2. Proof of correction must be received by EMD within 19 days for Priority Corrective Action violations and within 35 days for all other violations (unless otherwise noted on the Notice To Comply). Complete and submit the *Return To Compliance Statement* on the back of this checklist.

Facility status is evaluated for each item on this Checklist as follows:
C= Compliance • V= Violation • NA= Not Applicable • RV= Repeat Violation

	Violation Code	Authority	Requirements	C	V	NA	RV
Recyclable Materials	W030	22CCR 66266.81	Proper handling, labeling, management, and recycling of spent automotive lead acid batteries [Must be stored on a non-reactive surface, disposed of every 6 months (if > 1 ton) or annually (if < 1 ton); Disposal records required only when more than 10 batteries are generated, stored or disposed of at one time; damaged batteries must be labeled as such with an accumulation start date].	☑	○	☐	○
	W031	H&SC 25143.9	Proper handling, labeling and management of any recyclable materials.	☐	○	☑	○
	W032	H&SC 25143.10	Completion of UPCF Recyclable Materials Report every two years if recycle onsite >100 kg / 27 gallons per month recyclable material (in lieu of hazardous waste disposal for that material).	☐	○	☑	○
Record Keeping	W033	22CCR 66262.23	Haz waste manifests, bills of lading and / or consolidated manifests completed properly.	☑	○	☐	○
	W034	22CCR 66262.40	Haz waste manifests, bills of lading and / or consolidated manifests kept for 3 years.	☑	○	☐	○
		PRIOR TO: September 5, 2006:					
	W035	22CCR 66262.23(a)(4)	Blue copies of manifests sent to DTSC within 30 days of disposal.	☑	○	☐	○
	W036	22CCR 66262.40(a)	2nd yellow copies of manifests (received from TSDF) retained for at least 3 years.	☑	○	☐	○
		AFTER: September 5, 2006:					
	W037	22CCR 66260.20	New manifest form (EPA Form 8700-22) is being used as of 9/5/06.	☑	○	☐	○
	W038	22CCR 66261.21(f)	Legible copy of generators manifest mailed to DTSC within 30 days.	☑	○	☐	○
Universal Waste	W039	22CCR 66273.8(c)	*CESQUWG Exempt Univ. waste:* Universal Waste (fluorescent lamps, non-auto batteries, CRTs, aerosol cans, mercury switches/thermostats/lamps, etc.) is not being disposed of into the trash. (Required if facility is a CESQUWG: <100kg/220lbs/27gal per month of RCRA + UW is generated or <5 CRTs/year are generated.)	☑	○	☐	○
	W040	22CCR 66273.13 or 22CCR 66273.33	*SQHUW or LQHUW:* Proper handling, labeling management and recycling of universal wastes. Must label waste, document accumulation date, send to collection/disposal/recycling facility within 1 year, and retain receipts for 3 years. (Required if facility is an SQHUW: <5,000kg/11,000lbs or an LQHUW: > 5,000kg/11,000lbs kept on site an any time.)	☐	○	☑	○
Accumulation Time	W041	22CCR 66262.34(a)	*LQG 90 days:* Haz waste disposed of every 90 days from first day of accumulation (required if generate ≥1000 kg / 270 gallons per month).	☐	○	☑	○
	W042	22CCR 66262.34(d) and H&SC 25123.3(c)	*CESQG 180 days:* Haz waste disposed of within 180 days of accumulating 100 kg / 27 gallons (eligible only if generate <100 kg / 27 gallons per month and never store more than 1620 gallons).	☐	○	☑	○
	W043	22CCR 66262.34(d) and H&SC 25123.3(c)	*CESQG 270 days:* Haz waste disposed of within 270 days of accumulating 100 kg / 27 gallons (eligible only if meet 180 day CESQG criteria and waste destination is more than 200 miles away).	☐	○	☑	○
	W044	22CCR 66262.34(d) and H&SC 25123.3(c)	*SQG 180 days:* Haz waste disposed of within 180 days from first day of accumulation (eligible only if generate <1000 kg / 270 gallons per month and never store more than 1620 gallons).	☐	☑	☐	○
	W045	22CCR 66262.34(d) and H&SC 25123.3(c)	*SQG 270 days:* Haz waste disposed of within 270 days from first day of accumulation (eligible only if meet 180 day SQG criteria and waste destination is more than 200 miles away).	☐	○	☑	○
	W046	22CCR 66262.34(e)	*Satellite storage:* Haz waste disposed of at least once / year (even if < 100 kg / 27 gallons accumulated) OR within 90 days of accumulating 55 gallons whichever comes first (eligible for satellite rule only if waste accumulated at / near point of generation and meet labeling and storage conditions).	☐	○	☑	○
HW Tanks	W047	22CCR 66265.195	**HW ABOVE GROUND STORAGE TANKS (ASTS)** Stationary (bolted down and / or plumbed) haz waste storage tanks / tank systems inspected daily and inspections are documented.	☐	☑	☐	○
	W048	22CCR 66262.31-34	Stationary tanks labeled as "Hazardous Waste" and marked with accumulation start date. [Exception: For used oil, label as "Used Oil" rather than "Hazardous Waste"; remaining requirements still apply.]	☑	○	☐	○
Unauth Treatment	TP00	H&SC 25201	Authorized treatment of hazardous wastes.	☐	○	☑	○

Is Facility an LQG of HW (generates >1,000 kg/270 gallons/2,200 lbs/month)? NO ☑ YES ☐ If YES, complete LQG Checklist.

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RETURN TO COMPLIANCE STATEMENT

This *Return To Compliance Statement* must be returned to EMD within 19 days of your facility's inspection for Priority Corrective Action violations and within 35 days for all other violations (unless otherwise noted on the Notice To Comply). Also include copies of any proof of compliance documents (e.g. photos, copies of manifests/disposal records or receipts, or other original paperwork).

Compliance Certification

1. *I certify that the violations noted on the Notice To Comply (and accompanying inspection checklists) have been corrected in the manner indicated below.*
2. *I have personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate and complete.*
3. *I am aware that there are significant penalties for submitting false information and/or for non-compliance with violations noted.*
4. *I declare under penalty of perjury that the foregoing certification is true and correct.*

Executed at: , *California* *Date:*

Signature: *Printed Name:*

Position/Title:

SUMMARY OF HAZARDOUS WASTE VIOLATION COMPLIANCE ACTION

Violation Code	Check Type of Evidence Submitted			Violation Code	Check Type of Evidence Submitted			Violation Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
W000	☐	☐	☐	W023	☐	☐	☐	W046	☐	☐	☐
W001	☐	☐	☐	W024	☐	☐	☐	W047	☐	☐	☐
W002	☐	☐	☐	W025	☐	☐	☐	W048	☐	☐	☐
W003	☐	☐	☐	W026	☐	☐	☐	TP00	☐	☐	☐
W004	☐	☐	☐	W027	☐	☐	☐				
W005	☐	☐	☐	W028	☐	☐	☐				
W006	☐	☐	☐	W029	☐	☐	☐				
W007	☐	☐	☐	W030	☐	☐	☐				
W008	☐	☐	☐	W031	☐	☐	☐				
W009	☐	☐	☐	W032	☐	☐	☐				
W010	☐	☐	☐	W033	☐	☐	☐				
W011	☐	☐	☐	W034	☐	☐	☐				
W012	☐	☐	☐	W035	☐	☐	☐				
W013	☐	☐	☐	W036	☐	☐	☐				
W014	☐	☐	☐	W037	☐	☐	☐				
W015	☐	☐	☐	W038	☐	☐	☐				
W016	☐	☐	☐	W039	☐	☐	☐				
W017	☐	☐	☐	W040	☐	☐	☐				
W018	☐	☐	☐	W041	☐	☐	☐				
W019	☐	☐	☐	W042	☐	☐	☐				
W020	☐	☐	☐	W043	☐	☐	☐				
W021	☐	☐	☐	W044	☐	☐	☐				
W022	☐	☐	☐	W045	☐	☐	☐				

Statements:

CHECKLIST SUMMARY OF VIOLATIONS FOR APSA FACILITIES (Page 1 of 2)

FACILITY ID#: FA0007014	SPECIALIST: KNOCKE	INSPECTION DATE: 08/10/10
FACILITY NAME/DBA: Sacramento 4010 MVCD	ADDRESS: 8631 Bond Rd. Elk Grove CA 95624	
DATE FACILITY BEGAN OPERATIONS:	DATE OF INITIAL SPCC PLAN: 10/1/09	DATE OF LAST SPCC PLAN REVIEW: 08/29/09

FACILITY CAPACITY/CLASSIFICATION

O <10,000 ☒ <100,000 O <1,000,000 O <10,000,000 O <100,000,000

O Exempt ☒ APSA ☒ USEPA

USEPA (40CFR 112.6)

☒ NON-QUALIFIED FACILITY O TIER I QUALIFIED FACILITY O TIER II QUALIFIED FACILITY

READ THESE INSTRUCTIONS:

1. Violations summarized on this checklist are further denoted on the **Notice to Comply.** The items checked below refer to specific section numbers of Chapter 6.67 of the California Health and Safety Code (H&SC) and Title 40 of the Code of Federal Regulations (CFR). All violations must be corrected.
2. Corrective action must be demonstrated with proof of compliance within **35 days** for all violations or **19 days** for re-inspections by completion and submission of the **Return to Compliance Statement** on the back of this checklist.

Facility Status is evaluated for each item on this Checklist as follows:
C = Compliance • V=Violation • N/A=Not Applicable • RV=Repeat Violation

	Violation Code	Authority	Requirement	Facility Status C	V	N/A	RV
Recordkeeping	AST 00	HSC 25270.12 (a) & 25270.6	Has a permit for ASTs.	☒	O	☐	O
	AST 01	HSC 25270.6 (a)(1))	Adequate submission / completion of annual Tank Facility Statement.	☒	O	☐	O
	AST 02		**Refer to Checklist Summary for Tier I/II APSA Facilities.**				
	AST 03	HSC 25270.4.5 & 25270.5	Facility has a written SPCC Plan (ref. 40 CFR 112.3-.7).	☒	O	☐	O
	AST 04	HSC 25270.4.5 & 25270.5	SPCC Plan template (Tier I) or self-certified SPCC Plan (Tier II) for qualified facilities has been completed (aggregate storage capacity between 1,320 and 10,000 gallons) (ref. 40 CFR 112.6).	☐	O	☒	O
	AST 05		**Refer to Checklist Summary for Tier I/II APSA Facilities.**				
	AST 06	HSC 25270.4.5 & 25270.12(a)	SPCC Plan is maintained on site and available for review (ref. 40 CFR 112.3 (e)).	☒	O	☐	O
	AST 07	HSC 25270.4.5 & 25270.5	SPCC Plan has been certified by a registered Professional Engineer (PE) (required if facility has >10,000 gallon capacity (ref. 40 CFR 112.3 (d)).	☒	O	☐	O
	AST 08	HSC 25270.4.5 & 25270.5	SPCC Plan has been reviewed (and review documented) within 5 years of the last review/certification date (ref. 40 CFR 112.5(b)).	☐	O	☒	O
	AST 09	HSC 25270.4.5 & 25270.5	SPCC plan has been amended within 6 months of applicable facility changes or applicable 5-year review findings (ref. 40 CFR 112.5(a) and (d)).	☐	O	☒	O
	AST 10	HSC 25270.4.5 & 25270.5	Technical amendments properly certified by a registered PE.	☒	O	☐	O
	AST 11	HSC 25270.8 & 25270.12(a)	Discharges reported to OES & UPA (ref. 40 CFR 112.4).	☒	O	☐	O
	AST 12	HSC 25270.4.5 & HSC 25270.5	Facility has the following records for the past 3 years (ref. 40 CFR 112.7 (e) and 112.8(c)(6)): ☒ Routine inspections of tanks, containers, piping, valves, supports, and foundations, ☒ Periodic integrity testing, ☒ Overfill prevention system inspections/tests, ☒ Training and annual briefings, ☒ Discharging of contained stormwater.	☒	O	☐	O
SPCC Plan Requirements	AST 13	HSC 25270.12(a) & HSC 25270.4.5(a)	Records of inspections and tests signed by supervisor or inspector (ref. 40 CFR 112.7(e)).	☒	O	☐	O
	AST 14	HSC 25270.12(a) & HSC 25270.4.5(a)	SPCC Plan has the written procedures for the following (ref. 40 CFR 112.8): ☒ Routine inspections, ☒ Periodic integrity inspections, ☒ Overfill prevention, ☒ Inspection and discharge of contained stormwater, ☒ Loading, unloading, and movement/facility transfers of oil, ☒ Spill/discharge notification, ☒ Spill/discharge response.	☒	O	☐	O
	AST 15	HSC 25270.4.5 & HSC 25270.5	SPCC Plan includes the physical layout of the facility (written description and facility diagram) (ref. 40 CFR 112.7 (a)(3)).	☒	O	☐	O

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Compliance Certification

1. *I certify that the violations noted on the Notice To Comply (and accompanying inspection checklists) have been corrected in the manner indicated below.*
2. *I have personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate and complete.*
3. *I am aware that there are significant penalties for submitting false information and/or for non-compliance with violations noted.*
4. *I declare under penalty of perjury that the foregoing certification is true and correct.*

Executed at: , *California* *Date:*

Signature: *Printed Name:*

Position/Title:

Summary of Violation Compliance Action

Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
AST00	☐	☐	☐	AST09	☐	☐	☐	AST18	☐	☐	☐
AST01	☐	☐	☐	AST10	☐	☐	☐	AST19	☐	☐	☐
AST02				AST11	☐	☐	☐	AST20	☐	☐	☐
AST03	☐	☐	☐	AST12	☐	☐	☐	AST21	☐	☐	☐
AST04	☐	☐	☐	AST13	☐	☐	☐	AST22	☐	☐	☐
AST05				AST14	☐	☐	☐	AST23	☐	☐	☐
AST06	☐	☐	☐	AST15	☐	☐	☐	AST24	☐	☐	☐
AST07	☐	☐	☐	AST16	☐	☐	☐	AST25	☐	☐	☐
AST08	☐	☐	☐	AST17	☐	☐	☐	AST26	☐	☐	☐

Statements:

RETURN FULLY COMPLETED PINK COPY TO ECD WITHIN 35 DAYS

CHECKLIST SUMMARY OF VIOLATIONS FOR APSA FACILITIES (Page 2 of 2)

FACILITY ID#: FA0007014 | SPECIALIST: Knoche | INSPECTION DATE: 06/10/10

FACILITY NAME/DBA: Sacramento Yolo MVCD | ADDRESS: 8631 Bond Rd. Elk Grove 95624

READ THESE INSTRUCTIONS:

1. Violations summarized on this checklist are further denoted on the **Notice to Comply.** The items checked below refer to specific section numbers of Chapter 6.67 of the California Health and Safety Code (H&SC) and Title 40 of the Code of Federal Regulations (CFR). All violations must be corrected.
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	Violation Code	Authority	Requirement	Facility Status C	V	N/A	RV
Field Compliance	AST 16	HSC 25270.4.5 & HSC 25270.5	Training program for (ref. 40 CFR 112.7 (f)): ☑ Operation and maintenance of equipment to prevent discharges, ☑ Discharge procedure protocols, ☑ Applicable pollution control laws, rules, and regulations, ☑ General facility operations, ☑ SPCC Plan contents.	☑	○	☐	○
	AST 17	HSC 25270.4.5 & HSC 25270.5	SPCC Plan includes (ref. 40 CFR 112.7): ☑ Type of petroleum product, ☑ Capacity of each tank, ☑ Discharge prevention measures, ☑ Discharge or drainage controls (e.g. secondary containment), ☑ Countermeasures for discharge discovery, response, and cleanup, ☑ Methods of disposal of recovered materials, ☑ Spill response contact list/phone numbers, address/location/phone number for facility, ☑ Prediction of the direction, rate of flow, and total quantity of oil which could be discharged from the facility, ☑ Description of containment and/or diversionary structures or equipment.	☑	○	☐	○
	AST 18	HSC 25270.4.5 & HSC 25270.5	Designated person who is accountable for discharge prevention (ref. 40 CFR 112.7 (f)(2)).	☑	○	☐	○
	AST 19	HSC 25270.4.5 & HSC 25270.5	SPCC Plan includes a written commitment of manpower, equipment, and materials required to control/remove any quantity of oil discharged (ref. 40 CFR 112.7 (d)(2)).	☑	○	☐	○
	AST 20	HSC 25270.4.5 & HSC 25270.5	SPCC Plan has been implemented (ref. 40 CFR 112.3 (a)(1), 112.6 (a)(8)) ☑ Type, capacity, contents and locations of tanks, containers, and oil-filled equipment matches the facility diagram, ☑ Overfill prevention system matches the descriptions SPCC Plan, ☑ Secondary containment size/dimensions/capacity and drainage valve type/arrangement matches the SPCC Plan, ☑ Security/lighting of the oil handling equipment and areas matches the SPCC Plan.	☑	○	☐	○
	AST 21	HSC 25270.12(a) & HSC 25270.4.5(a)	Appearance (condition, cleanliness, etc.) of tanks, containers, piping, drainage areas, and secondary containment consistent with inspection records and statements in procedures (ref. 40 CFR 112.8(c)).	☑	○	☐	○
	AST 22	HSC 25270.4.5 & HSC 25270.5	Master flow and drain valves are secured and closed when in non-operating or non-standby status (ref. 40 CFR 112.7 (g)).	☑	○	☐	○
	AST 23	HSC 25270.4.5 & HSC 25270.5	Personnel familiar with stated training and procedures (ref. 40 CFR 112.7(f)).	☑	○	☐	○
	AST 24	HSC 25270.12(a) & HSC 25270.4.5(a)	Areas/equipment secured as described in SPCC Plan (ref. 40 CFR 112.7(g)).	☑	○	☐	○
	AST 25	HSC 25270.12(a) & HSC 25270.4.5(a)	Observed practices/handling consistent with stated procedures in SPCC Plan.	☑	○	☐	○
	AST 26	HSC 25270.12(a) & HSC 25270.4.5(a)	Active measures used for general secondary containment appear reasonable and supportable considering spill predictions, personnel training, location, drills, and equipment location and content.	☑	○	☐	○

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4. *I declare under penalty of perjury that the foregoing certification is true and correct.*

Executed at: , *California* *Date:*

Signature: *Printed Name:*

Position/Title:

Summary of Violation Compliance Action

Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
AST00	☐	☐	☐	AST09	☐	☐	☐	AST18	☐	☐	☐
AST01	☐	☐	☐	AST10	☐	☐	☐	AST19	☐	☐	☐
AST02				AST11	☐	☐	☐	AST20	☐	☐	☐
AST03	☐	☐	☐	AST12	☐	☐	☐	AST21	☐	☐	☐
AST04	☐	☐	☐	AST13	☐	☐	☐	AST22	☐	☐	☐
AST05				AST14	☐	☐	☐	AST23	☐	☐	☐
AST06	☐	☐	☐	AST15	☐	☐	☐	AST24	☐	☐	☐
AST07	☐	☐	☐	AST16	☐	☐	☐	AST25	☐	☐	☐
AST08	☐	☐	☐	AST17	☐	☐	☐	AST26	☐	☐	☐

Statements:

RETURN FULLY COMPLETED PINK COPY TO ECD WITHIN 35 DAYS

HAZARDOUS MATERIALS FACILITY INSPECTION NOTES

Facility Type:	☒SBP ☒WG OTP OUST ☒AST OUW OSW OREINSPECTION				Page 1 of 4
Inspection Date:	06/10/10	Facility ID #:	FA0007014	Specialist:	Rebecca Knoche
Facility Name:	Sacramento/Yolo MVCD			consent:	Gary Goodman: Asst. mgr.
Facility Address:	8631 Bond Rd. Sacramento 95624				

	Name(s) of Hazardous Materials Observed (previous)	Amount	Location		Name(s) of Hazardous Materials Observed (previous)	Amount	Location
1.	propane (forklift)	2x 7gal	shop	11.	Golden Bear larva pest.	1x 200gal	outside
2.	coolant	1x 55gal	"	12.	methoprene briquets	4 pallets	pesticide room
3.	gear oil (80w-90)	2x 1gal	"	13.	BTI	3 pallets	
4.	ATF	2x 1gal	"	14.	Vectolex CG	2 pallets	
5.	Ar/CO2	1x 300ft³	welding shop	15.	pyrethra 3x 55gal	1x 250gal	
6.	Argon	1x 240ft³		16.	mineral oil	1x 55gal	
7.	Oxygen	1x 240ft³		17.	larvicide GB1111	2x 30gal	
8.	acetylene 1x 132ft³	1x 129ft³		18.	natular XRT	1 pallet	
9.	diesel → split tank	1x 1000gal	outside	19.	round up	1 20 gal	
10.	gasoline → split tank	1x 1000gal	"	20.	off repellent	1 30 gal	apple barn

☑	Emerg. Equip.	Emerg. Shutoff	Labels	Absorb.	Dumpster / Lid	MSDS	Permit/ Fees Pd	HMP	Training	Disposal records	EPA ID #	Owner Info
Yes	01/10	✓		✓	✓	✓	✓		✓	✓	✓	✓
No			✓					✓				

NOTES: briquets = 1 pallet ≈ 1400 lbs.
2 forklifts: propane operated
Aramark services rags + uniforms
welders certified

Rich: shop supervisor
John Fritz
Marsha: vector ecologist

empty nitrogen tank

** need inventories for mineral oil, NaCl, degreaser

~~GROUNDWATER~~

*need to do daily documented inspections on waste tank

HAZARDOUS MATERIALS FACILITY INSPECTION NOTES

Facility Type:	○BP ○WG ○TP ○UST ○AST ○UW ○SW ○REINSPECTION			Page 2 of 4
Inspection Date:	06/10/10	Facility ID #:	**FA0007014**	Specialist: Rebecca Knoche

Facility Name: Sacramento/Yolo MVCD consent:

Facility Address: 8631 Bond Rd. Sacramento 95624

Name(s) of Hazardous Materials Observed (previous)	Amount	Location	Name(s) of Hazardous Materials Observed (previous)	Amount	Location
21. NaCl (salt)	1 pallet	pole barn	31.		
22. CO_2	1 x 50 lbs	lab	32.		
23. degreaser	1 x 55 gal	wash rack	33.		
24. 15W-40	1 x 55 gal	shop	34.		
25. propane	24 x 5 gal	outside shop	35.		
26.			36.		
27.			37.		
28.			38.		
29.			39.		
30.			40.		

☑	Emerg. Equip.	Emerg. Shutoff	Labels	Absorb.	Dumpster / Lid	MSDS	Permit/ Fees Pd	HMP	Training	Disposal records	EPA ID #	Owner Info
Yes	/											
No												

NOTES:

STORMWATER:

HAZARDOUS WASTE FACILITY INSPECTION NOTES (*continued*) Page 3 of 4

Facility ID #:	FA0007014	Active? EPA ID No: C A L 0 0 0 0 4 9 9 0 7	○ CESQG	(✓) status ○ SQG	○ LQG

Hazardous Waste(s) Observed (previous / Inv sheet)	Amount On-Site	Location	Monthly	Annually
used oil filters 6/4/10	1x55gal	shop		
Used antifreeze 4/23/10	1x55gal			
Waste brake cleaner	1x5gal			
Univ. Waste aerosol cans	1x1gal			
waste brake shavings no label	1x5gal		→ dispose of	
Waste oily absorbent 2/11/10	1x55gal			
waste bead blast dust	small ½ gallon		→ dispose of	
Ag parts washer	1x30gal			
Waste acetone (y w/ trace pesticide	1x2.5gal	laboratory		
wash rack sump	1x40gal	wash rack		

DISPOSAL RECORDS (*use continuation sheet if additional space is needed*)

HAULER NAME & EPA ID #	WASTE	Date	Amount	Date	Amount	Date	Amount
Safety Kleen	sump pump pit (non-haz)	5/26/10	330gal	9/10/09	385gal		
Evergreen	used oil	6/8/10	200gal	6/4/10	165gal	12/9/09	225gal
		6/9/09	200gal	12/29/08	385gal	4/10/08	150gal
		10/10/07	275gal				
"	grease	6/4/10	50gal				
"	grease debris	6/4/10	1CY box	2/11/10	2200lbs		
"	used oil filters	9/10/09	1drum	2/9/09	1drum		
"	waste solid/sludge	8/29/07	45gal				
"	used antifreeze	6/22/09	45gal	9/15/08	40gal		
"	used oily water	8/29/07	165gal				

NOTES:

throws 03zymats in garbage from Ag parts washer - has lab results on site. Metals not at hazardous levels.

HAZARDOUS WASTE FACILITY INSPECTION NOTES (*continued*) Page 4 of 4

Facility ID #:	FA0007014	EPA ID No:											status		
		C	A	L	0	0	0	0	4	9	9	0	7	○CESQG	●SQG	○LQG

Hazardous Waste(s) Observed (previous / Inv sheet)	Amount On-Site	Location	Monthly	Annually
Waste oil (AST) 6/8/10	1x500gal	outside		

DISPOSAL RECORDS (*use continuation sheet if additional space is needed*)

HAULER NAME & EPA ID #	WASTE	Date	Amount	Date	Amount	Date	Amount
Safety Kleen	haz waste(l) a.q.	4/19/10	4gal	12/11/09	2gal	8/7/09	4gal
		4/3/09	4gal	4/26/08	5gal		
11	oily absorbent	4/3/09	400lbs				

NOTES:

Knoche. Rebecca CORRESPONDENCE

From: Gary W. Goodman [gwgoodman@sac-yolomvcd.com]
Sent: Wednesday, June 23, 2010 9:25 AM
To: Knoche. Rebecca
Subject: RE: Sac-Yolo Mosquito Test Results

FA0007014

Rebecca,

Yes, we will be handling them all as hazardous waste from now on. I'll send you photos with the report and the manifests when the material gets picked up (should be by the end of the week). Thanks again.

Gary

-----Original Message-----
From: Knoche. Rebecca [mailto:BahrR@saccounty.net]
Sent: Wednesday, June 23, 2010 9:20 AM
To: Gary W. Goodman
Subject: RE: Sac-Yolo Mosquito Test Results

Gary,

No worries. Are they labeled now? If so, please send a photo, and then when they are disposed of please send over the manifest. I want to make sure that I understand fully, it sounds like you are going to manage all three waste streams as hazardous waste? By the way, questions are always good:) Thanks.

Rebecca Knoche
Environmental Specialist
Environmental Management Department

-----Original Message-----
From: Gary W. Goodman [mailto:gwgoodman@sac-yolomvcd.com]
Sent: Wednesday, June 23, 2010 9:13 AM
To: Knoche. Rebecca
Subject: RE: Sac-Yolo Mosquito Test Results

Rebecca,

Thanks for the information. It's probably just easier for us to dispose of them as hazardous waste. Do you want to see the manifests for that or just pictures of the proper labeling and a summary in the report that they are being disposed of properly? Thanks again, and sorry for all of our questions.

Gary

-----Original Message-----
From: Knoche. Rebecca [mailto:BahrR@saccounty.net]
Sent: Wednesday, June 23, 2010 8:59 AM
To: Gary W. Goodman

Subject: RE: Sac-Yolo Mosquito Test Results

Hi Gary,

Thank you for these lab results. The lab ran what is called a TTLC, total metals which is measured in mg/kg. If the limit reaches or exceeds the STLC trigger point then a STLC (which is measured in mg/L) test needs to be run. So, I need you to ask the lab to run an STLC on the following:

Sand Blast (Red Garnett)
-chromium
-copper
-lead

Brake Dust
-cadmium
-chromium
-copper
-lead
-nickel

Ozzy Juice
-lead
-chromium

All of these metals met or exceeded that trigger point. The STLC test is the California test and will tell us if these three waste streams are "hot" (hazardous). It is up to you if you want to continue with the testing because it gets a little more expensive with the STLC test. Or, you can just manage all of these as a hazardous waste. Let me know, hope this helps. Thanks.

Rebecca Knoche
Environmental Specialist
Environmental Management Department

-----Original Message-----
From: Gary W. Goodman [mailto:gwgoodman@sac-yolomvcd.com]
Sent: Wednesday, June 23, 2010 8:15 AM
To: Knoche. Rebecca
Subject: Sac-Yolo Mosquito Test Results

Rebecca,

Here are the results of the brake dust, sand blast, and ozzy mats. Let me know your suggestions for disposal. Thanks.

Gary

k.1?

RE:
RE

CALIFORNIA LABORATORY SERVICES

06/18/10 09:16

Sacramento - Yolo Mosquito & Vecor Control	Project: Shop Bond Road	
8631 Bond Road	Project Number: [none]	**CLS Work Order #: CTF0568**
Elk Grove, CA 95624	Project Manager: Rich Dryden	COC #: 117353

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sand Blast (Red Garnett) (CTF0568-01) Soil	**Sampled: 06/11/10 00:00**	**Received: 06/14/10 09:00**							
Arsenic	**14**	1.0	mg/kg	10	CT04271	06/15/10	06/15/10	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	25	"	"	CT04272	06/15/10	06/16/10	EPA 6010B	
Barium	**470**	10	"	"	"	"	"	"	
Beryllium	ND	5.0	"	"	"	"	"	"	
Cadmium	ND	5.0	"	"	"	"	"	"	
Cobalt	**35**	10	"	"	"	"	"	"	
Chromium	**63**	10	"	"	"	"	"	"	
Copper	**1500**	10	"	"	"	"	"	"	
Lead	**95**	25	"	"	"	"	"	"	
Molybdenum	ND	10	"	"	"	"	"	"	
Nickel	**22**	10	"	"	"	"	"	"	
Silver	**6.5**	5.0	"	"	"	"	"	"	
Vanadium	**85**	10	"	"	"	"	"	"	
Zinc	**420**	10	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	CT04274	06/15/10	06/15/10	EPA 7471A	
Brake Dust (CTF0568-02) Soil	**Sampled: 06/11/10 00:00**	**Received: 06/14/10 09:00**							
Arsenic	**56**	2.0	mg/kg	20	CT04271	06/15/10	06/15/10	EPA 6020/7000	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Antimony	**93**	2.5	"	1	CT04272	06/15/10	06/15/10	EPA 6010B	
Barium	**63**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	**27**	0.50	"	"	"	"	"	"	
Cobalt	**37**	1.0	"	"	"	"	"	"	
Chromium	**860**	1.0	"	"	"	"	"	"	
Copper	**2500**	1.0	"	"	"	"	"	"	
Lead	**66**	2.5	"	"	"	"	"	"	
Molybdenum	**90**	1.0	"	"	"	"	"	"	
Nickel	**280**	1.0	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Vanadium	ND	1.0	"	"	"	"	"	"	
Zinc	**91**	1.0	"	"	"	"	"	"	

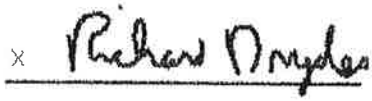
CALIFORNIA LABORATORY SERVICES

06/18/10 09:16

Sacramento - Yolo Mosquito & Vecor Control	Project: Shop Bond Road	
8631 Bond Road	Project Number: [none]	**CLS Work Order #: CTF0568**
Elk Grove, CA 95624	Project Manager: Rich Dryden	COC #: 117353

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brake Dust (CTF0568-02) Soil Sampled: 06/11/10 00:00 Received: 06/14/10 09:00									
Mercury	ND	0.10	mg/kg	1	CT04274	06/15/10	06/15/10	EPA 7471A	
10-3 Ozzy Juice (Smart Washer Filter) (CTF0568-03) Soil Sampled: 06/11/10 00:00 Received: 06/14/10 09:00									
Arsenic	**1.7**	1.0	mg/kg	10	CT04271	06/15/10	06/15/10	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	**25**	2.5	"	1	CT04272	06/15/10	06/15/10	EPA 6010B	
Barium	**78**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	**2.0**	0.50	"	"	"	"	"	"	
Cobalt	**1.2**	1.0	"	"	"	"	"	"	
Chromium	**9.4**	1.0	"	"	"	"	"	"	
Copper	**48**	1.0	"	"	"	"	"	"	
Lead	**50**	2.5	"	"	"	"	"	"	
Molybdenum	**9.8**	1.0	"	"	"	"	"	"	
Nickel	**11**	1.0	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Vanadium	**2.7**	1.0	"	"	"	"	"	"	
Zinc	**840**	1.0	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CT04274	06/15/10	06/15/10	EPA 7471A	

X 

CUSTOMER / GENERATOR :rich

X 

TRANSPORTER :MCHIASS

BRANCH 7138 CSG 7 MCHIASS, 06/25/10 12:22 PAGE

REFERENCE NBR
51325219

CUSTOMER#/GENERATOR: 347092 SAC YOLO CO MAID
8631 Bond Rd
Elk Grove CA 95624-1477 SRVC DATE: 06/25/10
PHONE 916-405-2069
GENERATOR USEPA ID. CAL000034322 GENERATOR STATE
MANIFEST DOC#: 003333701fle FORM CODE: 1D SK SHIPMENT NO: 201282777
CARRIER 1 TXR000050930 SAFETY-KLEEN SYSTEMS, INC.
6000 88TH STREET
SACRAMENTO,CA. 95828
CARRIER 2

US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID)

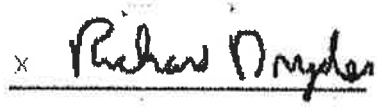
NON-RCRA HAZARDOUS WASTE, LIQUID
(AQUEOUS PARTS WASHER SOLUTION)
FEDERAL WASTE CODES NONE
STATE WASTE CODES 134
TOTAL CONT 1 TYPE DM WT/VOL G SKDOT 14941
CNT#: 100625297430 QTY: 15 PROFILE: 0150135CA CAT CODE:G

DESIGNATED FACILITY NAME/ADDRESS:
SAFETY-KLEEN SYSTEMS, INC.
6000 88TH STREET
SACRAMENTO CA 95828

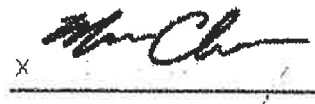
FACILITY USEPA ID NO CA0000084517
FACILITY STATE ID NO

GENERATOR STATUS
0 - 220 lbs/month

Intended to satisfy the requirements of 40 CFR 262.20(e). IN THE EVENT OF AN EMERGENCY CALL 1-800-468-1760 (24 hours)

X 

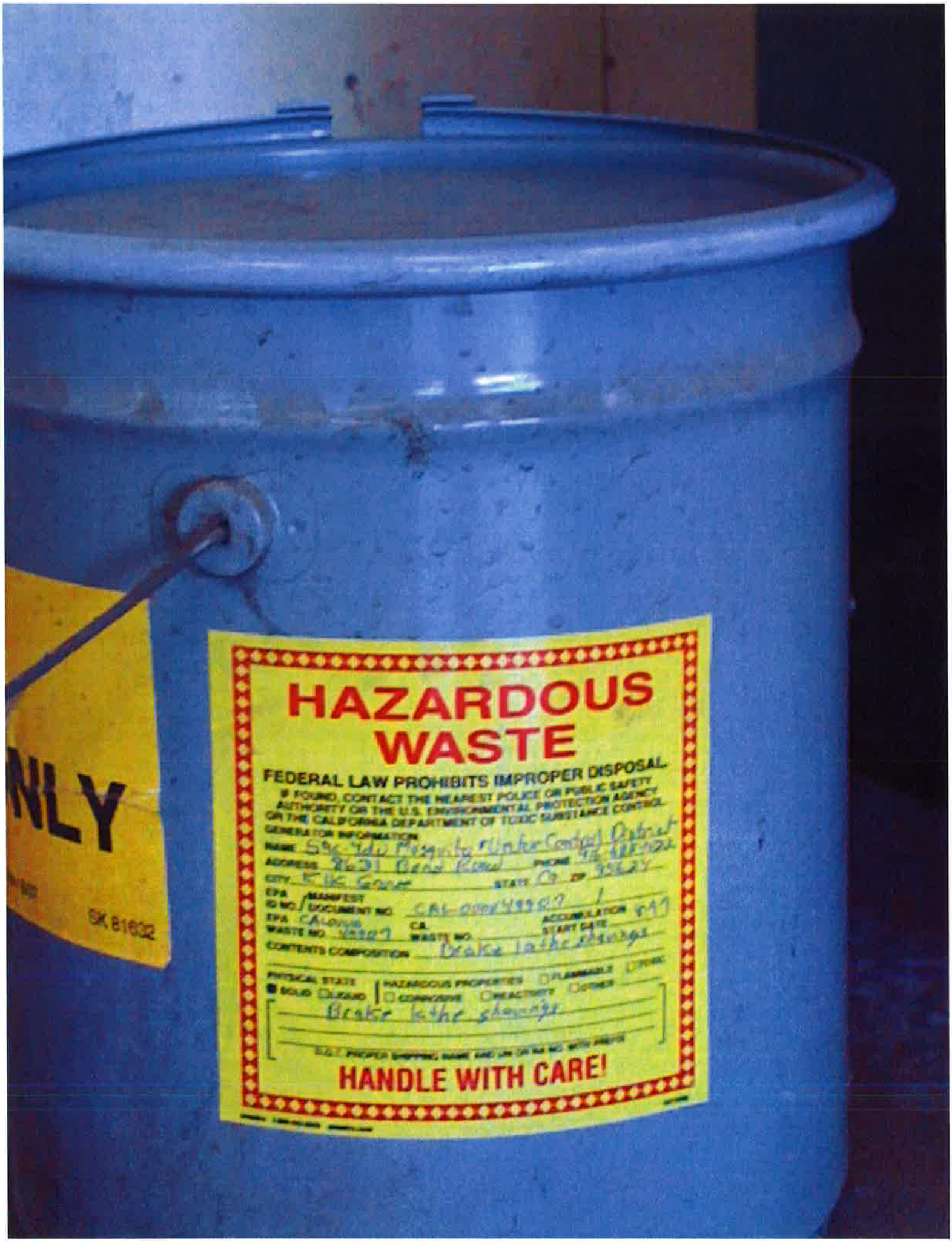
CUSTOMER / GENERATOR :rich

X 

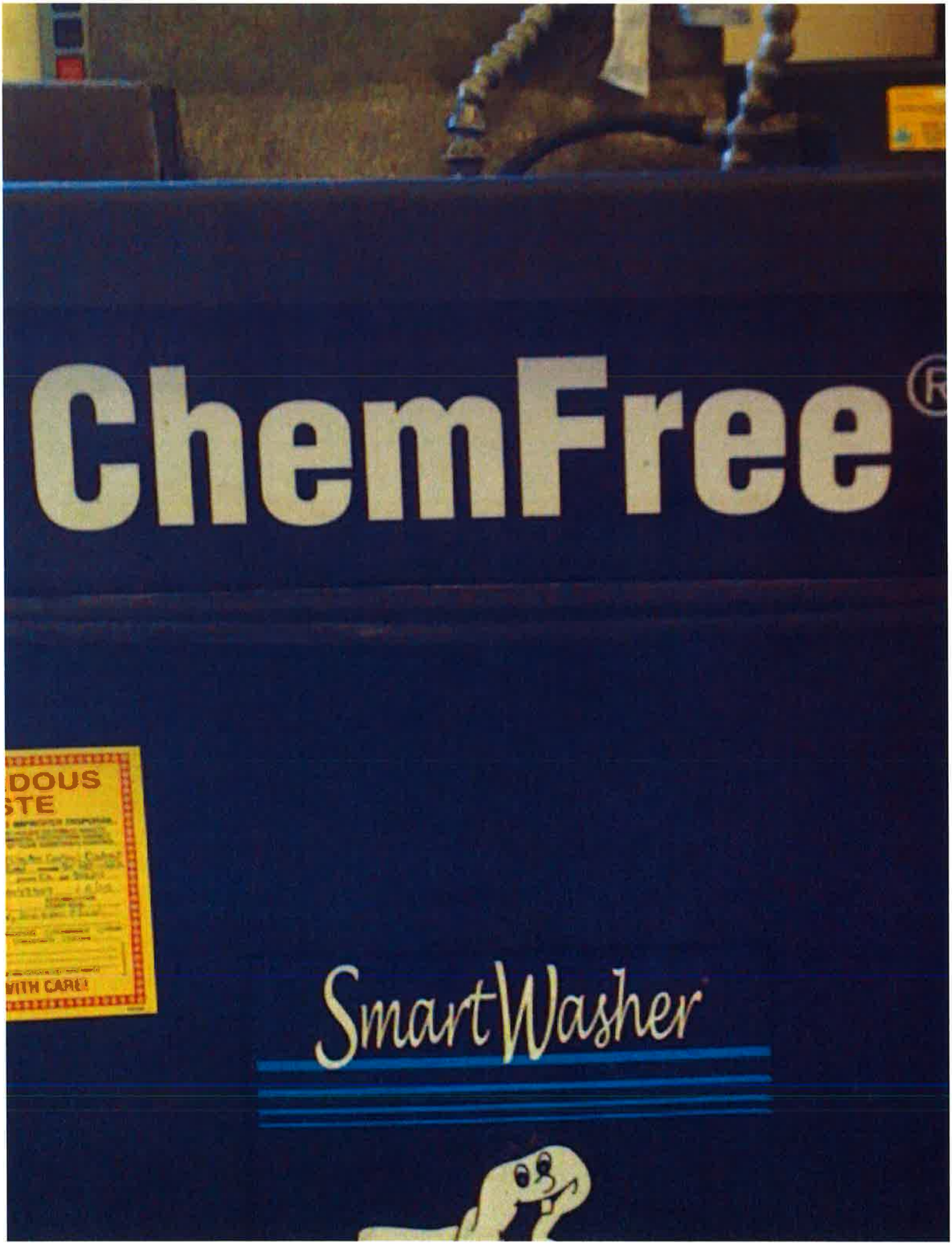
TRANSPORTER :MCHIASS

LAST PAGE


CABINET
50 LBS.
Warning!
Use Eye Protection!
WARNING


NLY
SK 81602
HAZARDOUS WASTE
FEDERAL LAW PROHIBITS IMPROPER DISPOSAL
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCE CONTROL
GENERATOR INFORMATION
NAME
ADDRESS
CITY
STATE
ZIP
PHONE
EPA ID NO. / MANIFEST DOCUMENT NO.
EPA WASTE NO.
CA WASTE NO.
ACCUMULATION START DATE
CONTENTS COMPOSITION
Brake lathe shavings
PHYSICAL STATE
SOLID
LIQUID
HAZARDOUS PROPERTIES
CORROSIVE
REACTIVITY
FLAMMABLE
TOXIC
OTHER
Brake lathe shavings
HANDLE WITH CARE!


HAZARDOUS
WASTE
HANDLE WITH CARE!


ChemFree®
DOUS
STE
WITH CARE!
SmartWasher


HANDLE WITH CARE!
HAZARDOUS
WASTE

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000034322
2. Page 1 of 1
3. Emergency Response Phone: 1-800-468-1760
4. Manifest Tracking Number: 003333830 FLE

5. Generator's Name and Mailing Address:
SAC YOLO CO MAID
8631 BOND RD
ELK GROVE CA 95624
Generator's Phone: [illegible]

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: SAFETY-KLEEN SYSTEMS, INC. — U.S. EPA ID Number: TXR000050930

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address:
SAFETY-KLEEN SYSTEMS, INC.
1722 COOPER CREEK ROAD
DENTON, TX 76208
Facility's Phone: 940-483-5200
U.S. EPA ID Number: 7401 TXD077603371

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. EXEMPT SCRAP METAL FOR RECYCLE (METAL BRAKE SHAVINGS) Brake dust	1	DM	[illegible]	P	OUTS 3071
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
SK SHIP#201282798 347092 CS8:
24 HR EMERGENCY #1-800-468-1760 (SAFETY-KLEEN - 94130)

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Richard Dryden — Signature: [signature] — Month 6 Day 25 Year 10

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month 6 Day 25 Year 10
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

1)140787/150176

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000034322
2. Page 1 of: 1
3. Emergency Response Phone: 1-800-468-1760
4. Manifest Tracking Number: 003333831 FLE

5. Generator's Name and Mailing Address:
SAC YOLO CO MAID
8631 BOND RD
ELK GROVE CA 95624
Generator's Phone: 916-685-3065

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: SAFETY-KLEEN SYSTEMS, INC. — U.S. EPA ID Number: TXR000050930

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address:
US ECOLOGY NEVADA
11 MILES S OF BEATTY HWY 95
BEATTY , NV 89003
Facility's Phone: 800-239-3943
U.S. EPA ID Number: NVT330010000

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. HAZARDOUS WASTE, SOLID, N.O.S. (LEAD, CHROMIUM) 9 NA3077 PG III *Bead blast*	1	DM	150	P	D005 D006 D007 D008 181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
SK SHIP#201282809 347092 C99;
1)ERG#0171;
24 HR EMERGENCY #1-800-468-1760 (SAFETY-KLEEN - 94138)

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: *Richard Dryden* — Signature: *[signature]* — Month 6 Day 25 Year 10

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: *Marc Clawson* — Signature: *[signature]* — Month 6 Day 25 Year 10
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

GENERATOR / TRANSPORTER / INT'L / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. GENERATOR'S INITIAL COPY

11400700/12109

County of Sacramento ● Environmental Management Department ● Environmental Compliance Division
10590 Armstrong Avenue • Suite A • Mather, CA 95655
Internet Address: http://www.emd.saccounty.net Voice (8am – 5pm): 916/875-8550 • FAX: 916/875-8513

RETURN TO COMPLIANCE STATEMENT

This *Return To Compliance Statement* must be returned to EMD within 19 days of your facility's inspection for Priority Corrective Action violations and within 35 days for all other violations (unless otherwise noted on the Notice To Comply). Also include copies of any proof of compliance documents (e.g. photos, copies of manifests/disposal records or receipts, or other original paperwork).

Compliance Certification

1. *I certify that the violations noted on the Notice To Comply (and accompanying inspection checklists) have been corrected in the manner indicated below.*
2. *I have personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate and complete.*
3. *I am aware that there are significant penalties for submitting false information and/or for non-compliance with violations noted.*
4. *I declare under penalty of perjury that the foregoing certification is true and correct.*

Executed at: ELK GROVE, *California* *Date:* 06/25/10

Signature: [signature] *Printed Name:* GARY GOODMAN

Position/Title: ASSISTANT MANAGER

Summary of Violation Compliance Action

Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted			Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
HM00	☐	☐	☐	HM11	☐	☐	☐	HM33	☐	☐	☐
HM01	☐	☐	☐	HM12	☐	☐	☐	HM34	☐	☐	☐
HM02	☐	☒	☒	HM20	☐	☐	☐	HM35	☐	☐	☐
HM02A	☐	☐	☐	HM21	☐	☐	☐	HM40	☐	☐	☐
HM02B	☐	☐	☐	HM22	☐	☐	☐	HM41	☐	☐	☐
HM03	☐	☐	☐	HM23	☐	☐	☐				
HM04	☐	☐	☐	HM30	☐	☐	☐				
HM07	☐	☐	☐	HM31	☐	☐	☐				
HM10	☐	☐	☐	HM32	☐	☐	☐				

Statements:

SEE ATTACHED LETTER FROM SYMVCD TO EMD

County of Sacramento • Environmental Management Department • Environmental Compliance Division
10590 Armstrong Avenue, Ste. A • Mather, CA 95655
Voice (8am – 5pm): 916/875-8550 • FAX: 916/875-8513

RETURN TO COMPLIANCE STATEMENT

This *Return To Compliance Statement* **must be returned** to the ECD **within 35 days** of your facility's inspection, **demonstrate compliance** with each violation noted at your recent facility inspection, **and be accompanied by proof of compliance** (photos, copies of manifests/disposal records or receipts, or other original paperwork) where appropriate.

Compliance Certification

1. *I certify that the violations noted on the Notice To Comply (and accompanying inspection checklists) have been corrected in the manner indicated below.*
2. *I have personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate and complete.*
3. *I am aware that there are significant penalties for submitting false information and/or for non-compliance with violations noted.*
4. *I declare under penalty of perjury that the foregoing certification is true and correct.*

Executed at: ELK GROVE, *California* *Date:* 06/25/10

Signature: [signature] *Printed Name:* GARY GOODMAN

Position/Title: ASSISTANT MANAGER

SUMMARY OF HAZARDOUS WASTE VIOLATION COMPLIANCE ACTION

Violation Code	Check Type of Evidence Submitted			Violation Code	Check Type of Evidence Submitted			Violation Code	Check Type of Evidence Submitted		
	Photo	Paperwork	Statement		Photo	Paperwork	Statement		Photo	Paperwork	Statement
W000	☐	☐	☐	W023	☐	☐	☐	W046	☐	☐	☐
W001	☐	☐	☐	W024	☐	☐	☐	W047	☐	☒	☐
W002	☐	☐	☐	W025	☐	☐	☐	W048	☐	☐	☐
W003	☐	☐	☐	W026	☐	☐	☐	TP00	☐	☐	☐
W004	☐	☐	☐	W027	☐	☐	☐				
W005	☐	☐	☐	W028	☐	☐	☐				
W006	☐	☐	☐	W029	☐	☐	☐				
W007	☐	☐	☐	W030	☐	☐	☐				
W008	☐	☐	☐	W031	☐	☐	☐				
W009	☐	☐	☐	W032	☐	☐	☐				
W010	☐	☐	☐	W033	☐	☐	☐				
W011	☐	☐	☐	W034	☐	☐	☐				
W012	☐	☐	☐	W035	☐	☐	☐				
W013	☐	☐	☐	W036	☐	☐	☐				
W014	☐	☐	☐	W037	☐	☐	☐				
W015	☐	☐	☐	W038	☐	☐	☐				
W016	☐	☐	☐	W039	☐	☐	☐				
W017	☒	☒	☒	W040	☐	☐	☐				
W018	☐	☐	☐	W041	☐	☐	☐				
W019	☐	☐	☐	W042	☐	☐	☐				
W020	☐	☐	☐	W043	☐	☐	☐				
W021	☐	☐	☐	W044	☐	☒	☒				
W022	☐	☐	☐	W045	☐	☐	☐				

Statements: SEE ATTACHED LETTER FROM SYMUD TO EMD

FA0007014

Notify the Environmental Management Department of any change o ownership, type of business activity, business name, or billing address by calling 916-875-8550. Failure to notify Environmental Management may result in late penalties, Permit denial or revocation, and business closure PERMITS TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s) prior to beginning operation.

YOUR PERMIT MUST BE RETAINED ON THE PREMISES

ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
10590 ARMSTRONG AVE
MATHER CA 95655
(916) 875-8550

REGULATED FACILITY:

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 8/27/2010

OWNER NAME:

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10-15 MATLS
VALID FROM JULY 20, 2010 TO AUGUST 19, 2011

PR0027123 5306 HAZARDOUS WASTE GENERATOR FEE 500-2500 GAL
VALID FROM JULY 20, 2010 TO AUGUST 19, 2011

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM JULY 20, 2010 TO AUGUST 19, 2011

PR0043138 5442 AST 10,000 GALLONS AND LESS THAN 100,000
VALID FROM JULY 20, 2010 TO AUGUST 19, 2011

Permits to operate and Annual Fee Payments are NOT TRANSFERABLE. Those referenced above are valid ONLY for this owner SACRAMENTO/YOLO MVCD. Permits become VOID on change of ownership. New owners must apply and pay for a new Permit(s) PRIOR to beginning operation or penalties will be assessed.

Environmental Management Department
10590 Armstrong Avenue Ste. A
Mather, CA 95655
Tel: (916) 875-8550
Fax: (916) 875-8513
www.emd.saccounty.net/

NOV 12 2010
ENVIRONMENTAL MANAGEMENT DEPT. COMPLIANCE DIVISION

Aboveground Petroleum Storage Tank Facility Statement
Notification/Change in Status

I. Facility/Business Information

Facility ID#: F A 0 0 0 7 0 1 4

Facility Name	Owner Name
Sacramento / Yolo Mosquito & Vector District	
Facility Address 103	**Owner Mailing Address** 113
8631 Bond Rd	
City 104 / **State** / **Zip** 105	**City** 114 / **State** 115 / **Zip** 116
Elk Grove / CA / 95624	
Billing Address (if different from above)	
Contact Name 117	**Facility Phone** 118 / **Owner Phone** 112
Gary Goodman	916-685-1022
Contact E-mail 119	Does the facility have an SPCC plan? 920
gwgoodman@sac-yolomved.com	Yes ☒ No ☐

II. Total Facility Capacity (in gallons)

	921
Facility's total aboveground petroleum storage **capacity** for all tanks or containers greater than or equal to 55 gallons:	10,555 gal
Capacity of the largest tank/container that stores petroleum at your facility (in gallons):	8000 gal

III. Tank and Container Details

Attach additional forms if your facility has any additional tanks or containers.

922 Tank/Container ID# (e.g. 1, 2, etc.)	923 Contents (Gas, Diesel, etc.)	924 Capacity in gallons	925 Location of Tank/Container	926 Year Installed	927 Tank type:	928 Secondary Containment
#1	Golden Bear 1111 Petroleum larvacide	8000	N/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#2	Gasoline	1,000	N/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#3	Diesel	1,000	N/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#4	used motor oil	500	E/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#5	15-40 Rotella Oil	55	Maintenance shop	N/A	☐Steel ☐Fiberglass/Plastic ☒Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
					☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☐Yes ☐No
					☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☐Yes ☐No
					☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☐Yes ☐No

IV. Signature

I certify under penalty of law that the information submitted is accurate and complete to the best of my knowledge.

Signature of owner or tank facility operator	Printed name of owner or tank facility operator 136	Date (mm/dd/yyyy) 134
	GARY GOODMAN	11/08/2010

See Instructions on back

APSA 05/09

Aboveground Storage Tank Facility Statement Instruction Page

I. Facility/Business Information

1. FACILITY ID# - Enter your 7 digit facility identification number, which can be found on your consolidated permit. (Ex: FA0001234)
3. FACILITY NAME - Enter the "Doing Business As" name.
103. FACILITY ADDRESS - Enter the street address where the aboveground storage tank facility is located. No post office box numbers are allowed. This information must provide a means to locate the facility geographically.
104. CITY - Enter the city or unincorporated area in which the aboveground storage tank facility is located.
105. ZIP CODE - Enter the zip code of aboveground storage tank facility. The extra 4 digit zip may also be added.
111. BUSINESS OWNER NAME - Enter name of business owner.
113. BUSINESS OWNER MAILING ADDRESS - Enter the owner's mailing address, if different from business address.
114. BUSINESS OWNER CITY - Enter the name of the city for the owner's mailing address, if different from business address.
115. OWNER STATE - Enter the 2 character state abbreviation for the owner's mailing address, if different from business address.
116. BUSINESS OWNER ZIP CODE - Enter the zip code for the owner's address, if different from business address. The extra 4 digit zip may also be added.
117. CONTACT NAME - Enter the name of the person who should receive Aboveground Storage Tank correspondence.
118. CONTACT PHONE - Enter the phone number, area code first, and any extension.
112. OWNER PHONE - Enter the business owner's phone number, if different from business phone, area code first, and any extension.
119. CONTACT EMAIL – Enter the email address of the environmental contact.
920. DOES THE FACILITY HAVE AN SPCC PLAN – Check the box. A Spill Prevention Control and Countermeasure (SPCC) plan is prepared in accordance with the guidelines contained in U.S. Environmental Protection Agency's Web site at http://www.epa.gov/oilspill/spcc.htm. This plan discusses procedures, methods, and equipment in place at the facility to prevent discharges of petroleum from reaching navigable waters. A complete copy of the SPCC plan must be maintained on site.

II. Total Facility Capacity

921. Total Facility Capacity – enter the facility's total petroleum aboveground storage tank/container capacity (in gallons). Aboveground storage tank means a tank/container that has the capacity to store 55 gallons or more of petroleum and that is substantially or totally above the surface of the ground.

III. Tank and Container Details

922. TANK/CONTAINER ID# - Enter a unique tank/container identification number. You may create your own numbering or naming system.
923. CONTENTS - Enter the contents (e.g. DIESEL, GASOLINE, OIL, etc.) of the aboveground petroleum storage tank/container.
924. CAPACITY – Enter the aboveground storage tank/container's capacity (in gallons). For drums with identical contents enter the aggregate total for all drums (e.g. 4 X 55 gallon drums= 220 gallons).
925. TANK/CONTAINER LOCATION – Enter general location (e.g. EAST, WEST, NORTH, SOUTH) of the tank/container at your facility.
926. YEAR INSTALLED – Enter the year the aboveground storage tank/container was installed.
927. TANK TYPE - Check the construction type or enter the material used to construct the aboveground storage tank.
928. SECONDARY CONTAINMENT – Check the appropriate box if the tank/container has secondary containment.

IV. Applicant Signature – The application form must be signed in the space provided.

134. DATE – Enter the date (mm/dd/yyyy) the form was signed.
136. APPLICANT NAME – Print or type the full name of the person signing the form.

EXAMPLE:

922 Tank/Container ID# (e.g. 1, 2, etc.)	923 Contents (Gas, Diesel, etc.)	924 Capacity in gallons	925 Location of Tank/Container	926 Year Installed	927 Tank type:	928 Secondary Containment
#1	Gasoline	2,000	north	n/a	☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☒Vehicle ☐Other:	☐Yes ☒No
#22 A	Used oil	550	east	2001	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
ATF	Automatic transmission fluid	220	west	n/a	☐Steel ☐Fiberglass/Plastic ☒Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#1A	Diesel	2,000	north	2005	☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☒Generator ☐Vehicle ☐Other:	☒Yes ☐No

Countywide Services Agency

Environmental Management Department

Environmental Compliance Division

Elise Rothschild, Chief

County of Sacramento

Steven C. Szalay, Interim County Executive

Bruce Wagstaff, Agency Administrator

Val F. Siebal, Department Director

EV0055481*FA0007014*8631 BOND RD
ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

DUE DATE:
SEPTEMBER 7, 2011

Request for Hazardous Materials Plan (HMP) or Annual HMP Renewal

Requirement

Hazardous Materials Plans (HMPs) and Permits are required by state law for all businesses that:

- store, handle, use or otherwise maintain reportable quantities (generally, 55 gallons, 500 pounds or 200 cubic feet; refer to HMP Instruction Booklet for definition and exceptions) of hazardous materials/hazardous wastes on site at any one time,
- generate any amount of hazardous wastes, or
- have underground storage tanks.

What you must do

You must submit your completed HMP documents (enclosed) to our office within 60 days.

Documents enclosed reflect your current submittal status

Your business has been identified as one that is subject to HMP requirements.

Your HMP submittal requirements are dependent upon whether our records indicate that you have previously submitted to us a current and valid HMP.

We are enclosing with this letter an HMP packet that reflects your current submittal status as described in this table:

If our records indicate that you've:	Then, you'll find enclosed for your completion and return:
- not yet submitted an HMP, or - your last HMP submittal is more than one year old	a complete ***new*** HMP packet, distinguished by its ***blue*** cover
- submitted an HMP and qualify for renewal status,	a streamlined HMP ***renewal*** packet, distinguished by its ***green*** cover

Continued on next page

10590 Armstrong Avenue Suite A - Mather CA 95655-4153 - (916) 875-8550 - FAX (916) 875-8513

Request for Hazardous Materials Plan (HMP) or Annual HMP Renewal,
continued

Documents that must be completed and returned

This table describes which documents you must complete and return.

If the packet enclosed is...	and you have...	Then you must submit...
blue	- never submitted an HMP, or, - no current HMP on file with us in the last 12 months,	a fully completed HMP containing these documents: - Business Activities Form, - Business Owner/Operator Identification Form, - Hazardous Materials Inventory Forms, site map, and - Consolidated Contingency Plan.
green	no changes from your previously submitted HMP,	the completed and signed: - HMP Annual Renewal Certification Form, - Business Activities Form, and - Business Owner/Operator Identification Form.
green	any changes from your previously submitted HMP,	the completed and signed: - HMP Annual Renewal Certification Form, - Business Activities Form, - Business Owner/Operator Identification Form, and - the revised portions of your chemical inventory, site map and/or contingency plan.

Assistance available

HMD staff are available to assist you in completing your HMP at workshops held twice a month as described in the enclosure entitled Schedule and Requirements for Attending Business Assistance Workshops.

You may also obtain assistance from one of our Hazardous Materials Specialists by calling (916) 875-8550.

Compliance benefits everyone

The HMD encourages compliance with environmental laws from all businesses. We hope that all businesses achieve compliance without the assessment of considerable fines/penalties.

Remember, environmental laws protect our entire community and your individual compliance benefits everyone.

Countywide Services Agency

Environmental Management Department

Environmental Compliance Division

Elise Rothschild, Chief

County of Sacramento

Steven C. Szalay, Interim County Executive

Bruce Wagstaff, Agency Administrator

Val F. Siebal, Department Director

EV0055481*FA0007014*8631 BOND RD
ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

DUE DATE:
SEPTEMBER 7, 2011

Request for Hazardous Materials Plan (HMP) or Annual HMP Renewal

Requirement

Hazardous Materials Plans (HMPs) and Permits are required by state law for all businesses that:

- store, handle, use or otherwise maintain reportable quantities (generally, 55 gallons, 500 pounds or 200 cubic feet; refer to HMP Instruction Booklet for definition and exceptions) of hazardous materials/hazardous wastes on site at any one time,
- generate any amount of hazardous wastes, or
- have underground storage tanks.

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Documents enclosed reflect your current submittal status

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If our records indicate that you've:	Then, you'll find enclosed for your completion and return:
- not yet submitted an HMP, or - your last HMP submittal is more than one year old	a complete ***new*** HMP packet, distinguished by its ***blue*** cover
- submitted an HMP and qualify for renewal status,	a streamlined HMP ***renewal*** packet, distinguished by its ***green*** cover

Continued on next page

10590 Armstrong Avenue Suite A - Mather CA 95655-4153 - (916) 875-8550 - FAX (916) 875-8513

Request for Hazardous Materials Plan (HMP) or Annual HMP Renewal,
continued

Documents that must be completed and returned

This table describes which documents you must complete and return.

If the packet enclosed is...	and you have...	Then you must submit...
blue	- never submitted an HMP, or, - no current HMP on file with us in the last 12 months,	a fully completed HMP containing these documents: - Business Activities Form, - Business Owner/Operator Identification Form, - Hazardous Materials Inventory Forms, site map, and - Consolidated Contingency Plan.
green	no changes from your previously submitted HMP,	the completed and signed: - HMP Annual Renewal Certification Form, - Business Activities Form, and - Business Owner/Operator Identification Form.
green	any changes from your previously submitted HMP,	the completed and signed: - HMP Annual Renewal Certification Form, - Business Activities Form, - Business Owner/Operator Identification Form, and - the revised portions of your chemical inventory, site map and/or contingency plan.

Assistance available

HMD staff are available to assist you in completing your HMP at workshops held twice a month as described in the enclosure entitled Schedule and Requirements for Attending Business Assistance Workshops.

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Compliance benefits everyone

The HMD encourages compliance with environmental laws from all businesses. We hope that all businesses achieve compliance without the assessment of considerable fines/penalties.

Remember, environmental laws protect our entire community and your individual compliance benefits everyone.

FA0007014

Notify the Environmental Management Department of any change of ownership, type of business activity, business name, or billing address by calling 916-875-8550. Failure to notify Environmental Management may result in late penalties, Permit denial or revocation, and business closure. PERMITS TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s) prior to beginning operation.

ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

YOUR PERMIT MUST BE RETAINED ON THE PREMISES

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
10590 ARMSTRONG AVENUE
MATHER CA 95655
(916) 875-8550

REGULATED FACILITY :

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 9/30/2011

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10-15 MATLS
VALID FROM JULY 20, 2011 TO AUGUST 18, 2012

PR0027123 5306 HAZARDOUS WASTE GENERATOR FEE 500-2500 GAL
VALID FROM JULY 20, 2011 TO AUGUST 18, 2012

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM JULY 20, 2011 TO AUGUST 18, 2012

PR0043138 5442 AST > 10,000 GALLONS TO < 100,000 GALLONS
VALID FROM JULY 20, 2011 TO AUGUST 18, 2012

Permits to operate and Annual Fee Payments are NOT TRANSFERABLE. Those referenced above are valid ONLY for this owner SACRAMENTO/YOLO MVCD. Permits become VOID on change of ownership. New owners must apply and pay for a new Permit(s) PRIOR to beginning operation or penalties will be assessed.

Environmental Management Department
10590 Armstrong Avenue Ste. A
Mather, CA 95655
Tel: (916) 875-8550
Fax: (916) 875-8513
www.emd.saccounty.net/

RECEIVED
NOV - 2 2011
ENVIRONMENTAL HEALTH

Aboveground Petroleum Storage Tank Facility Statement
Notification/Change in Status

I. AST Facility/Operator Information

Facility ID# F A 0 0 0 7 0 1 4

Facility Name		AST Owner Name	
Sacramento-Yolo Mosquito & Vector Dist.			
Facility Address 103		**AST Owner Mailing Address** 113	
8631 Bond Rd			
City 104 / **State** / **Zip** 105		**City** 114 / **State** 115 / **Zip** 116	
Elk Grove / CA / 95624			
Facility Mailing (if different from above)		**AST Owner Contact Name** 970	
Facility Contact Name 117	**Facility Phone** 118	**AST Owner Phone** 971	
Gary Goodman			
Facility Contact E-mail 119	Does the facility have an SPCC plan? Yes ☒ No ☐ 920		
gwgoodman@sac-yolomvcd.com			

II. Total Facility Capacity (in gallons)

	921
Facility's total aboveground petroleum storage capacity for all tanks or containers greater than or equal to 55 gallons:	10,555
Capacity of the single largest tank/container that stores petroleum at your facility (in gallons):	8,000

III. Tank and Container Details

Attach additional forms if your facility has any additional tanks or containers.

922 Tank/Container ID# (e.g. 1, 2, etc.)	923 Contents (Gas, Diesel, etc.)	924 Capacity in gallons	925 Location of Tank/Container	926 Year Installed	927 Tank type:	928 Secondary Containment
#1	Empty/Residual Golden Bear 1111 Petroleum Larvicide	8,000	N/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#2	Gasoline	1,000	N/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#3	Diesel	1,000	N/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#4	used Motor oil	500	E/Yard	1994	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
#5	15-40 Rotella oil	55	Maintenance Shop	N/A	☒Steel ☐Fiberglass/Plastic ☒Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐No
					☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☐Yes ☐No
					☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☐Yes ☐No
					☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☐Yes ☐No

IV. Signature

I certify under penalty of law that the information submitted is accurate and complete to the best of my knowledge.

Signature of owner or tank facility operator	Printed name of owner or tank facility operator 132	Date (mm/dd/yyyy) 134
	GARY GOODMAN	11/01/2011

See Instructions on back

Aboveground Storage Tank Facility Statement Instruction Page

I. Facility/Business Information

1. FACILITY ID# - Enter your 7 digit facility identification number, which can be found on your consolidated permit. (Ex: FA0001234)
3. FACILITY NAME - Enter the "Doing Business As" name.
103. FACILITY ADDRESS - Enter the street address where the aboveground storage tank facility is located. No post office box numbers are allowed. This information must provide a means to locate the facility geographically.
104. CITY - Enter the city or unincorporated area in which the aboveground storage tank facility is located.
105. ZIP CODE - Enter the zip code of aboveground storage tank facility. The extra 4 digit zip may also be added.
111. AST OWNER NAME - Enter name of the person or business that owns the ASTs.
112. AST OWNER PHONE – Enter the AST owner's phone number.
113. AST OWNER MAILING ADDRESS - Enter the AST owner's mailing address, if different from business address.
114. AST OWNER CITY - Enter the name of the city for the AST owner's mailing address, if different from business address.
115. AST OWNER STATE - Enter the 2 character state abbreviation for the owner's mailing address, if different from business address.
116. AST OWNER ZIP CODE - Enter the zip code for the owner's address, if different from business address. The extra 4 digit zip may also be added.
117. CONTACT NAME - Enter the name of the person who should receive Aboveground Storage Tank correspondence.
118. CONTACT PHONE - Enter the phone number, area code first, and any extension.
970. AST OWNER CONTACT NAME – Enter the name of the contact person for the owner of the AST
971. AST OWNER PHONE - Enter the AST owner's phone number, if different from business phone, area code first, and any extension.
119. CONTACT EMAIL – Enter the email address of the environmental contact.
920. DOES THE FACILITY HAVE AN SPCC PLAN – Check the box. A Spill Prevention Control and Countermeasure (SPCC) plan is prepared in accordance with the guidelines contained in U.S. Environmental Protection Agency's Web site at http://www.epa.gov/oilspill/spcc.htm. This plan discusses procedures, methods, and equipment in place at the facility to prevent discharges of petroleum from reaching navigable waters. A complete copy of the SPCC plan must be maintained on site.

II. Total Facility Capacity

921. Total Facility Capacity – enter the facility's total petroleum aboveground storage tank/container capacity (in gallons). Aboveground storage tank means a tank/container that has the capacity to store 55 gallons or more of petroleum and that is substantially or totally above the surface of the ground.

III. Tank and Container Details

922. TANK/CONTAINER ID# - Enter a unique tank/container identification number. You may create your own numbering or naming system.
923. CONTENTS - Enter the contents (e.g. DIESEL, GASOLINE, OIL, etc.) of the aboveground petroleum storage tank/container.
924. CAPACITY – Enter the aboveground storage tank/container's capacity (in gallons). For drums with identical contents enter the aggregate total for all drums (e.g. 4 X 55 gallon drums= 220 gallons).
925. TANK/CONTAINER LOCATION – Enter general location (e.g. EAST, WEST, NORTH, SOUTH) of the tank/container at your facility.
926. YEAR INSTALLED – Enter the year the aboveground storage tank/container was installed.
927. TANK TYPE - Check the construction type or enter the material used to construct the aboveground storage tank.
928. SECONDARY CONTAINMENT – Check the appropriate box if the tank/container has secondary containment.

IV. Applicant Signature – The application form must be signed in the space provided.

134. DATE – Enter the date (mm/dd/yyyy) the form was signed.
136. APPLICANT NAME – Print or type the full name of the person signing the form.

EXAMPLE:

922 Tank/Container ID# (e.g. 1, 2, etc.)	923 Contents (Gas, Diesel, etc.)	924 Capacity in gallons	925 Location of Tank/Container	926 Year Installed	927 Tank type:	928 Secondary Containment
#1	Gasoline	2,000	north	n/a	☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☒Vehicle ☐Other:	☐Yes ☒ No
#22 A	Used oil	550	east	2001	☒Steel ☐Fiberglass/Plastic ☐Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐ No
ATF	Automatic transmission fluid	220	west	n/a	☐Steel ☐Fiberglass/Plastic ☒Drum(s) ☐Generator ☐Vehicle ☐Other:	☒Yes ☐ No
#1A	Diesel	2,000	north	2005	☐Steel ☐Fiberglass/Plastic ☐Drum(s) ☒Generator ☐Vehicle ☐Other:	☒Yes ☐ No

Countywide Services Agency

Environmental Management Department

Environmental Compliance Division

Elise Rothschild, Chief

County of Sacramento

Bradley J. Hudson, County Executive

Bruce Wagstaff, Agency Administrator

Val F. Siebal, Department Director

EV0061337*FA0007014*8631 BOND RD
ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

DUE DATE:

SEPTEMBER 7, 2012

Request for Hazardous Materials Plan (HMP) or Annual HMP Renewal

Requirement

Hazardous Materials Plans (HMPs) and Permits are required by state law for all businesses that:

- store, handle, use or otherwise maintain reportable quantities (generally, 55 gallons, 500 pounds or 200 cubic feet; refer to HMP Instruction Booklet for definition and exceptions) of hazardous materials/hazardous wastes on site at any one time,
- generate any amount of hazardous wastes, or
- have underground storage tanks.

What you must do

You must submit your completed HMP documents (enclosed) to our office within 60 days.

Documents enclosed reflect your current submittal status

Your business has been identified as one that is subject to HMP requirements.

Your HMP submittal requirements are dependent upon whether our records indicate that you have previously submitted to us a current and valid HMP.

We are enclosing with this letter an HMP packet that reflects your current submittal status as described in this table:

If our records indicate that you've:	Then, you'll find enclosed for your completion and return:
- not yet submitted an HMP, or - your last HMP submittal is more than one year old	a complete ***new*** HMP packet, distinguished by its ***blue*** cover
- submitted an HMP and qualify for renewal status,	a streamlined HMP ***renewal*** packet, distinguished by its ***green*** cover

Continued on next page

Request for Hazardous Materials Plan (HMP) or Annual HMP Renewal,
continued

Documents that must be completed and returned

This table describes which documents you must complete and return.

If the packet enclosed is...	and you have...	Then you must submit...
blue	- never submitted an HMP, or, - no current HMP on file with us in the last 12 months,	a fully completed HMP containing these documents: - Business Activities Form, - Business Owner/Operator Identification Form, - Hazardous Materials Inventory Forms, site map, and - Consolidated Contingency Plan.
green	no changes from your previously submitted HMP,	the completed and signed: - HMP Annual Renewal Certification Form, - Business Activities Form, and - Business Owner/Operator Identification Form.
green	<u>any</u> changes from your previously submitted HMP,	the completed and signed: - HMP Annual Renewal Certification Form, - Business Activities Form, - Business Owner/Operator Identification Form, and - the revised portions of your chemical inventory, site map and/or contingency plan.

Assistance available

HMD staff are available to assist you in completing your HMP at workshops held twice a month as described in the enclosure entitled <u>Schedule and Requirements for Attending Business Assistance Workshops</u>.

You may also obtain assistance from one of our Hazardous Materials Specialists by calling (916) 875-8550.

Compliance benefits everyone

The HMD encourages compliance with environmental laws from all businesses. We hope that all businesses achieve compliance without the assessment of considerable fines/penalties.

Remember, environmental laws protect our entire community and your individual compliance benefits everyone.

FA0007014

Notify the Environmental Management Department of any change of ownership, type of business activity, business name, or billing address by calling 916-875-8550. Failure to notify Environmental Management may result in late penalties, Permit denial or revocation, and business closure. PERMITS TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s) prior to beginning operation.

ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

YOUR PERMIT MUST BE RETAINED ON THE PREMISES

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
10590 ARMSTRONG AVENUE
MATHER CA 95655
(916) 875-8550

REGULATED FACILITY: **SACRAMENTO/YOLO MVCD**
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 8/24/2012

OWNER NAME: **SACRAMENTO/YOLO MVCD**

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10-15 MATLS
VALID FROM JULY 20, 2012 TO AUGUST 19, 2013

PR0027123 5306 HAZARDOUS WASTE GENERATOR FEE 500-2500 GAL
VALID FROM JULY 20, 2012 TO AUGUST 19, 2013

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM JULY 20, 2012 TO AUGUST 19, 2013

PR0043138 5442 AST > 10,000 GALLONS TO < 100,000 GALLONS
VALID FROM JULY 20, 2012 TO AUGUST 19, 2013

Permits to operate and Annual Fee Payments are NOT TRANSFERABLE. Those referenced above are valid ONLY for this owner SACRAMENTO/YOLO MVCD. Permits become VOID on change of ownership. New owners must apply and pay for a new Permit(s) PRIOR to beginning operation or penalties will be assessed.

Environmental Management Department

Val F. Siebal, Director

Divisions

Environmental Compliance
Environmental Health

County of Sacramento

EV0066718*FA0007014*8631 BOND RD
ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

DUE DATE:
SEPTEMBER 6, 2013

FACILITY ID :
FA0007014

60 DAY FIRST & ONLY NOTICE

Courtesy Notice: Requirement to Submit Hazardous Materials Plan (HMP)

Requirement

Hazardous Materials Plans (HMPs) are required by state law for all businesses that store, handle, use or otherwise maintain reportable quantities of hazardous materials/hazardous wastes on site at any one time.

Reportable quantity thresholds are: 55 gallons, 500 pounds, or 200 cubic feet.
Visit www.saccounty.net/EnvComp/HM/BusinessPlans.html for definitions and exceptions.

What you must do

Your business has been identified as one that is subject to HMP requirements.

You must submit your completed HMP documents within 60 days. A state law was passed in 2008 requiring all HMP documents must be submitted electronically beginning Jan 1, 2013.
You may submit your plan through the following website: emdportal.saccounty.net

First time users must complete a CUPA logon request prior to accessing the system. Once processed, a username and password will be emailed to you, granting you access into the system. You will be receiving a PIN code in a separate mailer in the next few days that will be used to verify your link with the facility file, and speed up the registration process.
Please note that a complete HMP will be required for your initial electronic submission.

You also have the option to submit your plan on the statewide reporting system, the California Environmental Reporting System (CERS). Visit **cers.calepa.ca.gov** for details.
CERS is recommended for multi-jurisdictional businesses within the state of California.

More information may be found at: www.emd.saccounty.net/e-reporting.

To avoid penalties

Failure to submit your completed HMP by the due date shown at the top of this letter will result in up to **$5000 / day** in civil penalties. Payment of your annual permit fees **does not** relieve you of the requirement to submit your HMP.

Assistance is available

ECD staff are available to assist you in completing your HMP. Weekly workshops are held on Tuesdays at EMD. Please call or visit our website to obtain the exact schedule. Some computers and wireless connections will be available. Please call **(916) 875-2377** to register for a workshop, or to obtain assistance from one of our Environmental Specialists.

Compliance benefits everyone

The ECD encourages compliance with environmental laws from all businesses. We hope that all businesses achieve compliance without the assessment of considerable fines/penalties.

Environmental laws protect our community and your individual compliance benefits everyone.

FA0007014

Notify the Environmental Management Department of any change of ownership, type of business activity, business name, or billing address by calling 916-875-8550. Failure to notify Environmental Management may result in late penalties, Permit denial or revocation, and business closure. PERMITS TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s) prior to beginning operation.

ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

YOUR PERMIT MUST BE RETAINED ON THE PREMISES

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
10590 ARMSTRONG AVENUE
MATHER CA 95655
(916) 875-8550

REGULATED FACILITY

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 8/23/2013

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10-15 MATLS
VALID FROM JULY 19, 2013 TO AUGUST 18, 2014

PR0027123 5306 HAZARDOUS WASTE GENERATOR FEE 500-2500 GAL
VALID FROM JULY 19, 2013 TO AUGUST 18, 2014

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM JULY 19, 2013 TO AUGUST 18, 2014

PR0043138 5442 AST 10,000 GALLONS AND <100,000 GALLONS
VALID FROM JULY 19, 2013 TO AUGUST 18, 2014

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Environmental Management Department

Val F. Siebal, Director

Divisions

Environmental Compliance
Environmental Health

County of Sacramento

EV0072160*FA0007014*8631 BOND RD
ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

DUE DATE:
SEPTEMBER 8, 2014

FACILITY ID :
FA0007014

60 DAY FIRST & ONLY NOTICE

Courtesy Notice: Requirement to Submit Hazardous Materials Plan (HMP)

Requirement

Hazardous Materials Plans (HMPs) are required by state law for all businesses that store, handle, use or otherwise maintain reportable quantities of hazardous materials/hazardous wastes on site at any one time.

Reportable quantity thresholds are: 55 gallons, 500 pounds, or 200 cubic feet.
Visit www.saccounty.net/EnvComp/HM/BusinessPlans.html for definitions and exceptions.

What you must do

Your business has been identified as one that is subject to HMP requirements.

You must submit your completed HMP documents within 60 days. You may submit your plan through the following website: emdportal.saccounty.net

You also have the option to submit your plan on the statewide reporting system, the California Environmental Reporting System (CERS). Visit **cers.calepa.ca.gov** for details.
CERS is recommended for multi-jurisdictional businesses within the state of California.
Your previously submitted information is saved in the system that you originally used. Please review this information and update as needed. You must resubmit the entire HMP packet even if there are no changes to your previous electronic HMP submission.

First time users

First time users must complete a CUPA logon request prior to accessing the system. Once processed, a username and password will be emailed to you, granting you access into the system.

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ATTN: GARY GOODMAN
SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE CA 95624

YOUR PERMIT MUST BE RETAINED ON THE PREMISES

DETACH FORM HERE

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
10590 ARMSTRONG AVENUE
MATHER CA 95655
(916) 875-8550

REGULATED FACILITY

SACRAMENTO/YOLO MVCD
8631 BOND RD
ELK GROVE, CA 95624

Facility ID: FA0007014
Account ID: AR0007025
Issued: 8/22/2014

OWNER NAME :

SACRAMENTO/YOLO MVCD

PERMITTED OPERATION(S):

PR0043139 5206 HAZARDOUS MATLS DISCLOSURE FEE 10-15 MATLS
VALID FROM JULY 21, 2014 TO AUGUST 20, 2015

PR0027123 5306 HAZARDOUS WASTE GENERATOR FEE 500-2500 GAL
VALID FROM JULY 21, 2014 TO AUGUST 20, 2015

PR0043302 5324 SMALL QUANTITY HAZ WG
VALID FROM JULY 21, 2014 TO AUGUST 20, 2015

PR0043138 5442 APSA 10,000 AND <100,000 GALLONS
VALID FROM JULY 21, 2014 TO AUGUST 20, 2015

Permits to operate and Annual Fee Payments are NOT TRANSFERABLE. Those referenced above are valid ONLY for this owner SACRAMENTO/YOLO MVCD. Permits become VOID on change of ownership. New owners must apply and pay for a new Permit(s) PRIOR to beginning operation or penalties will be assessed.

Sacramento County Department
of Community Health
Environmental Health Programs

WATER WELL PERMIT

NO. 003846

DATE ISSUED 7-29-76

OWNER Spero Realty ADDRESS 1829 20th St.

JOB LOCATION 8569 Bond Road

PERMISSION IS HEREBY GRANTED TO: D. Hedman & Co., Contractor

TO CONSTRUCT WELL XXXXXXX

TO RECONSTRUCT WELL

TO ABANDON WELL

TO INSTALL PUMP

TO REPAIR PUMP

TYPE OF WELL		INTENDED USE	
Cable	XX	Domestic, Private	XX
Drilled		Domestic, Public	
Driven		Industrial	
Rotary		Irrigation	
Other		Other	

All work done by virtue of this permit must conform to provisions of the laws of California, the ordinances of the County of Sacramento, and the Rules and Regulations of the Sacramento County Department of Community Health, and must not be used unless inspected and approved.

H. Richard
ISSUED BY

SACRAMENTO COUNTY DEPARTMENT OF COMMUNITY HEALTH

ASSISTANT DIRECTOR FOR ENVIRONMENTAL HEALTH PROGRAMS

D. Hedman & Co.
PUMP INSTALLED BY

(Initials): K.T.

FINAL INSPECTION APPROVED 12/20/76 DATE

EH1000-8/75

COUNTY OF SACRAMENTO

DEPARTMENT OF COMMUNITY HEALTH

COLIN T. GREENLAW, M.D., Director

ENVIRONMENTAL HEALTH PROGRAMS
6730 Folsom Boulevard
Sacramento, CA 95819

APPLICATION FOR WATER WELL PERMIT

PERMIT NUMBER 3846

7/27/76
Date

TO: COLIN T. GREENLAW, M.D., DIRECTOR, DEPARTMENT OF COMMUNITY HEALTH

I, D Hedman & Co., hereby apply for a permit to: Construct X, Repair ___, Abandon ___ a Well; Repair a pump ___, or Install a pump ___, AT:

JOB ADDRESS (please print) 8569 Bond rd

Owner/Agent: Speer Realty Phone: 452-3311

Mailing Address: 1829 20th

I hereby agree to comply with all laws and regulations of the Sacramento County Health Agency and the State of California pertaining to or regulating well construction. Within FIFTEEN DAYS after completion of my work on the well, I will furnish the Sacramento County Health Agency with a log of the well and notify them before putting the well in use.

INTENDED USE	TYPE OF WELL	CONSTRUCTION
___ Industrial	___ Driven	Well Depth 200 Diam. (Inches) 6
X Domestic/private	___ Drilled	Casing: Gauge: 12
___ Domestic/public	___ Rotary	Depth: (feet) 150
___ Irrigation	X Cable	Conductor & Cement: 50
___ Other	___ Other	

PUMP INSTALLATION: By Whom: D Hedman & Co.

Type of Pump: 3 HP Sub.

SIGNED: Eugene Hedman
(Owner or Contractor)

FOR OFFICE USE ONLY:

APPROVED X NOT APPROVED ( )

Richard L. Muller
Sanitarian

7-28-76
Date

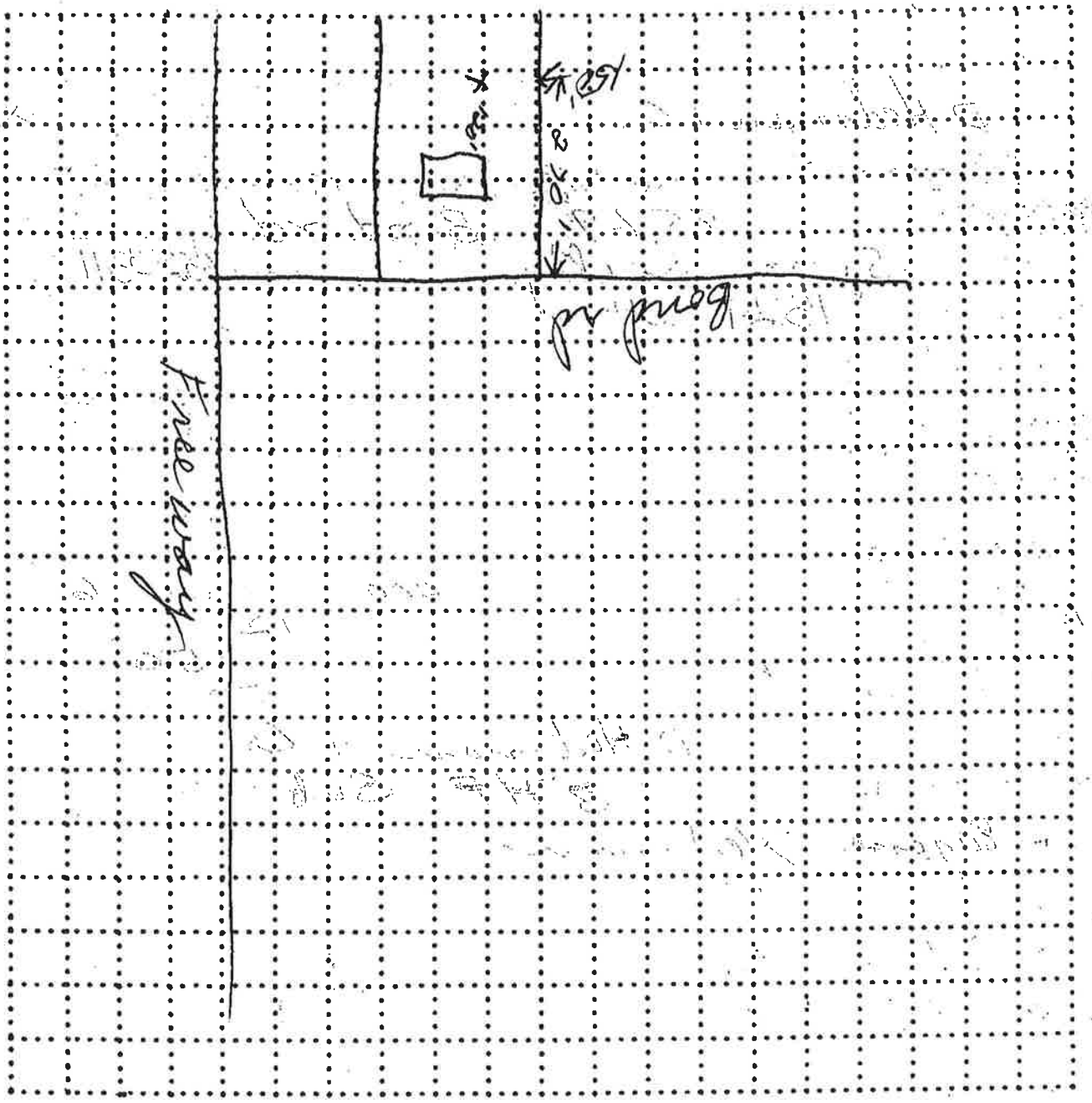
REASON FOR DISAPPROVAL: _____

RECEIVED JUL 27 1976 ENVIRONMENTAL HEALTH PROGRAM

EH 204 1000 11/75

PLOT PLAN:

DRAW A SKETCH OF THE LOT, INCLUDING DIMENSION IN FEET; LOCATION OF WELL; DISTANCES IN FEET FROM PROPERTY LINES; SEPTIC TANK, DRAIN LINES, SEEPAGE PITS, SEWER LINE, STREAM, CREEK OR DRAINAGE CANAL; AND OTHER PERTINENT INFORMATION.



APPLICATION AND PERMIT FOR SEWAGE DISPOSAL SYSTEM

ON0001725

Department of Community Health
Environmental Health Programs
366-2101

3701 Branch Center Road
Sacramento, California 95827

OFFICE USE ONLY	NAME	DATE
Received by:	Quelici	11-19-76
Approved by:	Quelici	11-19-76
Finaled by:	KA	11-23-76

003248

Receipt No. 47467 Permit No. _____

Date Issued: 11-19-76

Date 11-15-76 Property Owner STATE WIDE CONST. Phone Number 448-8241

Mailing Address 2109-21ST ST SACTO.

JOB LOCATION

Street Address 8569 BOND RD X-Street STOCKTON BLVD.

Subdivision Name Hewitt Estates Lot Number #5

Parcel Number 116-041-0700 Date Parcel Recorded _____

DESIGN INFORMATION

New ☑ Repair ☐ Other ☐ Number of Bedrooms 3 If other, explain _____

Single Family ☑ Mobile Home ☐ Other ☐ If other, explain _____

Water Supply: Private Well ☑ Public ☐ Soils Studies Accomplished: Yes ☐ No ☐ By Whom: _____ Date _____

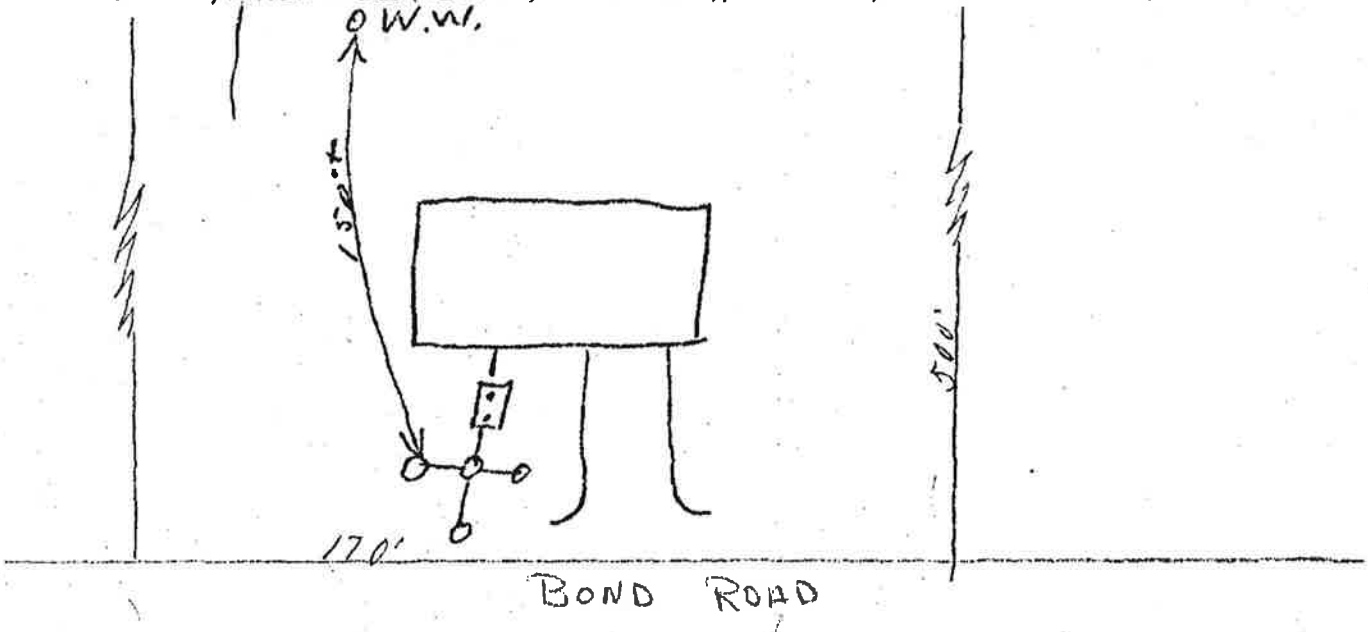
INSTALLATION

Septic Tank: New ☑ Existing ☐ Size: 250 gals. Tank pumped: Yes ☐ No ☐

Leaching Pits: Number 3, 3' Feet Diameter 35' Feet Deep.

Deep Trench ☐ Leach Line ☐ : Length: _____ Lineal Feet, Width: _____ ft, Depth _____ ft.

PLOT PLAN: *SHOW STREETS, WATER COURSES, PARCEL DIMENSIONS, LOCATION OF STRUCTURES, LAYOUT OF SEPTIC SYSTEM, WATER WELLS (ALSO ADJACENT WELLS), CONTOURS, AND ANY OTHER REQUIRED INFORMATION.*



FILE COPY

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT AND THAT THE PROPOSED WORK WILL BE DONE TO MEET THE REQUIREMENTS OF SACRAMENTO COUNTY CODE, CHAPTER 6.32 AND ALL REGULATIONS OF THE COUNTY HEALTH OFFICER. A FEE OF $25.00 FOR THE SANITATION PERMIT IS SUBMITTED HEREWITH. THIS PERMIT WILL EXPIRE ONE YEAR FROM DATE OF ISSUE.

John L. Solomon
OWNER OR CONTRACTOR

SVI-100 9-17-(

ENVI[redacted]NTAL HEALTH DIVISION 875-8440
HAZARDOUS MATERIALS DIVISION 875-8550
APPOINTMENT 875-8442

WELL APPLICATION and PERMIT FORM

ENVIRONMENTAL MANAGEMENT DEPARTM
8475 JACKSON ROAD, SUITE 230/
SACRAMENTO, CA 958

FOR OFFICE USE ONLY SV0003301 WP0013267

994752

☐ DISAPPROVED ☒ APPROVED Date Received: 9/13/99 Permit Number:
☐ APPROVED WITH CONDITIONS (See attachment) Date Issued: / / Census Tract: 96

By: Jack King Date: 9/13/99 Total Fee: $ 128.00 Receipt Number: 28933

Grout inspection By: Date: / / Deferred By: Site Number

Actual Well Depth: Actual Grout Depth: Final Inspection By: Date: / /

Depth to first Water: Well Destruction Inspection By: [signature] Date: 9/17/99

Reinspection By: Date(s): Fee @ Prevaling Rate: $

COMMENTS: Two wells destroyed - additional well found after permit issued WB 9-17

APPLICATION FOR A PERMIT TO PERFORM WORK AT THE LOCATION AS INDICATED BELOW:

Inspecting Division: ☐ ENVIRONMENTAL HEALTH ☐ HAZARDOUS MATERIALS

Site Address: 8569 Bond Rd City: Elk Grove Zip: 95624

Nearest Major Cross Street: Bond & E. Stockton Parcel Number:

Property Owner: Calif Fitness Family Center Phone Number:

Owner's Address: City: Zip:

Well Contractor: Goodell Well & Pump Service License Number: 719016 Type: C-57

Contractor Address: PO Box 507 Expiration Date: 2/00

City: Elverta Zip: 95624 Phone: 992-1031 Well/Boring Identification Number:

WORK TO BE PERFORMED:

☐ Construct Well, (C-57 Lic. Req.) ☐ Install New Pump, (C-57, C-61 or Class A) ☐ Test Hole With Destruction (C-57 Lic. Req.)

☐ Deepen Well, (C-57 Lic. Req.) ☐ Repair/Replace Pump, (C-57, C-61 or Class A) ☐ Inactivation Permit , Owner Only

☐ Repair Well, (C-57 Lic. Req.) ☒ Destroy Well (C-57 Lic. Required) ☐ Other (state)

Comments:

DISTANCE TO NEAREST: Leach Field: Leach Pit: Septic Tank: Sewer Line:
Stream, ditch, Drainage Canal: 100 year flood plain:

INTENDED USE:
☐ Domestic/Private
☐ Public Water System
☐ Irrigation
☐ Cathodic Protection
Monitoring
Extraction/Recovery
Other (state)

DRILLING METHOD:
☐ Auger
☐ Cable Tool
☐ Driven
☐ Rotary
☐ Other (state)

CONSTRUCTION SPECIFICATIONS

BOREHOLE: Diameter: Depth: Gravel Pack: ☐ Yes ☐ No
CASING: Diameter: Depth:
If Steel, Gauge: or Thickness:
If Plastic, Type: (MUST MEET ASTM F-480)
If Conductor, Diameter: Depth:
GROUT: Depth: Sealing Material:
TRANSITION SEAL: Material: Interval:

Comments:

PUMP INSTALLATION/REPAIR: Contractor: License Number:
Type of Pump: Horse Power: License Type: Expiration Date:

WELL/TEST HOLE DESTRUCTION: Diameter: 6" Total Depth: 170 Depth to Water: 95'

I comply with all Codes, Rules and Regulations of the State and County pertaining to or regulating well construction, call for grout/destruction inspection **at least 48 hours prior to placement of sealing material**, notify the Department within 5 days of the completion of my work so a final inspection can be made and obtain final approval before placing the well in service.

Signature: [signature] ☐ Property Owner ☒ Well Contractor

Name: Goodell, Steve ☐ Agent for Property Owner* ☐ Agent for Well Contractor*

Company: Goodell Well & Pump Phone: 992-1031 *Authorization Verified By:

Address: PO Box 507 City, State, Zip: Elverta Ca 95626

A SITE PLAN MUST BE SUBMITTED WITH EACH APPLICATION
PERMIT EXPIRES ONE (1) YEAR FROM DATE ISSUED

\FORMS\EHD\WELLAPP Reprint 3/12/96 White - EMD Yellow - Contractor/Owner

ENVIRONMENTAL HEALTH PLOT PLAN SHEET
FOR WATER WELL & SEWAGE DISPOSAL SYSTEM PERMITS

COUNTY OF SACRAMENTO
ENVIRONMENTAL MANAGEMENT DEPARTMENT
(916) 386-7682

ENVIRONMENTAL HEALTH DIVISION
8475 JACKSON ROAD, SUITE 240
SACRAMENTO, CA. 95826

****

STREET ADDRESS OR PARCEL NUMBER 8569 Bond Rd AND STREET NAME DATE 9/13/99

CENSUS TRACT 96 CONTRACTOR Goodell well Rig PERMIT # 994752

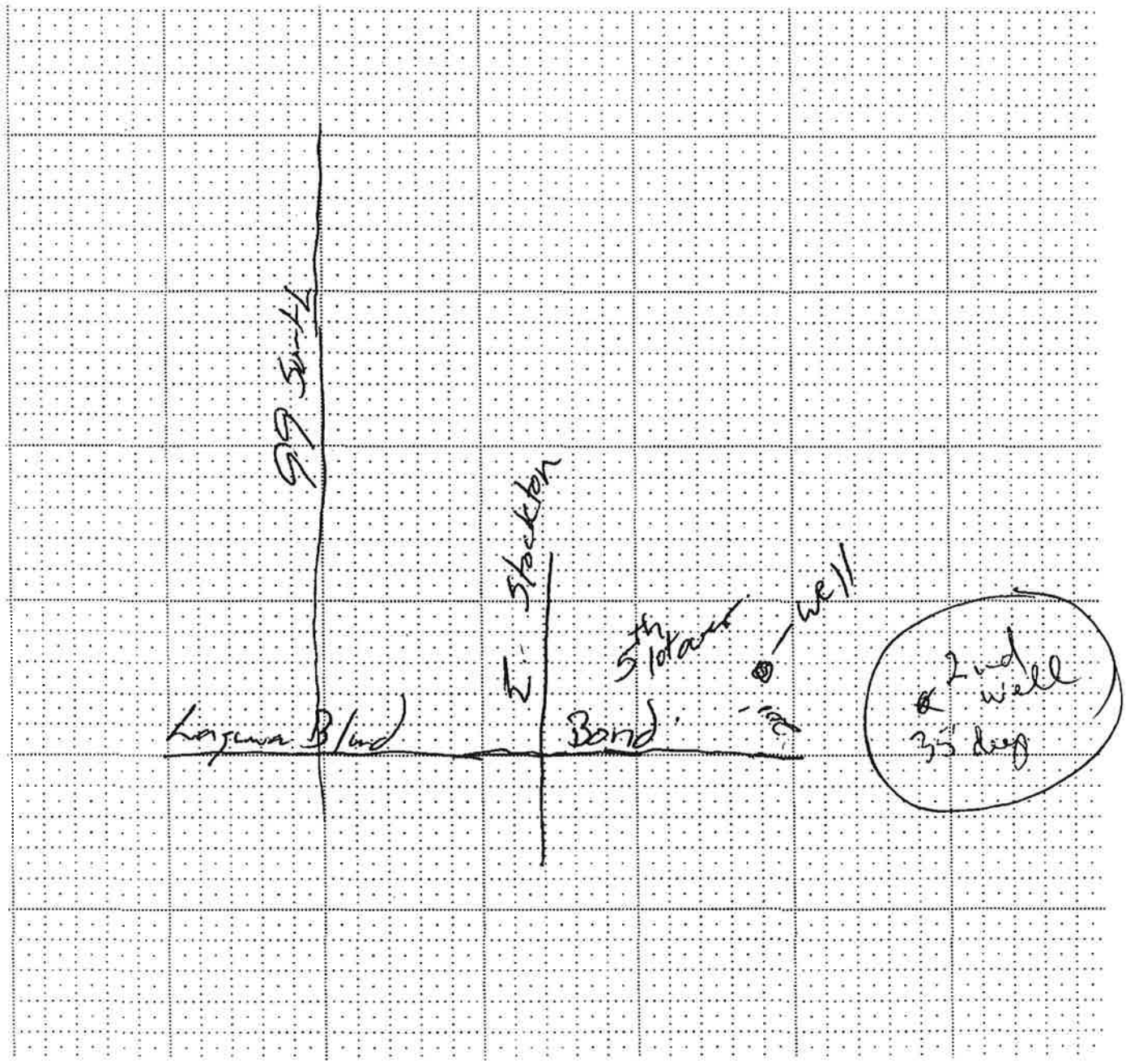
SHOW PARCEL DIMENSIONS, STREETS, STRUCTURES, CONTOURS, LOCATION OF WELLS AND SEPTIC SYSTEMS (SHOW LAYOUT OF SEPTIC SYSTEM). SHOW DISTANCE (IN FEET) FROM SEPTIC AND/OR WELL TO: WATER COURSES, SEPTIC TANKS, LEACHING AREAS, PROPERTY LINE, SEWER LINE AND WATER WELLS (ALSO WELLS ON ADJACENT PROPERTY). PLOT PLAN MUST BE ACCURATE, TO ALLOW SYSTEM TO BE LOCATED AT A FUTURE DATE.

WILL SYSTEM OR WELL BE INSTALLED IN 100 YEAR FLOOD PLAIN? YES ☐ NO ☐

N

W

E



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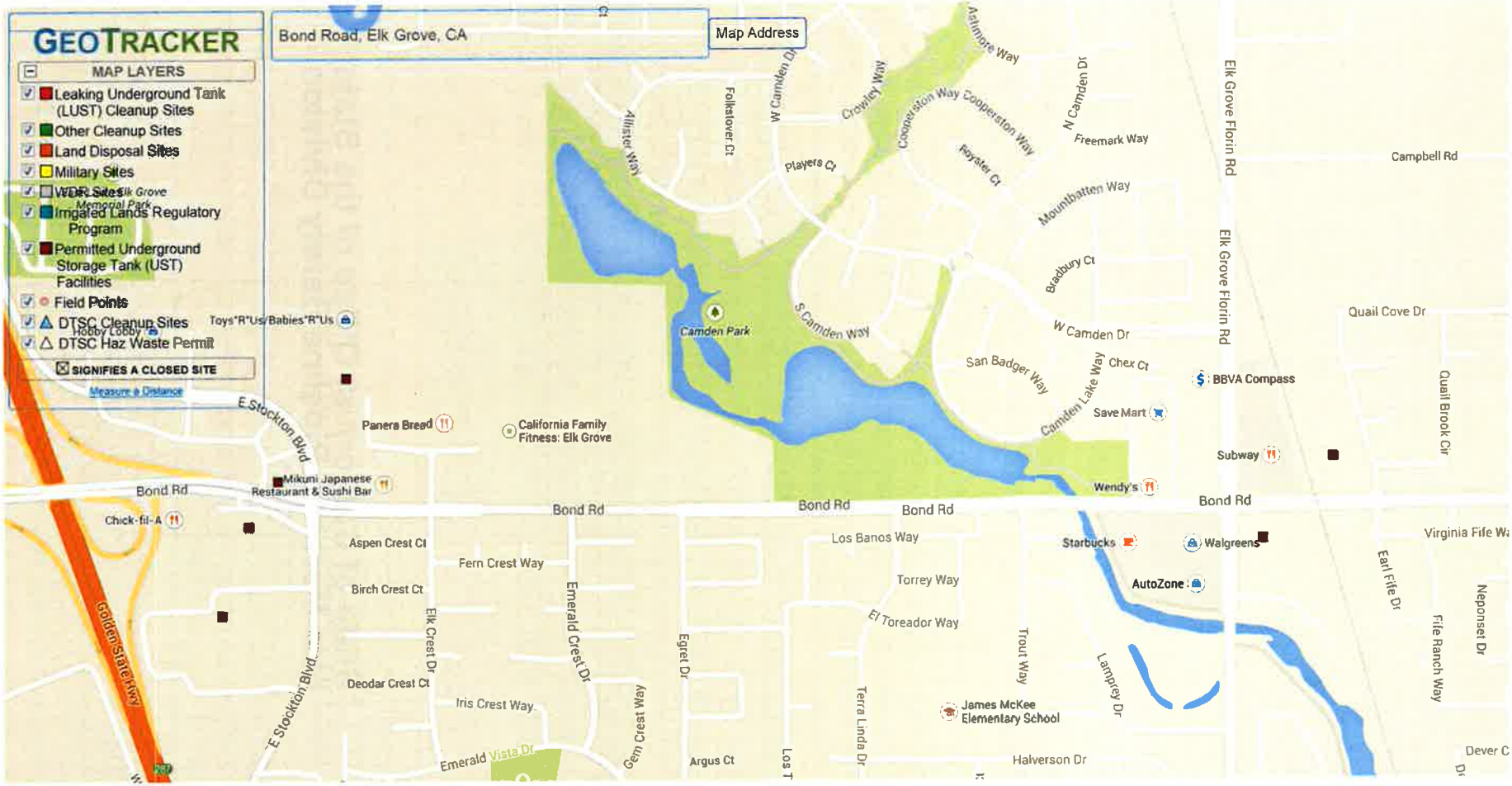
FORM # EH-S/W2 White Copy - EHD Yellow Copy - Contractor/Owner

State Water Resources Control Board
GeoTracker™ Database



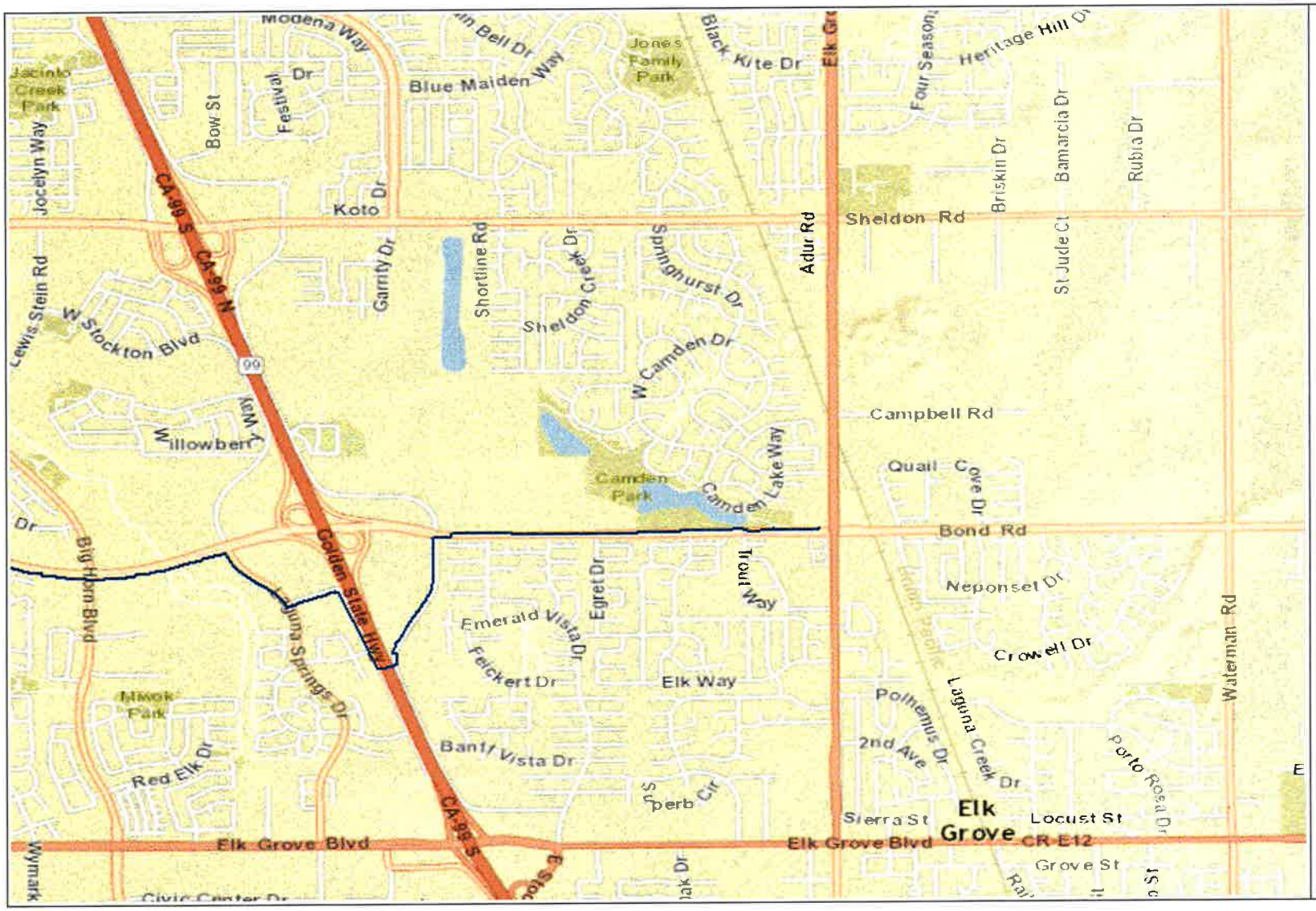
Google 100 m Report a map error

SITES CURRENTLY VISIBLE ON MAP

State of California, Office of the State Fire Marshal, Pipeline Safety Division

Pipeline and Hazardous Materials Safety Administration

NATIONAL PIPELINE MAPPING SYSTEM



Legend

- Gas Transmission Pipelines
- Hazardous Liquid Pipelines

0 0.2 Miles

Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

Questions regarding this map or its contents can be directed to npms-nr@mbakercorp.com.

Projection: Geographic

Datum: NAD83

Map produced by the NPMS Public Viewer at www.npms.phmsa.dot.gov

Date Printed: Oct 13, 2014

811 Know what's below. Call before you dig.

City of Elk Grove Building Department

APPENDIX D

Environmental Database Report

Laguna Creek Trail - South Camden Spur
BOND RD
Elk Grove, CA 95624

Inquiry Number: 4094480.2s
October 02, 2014

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

BOND RD
ELK GROVE, CA 95624

COORDINATES

Latitude (North):	38.4259000 - 38° 25' 33.24"
Longitude (West):	121.3855000 - 121° 23' 7.80"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	640932.9
UTM Y (Meters):	4254099.0
Elevation:	37 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	38121-D4 FLORIN, CA
Most Recent Revision:	1980
East Map:	38121-D3 ELK GROVE, CA
Most Recent Revision:	1979

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120628
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
BOND RD AND EMERALD CREST BOND RD AND EMERALD CREST ELK GROVE, CA	ERNS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST..... Active UST Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
INDIAN VCP..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
WMUDS/SWAT..... Waste Management Unit Database

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
HIST Cal-Sites..... Historical Calsites Database
SCH..... School Property Evaluation Program
Toxic Pits..... Toxic Pits Cleanup Act Sites
CDL..... Clandestine Drug Labs
US HIST CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CA FID UST..... Facility Inventory Database
HIST UST..... Hazardous Substance Storage Container Database
SWEEPS UST..... SWEEPS UST Listing

Local Land Records

LIENS 2..... CERCLA Lien Information
LIENS..... Environmental Liens Listing
DEED..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
DOT OPS	Incident and Accident Data
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
CA BOND EXP. PLAN	Bond Expenditure Plan
NPDES	NPDES Permits Listing
UIC	UIC Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
HIST CORTESE	Hazardous Waste & Substance Site List
CUPA Listings	CUPA Resources List
Notify 65	Proposition 65 Records
DRYCLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
ENF	Enforcement Action Listing
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
LEAD SMELTERS	Lead Smelter Sites
2020 COR ACTION	2020 Corrective Action Program List
US AIRS	Aerometric Information Retrieval System Facility Subsystem
WDS	Waste Discharge System
PRP	Potentially Responsible Parties
HWT	Registered Hazardous Waste Transporter Database
HWP	EnviroStor Permitted Facilities Listing
US FIN ASSUR	Financial Assurance Information
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
MWMP	Medical Waste Management Program Listing
COAL ASH DOE	Steam-Electric Plant Operation Data
Financial Assurance	Financial Assurance Information Listing
PROC	Certified Processors Database

PCB TRANSFORMER..... PCB Transformer Registration Database
EPA WATCH LIST..... EPA WATCH LIST

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/10/2014 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON STATION NO 209217	***8501 BOND RD***	***WSW 1/8 - 1/4 (0.216 mi.)***	***9***	***11***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/05/2014 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OBIE'S DUMP Status: Active	***8437 SHELDON ROAD***	***NNW 1/2 - 1 (0.732 mi.)***	***14***	***18***

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 07/30/2014 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CITIZENS COMUNICATIONS Status: Completed - Case Closed	9260 STOCKTON BLV	SW 1/4 - 1/2 (0.326 mi.)	D11	15

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 07/30/2014 has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FOUR SEASONS CLEANERS Facility Status: Completed - Case Closed	9141 EAST STOCKTON BOUL	W 1/4 - 1/2 (0.469 mi.)	E13	17

Sacramento Co. CS: List of sites where unauthorized releases of potentially hazardous materials have occurred.

A review of the Sacramento Co. CS list, as provided by EDR, and dated 02/06/2014 has revealed that there are 2 Sacramento Co. CS sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CITIZEN'S COMMUNICATIONS	9260 E STOCKTON BLVD	SW 1/4 - 1/2 (0.326 mi.)	D10	14
FOUR SEASONS CLEANERS	9141 E STOCKTON BLVD	W 1/4 - 1/2 (0.469 mi.)	E12	16

State and tribal registered storage tank lists

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SACRAMENTO/YOLO MVCD	8631 BOND RD	S 0 - 1/8 (0.005 mi.)	A3	9

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

Sacramento Co. ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 05/05/2014 has revealed that there are 4 Sacramento Co. ML sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAC CO/YOLO CO MOSQUITO	8631 BOND RD	S 0 - 1/8 (0.004 mi.)	A2	8
CALIFORNIA FAMILY FITNESS	8569 BOND RD STE 130	SSW 0 - 1/8 (0.097 mi.)	B4	9
GROCERY OUTLET OF ELK GROVE	8517 BOND RD	SW 1/8 - 1/4 (0.148 mi.)	B6	10
BOND ROAD CHEVRON	8501 BOND RD	SW 1/8 - 1/4 (0.162 mi.)	C8	11

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 2 EDR US

EXECUTIVE SUMMARY

Hist Auto Stat sites within approximately 0.25 miles of the target property.

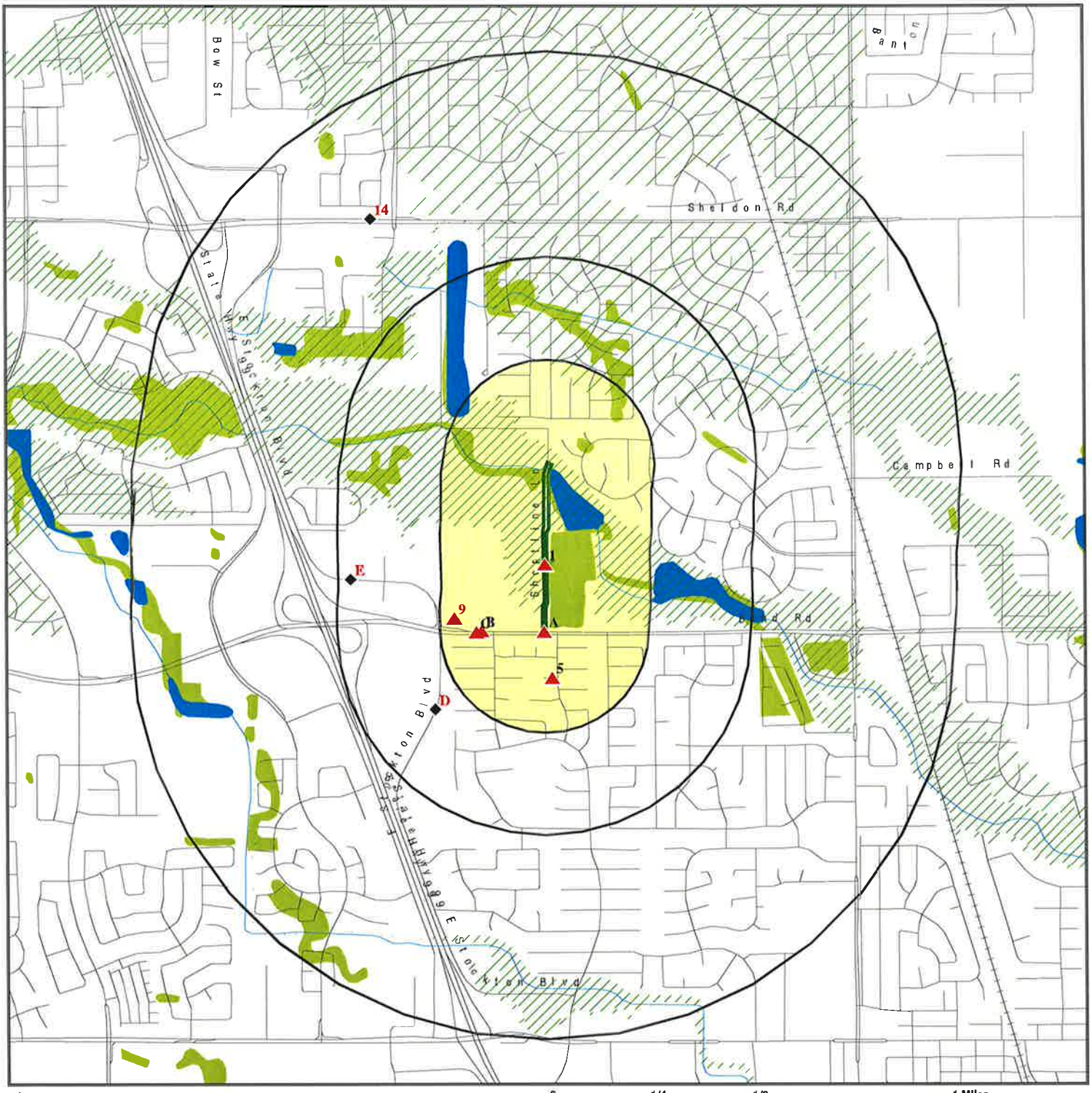
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	8560 PEARL CREST CT	S 0 - 1/8 (0.117 mi.)	5	9
Not reported	8501 BOND RD	SW 1/8 - 1/4 (0.162 mi.)	C7	10

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 18 records.

Site Name	Database(s)
ELK GROVE UNIFIED SCHOOL	HIST CORTESE
LAGUNA SPRINGS MEDICAL OFFICE PARK	NPDES
LAGUNA GATEWAY PHASE 3	NPDES
ELK GROVE CREEK TRAIL CROSSING AT	NPDES
FIELDSTONE SOUTH	NPDES
EAST BAY MUD, SEG. 3 & FREEPORT SO	NPDES
LAGUNA SPRINGS CORPORATE CENTER PH	NPDES
LAGUNA RIDGE	NPDES
UNIONHOUSE CREEK CHANNEL IMPROVEME	NPDES
QSL - RMLR	CA FID UST, SWEEPS UST
ALLEN RANCH - LINCOLN	SWEEPS UST
QSL - RMLR	HIST UST
SACRAMENTO COUNTY - DEPT OF TRANSP	HAZNET
CITY OF ELK GROVE - PUBLIC WORKS	HAZNET
PACIFIC BELL	RCRA-SQG
AT&T MOBILITY - FLORIN (9704)	FINDS
VERIZON WIRELESS ELK GROVE CAL TRA	Sacramento Co. ML
INDUSTRIAL MINERALS - GEO-INTERNAT	US MINES

OVERVIEW MAP - 4094480.2S



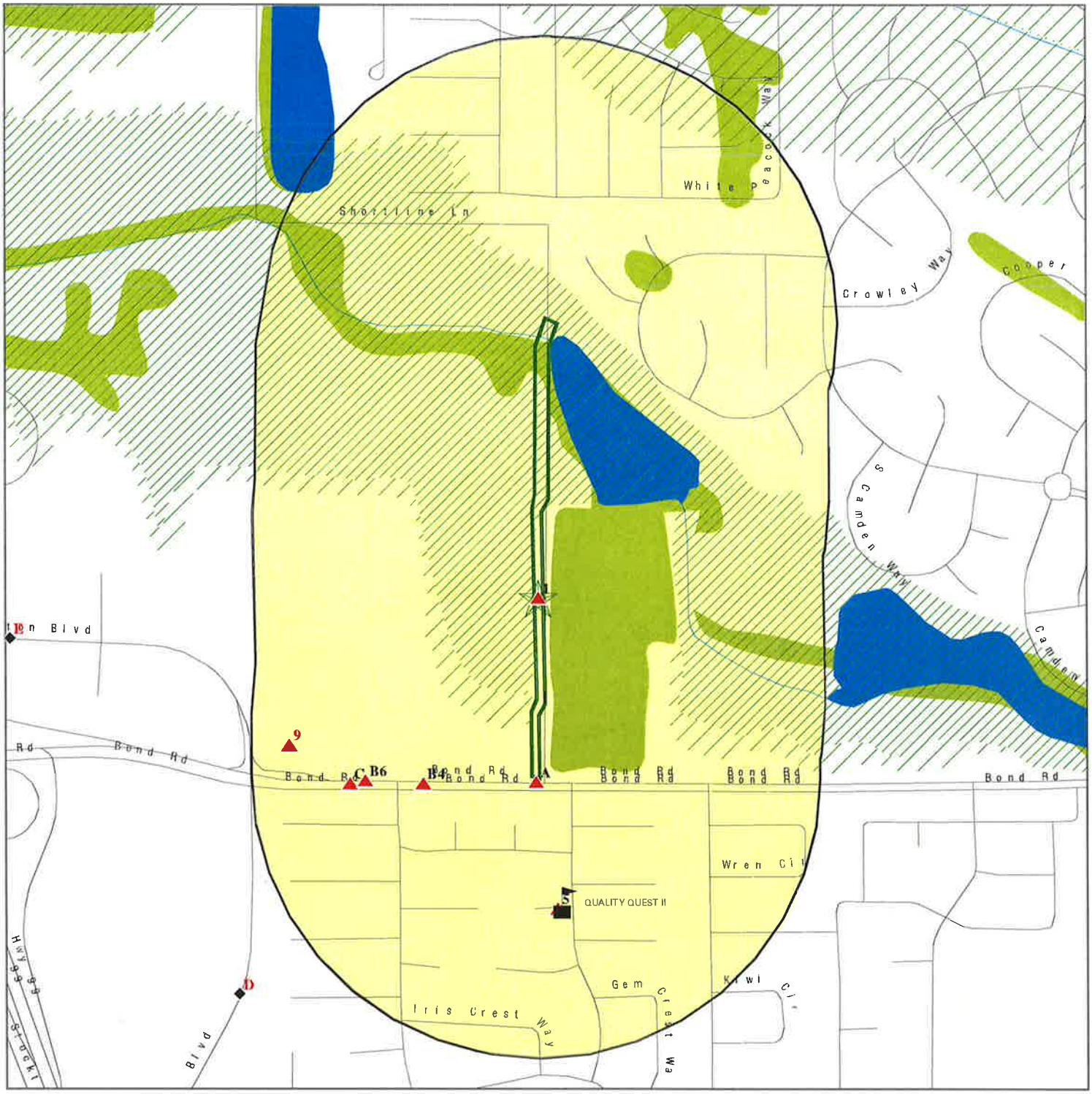
0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Laguna Creek Trail - South Camden Spur	CLIENT:	Kleinfelder, Inc.
ADDRESS:	BOND RD Elk Grove CA 95624	CONTACT:	Margaret Carroll
LAT/LONG:	38.4259 / 121.3855	INQUIRY #:	4094480.2s
		DATE:	October 02, 2014 5:35 pm

DETAIL MAP - 4094480.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Laguna Creek Trail - South Camden Spur	CLIENT:	Kleinfelder, Inc.
ADDRESS:	BOND RD Elk Grove CA 95624	CONTACT:	Margaret Carroll
LAT/LONG:	38.4259 / 121.3855	INQUIRY #:	4094480.2s
		DATE:	October 02, 2014 5:36 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP	1	NR	NR	NR	NR	NR	1
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	1	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SLIC	0.500		0	0	1	NR	NR	1
Sacramento Co. CS	0.500		0	0	2	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
SWEEPS UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Sacramento Co. ML	0.250		2	2	NR	NR	NR	4
HAZNET	TP		NR	NR	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Financial Assurance	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		1	1	NR	NR	NR	2
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
Target Property
BOND RD AND EMERALD CREST
ELK GROVE, CA

ERNS 2009921031
N/A

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
37 ft.

A2
South
< 1/8
0.004 mi.
22 ft.

SAC CO/YOLO CO MOSQUITO
8631 BOND RD
ELK GROVE, CA 95624

Site 1 of 2 in cluster A

Sacramento Co. ML S104654633
N/A

Relative:
Higher

Actual:
38 ft.

Sacramento Co. ML:

Facility Id:	Not reported
Facility Status:	Not reported
FD:	Not reported
Billing Codes BP:	A
Billing Codes UST:	Not reported
WG Bill Code:	A
Target Property Bill Cod:	Not reported
Food Bill Code:	Not reported
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	Not reported
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

Facility Id:	Not reported
Facility Status:	Inactive. Included on a listing no longer updated.
FD:	G
Billing Codes BP:	Out of Business
Billing Codes UST:	No Tanks
WG Bill Code:	Oil Changed by Outside Company-No Fee
Target Property Bill Cod:	51
Food Bill Code:	51
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	06/01/1992
HAZMAT Inspection Date:	12/13/1995
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	0
UST Tank Test Date:	03/11/1991
SIC Code:	9631
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

A3
South
< 1/8
0.005 mi.
26 ft.

SACRAMENTO/YOLO MVCD — **AST** — **A100324826**
8631 BOND RD — **N/A**
SACRAMENTO, CA

Site 2 of 2 in cluster A

Relative:
Higher

Actual:
38 ft.

AST:

Owner:	Not reported
Total Gallons:	10,620
Certified Unified Program Agencies:	Sacramento

B4
SSW
< 1/8
0.097 mi.
513 ft.

CALIFORNIA FAMILY FITNESS — **Sacramento Co. ML** — **S109034483**
8569 BOND RD STE 130 — **N/A**
ELK GROVE, CA 95624

Site 1 of 2 in cluster B

Relative:
Higher

Actual:
38 ft.

Sacramento Co. ML:

Facility Id:	Not reported
Facility Status:	Not reported
FD:	Not reported
Billing Codes BP:	A
Billing Codes UST:	Not reported
WG Bill Code:	Not reported
Target Property Bill Cod:	Not reported
Food Bill Code:	Not reported
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	Not reported
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

5
South
< 1/8
0.117 mi.
620 ft.

8560 PEARL CREST CT — **EDR US Hist Auto Stat** — **1015657176**
ELK GROVE, CA 95624 — **N/A**

Relative:
Higher

Actual:
39 ft.

EDR Historical Auto Stations:

Name:	R & C AUTO SERVICE CTR
Year:	2002
Address:	8560 PEARL CREST CT

B6
SW
1/8-1/4
0.148 mi.
784 ft.

Relative:
Higher

Actual:
37 ft.

GROCERY OUTLET OF ELK GROVE
8517 BOND RD
ELK GROVE, CA 95624

Site 2 of 2 in cluster B

Sacramento Co. ML **S108276995**
N/A

Sacramento Co. ML:

Facility Id:	Not reported
Facility Status:	Not reported
FD:	Not reported
Billing Codes BP:	I
Billing Codes UST:	Not reported
WG Bill Code:	Not reported
Target Property Bill Cod:	Not reported
Food Bill Code:	Not reported
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	Not reported
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

C7
SW
1/8-1/4
0.162 mi.
856 ft.

Relative:
Higher

Actual:
37 ft.

8501 BOND RD
ELK GROVE, CA 95624

Site 1 of 2 in cluster C

EDR US Hist Auto Stat **1015655780**
N/A

EDR Historical Auto Stations:

Name:	CHEVRON STATION INC
Year:	2002
Address:	8501 BOND RD
Name:	CHEVRON STATION INC
Year:	2004
Address:	8501 BOND RD
Name:	CHEVRON STATION INC
Year:	2005
Address:	8501 BOND RD
Name:	CHEVRON STATION INC
Year:	2006
Address:	8501 BOND RD
Name:	CHEVRON STATION INC
Year:	2007
Address:	8501 BOND RD
Name:	CHEVRON STATION INC
Year:	2008
Address:	8501 BOND RD

(Continued) **1015655780**

Name: CHEVRON
Year: 2010
Address: 8501 BOND RD

Name: CHEVRON
Year: 2012
Address: 8501 BOND RD

C8
SW
1/8-1/4
0.162 mi.
856 ft.

BOND ROAD CHEVRON **Sacramento Co. ML** **S113759204**
8501 BOND RD **N/A**
ELK GROVE, CA 95624

Site 2 of 2 in cluster C

Relative:
Higher

Actual:
37 ft.

Sacramento Co. ML:

Facility Id:	Not reported
Facility Status:	Not reported
FD:	Not reported
Billing Codes BP:	A
Billing Codes UST:	A
WG Bill Code:	A
Target Property Bill Cod:	Not reported
Food Bill Code:	Not reported
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	2
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

9
WSW
1/8-1/4
0.216 mi.
1141 ft.

CHEVRON STATION NO 209217 **RCRA-SQG** **1006805189**
8501 BOND RD **FINDS** **CAR000124412**
ELK GROVE, CA 95624 **HAZNET**

Relative:
Higher

Actual:
37 ft.

RCRA-SQG:

Date form received by agency:	06/17/2002
Facility name:	CHEVRON STATION NO 209217
Facility address:	8501 BOND RD ELK GROVE, CA 95624
EPA ID:	CAR000124412
Mailing address:	P O BOX 6004 SAN RAMON, CA 94583
Contact:	KATHY NORRIS
Contact address:	P O BOX 6004 SAN RAMON, CA 94583
Contact country:	US
Contact telephone:	(925) 842-5931

CHEVRON STATION NO 209217 (Continued) **1006805189**

Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CHEVRON PRODUCTS CO
Owner/operator address: P O BOX 6004
SAN RAMON, CA 94583
Owner/operator country: Not reported
Owner/operator telephone: (925) 842-5931
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110013309632

CHEVRON STATION NO 209217 (Continued) **1006805189**

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Year:	2012
Gepaid:	CAR000124412
Contact:	KATHY NORRIS-SLUSHER
Telephone:	8773866044
Mailing Name:	Not reported
Mailing Address:	PO BOX 6004
Mailing City,St,Zip:	SAN RAMON, CA 945830000
Gen County:	Sacramento
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.197
Facility County:	Sacramento

Year:	2012
Gepaid:	CAR000124412
Contact:	KATHY NORRIS-SLUSHER
Telephone:	8773866044
Mailing Name:	Not reported
Mailing Address:	PO BOX 6004
Mailing City,St,Zip:	SAN RAMON, CA 945830000
Gen County:	Sacramento
TSD EPA ID:	CAD044429836
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Not reported
Tons:	Not reported
Facility County:	Sacramento

Year:	2012
Gepaid:	CAR000124412
Contact:	KATHY NORRIS-SLUSHER
Telephone:	8773866044
Mailing Name:	Not reported
Mailing Address:	PO BOX 6004
Mailing City,St,Zip:	SAN RAMON, CA 945830000
Gen County:	Sacramento
TSD EPA ID:	CAD044429836
TSD County:	Not reported
Waste Category:	Not reported

CHEVRON STATION NO 209217 (Continued) **1006805189**

Disposal Method: Not reported
Tons: Not reported
Facility County: Sacramento

Year: 2012
Gepaid: CAR000124412
Contact: KATHY NORRIS-SLUSHER
Telephone: 8773866044
Mailing Name: Not reported
Mailing Address: PO BOX 6004
Mailing City,St,Zip: SAN RAMON, CA 945830000
Gen County: Sacramento
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Waste Category: Not reported
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.02
Facility County: Sacramento

Year: 2012
Gepaid: CAR000124412
Contact: KATHY NORRIS-SLUSHER
Telephone: 8773866044
Mailing Name: Not reported
Mailing Address: PO BOX 6004
Mailing City,St,Zip: SAN RAMON, CA 945830000
Gen County: Sacramento
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Waste Category: Not reported
Disposal Method: Other Treatment
Tons: 0.02
Facility County: Sacramento

Click this hyperlink while viewing on your computer to access
18 additional CA_HAZNET: record(s) in the EDR Site Report.

D10
SW
1/4-1/2
0.326 mi.
1721 ft.

Relative:
Lower

Actual:
36 ft.

CITIZEN'S COMMUNICATIONS **Sacramento Co. CS** **S104586513**
9260 E STOCKTON BLVD **N/A**
ELK GROVE, CA

Site 1 of 2 in cluster D

Sacramento Co. CS:
State Site Number: F568
Lead Staff: Leibold, R.
Lead Agency: HM
Remedial Action Taken: NO
Substance: Automotive(motor gasoline and additives)
Date Reported: 08/20/2000
Facility Id: RO0001433
Case Type: Undefined
Case Closed: Not reported
Date Closed: Not reported

D11 **CITIZENS COMUNICATIONS** **LUST** **S104971128**
SW **9260 STOCKTON BLV** **N/A**
1/4-1/2 **ELK GROVE, CA 95624**
0.326 mi.
1721 ft. **Site 2 of 2 in cluster D**

Relative:
Lower

Actual:
36 ft.

LUST:

Region:	STATE
Global Id:	T0606791615
Latitude:	38.421811
Longitude:	-121.392081
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/01/2004
Lead Agency:	SACRAMENTO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	341336
LOC Case Number:	F568
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0606791615
Contact Type:	Regional Board Caseworker
Contact Name:	VERA FISCHER
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	vera.fischer@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0606791615
Status:	Open - Site Assessment
Status Date:	04/19/2001
Global Id:	T0606791615
Status:	Open - Case Begin Date
Status Date:	03/06/2001
Global Id:	T0606791615
Status:	Completed - Case Closed
Status Date:	11/01/2004

Regulatory Activities:

Global Id:	T0606791615
Action Type:	ENFORCEMENT
Date:	01/11/2005
Action:	File review
Global Id:	T0606791615
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery

CITIZENS COMUNICATIONS (Continued) **S104971128**

Global Id:	T0606791615
Action Type:	ENFORCEMENT
Date:	08/10/2004
Action:	File review
Global Id:	T0606791615
Action Type:	ENFORCEMENT
Date:	08/01/2003
Action:	LOP Case Closure Summary to RB
Global Id:	T0606791615
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0606791615
Action Type:	ENFORCEMENT
Date:	03/19/2001
Action:	Notice of Responsibility
Global Id:	T0606791615
Action Type:	ENFORCEMENT
Date:	04/19/2001
Action:	File review

LUST REG 5:

Region:	5
Status:	Case Closed
Case Number:	341336
Case Type:	Soil only
Substance:	GASOLINE
Staff Initials:	VJF
Lead Agency:	Local
Program:	LUST
MTBE Code:	N/A

E12
West
1/4-1/2
0.469 mi.
2477 ft.

FOUR SEASONS CLEANERS **Sacramento Co. CS** **S103708249**
9141 E STOCKTON BLVD **N/A**
ELK GROVE, CA

Site 1 of 2 in cluster E

Relative:
Lower

Actual:
36 ft.

Sacramento Co. CS:

State Site Number:	C373
Lead Staff:	Erikson, S.
Lead Agency:	HM
Remedial Action Taken:	NO
Substance:	Not reported
Date Reported:	Not reported
Facility Id:	RO0001662
Case Type:	Not reported
Case Closed:	Not reported
Date Closed:	**Not reported**

E13 **FOUR SEASONS CLEANERS** **SLIC** **S109604752**
West **9141 EAST STOCKTON BOULEVARD** **N/A**
1/4-1/2 **ELK GROVE, CA 95624**
0.469 mi.
2477 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
36 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	07/23/2010
Global Id:	T10000001231
Lead Agency:	SACRAMENTO COUNTY LOP
Lead Agency Case Number:	C293
Latitude:	38.45938
Longitude:	-121.405839
Case Type:	Cleanup Program Site
Case Worker:	SJE
Local Agency:	SACRAMENTO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Aquifer used for drinking water supply, Indoor Air, Soil, Soil Vapor
Potential Contaminants of Concern:	Acetone, Benzene, Tetrachloroethylene (PCE), Toluene
Site History:	A Limited Phase II Environmental Site Assessment (ESA) was conducted at the Site in 2008. The assessment consisted of soil and soil vapor sampling at three locations. Based on the results of the assessment activities, The following was found: Volatile Organic Compounds (VOCs) including PCE were reported as non detect in the soil samples collected and analyzed. PCE was reported in each of the 6 soil vapor samples analyzed. Concentrations of PCE reported exceeded the California Environmental Protection Agency (Cal- EPA) Shallow Soil Gas Human Health Screening Levels (CHHSLs) for both residential and commercial land use (180 micrograms per cubic meter [ug/m3] and 603 ug/m3 respectively). Benzene was reported in 4 of the 6 soil vapor samples analyzed. Reported concentrations of Benzene exceeded the Cal-EPA CHHSL of 36.2 ug/m3 for residential land use in each of the samples, but did not exceed the Cal-EPA CHHSL of 122 ug/m3 for commercial land use. Concentrations of other VOCs detected in the soil vapor samples collected did not exceed the respective established Cal-EPA CHHSLs for residential or commercial land uses. Based on these analytical results, the following was conducted: Additional soil vapor sampling within and outside of the dry cleaning suite to further characterize the lateral and vertical extent of the impacted soil vapor. Upon completion of the additional assessment, perform a human health risk evaluation to estimate the potential risk from vapor intrusion to the occupants of the suite. A grab groundwater sample was also taken. On behalf of Donahue Schriber Realty Group, LP (DSRG), Converse contacted the Sacramento County Environmental Management Department (SCEMD) to inquire if they would accept the Site into the Voluntary Oversight Program (VOP) with the objective of obtaining a No Further Action (NFA) determination for the Site. The SCEMD indicated they would consider accepting the Site into the program only after a review of all completed reports. In addition, SCEMD stated that sampling of the groundwater beneath the Site would be requested if the Site was accepted into the VOP. This work was completed and the HHRA showed low risk to human health and the environment.

Click here to access the California GeoTracker records for this facility:

14
NNW
1/2-1
0.732 mi.
3863 ft.

OBIE'S DUMP
8437 SHELDON ROAD
ELK GROVE, CA 95624

SLIC S106707862
LIENS N/A
VCP
ENVIROSTOR

Relative:
Lower

Actual:
35 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	09/02/2004
Global Id:	SL0606728284
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number:	60001365
Latitude:	38.438102
Longitude:	-121.393418
Case Type:	Cleanup Program Site
Case Worker:	JLT
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	Not reported
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Lead
Site History:	DTSC is lead agency. Trenching and sampling was conducted and reported in 2003. The results show lead is above screening levels in soil.

Click here to access the California GeoTracker records for this facility:

SLIC REG 5:

Region:	5
Facility Status:	Preliminary Assessment
Unit:	Facility is a Spill or site
Pollutant:	Pb, Zn
Lead Agency:	DTSC
Date Filed:	08/24/04
Report Date:	/ /
Date Added:	10/13/2004
Date Closed:	Not reported

LIENS:

Envirostor Id:	60001365
Latitude:	38.440984
Longitude:	-121.39609
Project Mgr:	MCKINLEY LEWIS, JR
Project Code:	101726
If Satisfied:	Not reported
Date Satisfied:	Not reported
Site Status:	Active
Site Type:	VOLUNT
Completed:	10/09/2013
Description:	The Obie's Dump (Site) includes a portion of the property located at Sheldon Road, Elk Grove, Sacramento County, California 95624. The approximate1.5 acre portion of the property was once an excavated area used as a "borrow site", landfill and burn dump known as Obie's Dump. The area is now a crescent shaped depression along the east boundary of the property.In a letter dated March 21, 1992, the SCEHD identified that the site was in noncompliance of the Mitigation Monitoring and Reporting Program. The SCEHD as the Local Enforcement

OBIE'S DUMP (Continued) **S106707862**

Agency (LEA) is responsible for solid waste permitting, inspection, enforcement and the regulation of closed disposal sites. In subsequent complaints of illegal dumping of debris and household waste, the LEA inspected and issued a Notice of Violation to the property owner. At the request of the property ownerand in anticipation of future development of the property, LEA staff agreed to provide regulatory oversight and guidance of the proposed Site investigation. With this oversight, the property owner completed an investigation work plan and conducted soil trenching and sampling. The results of the Site investigation are reported in the May 12, 2003, Landfill Characterization and Environmental Sampling Report. The results show that there is lead in soils above the California Code of Regulations Total Threshold Limit Concentration which defines a toxic characteristic hazardous waste.

VCP:

Facility ID:	60001365
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, IWMB, SACRAMENTO COUNTY
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Mckinley Lewis Jr.
Supervisor:	William Beckman
Division Branch:	Cleanup Sacramento
Site Code:	101726
Assembly:	09
Senate:	06, 14
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	08/23/2004
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	38.44098 / -121.3960
APN:	NONE SPECIFIED
Past Use:	LDF, LANDFILL - CONSTRUCTION
Potential COC:	30013
Confirmed COC:	30013
Potential Description:	OTH, SOIL
Alias Name:	SL0606728284
Alias Type:	GeoTracker Global ID
Alias Name:	101726
Alias Type:	Project Code (Site Code)
Alias Name:	60001365
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	02/23/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE

OBIE'S DUMP (Continued) **S106707862**

Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 01/25/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/01/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 04/08/2004
Comments: Completed application.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/09/2012
Comments: Report received. No response letter sent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/16/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 08/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 04/28/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/14/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/13/2004
Comments: Agreement signed by property owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 10/09/2013

OBIE'S DUMP (Continued) **S106707862**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 05/30/2012
Comments: Third and final demand letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/04/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Form 1479 - Site and Collections Summary
Completed Date: 12/13/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 08/18/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/15/2014
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Access Agreement
Schedule Due Date: 08/25/2014
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Access Agreement
Schedule Due Date: 08/05/2014
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 60001365
Status: Active
Status Date: 08/23/2004
Site Code: 101726
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.5
NPL: NO
Regulatory Agencies: SMBRP, IWMB, SACRAMENTO COUNTY

OBIE'S DUMP (Continued) **S106707862**

Lead Agency:	SMBRP
Program Manager:	Mckinley Lewis Jr.
Supervisor:	William Beckman
Division Branch:	Cleanup Sacramento
Assembly:	09
Senate:	06, 14
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	38.44098
Longitude:	-121.3960
APN:	NONE SPECIFIED
Past Use:	LDF, LANDFILL - CONSTRUCTION
Potential COC:	Lead
Confirmed COC:	Lead
Potential Description:	OTH, SOIL
Alias Name:	SL0606728284
Alias Type:	GeoTracker Global ID
Alias Name:	101726
Alias Type:	Project Code (Site Code)
Alias Name:	60001365
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	02/23/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement Termination Notification
Completed Date:	01/25/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	09/01/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Application
Completed Date:	04/08/2004
Comments:	Completed application.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	11/09/2012
Comments:	Report received. No response letter sent.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report

OBIE'S DUMP (Continued) **S106707862**

Completed Date: 12/16/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 08/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 04/28/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/14/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/13/2004
Comments: Agreement signed by property owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 10/09/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 05/30/2012
Comments: Third and final demand letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/04/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Form 1479 - Site and Collections Summary
Completed Date: 12/13/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 08/18/2014
Comments: Not reported

OBIE'S DUMP (Continued) **S106707862**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/15/2014
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Access Agreement
Schedule Due Date:	08/25/2014
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Access Agreement
Schedule Due Date:	08/05/2014
Schedule Revised Date:	Not reported

Count: 18 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ELK GROVE	S112832475	LAGUNA SPRINGS MEDICAL OFFICE PARK	9291 9299 9303 9307 9323 9327	95758	NPDES
ELK GROVE	S109447942	LAGUNA GATEWAY PHASE 3	SW CORNER OF DUNISCH RD & W ST	95758	NPDES
ELK GROVE	U001612808	QSL - RMLR	ELK GROVE	95624	HIST UST
ELK GROVE	S112142158	ELK GROVE CREEK TRAIL CROSSING AT	ELK GROVE CREEK TRAIL CROSSING	95758	NPDES
ELK GROVE	S105023654	ELK GROVE UNIFIED SCHOOL	8820/8800 ELK GROVE BLVD	95624	HIST CORTESE
ELK GROVE	S101627796	QSL - RMLR	ELK GROVE	95624	CA FID UST, SWEEPS UST
ELK GROVE	S109443464	FIELDSTONE SOUTH	GRANT LINE RD N MOSHER RD	95758	NPDES
ELK GROVE	S113880809	EAST BAY MUD, SEG. 3 & FREEPORT SO	LAGUNA CREEK AND SKUNK CREEK,		NPDES
ELK GROVE	1000250945	PACIFIC BELL	LAMBERT/STOCKTON RDS ELK GROVE	95758	RCRA-SQG
ELK GROVE	S111291979	LAGUNA SPRINGS CORPORATE CENTER PH	LONG LEAF DRIVE	95758	NPDES
ELK GROVE	S114405938	LAGUNA RIDGE	SOUTH OF ELK GROVE BLVD AND EA		NPDES
ELK GROVE	S116297293	VERIZON WIRELESS ELK GROVE CAL TRA	9660 E STOCKTON BLVD ELK GROVE	95624	Sacramento Co. ML
ELK GROVE	1016431169	AT&T MOBILITY - FLORIN (9704)	8450 STOCKTON BLVD	95624	FINDS
FREEPORT	S112966279	SACRAMENTO COUNTY - DEPT OF TRANSP	LAT 38.2730N LONG 121.30W	95758	HAZNET
LINCOLN	S106922561	ALLEN RANCH - LINCOLN	8930 002ND AVE	95624	SWEEPS UST
SACRAMENTO	S112962710	CITY OF ELK GROVE - PUBLIC WORKS	8165 & 8169 SHELDON RD	95758	HAZNET
SACRAMENTO	S112242138	UNIONHOUSE CREEK CHANNEL IMPROVEME	SOUTH SACRAMENTO	95758	NPDES
SACRAMENTO COUNTY	M300006190	INDUSTRIAL MINERALS - GEO-INTERNAT	WESTERN MUD-FLORIN MILL		US MINES

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 09/19/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 09/19/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 09/19/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 08/28/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 07/08/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 08/28/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/23/2014
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/23/2014
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 18

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/30/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/05/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 09/26/2014
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/05/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 09/26/2014
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/20/2014
Date Made Active in Reports: 05/22/2014
Number of Days to Update: 2

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/18/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 25

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/20/2014
Date Data Arrived at EDR: 06/10/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 73

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/13/2014
Date Data Arrived at EDR: 08/15/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 7

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 05/22/2014
Date Data Arrived at EDR: 08/22/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 27

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/14/2014
Date Data Arrived at EDR: 05/15/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 61

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/20/2014
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/22/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/04/2014
Date Data Arrived at EDR: 08/05/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 17

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 20

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/19/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/04/2014
Date Data Arrived at EDR: 08/05/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 17

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 07/25/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 25

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/20/2014
Date Data Arrived at EDR: 08/22/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 27

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/13/2014
Date Data Arrived at EDR: 08/15/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 7

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/20/2014
Date Data Arrived at EDR: 06/10/2014
Date Made Active in Reports: 08/15/2014
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/14/2014
Date Data Arrived at EDR: 08/15/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 7

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/22/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Semi-Annually

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 05/30/2014
Date Data Arrived at EDR: 07/01/2014
Date Made Active in Reports: 08/15/2014
Number of Days to Update: 45

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
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.

Date of Government Version: 08/05/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 09/26/2014
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
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. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 25

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/23/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 06/16/2014
Date Data Arrived at EDR: 06/17/2014
Date Made Active in Reports: 07/11/2014
Number of Days to Update: 24

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 02/20/2014
Date Made Active in Reports: 03/27/2014
Number of Days to Update: 35

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/03/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/05/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 09/26/2014
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 09/02/2014
Date Made Active in Reports: 09/24/2014
Number of Days to Update: 22

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/29/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/03/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/28/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing
Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA 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.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/05/2014
Date Data Arrived at EDR: 05/06/2014
Date Made Active in Reports: 05/19/2014
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 28

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 07/01/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 79

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/26/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 09/15/2014
Number of Days to Update: 49

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 22

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing
The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 25

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/24/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/30/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/09/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 01/30/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 132

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/04/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/29/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/26/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/19/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/19/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 05/06/2014
Date Data Arrived at EDR: 05/16/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2014
Date Data Arrived at EDR: 07/10/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 18

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/10/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 03/12/2014
Number of Days to Update: 13

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 05/23/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/29/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/20/2014
Date Made Active in Reports: 05/28/2014
Number of Days to Update: 8

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/18/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Quarterly

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 01/15/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 07/01/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 27

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/30/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/22/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/28/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 08/21/2014
Number of Days to Update: 49

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Annually

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/11/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 09/30/2014
Number of Days to Update: 49

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/08/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/16/2013
Date Made Active in Reports: 08/26/2013
Number of Days to Update: 41

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 03/25/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 34

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/26/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 09/30/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/19/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/15/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/16/2014
Date Data Arrived at EDR: 06/17/2014
Date Made Active in Reports: 07/10/2014
Number of Days to Update: 23

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 07/31/2014
Date Data Arrived at EDR: 08/05/2014
Date Made Active in Reports: 09/26/2014
Number of Days to Update: 52

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/15/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: N/A

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 06/04/2014
Date Data Arrived at EDR: 06/12/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/14/2014
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/15/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/27/2014
Date Data Arrived at EDR: 05/28/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Annually

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/19/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 38

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Quarterly

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 03/14/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 47

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/23/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 26

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/20/2014
Date Made Active in Reports: 05/22/2014
Number of Days to Update: 2

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 07/25/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 09/15/2014
Number of Days to Update: 49

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/25/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 23

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 09/08/2014
Date Data Arrived at EDR: 09/09/2014
Date Made Active in Reports: 09/24/2014
Number of Days to Update: 15

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 08/22/2013
Number of Days to Update: 20

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 07/02/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 07/30/2014
Number of Days to Update: 27

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/11/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 24

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/08/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/24/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 21

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/05/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 07/31/2014
Date Data Arrived at EDR: 08/05/2014
Date Made Active in Reports: 09/26/2014
Number of Days to Update: 52

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/30/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

EL DORADO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List
CUPA facility list.

Date of Government Version: 08/25/2014
Date Data Arrived at EDR: 08/26/2014
Date Made Active in Reports: 09/29/2014
Number of Days to Update: 34

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 08/05/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/19/2014
Number of Days to Update: 35

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/11/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 09/10/2014
Date Data Arrived at EDR: 09/11/2014
Date Made Active in Reports: 09/25/2014
Number of Days to Update: 14

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 07/28/2014
Date Data Arrived at EDR: 07/30/2014
Date Made Active in Reports: 09/15/2014
Number of Days to Update: 47

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/08/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/21/2014
Date Data Arrived at EDR: 08/26/2014
Date Made Active in Reports: 09/29/2014
Number of Days to Update: 34

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 07/23/2014
Date Data Arrived at EDR: 07/25/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/22/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 07/17/2014
Number of Days to Update: 41

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/21/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/21/2014
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/19/2014
Number of Days to Update: 29

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/21/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/07/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/25/2014
Number of Days to Update: 28

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/16/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 07/23/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 23

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 07/28/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 23

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/13/2014
Date Data Arrived at EDR: 03/27/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 06/27/2014
Number of Days to Update: 16

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 07/02/2014
Date Data Arrived at EDR: 07/07/2014
Date Made Active in Reports: 08/18/2014
Number of Days to Update: 42

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 08/20/2014
Date Data Arrived at EDR: 08/26/2014
Date Made Active in Reports: 09/30/2014
Number of Days to Update: 35

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 09/02/2014
Date Data Arrived at EDR: 09/05/2014
Date Made Active in Reports: 09/24/2014
Number of Days to Update: 19

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 09/02/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 28

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/28/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/28/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 09/16/2014
Date Data Arrived at EDR: 09/18/2014
Date Made Active in Reports: 09/25/2014
Number of Days to Update: 7

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 09/16/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2014
Date Data Arrived at EDR: 05/15/2014
Date Made Active in Reports: 05/22/2014
Number of Days to Update: 7

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/01/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 09/26/2014
Number of Days to Update: 45

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 8

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/10/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 29

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 09/22/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/08/2014
Date Data Arrived at EDR: 07/11/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 17

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/22/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/08/2014
Date Data Arrived at EDR: 07/11/2014
Date Made Active in Reports: 08/18/2014
Number of Days to Update: 38

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/22/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/06/2014
Date Data Arrived at EDR: 04/08/2014
Date Made Active in Reports: 04/29/2014
Number of Days to Update: 21

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/11/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/05/2014
Date Data Arrived at EDR: 07/17/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 11

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/06/2014
Date Data Arrived at EDR: 08/07/2014
Date Made Active in Reports: 09/30/2014
Number of Days to Update: 54

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/22/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 42

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/27/2014
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/20/2014
Date Data Arrived at EDR: 06/23/2014
Date Made Active in Reports: 07/11/2014
Number of Days to Update: 18

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/22/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/22/2014
Date Data Arrived at EDR: 08/26/2014
Date Made Active in Reports: 10/01/2014
Number of Days to Update: 36

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/03/2014
Date Data Arrived at EDR: 04/04/2014
Date Made Active in Reports: 05/01/2014
Number of Days to Update: 27

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/16/2014
Date Data Arrived at EDR: 06/19/2014
Date Made Active in Reports: 07/10/2014
Number of Days to Update: 21

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 09/22/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 06/02/2014
Date Data Arrived at EDR: 06/03/2014
Date Made Active in Reports: 06/23/2014
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/22/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/02/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/12/2014
Date Data Arrived at EDR: 05/19/2014
Date Made Active in Reports: 05/28/2014
Number of Days to Update: 9

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/08/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 09/09/2014
Date Data Arrived at EDR: 09/11/2014
Date Made Active in Reports: 09/25/2014
Number of Days to Update: 14

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 06/12/2014
Date Made Active in Reports: 06/20/2014
Number of Days to Update: 8

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

SOLANO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/19/2014
Date Data Arrived at EDR: 06/26/2014
Date Made Active in Reports: 07/25/2014
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/19/2014
Date Data Arrived at EDR: 06/26/2014
Date Made Active in Reports: 07/25/2014
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/02/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 40

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 25

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/17/2014
Number of Days to Update: 36

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 05/16/2014
Date Data Arrived at EDR: 05/16/2014
Date Made Active in Reports: 06/13/2014
Number of Days to Update: 28

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 08/08/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/28/2014
Date Data Arrived at EDR: 08/18/2014
Date Made Active in Reports: 09/26/2014
Number of Days to Update: 39

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/13/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/26/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 09/15/2014
Number of Days to Update: 46

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/27/2014
Date Data Arrived at EDR: 06/17/2014
Date Made Active in Reports: 07/11/2014
Number of Days to Update: 24

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 07/07/2014
Date Made Active in Reports: 08/18/2014
Number of Days to Update: 42

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/22/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/22/2014
Date Made Active in Reports: 06/19/2014
Number of Days to Update: 28

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/31/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/19/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2014
Date Data Arrived at EDR: 05/07/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 08/07/2014
Number of Days to Update: 48

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LAGUNA CREEK TRAIL - SOUTH CAMDEN SPUR
BOND RD
ELK GROVE, CA 95624

TARGET PROPERTY COORDINATES

Latitude (North):	38.4259 - 38° 25' 33.24"
Longitude (West):	121.3855 - 121° 23' 7.80"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	640932.9
UTM Y (Meters):	4254099.0
Elevation:	37 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38121-D4 FLORIN, CA
Most Recent Revision:	1980
East Map:	38121-D3 ELK GROVE, CA
Most Recent Revision:	1979

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: SAN JOAQUIN

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.6
2	22 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.42 Min: 0.01	Max: 7.8 Min: 6.1
3	27 inches	53 inches	indurated	Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:
4	53 inches	59 inches	stratified sandy loam to loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: BRUELLA

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	18 inches	42 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
3	42 inches	61 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1

Soil Map ID: 4

Soil Component Name: SAN JOAQUIN

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	22 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.42 Min: 0.01	Max: 7.8 Min: 6.1
3	27 inches	53 inches	indurated	Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:
4	53 inches	59 inches	stratified sandy loam to loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

Soil Map ID: 5

Soil Component Name: MADERA

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.3 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	14 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.6
3	29 inches	59 inches	indurated	Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 6

Soil Component Name: SAN JOAQUIN

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	22 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.42 Min: 0.01	Max: 7.8 Min: 6.1
3	27 inches	53 inches	indurated	Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:
4	53 inches	59 inches	stratified sandy loam to loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

Soil Map ID: 7

Soil Component Name: XERARENTS

Soil Surface Texture: variable

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000188261	1/8 - 1/4 Mile SSW
5	USGS40000188189	1/2 - 1 Mile SSW
6	USGS40000188212	1/2 - 1 Mile SE
8	USGS40000188328	1/2 - 1 Mile North
9	USGS40000188281	1/2 - 1 Mile ENE
10	USGS40000188266	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

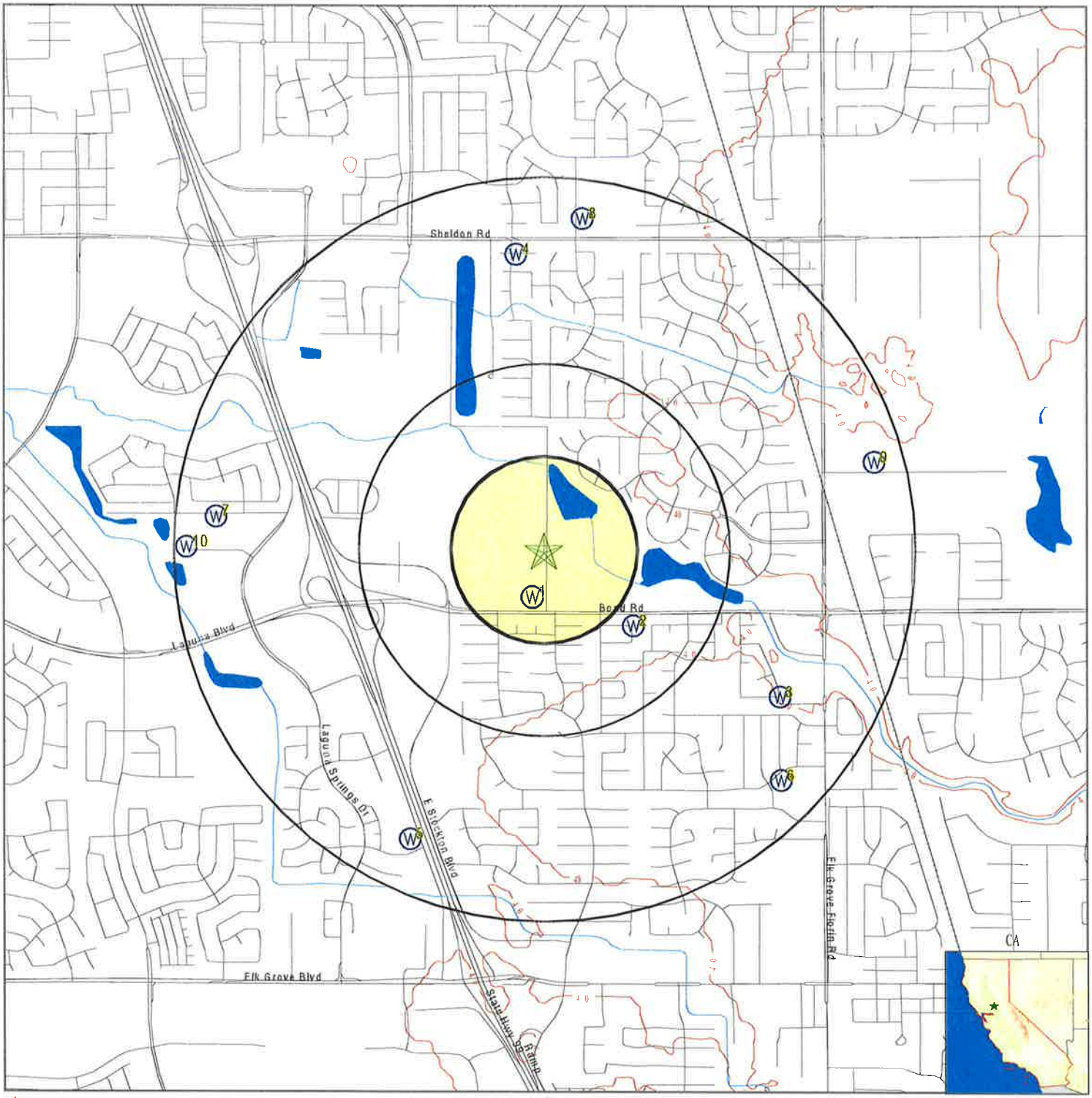
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	7353	1/4 - 1/2 Mile SE
3	CADW50000031653	1/2 - 1 Mile ESE
4	18579	1/2 - 1 Mile North
7	CADW50000031670	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 4094480.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Laguna Creek Trail - South Camden Spur	CLIENT:	Kleinfelder, Inc.
ADDRESS:	BOND RD	CONTACT:	Margaret Carroll
	Elk Grove CA 95624	INQUIRY #:	4094480.2s
LAT/LONG:	38.4259 / 121.3855	DATE:	October 02, 2014 5:37 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSW
1/8 - 1/4 Mile
Higher | **FED USGS** | **USGS40000188261**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-382527121230601		
Monloc name:	007N005E25N001M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18020109	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.4240765
Longitude:	-121.3860627	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	37.00
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Central Valley aquifer system		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19760101	Welldepth:	145
Welldepth units:	ft	Wellholedepth:	175
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1976-01-01	130.00	

2
SE
1/4 - 1/2 Mile
Higher | **CA WELLS** | **7353**

Water System Information:

Prime Station Code:	07N/05E-36E01 M	User ID:	TEN
FRDS Number:	3410008010	County:	Sacramento
District Number:	09	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	382523.0 1212248.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 10 - FEICKERT RANCH		
System Number:	3410008		
System Name:	Elk Grove Water Works		
Organization That Operates System:			
	9257 Elk Grove Blvd.		
	Elk Grove, CA 95624		
Pop Served:	23000	Connections:	6935
Area Served:	ELK GROVE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
3 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADW50000031653**

Latitude :	38.4202		
Longitude :	121.3738		
Site code:	384202N1213738W001	Casgem sta:	07N05E36A001M
Local well:	SCGA #4	Casgem s 1:	Other
County id:	34		
Basin cd:	5-21.65	Basin desc:	South American
Org unit n:	North Central Region Office	Site id:	CADW50000031653

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4 **North** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**18579**

Water System Information:

Prime Station Code:	3410029-019	User ID:	TEN
FRDS Number:	3410029019	County:	Sacramento
District Number:	09	Station Type:	WELL/AMBNT
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	382615.0 1212309.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 65 - SHELDON		
System Number:	3410029		
System Name:	SCWMD Laguna/Vineyard		
Organization That Operates System:			
	827 7th Street, Room 301 Sacramento, Ca 95814		
Pop Served:	20259	Connections:	13272
Area Served:	LAGUNA VINEYARD		
Sample Collected:	19-MAY-11	Findings:	240. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	19-MAY-11	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	19-MAY-11	Findings:	100. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	19-MAY-11	Findings:	120. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	19-MAY-11	Findings:	74. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	19-MAY-11	Findings:	15. MG/L
Chemical:	CALCIUM		
Sample Collected:	19-MAY-11	Findings:	8.9 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	19-MAY-11	Findings:	18. MG/L
Chemical:	SODIUM		

Sample Collected:	19-MAY-11	Findings:	8.9 MG/L
Chemical:	CHLORIDE		
Sample Collected:	19-MAY-11	Findings:	0.11 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	19-MAY-11	Findings:	4.1 UG/L
Chemical:	ARSENIC		
Sample Collected:	19-MAY-11	Findings:	11. UG/L
Chemical:	CHROMIUM (TOTAL)		
Sample Collected:	19-MAY-11	Findings:	180. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	19-MAY-11	Findings:	4.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-MAY-11	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	19-MAY-11	Findings:	1000. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	14-JUN-11	Findings:	9.6 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	13-DEC-11	Findings:	8.1 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	15-MAY-12	Findings:	4.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-MAY-13	Findings:	4.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-FEB-14	Findings:	. 210. US
Chemical:	SPECIFIC CONDUCTANCE		

5
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000188189**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-382453121232801		
Monloc name:	007N005E35J001M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18020109	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.4146323
Longitude:	-121.3921739	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	35.00
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Central Valley aquifer system		
Formation type:	Continental Deposits (Pleistocene-Pliocene)		

Aquifer type:	Not Reported		
Construction date:	19760101	Welldepth:	195
Welldepth units:	ft	Wellholedepth:	205
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-08-09	115.00				
Note: The site had been pumped recently.					
1976-01-01	105.00				

6
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000188212**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-382501121222201		
Monloc name:	007N005E36H001M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18020109	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.4169444
Longitude:	-121.37375	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	42.00
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Central Valley aquifer system		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19560101	Welldepth:	512
Welldepth units:	ft	Wellholedepth:	554
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

7
West
1/2 - 1 Mile
Lower

CA WELLS **CADW50000031670**

Latitude :	38.4272		
Longitude :	121.4018		
Site code:	384272N1214018W001	Casgem sta:	07N05E26P002M
Local well:	SCGA #2	Casgem s 1:	Residential
County id:	34		
Basin cd:	5-21.65	Basin desc:	South American
Org unit n:	North Central Region Office	Site id:	CADW50000031670

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
FED USGS	USGS40000188328

8
North
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-382620121225701		
Monloc name:	007N005E24P001M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18020109	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.4387983
Longitude:	-121.3835628	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	34.00
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Central Valley aquifer system		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19770101	Welldepth:	155
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-08-02	108.68				
Note: The site had been pumped recently.					
1977-01-01	120.00				

9
ENE
1/2 - 1 Mile
Higher

Database	EDR ID Number
FED USGS	USGS40000188281

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-382546121220501		
Monloc name:	007N006E30M002M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18020109	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.4293542
Longitude:	-121.3691179	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	42.00
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Central Valley aquifer system		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19780924	Welldepth:	150
Welldepth units:	ft	Wellholedepth:	200
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1978-09-24	105.00	

10
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000188266**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-382534121240801		
Monloc name:	007N005E26P003M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18020109	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.4260209
Longitude:	-121.4032854	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	32.00
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Central Valley aquifer system		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19770101	Welldepth:	185
Welldepth units:	ft	Wellholedepth:	196
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel
1982-08-04	105.94	

Date	Feet below Surface	Feet to Sealevel
1977-01-01	110.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95624	18	1

Federal EPA Radon Zone for SACRAMENTO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95624

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	3.000 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

BOND RD AND EMERALD CREST
ELK GROVE, CA

Inquiry Number:
October 12, 2014

EDR Site Report™

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 BOND RD AND EMERALD CREST ELK GROVE, CA EDR ID #2009921031
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	**YES - p4**
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in other database records (OTHER)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility has reported emergency releases to the soil

DATABASE: Emergency Response Notification System (ERNS)

BOND RD AND EMERALD CREST
ELK GROVE, CA
EDR ID #2009921031

ERNS:

Site ID:	2009921031
Incident cause:	UNKNOWN
Incident type:	FIXED
Incident date:	10/19/2009 2:00:00 PM
Incident TG:	DISCOVERED
Inc location:	Not reported
Incident address:	BOND RD AND EMERALD CREST ELK GROVE, CA
Distance from city:	Not reported
Distance Unit:	Not reported
Lat/Long:	/
Lat/Long quad:	/
Incident date:	10/19/2009 2:00:00 PM
Township/section/range:	//
Fire involved:	No
Fire extinguished:	Unknown
Passengers Transferred:	NO
Any evacuees:	No
Number of evacs:	Not reported
Who evacuated:	Not reported
Radius of evacuation:	Not reported
Any injuries:	No
Number injured:	Not reported
Number hospitalized:	Not reported
Any fatalities:	No
Any damage:	No
Damage amount:	Not reported
Air corridor desc:	Not reported
Air corridor closed:	Not reported
Water description:	Not reported
Water closed:	No
Water closed time:	Not reported
Road closed:	No
Road closed desc:	Not reported
Road closed time:	Not reported
Closure direction:	Not reported
Major artery:	No
Track closed:	No
Track closed time:	Not reported
Tr. close direction:	Not reported
Track description:	Not reported
Media interest:	NONE
Medium affected:	AIR
Additional medium:	ATMOSPHERE
Body of water:	Not reported
Tributary:	Not reported
Release secured:	Unknown
Est. duration of rel.:	Not reported
Release rate:	Not reported
Rel. rate units:	Not reported
Rel. per units:	Not reported
Remedial action:	NOTIFICATION
Agency on scene:	NONE
Other agency:	Not reported
State agency notified:	NONE
State report #:	NONE
Fed. agency notified:	NONE
Weather:	RAINY
Air temp:	70
Wind speed:	Not reported
Wind speed unit:	Not reported
Wind direction:	Not reported
Water contaminated:	Unknown
Sheen size:	Not reported
Sheen size units:	Not reported
Sheen color:	Not reported
Sheen odor:	Not reported
Sheen length:	Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Sheen len. units:	Not reported
Sheen width:	Not reported
Sheen wid. units:	Not reported
Sheen direction:	Not reported
Wave condit:	Not reported
Current speed:	Not reported
Current speed units:	Not reported
Current direction:	Not reported
Water temp:	Not reported
Employees injured:	Not reported
Employee fatalities:	Not reported
Passengers injured:	Not reported
Passenger fatalities:	Not reported
Occupant fatalities:	Not reported
Community impact:	Not reported
Offshore:	No
Addition info:	CALLER HAD NO ADDITIONAL INFORMATION.
Incident description:	CALLER STATED THAT THERE WAS A STRONG ODOR OF METHANE GAS AT THE INTERSECTION. THERE DIDN'T APPEAR TO BE ANY POSSIBLE SOURCES AROUND. THE CALLER WILL ALSO NOTIFY A NEARBY POLICE OFFICER OF THE SMELL AND THE INTERSECTION IT CAME FROM.
Aircraft type:	Not reported
Aircraft model:	Not reported
Aircraft ID:	Not reported
Aircraft fuel cap:	Not reported
Capacity units:	Not reported
Fuel onboard:	Not reported
Fuel units:	Not reported
Spot number:	Not reported
AC hanger:	Not reported
AC runway:	Not reported
Mile marker:	Not reported
Building ID:	Not reported
Type fixed obj:	OTHER
Power gen facility:	No
Generation capacity:	Not reported
Fuel type:	Not reported
NPDES:	Not reported
NPDES compliance:	Unknown
Pipe type:	Not reported
DOT regulated:	Unknown
Pipe above:	ABOVE
Exposed underwtr:	No
Pipe covered:	Unknown
Grade crossing:	Unknown
Location subdivision:	Not reported
Railroad milepost:	Not reported
Vehicle type:	Not reported
Crossing device:	Not reported
Device operational:	Unknown
DOT crossing #:	Not reported
Brakes failed:	Unknown
Tank description:	Not reported
Above ground tank:	ABOVE
Tank regulated:	Unknown
Tank ID:	Not reported
Tank regulated by:	Not reported
Tank capacity:	Not reported
Capacity units:	Not reported
Actual amount:	Not reported
Amount units:	Not reported
Transportable container:	Unknown
Platform rig name:	Not reported
Platform letter:	Not reported
Local area ID:	Not reported
Local block ID:	Not reported
OCSG number:	Not reported
State lease #:	Not reported
Pier dock #:	Not reported
Berth slip #:	Not reported
Initial continuous rel #:	Not reported
Cont. rel permit:	Not reported
Allision:	Unknown
Structure type:	Not reported
Structure:	Not reported
Structure operator:	U
Air bag deployed:	Unknown
Date time normal srvc:	Not reported
Service disruption time:	Not reported
Transit bus flag:	Not reported
Begin date:	Not reported
End date:	Not reported
Change date:	Not reported
Passenger Delay:	XXX
Passenger Handling:	Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Passenger Route:	XXX
Railroad Hotline:	Not reported
Call received date:	10/19/2009 5:03:24 PM
Complete date:	10/19/2009 5:09:07 PM
Call Type:	INC
Responsible company:	Not reported
RC organization type:	UNKNOWN
	XX
On behalf:	No
Source:	TELEPHONE
Spilled material name:	METHANE
Material CHRIS code:	MTH
Mat. CAS number:	000000-00-0
Material UN #:	Not reported
Amount of spilled mat.:	0
Mat. amount unit:	UNKNOWN AMOUNT
Mat. reached water:	NO
Amount in water:	Not reported
Amount in water units:	Not reported

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

ERNS: Emergency Response Notification System
Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013
Database Release Frequency: Annually

Date of Last EDR Contact: 09/30/2014
Date of Next Scheduled Update: 01/12/2015

APPENDIX E

Historical Sources

Laguna Creek Trail - South Camden Spur
BOND RD
Elk Grove, CA 95624

Inquiry Number: 4094480.3
October 02, 2014

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/02/14

Site Name:
Laguna Creek Trail - South
BOND RD
Elk Grove, CA 95624

Client Name:
Kleinfelder, Inc.
620 West 16th Street
Long Beach, CA 90813

EDR Inquiry # 4094480.3

Contact: Margaret Carroll

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Kleinfelder, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Laguna Creek Trail - South Camden Spur
Address: BOND RD
City, State, Zip: Elk Grove, CA 95624
Cross Street:
P.O. # 20152737.001A
Project: NA
Certification # 6680-4640-96C1

Sanborn® Library search results
Certification # 6680-4640-96C1

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Laguna Creek Trail - South Camden Spur
BOND RD
Elk Grove, CA 95624

Inquiry Number: 4094480.9
October 03, 2014

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Date EDR Searched Historical Sources:

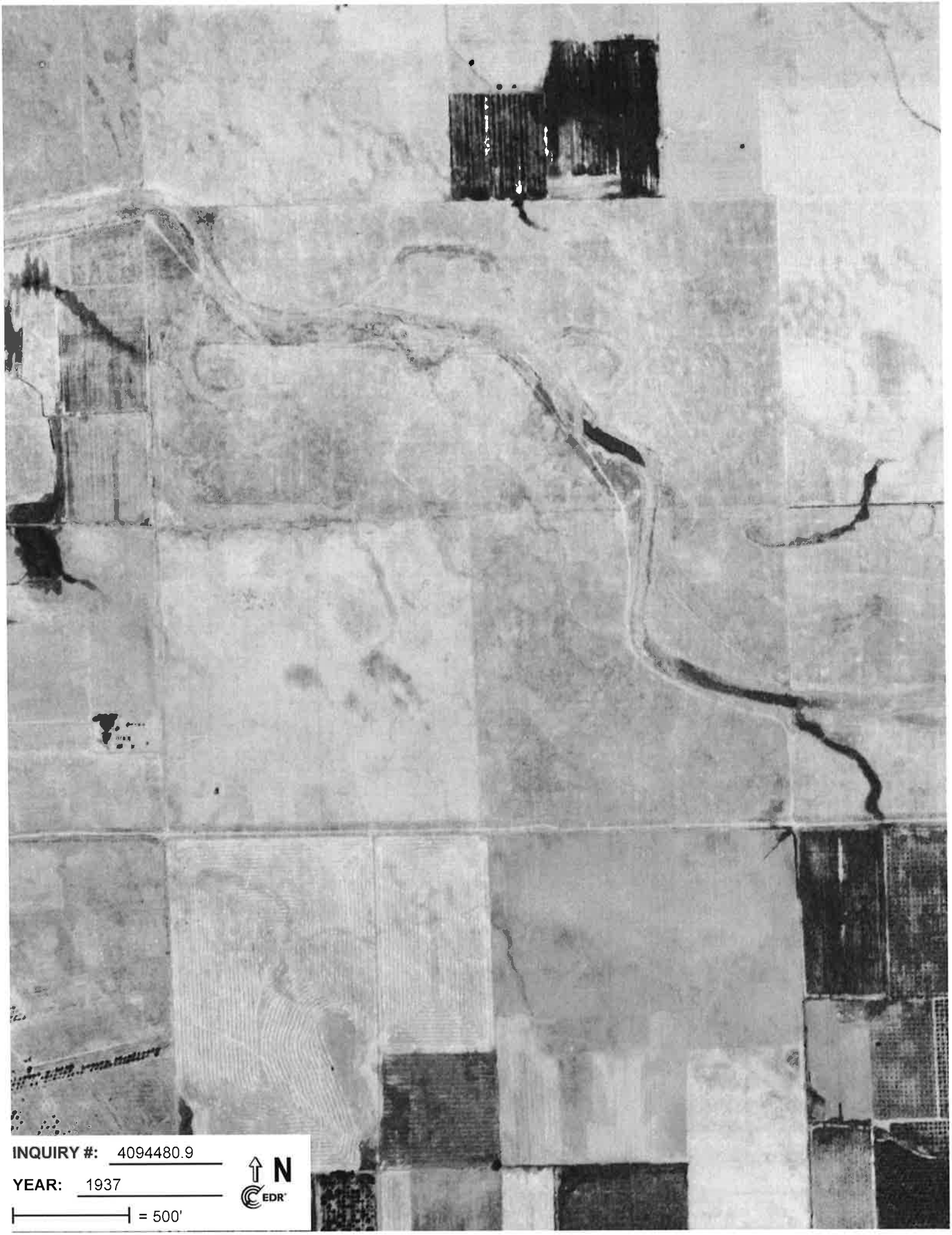
Aerial Photography October 03, 2014

Target Property:

BOND RD

Elk Grove, CA 95624

Year	*Scale*	*Details*	*Source*
1937	Aerial Photograph. Scale: 1"=500'	Flight Year: 1937	USGS
1947	Aerial Photograph. Scale: 1"=500'	Flight Year: 1947	USGS
1957	Aerial Photograph. Scale: 1"=500'	Flight Year: 1957	USGS
1964	Aerial Photograph. Scale: 1"=500'	Flight Year: 1964	USGS
1971	Aerial Photograph. Scale: 1"=500'	Flight Year: 1971	Cartwright
1984	Aerial Photograph. Scale: 1"=500'	Flight Year: 1984	USGS
1993	Aerial Photograph. Scale: 1"=500'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1998	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP



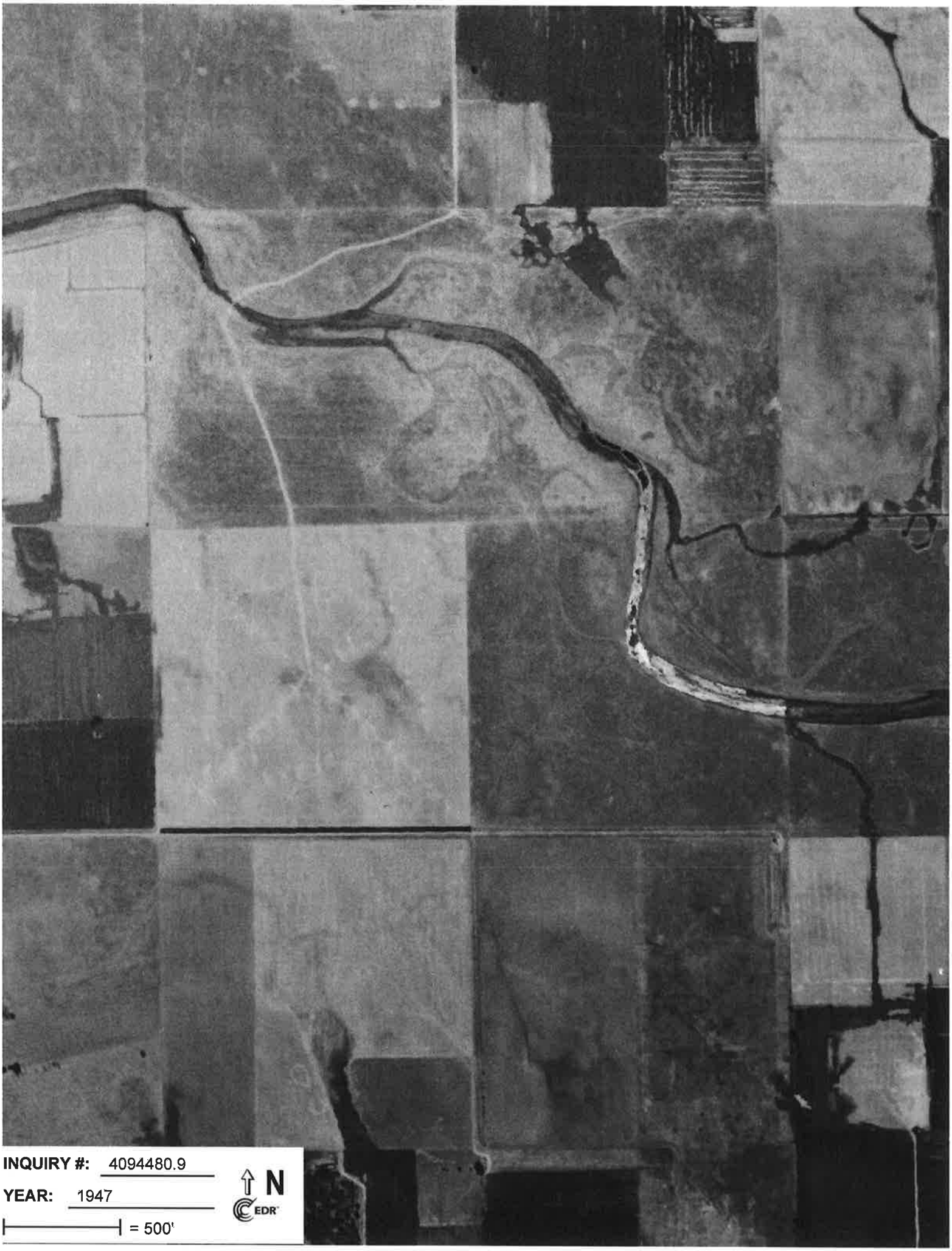
INQUIRY #: 4094480.9

YEAR: 1937

= 500'

N

EDR



INQUIRY #: 4094480.9

YEAR: 1947

= 500'

N

EDR


INQUIRY #: 4094480.9
YEAR: 1957
= 500'
N
EDR

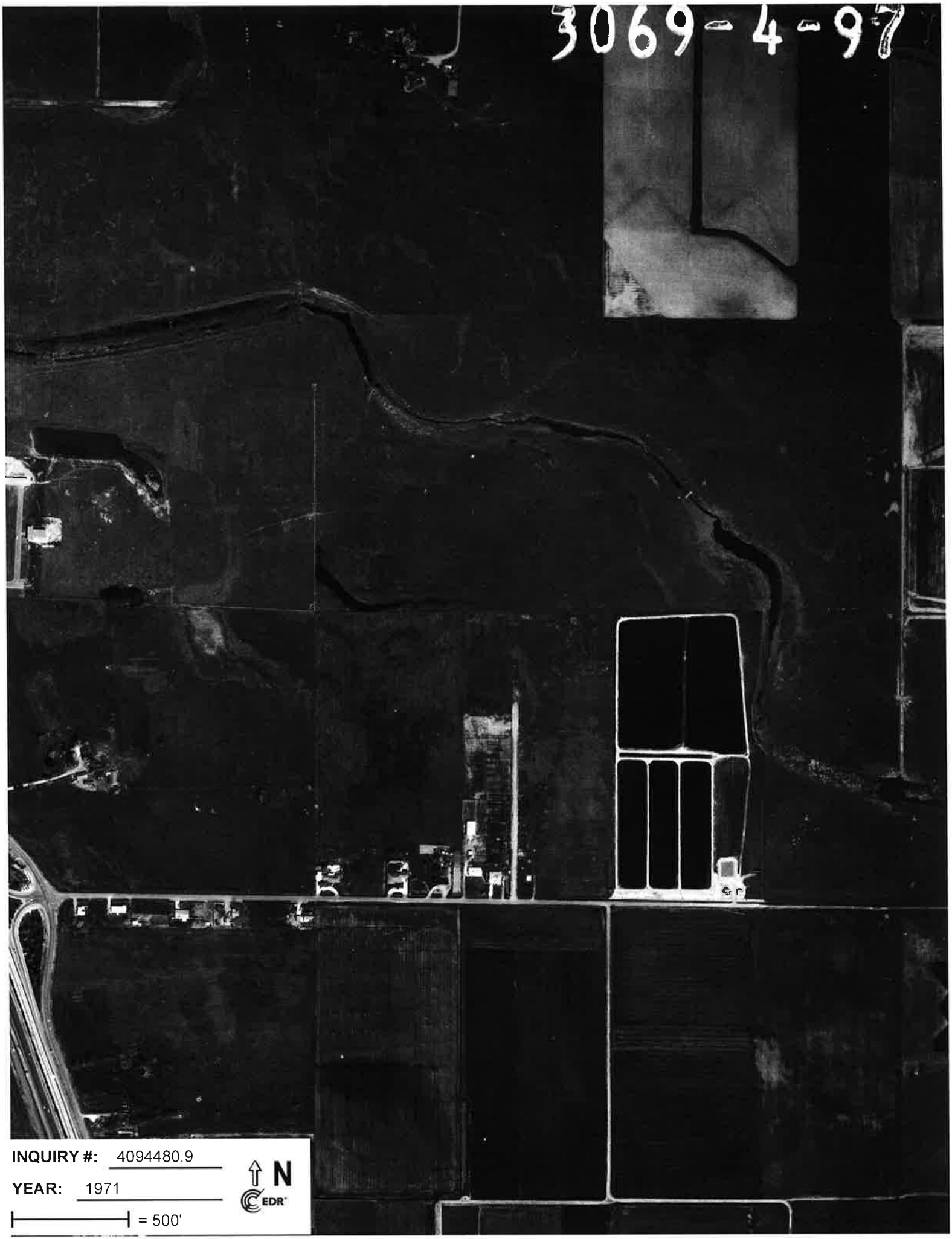
INQUIRY #: 4094480.9

YEAR: 1964

= 500'

N

EDR



INQUIRY #: 4094480.9

YEAR: 1971

= 500'

N

EDR


INQUIRY #: 4094480.9
YEAR: 1984
= 500'
N
EDR

INQUIRY #: 4094480.9

YEAR: 1993

= 500'

N

EDR

INQUIRY #: 4094480.9

YEAR: 1998

= 500'

N

EDR


INQUIRY #: 4094480.9
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 4094480.9

YEAR: 2006

= 500'

N

EDR


INQUIRY #: 4094480.9
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 4094480.9
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 4094480.9
YEAR: 2012
= 500'
N
EDR

Laguna Creek Trail - South Camden Spur
BOND RD
Elk Grove, CA 95624

Inquiry Number: 4094480.5
October 07, 2014

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2013	☑	☐	Cole Information Services
2008	☑	☐	Cole Information Services
2003	☑	☐	Cole Information Services
1999	☑	☐	Cole Information Services
1995	☑	☐	Cole Information Services
1992	☑	☐	Cole Information Services
1989	☑	☐	Haines Criss-Cross Directory
1985	☑	☐	Haines Criss-Cross Directory
1980	☑	☐	Haines Criss-Cross Directory
1974	☑	☐	Haines Criss-Cross Directory
1970	☐	☐	Haines Criss-Cross Directory

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

BOND RD
Elk Grove, CA 95624

Year	*CD Image*	*Source*	
BOND RD			
2013	pg A1	Cole Information Services	
2008	pg A3	Cole Information Services	
2003	pg A5	Cole Information Services	
1999	pg A7	Cole Information Services	
1995	pg A8	Cole Information Services	
1992	pg A10	Cole Information Services	
1989	pg A11	Haines Criss-Cross Directory	
1985	pg A12	Haines Criss-Cross Directory	
1980	pg A13	Haines Criss-Cross Directory	
1974	pg A14	Haines Criss-Cross Directory	
1970	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

BOND RD 2013

1	TOWING
8418	LUIS STEPHENS
8430	CHICKFILA
8458	BUBBLES CAR WASH & DETAIL
8501	AIRPORT SHUTTLE
8507	TOYS R US
8511	SPORT CHALET
8515	PET CLUB
8517	ELK GROVE NONPROFIT NETWORK CENTER
	GROCERY OUTLET
8519	COOL CUTS 4 KIDS
	DOS COYOTES BORDER CAFE
	NAIL SPA CLUB
	NUTRISHOP
	PAESANOS
	PANERA BREAD
	QUALITY CARTRIDGE
8521	ROGERS JEWELERS SUPERSTORE
8525	MIKUNI JAPANESE RESTAURANT & SUSHI
8529	JOANN FABRICS & CRAFTS
	SUSHI MIKUNI
8531	SIZZLER
8569	CALIFORNIA FAMILY FITNESS
	CAPITOL PHYSICAL THERAPY CENTER
	UNIVERSITY CHEER FORCE
8631	SACRAMENTO COUNTY GOVERNMENT
	SACRAMENTOYOLO MOSQUITO & VECTOR CO
8633	TSR INC DEPT 13
8868	J & B BEAUTY SUPPLY
	JENNYS SALON & SPA
	SABOR A MEXICO
8872	WELLS FARGO
	WENDYS
8900	R & J IRRIGATION
8941	CHRIS BOLL
8970	EMMA FIFE
9050	DELBERT BRITSCHGI
9356	JEFF PARKER
9396	KENNETH BOND
9431	RICHARD CALLAS
9441	HARRIS TEAL
9445	PAUL WULFF
9459	GENE KOHAYA
9467	STEPHEN PELHAM
9531	ELK GROVE UNIFIED SCHOOL DISTRICT
9717	COUNTRY OAKS BAPTIST CHURCH
9740	NEAL SIMONSMA
9751	HERMOGENES MATUPAR
9765	ASSAULT MARKETING
	OCCUPANT UNKNOWN

BOND RD 2013 (Cont'd)

9783	DONALD REX
9790	GEORGE HESS
9791	JAMES SIMPSON
9795	RANJNA DUTTA
9799	OCCUPANT UNKNOWN
9803	DAVID FONTAINE
9807	DARLENE JOHNSON
9826	CUSTOMCARE HOME HEALTH SERVICES INC
9859	ARTHUR ROSS
9870	JEN WHITE
9880	HELEN GLANTZ
9988	PAUL CLARKE
10049	OCCUPANT UNKNOWN
10075	C LONG
	FRANK AMARAL
	KONG XIONG
	MAIYER HER
	OCCUPANT UNKNOWN
	TRACY TRAN
10087	OCCUPANT UNKNOWN
10093	NHO PHAM
10111	WENDY MURRELL
10133	OCCUPANT UNKNOWN
10137	JAMES DIPINTO
10143	RICHARD SIBLEY
10157	ZAHID NIAZI
10167	STEPHEN MAHANEY
10177	BRUCE JAMES
10187	JAMES PETERSON
10201	JERRY JACKSON

BOND RD 2008

8418	RON STAHL
8474	S & G DISCOUNT OUTLET INC
8501	CHEVRON STATION INC
8507	TOYS R US KIDSRUS
8509	COUNTRY SEWING CENTER
	JO ANN STORES
8515	PET CLUB
8517	ELK GROVE GROCERY OUTLET
	GROCERY OUTLET
8519	DOS COYETE BORDER CAFE
	ELVAN LAND INVESTMENTS LLC
	JUICE IT UP
	PAESANOS ELK GROVE
	POSTAL ANNEX SONS
8521	ROGERS JEWELRY
8525	MIKUNI RESTAURANT SUSHI BAR
8539	DENISE THURS
8549	JCS EXCAVATING
8569	BYERS GYMNASTICS CENTER
	CALIFORNIA FAMILY FITNESS
	CALIFORNIA FAMILY HEALTH INC
	CAPITOL PHYSICAL THERAPY CENTER
	J RENE ACADEMY OF DANCE
	ROCK HARD CAFE
8619	VIP NAILS
8631	SACRAMENTO YOLO MOSQUITO & VECTOR CO
8868	CINDYS SALON & SPA
	STARBUCKS COFFEE
	TASTE OF NEW YORK LLC
8872	CLASSIC FOODS INC
	WENDYS RESTAURANT
8900	R & J IRRIGATION
8915	LEE EKSTROM
8941	JERROLD STRONG
8970	EMMA FIFE
9050	DELBERT BRITSCHGI
9356	KENNETH PARKER
9431	SANDRA COGSWELL
9441	JANICE TEAL
9459	GENE KOHAYA
9467	E PELHAM
9531	PG WRESTLING BOOSTERS
	PLEASANT GROVE HIGH SCHOOL
9717	COUNTRY OAKS BAPTIST CHURCH
9727	PEGGY ANDRE
9740	NEAL SIMONSMA
9751	HERMOGENES PADUA
9765	ASSAULT MARKETING
	FOCUS ON SALES
	OCCUPANT UNKNOWN

BOND RD 2008 (Cont'd)

9783	DONALD REX
9790	GEORGE HESS
9795	RANJNA DUTTA
9799	NANCYS FUN TRAVEL
	OCCUPANT UNKNOWN
9803	DAVID FONTAINE
9807	DARLENE JOHNSON
9826	LAWRENCE ACOSTA
9859	ARTHUR ROSS
9870	OCCUPANT UNKNOWN
9880	ORLAN GLANTZ
10075	MAIYER HER
	TA VANG
10087	NORMAN HASKINS
10093	NHO PHAM
10111	OCCUPANT UNKNOWN
10133	MEDALLION CLAIMS PROCESSING
	TIM HOOPER
10137	JAMES A DIPINTO CONSTRUCTION
	JAMES DIPINTO
10143	RICHARD SIBLEY
10157	ZAHID NIAZI
10167	STEPHEN MAHANEY
10177	BRUCE JAMES
10187	JAMES PETERSON
10201	JERRY JACKSON

BOND RD 2003

8458	OCCUPANT UNKNOWN
8474	LISA WATTS
8501	PATRICK HAGEN
8529	OCCUPANT UNKNOWN
8539	DENISE THURS
8549	RUSSELL KUHN
8569	BYERS GYMNASTICS CTR
	CALIFORNIA FIT FITNESS CTR
	J RENE ACADEMY OF DANCE
	K JAMES
	ROCK HARD CAFE
	WINGO CONSTRUCTION CO
8589	OCCUPANT UNKNOWN
8596	CAPITOL PHYSICAL THERAPY CTR
8631	SACRAMENTO YOLO MSQT & VCTR
8872	WENDYS RESTAURANT
8900	R & J IRRIGATION
8941	JERROLD STRONG
8970	FERN HANDTMAN
9050	F BRITSCHGI
9250	ELK GROVE POLICE DEPT
	SACRAMENTO COUNTY OF SHRFS
9350	WELDON WOODARD
9356	KENNETH PARKER
9376	MARIE CROCO
9431	LUKE HARRIS
9441	CRAIG TEAL
9445	ROBERTA BAILEY
9459	GENE KOHAYA
9467	ALBERT DAVALOS
9531	JEFF MUNDELL
9717	COUNTRY OAKS BAPTIST CHURCH
9727	PEGGY ANDRE
9740	NEAL SIMONSMA
9751	JOSE MANTUPAR
9765	JODY FAIRMAN
9783	JEANNINE EKEDAHL
9790	GEORGE HESS
9791	JAMES SIMPSON
9799	BRIAN MARTIN
	NANCYS FUN TRAVEL
9807	ROBERT JOHNSON
9826	JULIETTE POTIKER
9859	ARTHUR ROSS
9870	RAHAT SAIED
9924	ORLAN GLANTZ
9955	JANE MARY
9988	PAUL CLARKE
10049	KENNETH DODGE
	MYSTIC OAK RANCH

BOND RD 2003 (Cont'd)

10072	JOHN RUITEN
10075	WILLIAM DAVIS
10087	OCCUPANT UNKNOWN
10111	OCCUPANT UNKNOWN
10133	TIM HOOPER
10137	JAMES A DIPINTO CONSTRUCTION
	JAMES DIPINTO
	OCCUPANT UNKNOWN
10143	RICHARD SIBLEY
10157	EQUESTRIAN ESTATE PARTNERS
	OCCUPANT UNKNOWN
10177	BRUCE JAMES
10187	OCCUPANT UNKNOWN
10201	JERRY JACKSON

BOND RD 1999

8418	RON STAHL
8501	STEPHEN HAGEN
8529	SUSHI MIKUNI
8539	DENISE THURS
8549	JCS EXCAVATING
	OCCUPANT UNKNOWN
8565	OCCUPANT UNKNOWN
8569	OCCUPANT UNKNOWN
8589	OCCUPANT UNKNOWN
8631	MOSQUITO & VECTOR CONTROL DISTRICT
	SACRAMENTO CNTY OF MOSQUITO & VECTOR CNTRL DISTRICT
8633	MOSQUITO & VECTOR CNTRL ASSOCIATION OF CALIFORNIA
8900	R & J SPRINKLERS
8915	C FAIRBANKS
8941	JERROLD STRONG
8970	EMMA FIFE
	FERN HANDTMAN
9250	SACRAMENTO COUNTY OF SHERIFFS DEPARTMENT
9350	JOSEPH TAJEDA
	OCCUPANT UNKNOWN
9356	TERESA PARKER
9396	KENNETH PARKER
9445	PAUL WULFF
9459	GENE KOHAYA
9717	COUNTRY OAKS BAPTIST CHURCH
9727	PEGGY ANDRE
9740	NEAL SIMONSMA
9751	HERMOGENES PADUA
9783	DONALD REX
9790	GEORGE HESS
9791	JAMES SIMPSON
9795	RANJNA DUTTA
9799	NANCYS FUN TRAVEL
9803	DAVID FONTAINE
	OCCUPANT UNKNOWN
9807	DARLENE JOHNSON
9859	ARTHUR ROSS
9880	HELEN GLANTZ
9924	GLANTZ BROTHERS CONSTRUCTION
10049	SARINA CHOHAN
10075	MAIYER HER
10133	TIM HOOPER
10137	JAMES DIPINTO
10143	RICHARD SIBLEY
10157	ZAHID NIAZI
10167	OCCUPANT UNKNOWN
10177	BRUCE JAMES
10187	PETERSON DOLLAGA
10201	LYNNE JACKSON

BOND RD 1995

8458	LANGSTON, CHARLES
8474	OCCUPANT UNKNOWNN
8501	HAGEN, WILLIAM
8529	ADAM, ERNEST L
8539	OCCUPANT UNKNOWNN
8549	J CS EXCAVATING
8565	FEREIRA, KEVIN
8569	CHUNN, DONALD
8900	R & J SPRINKLERS
8915	OCCUPANT UNKNOWNN
8941	BARNETT, G
	STRONG, JERRY
8970	FIFE, WILLIAM
9050	BRITSCHGI, F
9350	WOODARD, WELDON
	WOODWARD, WELDON R
9356	PARKER, KENNETH D
9376	RADER, TERRI
9431	HARRIS, AUBREY
9441	TEAL, CRAIG M
9445	WULFF, PAUL J
9459	OCCUPANT UNKNOWNN
9467	PELHAM, STEPHEN
9740	SIMONSMA, NEAL
9751	DIETZ, DAVID
9765	OCCUPANT UNKNOWNN
9783	OCCUPANT UNKNOWNN
9790	HESS, GEORGE
9791	ORTEGA, JOHN C
9799	CHAPMAN, ANNA
9803	OCCUPANT UNKNOWNN
9807	JOHNSON, ROBERT W
9826	POTIKER, J
9841	OCCUPANT UNKNOWNN
9859	ROSS, ARTHUR
9880	GLANTZ, O J
9924	GLANTZ BROTHERS CONSTRUCTION
	GLANTZ, ORLAN
9955	HORNING, MARY J
9988	CLARKE, PAUL C
10049	CONNICK, DONALD L
	SULLIVAN, WILLIAM M
10072	OCCUPANT UNKNOWNN
10075	DAVIS, W L
	FLINT, NORM
10087	OCCUPANT UNKNOWNN
10111	MURRELL, BILL
10133	HOOPER, TIMOTHY L
10137	DIPINTO, JAMES A
10143	BAKKEN, VALARIE

BOND RD 1995 (Cont'd)

10157 KELLY, MICHAEL F
10167 MAHANEY, STEPHEN
10177 ELDRED, JOHN L

BOND RD 1992

0	HOCHSTRAT, FRANCIS
8458	LANGSTON, CHARLES
8501	HAGEN, WILLIAM
8549	J CS EXCAVATING
8589	PERRY, ANTHONY
	UNITD LATH PLASTER
8900	R&J SPRINKLERS
8941	BARNETT, G
	STRONG, JERRY
8970	FIFE, WILLIAM
9050	BRITSCHGI, F
9350	COATS, BRIAN D
	WOODARD, WELDON
9356	PARKER, KENNETH D
9431	HARRIS, AUBREY
9740	SIMONSMA, NEAL
9751	DIETZ, SANDRA
9783	CAO, DUNG
9790	HESS, GEORGE
9807	JOHNSON, ROBERT W
9859	ROSS, ARTHUR E
9924	GLANTZ BROS CONSTR
	GLANTZ, ORLAN
9955	HORNING, MARY J
9988	CLARKE, PAUL C
10049	CONNICK, DONALD L
	SULLIVAN, WILLIAM M
10075	LONG, CYNTHIA D
10137	DIPINTO, JAMES A
10157	KELLY, MICHAEL F
10167	MAHANEY, STEPHEN
10177	ELDRED, JOHN L

BOND RD 1989

BOND RD 95624
ELK GROVE

8418	STEPHENS Lois G	685-6198	
8430	XXXX	00	
8458	LANGSTON Charles	685-3047	+8
8474	XXXX	00	
8498	GIBSON Edward	686-2368	
8501	HAGEN William	685-2436	4
8539	XXXX	00	
8549	DEAN Grady S	685-2629	
8565	DEMENT Ray W	685-2620	
8569	CHUNN Donald	685-5744	
8589	XXXX	00	
8600	★R&J SPRINKLERS	686-4822	8
8915	XXXX	00	
8941	BARNETT Gertrude	685-7382	6
	STRONG Jerry	686-5880	6
8970	FIFE William	685-4592	
9060	BRITSCHGI C	685-5626	8
	BRITSCHGI F	685-5626	
9308	XXXX	00	
9350	WOODARD Weldon	685-1494	5
9356	PARKER Jeff	685-5662	
	PARKER Kenneth	685-9477	+8
	PARKER Kenneth D	685-5662	
9378	NUNES Ed	686-7039	6
9431	XXXX	00	
9446	XXXX	00	
9459	XXXX	00	
9467	PELHAM Stephen	686-7841	1
9491	XXXX	00	
9531	XXXX	00	
9740	SIMONSMA Neal	686-5875	6
9783	DIETZ David	685-6947	
	DIETZ Sandra	686-6947	6
9790	HESS George	685-8376	3
9791	MOHR William	685-3427	
9793	XXXX	00	
9799	XXXX	00	
9803	XXXX	00	
9807	JOHNSON Robert W	685-8327	
9843	XXXX	00	
9858	ROSS Arthur E	686-9268	
9870	HARRIS Helen	686-9072	6
	HARRIS John J	685-9072	
9924	★GLANTZ BROS CONSTR	685-4208	
	GLANTZ Orlen	685-4208	
9955	BAUGHMAN Glenn	686-9679	4
	HORNING M	685-3267	0
9988	CLARKE Paul C	685-9646	
10055	XXXX	00	
10075	XXXX	00	
10111	FREEMAN Kevin	686-7025	+8
	FREEMAN Susan	686-7025	+8
10133	XXXX	00	
10137	DIPINTO James A	686-6186	7
	DIPINTO James A	686-6104	+8
10143	SIBLEY Richard	685-1670	5
10157	KELLY Michael F	685-1612	+8
10167	MAHANEY Stephen	685-7888	2
10177	RISON Richard C	685-2028	2
10187	XXXX	00	
NO #	HOCHSTRAT Francis	685-3080	

★ 2 BUS 59 RES 6 NEW

BOND RD 1985

BOND RD 95624
ELK GROVE

8418	STEPHENS LUIS G	685-6198	9
8430	XXXX	00	
8458	XXXX	00	
8474	XXXX	00	
8498	GIBSON EDWARD	685-2368	8
8501	HAGEN WILLIAM	685-2436	4
8539	XXXX	00	
8549	DEAN GRADY S	685-2629	8
8565	DEMENT RAY W	685-2620	
8569	CHURN DONALD	685-5744	8
8589	WAITES ARABIANS	686-9807	2
8915	EKSTROM LEE	685-4352	+5
	FAIRBANKS C H	685-4352	+5
8941	ASHAQ SALIM	685-6493	3
	STRONG JERRY	686-7309	1
8970	FIFE WILLIAM	685-4592	7
9308	XXXX	00	
9350	WOODARD WELDON	685-1494	+5
9356	PARKER JEFF	685-5662	+5
	PARKER KENNETH D	685-5662	+5
9376	LILLEY CHARLES	685-2753	7
9431	CLARK WILLIAM E	685-5618	4
9445	XXXX	00	
9459	KOHAYA GENE	686-6754	+5
9467	PELHAM STEPHEN	686-7841	1
9491	XXXX	00	
9531	XXXX	00	
9740	SADDORIS DON	686-9029	0
9790	HESS GEORGE	686-8376	3
9791	MOHR WILLIAM JR	686-3427	9
9793	XXXX	00	
9798	MARTIN R C	686-3313	
9803	FONTAINE DAVID	686-4878	1
9807	JOHNSON ROBERT W	686-6327	9
9843	XXXX	00	
9869	ROSS ARTHUR E	686-9266	9
9924	GLANTZ BROS CONSTR	686-4208	2
	GLANTZ ORLAN	686-4208	
9955	BAUGHMAN GLENN	686-9679	4
	HORNING M	686-3267	0
9988	CLARKE PAUL C	686-9648	6
10065	XXXX	00	
10075	VANRUITEN JOHN L	685-3416	4
	VANRUITEN RANCH	686-3991	8
10133	HOOPER TIM	686-8041	3
10143	SIBLEY RICHARD	685-1670	+5
10167	MAHANEY STEPHEN	686-7886	2
10177	RISON RICHARD C	686-2028	2
10187	XXXX	00	
NO #	AMARAL FRANK M	686-9327	
NO #	BRITSCHGI LOUIS	686-4719	
NO #	ELK GROVE DAIRY	686-4719	
NO #	HARRIS JOHN J MAJ	686-9072	
NO #	HOCHSTRAT FRANCIS	686-3090	
NO #	LOPEZ DANIEL A	686-4043	0
NO #	SCRIVNER STANLEY	686-3616	

* 6 BUS 51 RES 7 NEW

BOND RD 1980

8418	STEPHENS LUIS G	685-6196 9
8430	XXXX	00
8474	BANKS L	685-7083 +0
8498	GIBSON EDWARD	685-2368 8
8501	TILLIS ROGER	685-4183 7
8539	XXXX	00
8549	DEAN GRADY S	685-2629 8
8565	DEMENT RAY W	685-2620 6
8569	CHUNN DONALD	685-5744 8
8915	LATTA BLANCHE	685-4352 4
8970	FIFE WILLIAM	685-4592 7
9308	XXXX	00
9350	CHAMBERLAIN TED	685-5257 +0
9356	HALL KENNETH	685-4190 8
9376	LILLEY CHARLES	685-2753 7
9431	HAGEN HERBERT L	685-6312 9
	STOWEHAGEN WENDI	685-6312 9
9491	PARKER MORRIS	685-3537 9
9531	XXXX	00
9740	SADDORIS DON	685-9029 +0
9791	MOHR WILLIAM JR	685-3427 8
9793	MOHR BRAD	685-5130 +0
9799	MARTIN R C	685-3313 1
9807	JOHNSON ROBERT W	685-6327 9
9843	XXXX	00
9859	ROSS ARTHUR E	685-9288 9
9924	SILVA JIM	685-5928 +0
9955	HORNING M	685-3267 +0
	JOHNDREAU DAVID	685-4969 +0
9988	CLARKE PAUL C	685-9646 6
10056	SOZINHO JOHN JR	685-6491 +0
10075	VANRUITEN RANCH	685-3001 6
10187	JAMES BILL	685-4535 +0
	JAMES CONSTR	685-8832 +0
NO #	ADAM ERNEST L	685-2626 4
NO #	AMARAL FRANK M	685-9327 2
NO #	BRITSCHGI LOUIS	685-4719
NO #	DAVIS JOHN A	685-3631
NO #	ELK GROVE DAIRY	685-4719
NO #	GLANTZ ORLAN	685-4208
NO #	HARRIS JOHN J MAJ	685-9072 2
NO #	HOCHSTRAT FRANCIS	685-3080 1
NO #	LOPEZ DANIEL A	685-4043 +0
NO #	SCRIVNER STANLEY	685-3616 5
NO #	TERRAS JOE MRS	685-4807 9
NO #	UNION OIL BULK PLNT	685-8848
NO #	WYATT MARVIN	685-3731 +0

* 4 BUS 43 RES 12 NEW

BOND RD 1974

BOND RD 95624 ELK GROVE

8915	LATTA BLANCHE	685-4352♦4
9799	MARTIN R C	685-3313 1
NO #	ADAM ERNEST L	685-2626♦4
NO #	AMARAL FRANK M	685-9327 2
NO #	AUGUSTA JOHN	685-2562♦4
NO #	BAKER LOUIS	685-3872
NO #	BRITSCHGI LOUIS	685-4719
NO #	CARRUTH THOMAS C	685-4256♦4
NO #	CASTO ROBERT	685-2627♦4
NO #	CLARKE PAUL C	685-9646
NO #	DAVIS JOHN A	685-3531
NO #	DEAN GRADY S	685-2629♦4
NO #	DEMENT RAY	685-2620♦4
NO #*	ELK GROVE DAIRY	685-4719
NO #	FIFE WILLIAM	685-4592
NO #	GIBSON EDWARD	685-2368♦4
NO #	GLANTZ ORLAN	685-4208
NO #	HARRIS JOHN J MAJ	685-9072 2
NO #	HOCHSTRAT FRANCIS	685-3090 1
NO #	HORNING M	685-3267 3
NO #	LOPEZ DANIEL A	685-4043
NO #	MCCAY LAURA	422-5149 3
NO #	MOHR WILLIAM JR	685-3427

Laguna Creek Trail - South Camden Spur
BOND RD
Elk Grove, CA 95624

Inquiry Number: 4094480.4
October 03, 2014

EDR Historical Topographic Map Report

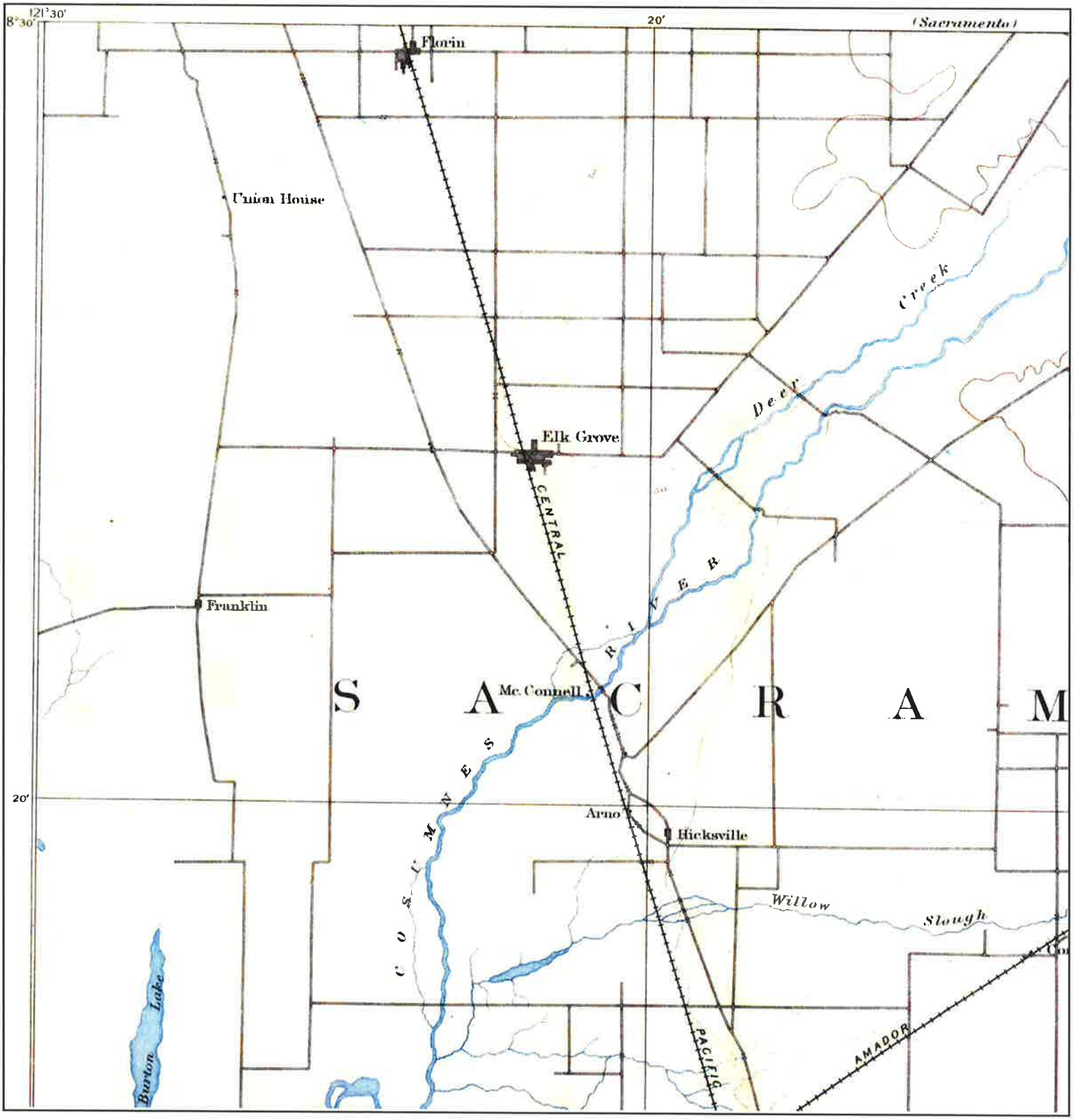
6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

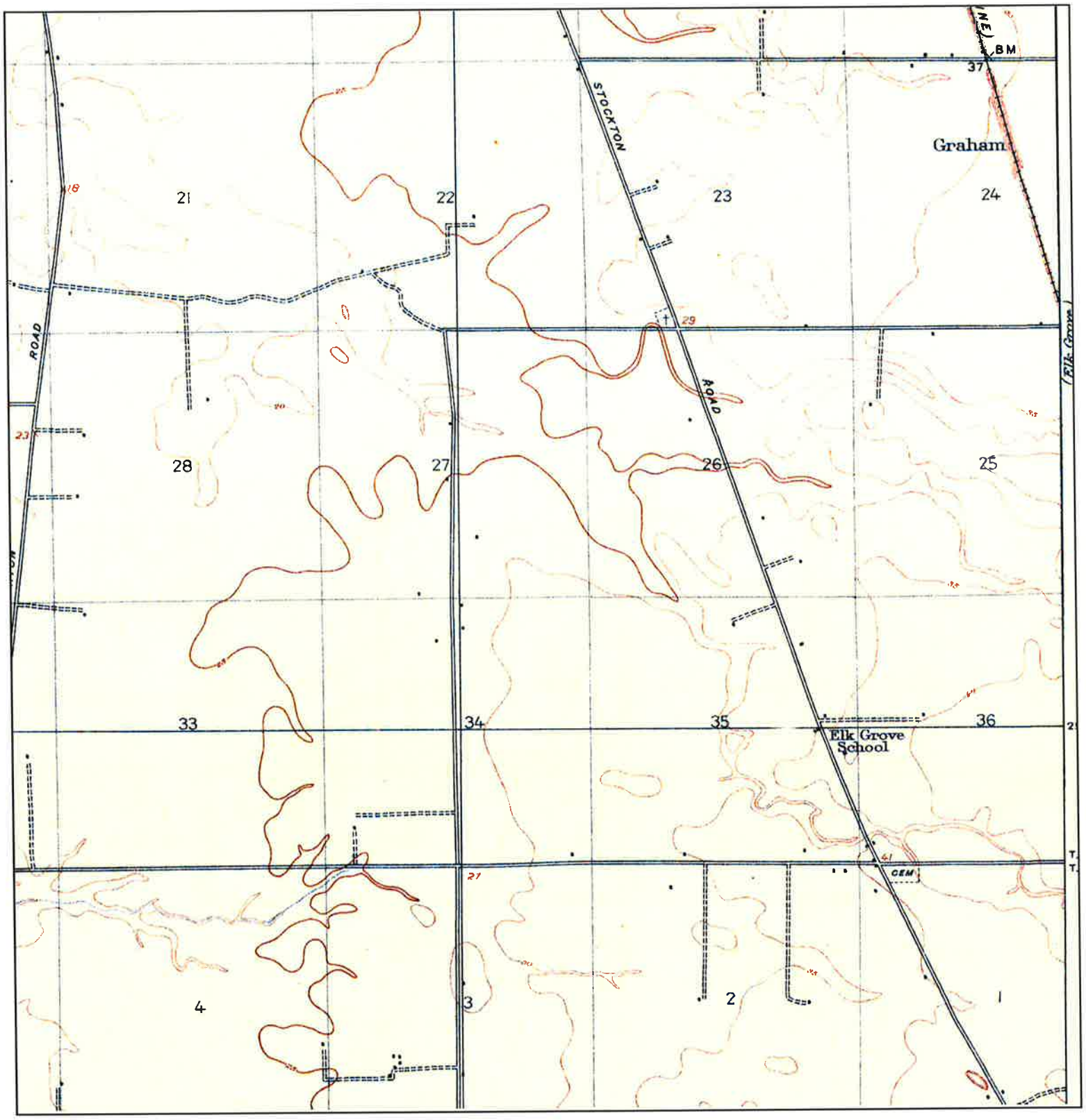
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Historical Topographic Map



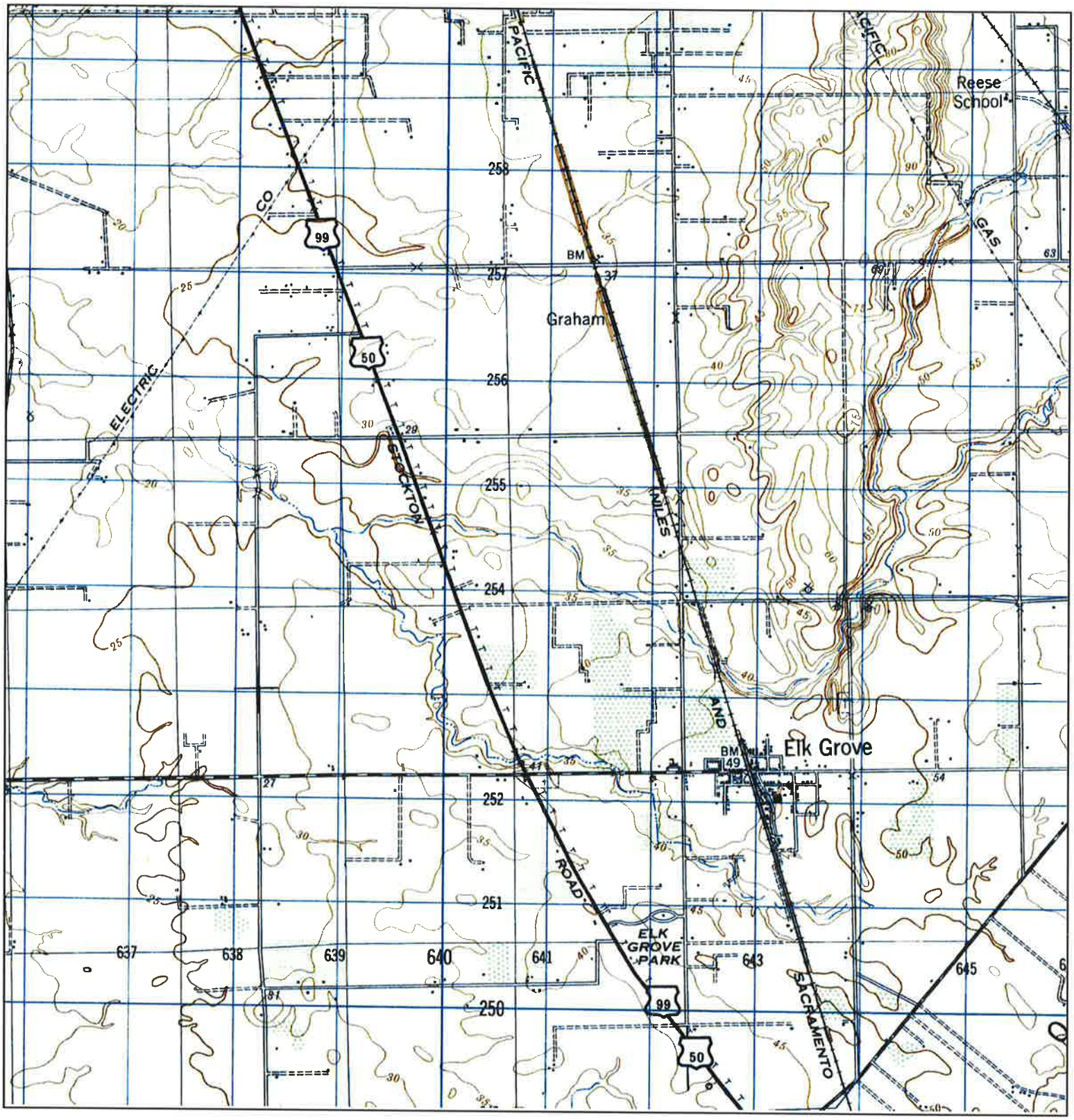
N	TARGET QUAD NAME: LODI MAP YEAR: 1894 SERIES: 30 SCALE: 1:125000	SITE NAME: Laguna Creek Trail - South Camden Spur ADDRESS: BOND RD Elk Grove, CA 95624 LAT/LONG: 38.4259 / -121.3855	CLIENT: Kleinfelder, Inc. CONTACT: Margaret Carroll INQUIRY#: 4094480.4 RESEARCH DATE: 10/03/2014

Historical Topographic Map



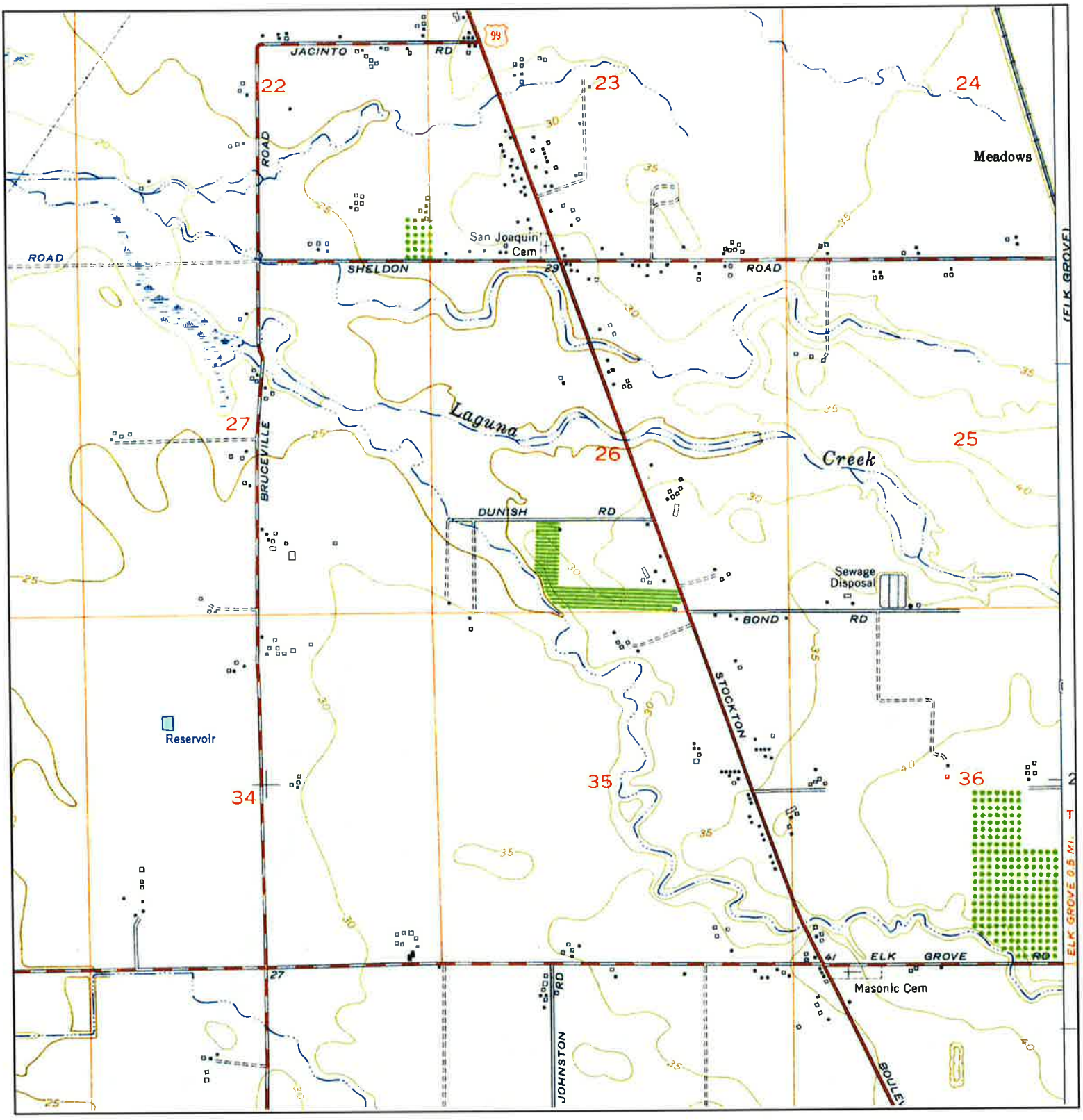
N	TARGET QUAD NAME: FLORIN MAP YEAR: 1909 SERIES: 7.5 SCALE: 1:31680	SITE NAME: Laguna Creek Trail - South Camden Spur ADDRESS: BOND RD Elk Grove, CA 95624 LAT/LONG: 38.4259 / -121.3855	CLIENT: Kleinfelder, Inc. CONTACT: Margaret Carroll INQUIRY#: 4094480.4 RESEARCH DATE: 10/03/2014

Historical Topographic Map



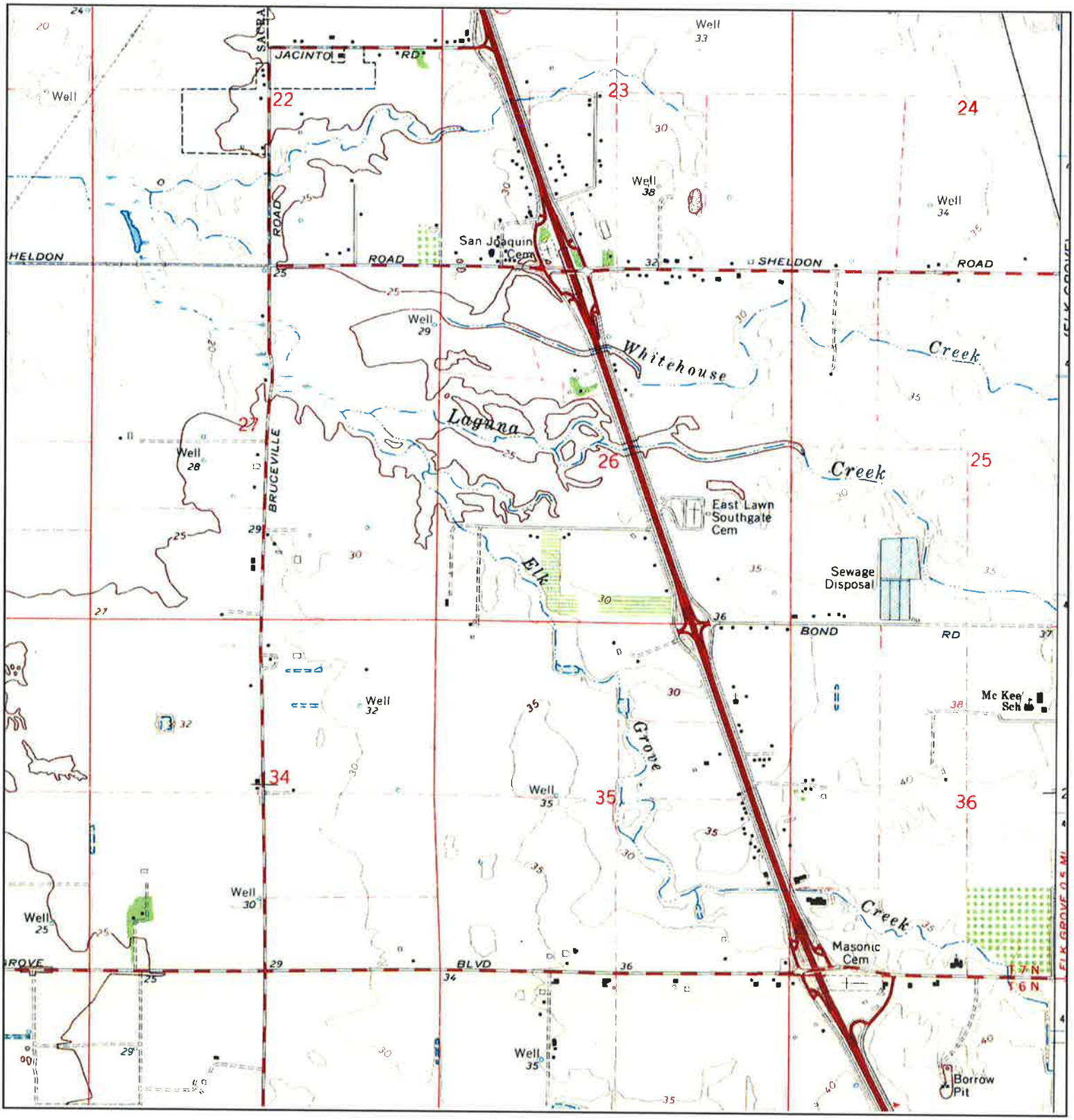
N	TARGET QUAD NAME: GALT MAP YEAR: 1947 SERIES: 15 SCALE: 1:50000	SITE NAME: Laguna Creek Trail - South Camden Spur ADDRESS: BOND RD Elk Grove, CA 95624 LAT/LONG: 38.4259 / -121.3855	CLIENT: Kleinfelder, Inc. CONTACT: Margaret Carroll INQUIRY#: 4094480.4 RESEARCH DATE: 10/03/2014

Historical Topographic Map



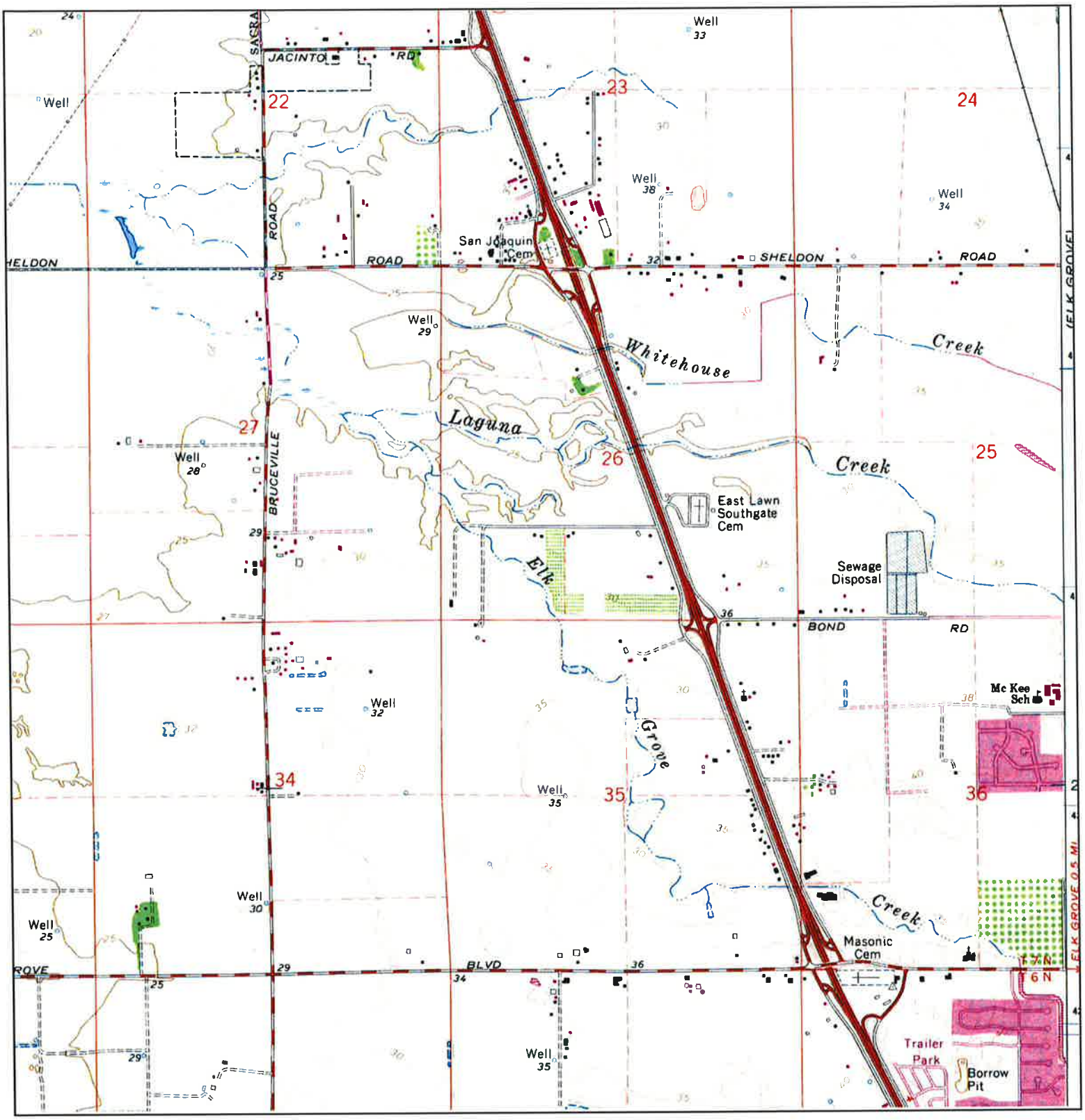
N	TARGET QUAD NAME: FLORIN MAP YEAR: 1953 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Laguna Creek Trail - South Camden Spur ADDRESS: BOND RD Elk Grove, CA 95624 LAT/LONG: 38.4259 / -121.3855	CLIENT: Kleinfelder, Inc. CONTACT: Margaret Carroll INQUIRY#: 4094480.4 RESEARCH DATE: 10/03/2014

Historical Topographic Map



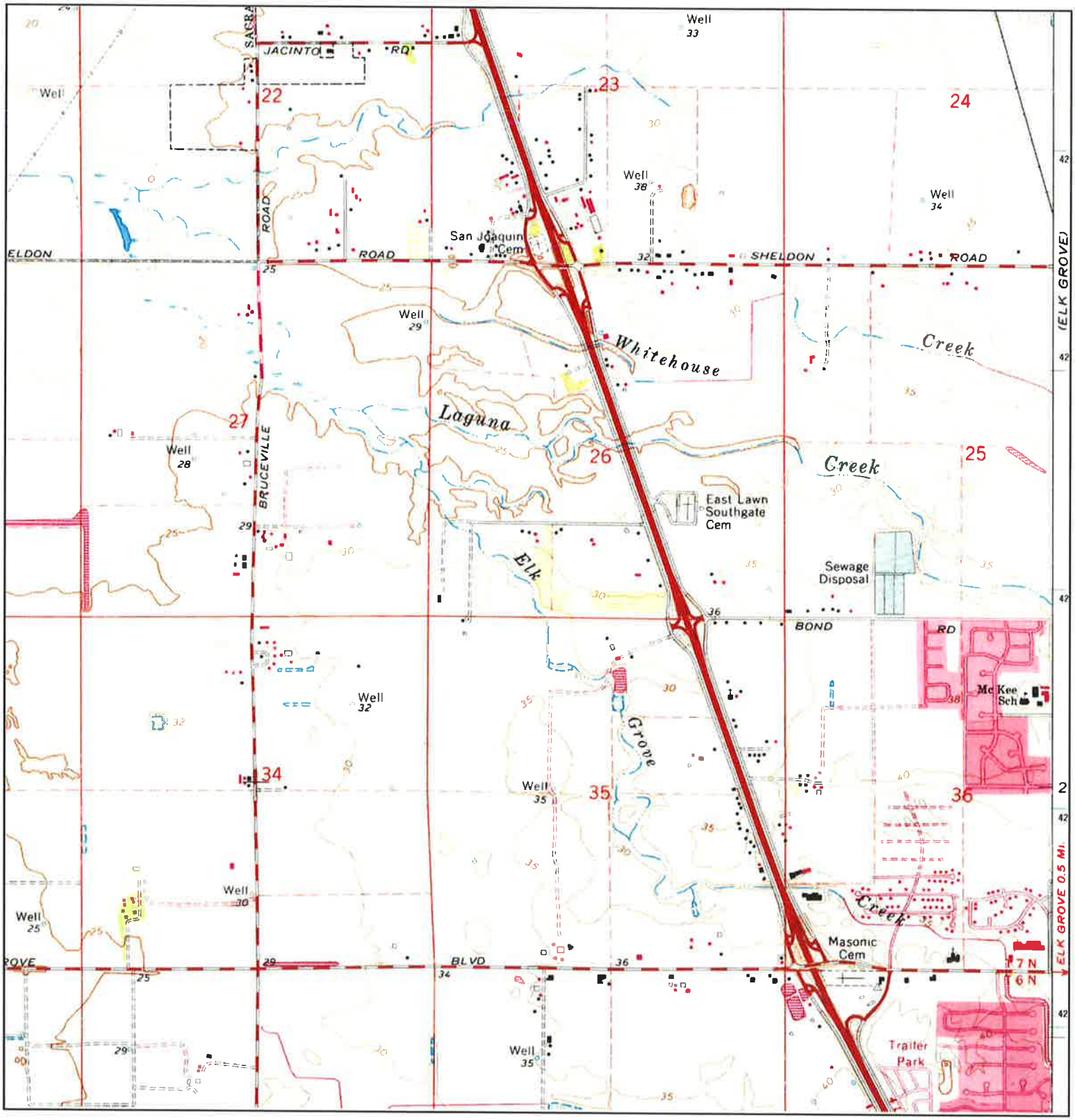
N	TARGET QUAD NAME: FLORIN MAP YEAR: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Laguna Creek Trail - South Camden Spur ADDRESS: BOND RD Elk Grove, CA 95624 LAT/LONG: 38.4259 / -121.3855	CLIENT: Kleinfelder, Inc. CONTACT: Margaret Carroll INQUIRY#: 4094480.4 RESEARCH DATE: 10/03/2014

Historical Topographic Map



N	TARGET QUAD NAME: FLORIN MAP YEAR: 1975 PHOTOREVISED FROM :1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Laguna Creek Trail - South Camden Spur ADDRESS: BOND RD Elk Grove, CA 95624 LAT/LONG: 38.4259 / -121.3855	CLIENT: Kleinfelder, Inc. CONTACT: Margaret Carroll INQUIRY#: 4094480.4 RESEARCH DATE: 10/03/2014

Historical Topographic Map



N	TARGET QUAD NAME: FLORIN MAP YEAR: 1980 PHOTOREVISED FROM :1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Laguna Creek Trail - South Camden Spur ADDRESS: BOND RD Elk Grove, CA 95624 LAT/LONG: 38.4259 / -121.3855	CLIENT: Kleinfelder, Inc. CONTACT: Margaret Carroll INQUIRY#: 4094480.4 RESEARCH DATE: 10/03/2014

APPENDIX D – WATER QUALITY ASSESSMENT MEMORANDUM

WATER QUALITY ASSESSMENT MEMORANDUM

Laguna Creek Trail South Camden Spur Project

Federal Aid Project No. SR2SL 5479(036)

December 2014

California Department of Transportation
&
City of Elk Grove

Caltrans
CALIFORNIA DEPARTMENT OF TRANSPORTATION

CITY OF ELK GROVE CALIFORNIA

Statement of Compliance: Produced in compliance with National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) requirements, as appropriate, to meet the level of analysis and documentation that has been determined necessary for this project.

1. Project Description

1.1 Project Location

The proposed project (Project) is located in the City of Elk Grove (City) in Sacramento County, California. The Laguna Creek Trail currently runs from the north end to the south end of Camden Park and along Laguna Creek from the south end of the park at Bond Road to just south of the intersection of Bond Road and Waterman Road. The proposed Project would extend the existing Laguna Creek Trail from the north end of Camden Park south to Bond Road. **Figures 1** and **2** illustrate the Project vicinity and Project location.

1.2 Project Setting

Existing land uses surrounding the Project site include park and open space, agricultural residential, residential, public/quasi-public, and commercial. The proposed Project site is relatively flat and is partially located on land designated for parks and open space and partially located adjacent to commercial and public land uses. Laguna Creek is the main creek that flows through Elk Grove and flows west through the Project area. Camden Lake is located in Camden Park and adjacent to the proposed Project.

1.3 Project Description

The proposed Project is located in Elk Grove, Sacramento County, California (**Figures 1** and **2**). The City proposes to extend a multi-use trail from the west end of the existing Laguna Creek Trail at the north end of Camden Park south to Bond Road. The proposed Project includes the extension of the multi-use trail, a proposed planting area east of the proposed trail and west of Camden Park, and construction of a bridge structure over Laguna Creek. Laguna Creek Trail is one of the longest trail segments in Elk Grove and connects several regional trails. The Project proposes to close an identified gap in the trail infrastructure that serves the City of Elk Grove from Bond Road to Camden Park.

No additional right-of-way is required for the proposed trail alignment and bridge structure beyond encroachment onto Cosumnes Community Services District property. The proposed Project would require relocation of a storm drain inlet and a manhole and modifications to an irrigation system. The Project is consistent with the Elk Grove General Plan and the Elk Grove Bicycle, Pedestrian and Trails Master Plan. Each plan identifies the need for an off-street multi-use trail system providing connections throughout the city and the Sacramento region.

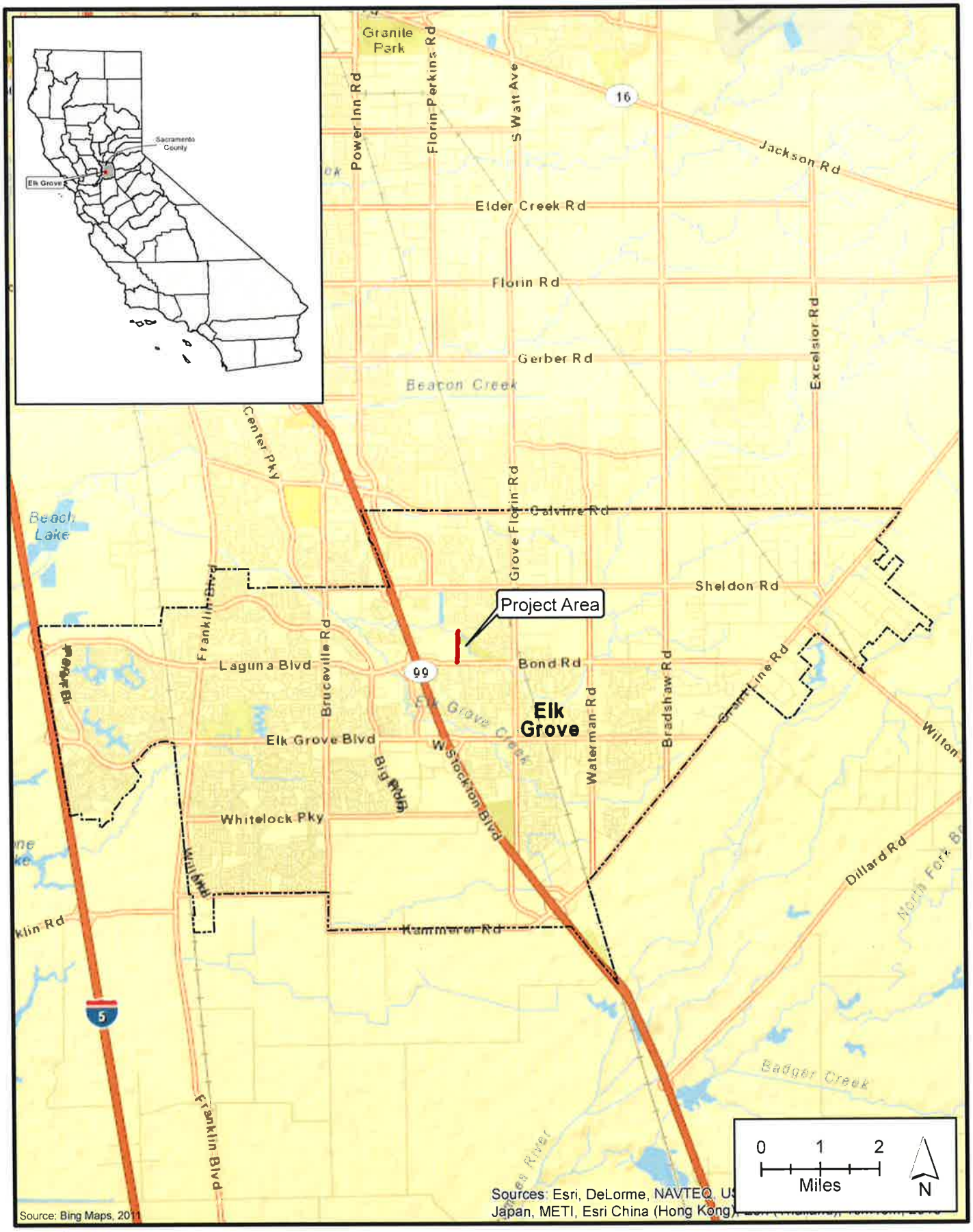
1.4 Project Purpose and Need

Purpose

The purpose of this project is to provide bicycle-pedestrian trail connectivity between the Camden Point and Camden Estates residential areas (north of Laguna Creek) to schools and commercial retail-shopping-dining uses along or south of Bond Road. There is currently no trail crossing of Laguna Creek between East Stockton Boulevard to the west and Elk Grove Florin Road to the east. This project is the south half of two projects to improve this trail system in Elk Grove.

Need

The Project will enhance pedestrian safety for schoolchildren commuting to four schools: Ellen Feickert and James A. McKee elementary schools, Joseph Kerr Middle School, and Sheldon High School. It will link with the existing trail system as well as with bike routes and other pedestrian paths. It provides an alternative mode of transportation and allows access along natural environmental features such as Laguna Creek and Camden Lake. It also provides for use of alternative transportation means to access park-and-ride lots adjacent to State Route 99 via the connection to Bond Road.



City of Elk Grove
Development Services

Figure 1

Project Vicinity

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City of Elk Grove
Development Services

Figure 2
Project Location

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2. Regulatory Setting

2.1 Federal Laws and Requirements

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 (U.S.) from any point source unlawful unless the discharge is in compliance with a 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.

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 and General permits. For General permits there are two types: 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 also 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) Section 404 (b)(1) Guidelines (CFR 40 Part 230), and whether permit approval is in the public interest. The 404(b)(1) Guidelines were developed by the U.S. EPA in conjunction with USACE, and allow the discharge of dredged or fill material into the aquatic system (waters of the U.S.) 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 less effects on waters of the U.S., and not have any other significant adverse environmental consequences. Per Guidelines, documentation is needed that a sequence of avoidance, minimization, and compensation measures have 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 U.S. In addition, every permit from the USACE, even if not subject to the 404(b)(1) Guidelines, must meet general requirements. See 33 CFR 320.4.

Anti-Degradation Policy

The anti-degradation policy applies to federal and state waters of high quality as well as to all groundwater that is potentially usable for drinking water. Under the federal anti-degradation policy, each state is required to develop, adopt, and retain a statewide anti-degradation policy for water quality standards and establish implementation procedures. The federal anti-degradation policy incorporates three tiers to guide anti-degradation analysis: Tier 1 maintains and protects existing uses and water quality conditions to support existing uses, Tier 2 includes high-quality waters, and Tier 3 includes waters identified as Outstanding National Resource Waters (ONRW). Water quality degradation is not allowed in Tier 3 waterbodies. California has designated Lake Tahoe, Mono Lake, and oceanic Areas of Special Biological Significance as ONRW.

2.2 State Laws and Requirements

Porter-Cologne Water Quality Control Act

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

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

controls (NPDES permits or Waste Discharge Requirements), the CWA requires the establishment of Total Maximum Daily Loads (TMDLs). TMDLs specify allowable pollutant loads from all sources (point, non-point, and natural) for a given watershed.

State Water Resources Control Board and Regional Water Quality Control Boards

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

National Pollution Discharge Elimination System (NPDES) Program

The SWRCB adopted a single statewide general permit for construction activities (Order No. 2009-0009-DWQ) (CAS000002) that applies to all storm water discharges from land where clearing, grading, and excavation result in soil disturbances of 1.0 acre or more. The permit requires all projects covered by the permit to develop a storm water pollution prevention plan (SWPPP).

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.

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

Central Valley RWQCB Water Quality Control Plan (Basin Plan)

The Central Valley RWQCB Basin Plan covers all the drainage basin areas for the Sacramento and San Joaquin River Basins and the Tulare Lake Basin. This plan describes the beneficial uses to be protected in these bodies of water, water quality objectives to protect those uses, and implementation measures to make sure those objectives are achieved. The proposed project is located in the Sacramento River Basin, which covers approximately 27,200 square miles from the California-Oregon border to the Bay-Delta (Central Valley RWQCB 1998). The Basin Plan identifies control actions implemented by the Central Valley RWQCB to achieve water quality objectives including:

1. Identifying potential water quality problems.
2. Confirming and characterizing water quality problems through assessments for source, frequency, duration, extent, fate, and severity.
3. Remedying water quality problems through imposing or enforcing appropriate measures.
4. Monitoring problem areas to assess effectiveness of the remedial measures.

Sacramento County NPDES Permit

The City of Elk Grove, the Cities of Citrus Heights, Folsom, Galt, Rancho Cordova, and Sacramento, and the County of Sacramento operate under the NPDES to discharge urban runoff from MS4s in their municipal jurisdictions (NPDES Permit No. CAS082597). The permit requires that the City prepare a Storm Water Quality Improvement Plan (WQIP) 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.

City of Elk Grove General Plan Policies and Ordinances

The City's General Plan was adopted by the City Council in November 2003 and reflects amendments through July 2009. The General Plan contains policies and implementation measures that apply to development within the city limits. The Conservation Element and the Safety Element include policies and implementation measures relevant to surface water and groundwater resources as well as water quality protection in the city. Applicable policies are listed below.

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.

3. Affected Environment

Analysis of the affected environment describes the environmental characteristics in the Project study area (PSA) and surrounding area including land use, topography, geology and soils, surface water features, precipitation and climate, groundwater conditions, and floodplains.

3.1 General Setting

The proposed Project is located in Elk Grove, west of Camden Park from the north end of the park south to Bond Road. Elk Grove, and thus the Project, is located in the Great Valley geomorphic province, which is described as a relatively flat alluvial plain. Elevations in the Project study area range from approximately 32 feet to 40 feet above mean sea level. The proposed Project is located in the Sacramento River watershed. The Project site is surrounded by park and open space, agricultural residential, and residential, public/quasi-public, and commercial land uses. Camden Park is located east of the proposed Project, and the Laguna Creek Trail terminates at the start of the north end of the Project. Elk Grove lies in a relatively flat alluvial plan. Elevations in the City's Planning Area generally range from approximately 10 feet to 150 feet above mean sea level.

The Sacramento River watershed includes the entire drainage area of the Sacramento River. Elk Grove, including the proposed Project, is located in the South American subbasin of the Sacramento River watershed. Laguna Creek flows west through the PSA and continues flowing westerly until it drains into Morrison Creek, which flows into the Sacramento River. All waterways in the PSA drain into Laguna Creek. Camden Lake is located east of the proposed Project in Camden Park. The proposed Project is located in the 100-year floodplain of Laguna Creek. The average annual precipitation in Elk Grove ranges from 15 to 20 inches. The City is located at the southern end of the Sacramento Valley bioregion and the northern end of the Bay/Delta bioregion. Temperatures in Elk Grove have reached as low as 18 degrees Fahrenheit and as high as 115 degrees Fahrenheit. Generally, the coolest month of the year is December and the warmest month of the year is July, with the most precipitation occurring in January.

The proposed Project is underlain by the Sacramento Valley aquifer system, which consists 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 2013). Streams, subsurface inflows from adjacent areas, percolation of rainfall, and applied water provide recharge to the aquifer system in the City.

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. The shrink-swell potential of soils in the PSA is high due to the high percentage of claypan in the soils. Soils in the PSA are generally well drained to moderately well drained and more than 80 inches above the water table. According to the US Department of Agriculture's Web Soil Survey for the PSA, three major soil types have been identified:

- Bruella sandy loam, 0 to 2 percent slopes
- San Joaquin silt loam, 0 to 1 percent slopes
- San Joaquin silt loam, 0 to 3 percent slopes

PMC prepared a Preliminary Delineation of Wetlands and Waters of the US (Wetland Delineation) in 2014. The Wetland Delineation identified stream and riparian habitat communities within the Project study area. **Table 3-1** displays the types and acreages of aquatic habitats within the PSA for the Project. Four aquatic classifications occur in the PSA: perennial stream, drainage ditch, seasonal wetland, and open water. Perennial streams in the PSA are characterized by dense riparian and emergent vegetation, drainage ditches are dominated by herbaceous species along their banks, and seasonal wetlands are defined by a hydrologic regime that is dominated by saturation, rather than inundation. Camden Lake, east of the proposed Project, is an open water feature bordered by emergent vegetation.

Table 3-1 Aquatic Features in the PSA

Feature	Area (ac.)
Perennial	0.480
Drainage Ditch	0.235
Seasonal Wetland	0.022
Open Water	0.539

3.2 Water Quality Objectives/Standards and Beneficial Uses

Laguna Creek is the main surface water feature that flows through Elk Grove and is the only stream feature in the vicinity of the proposed Project. The creek flows westerly through the PSA. Beneficial uses for Laguna Creek are not specifically identified in the Basin Plan prepared by the Central Valley RWQCB or in the City of Elk Grove Storm Drainage Master Plan. However, Laguna Creek discharges to the Sacramento River, for which beneficial uses are identified in the Basin Plan for the Central Valley Region. Surface waters in the Sacramento River watershed that are not specifically identified are included in the category of "Other Lakes and Reservoirs in Sacramento River Basin" and have beneficial uses including municipal and domestic supply,

irrigation and stock watering, process, power, contact recreation, other non-contact recreation, warm freshwater habitat, cold freshwater habitat, cold freshwater habitat – spawning, and wildlife habitat (Central Valley RWQCB 1998).

3.3 Existing Water Quality

The Sacramento Stormwater Quality Partnership includes the Cities of Elk Grove, Citrus Heights, Folsom, Galt, Rancho Cordova, and Sacramento and the County of Sacramento. The cities and county included in the partnership were reissued a NPDES MS4 Permit, which requires the Permittees in the partnership to reduce pollutants in urban storm water discharges as much as possible.

The current Clean Water Act Section 303(d) list approved by the Environmental Protection Agency is the 303(d) list published in 2006, which does not list Laguna Creek, its tributaries, Morrison Creek, or the Sacramento River. Morrison Creek and the Sacramento River were previously listed on the 303(d) list but have since been delisted. However, receiving waters downstream from the proposed Project, including the Delta, are included on the 303(d) list as impaired to some degree. The central, eastern, northern, northwestern, southern, and western portions and the export areas of the Delta waterways are listed as impaired waterbodies with pollutant concentrations and stressors above the established Total Maximum Daily Loads including chlorpyrifos, DDT, diazinon, electrical conductivity, exotic species, group A pesticides, mercury, and unknown toxicity (CDWR 2006).

4. Environmental Consequences

The proposed Project includes the construction of a bridge/weir crossing at Camden Lake over Laguna Creek and the relocation of a storm drain inlet, a manhole, and two existing control valves, which could result in temporary impacts limited to the time of construction. Best management practices (BMPs) would be implemented for the Project in adherence to all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. The proposed Project will include construction and post-construction BMPs such as stabilized construction entrances and exits and sandbag barriers to control increased erosion and sedimentation during construction. A SWPPP may or may not be required for the Project depending on the area of disturbance. Specific BMPs to be used during construction would be identified as Project design advances and finalized in the approved Project SWPPP. If a SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. The following sections discuss potential impacts to water quality from construction and operation of the proposed Project.

4.1 Potential Impacts to Water Quality

Short-Term Construction Impacts

The proposed Project would result in paving an approximately one-half-mile multi-use trail with asphalt, construction of a combined bridge/weir crossing at Camden Lake over Laguna Creek, and relocation of a storm drain inlet, a manhole, and two existing control valves. Construction of the proposed Project could result in temporary alteration of on-site drainage patterns, which could increase erosion and siltation on- and off-site during wind storm events and could result in on- or off-site flooding. Minimal encroachment to the seasonal wetland identified in **Table 3-1** could occur during construction of the proposed Project. Additionally, an increase in erosion, sedimentation, and polluted storm water runoff could result from the operation of construction at the Project site as well as accidental spills from oils, grease, fuels, and other chemical pollutants associated with operation and maintenance of construction equipment.

Construction site BMPs would be implemented for the proposed Project in adherence to all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. Implementation of construction site BMPs and minimization measures listed in Section 5 of this Memorandum would reduce short-term impacts to less than significant.

Long-Term Operation Impacts

The proposed Project would construct an approximately one-half-mile paved asphalt multi-use trail with a combined bridge/weir crossing at Camden Lake over Laguna Creek. The trail will be constructed adjacent to and west of a drainage ditch and will result in an increase in impervious surfaces in the PSA. This increase in impervious surfaces could result in increased surface water runoff into drainage ditches and receiving waterbodies. The multi-use trail would primarily by used by pedestrians and bicyclists and would not be used by motor vehicles that would introduce pollutants such as oil, grease, fuel, and other chemical pollutants that could be carried in storm water runoff at the Project site. Implementation of treatment BMPs and minimization measures listed in Section 5 of this Memorandum would reduce long-term impacts to less than significant.

4.2 Cumulative Impacts

The addition of impervious surfaces for an approximately one-half-mile multi-use trail from the north end of Camden Park to Bond Road would cover a very small percentage of the total area in the Sacramento River watershed, which covers approximately 27,210 acres. Increases of impervious surfaces in the PSA would result in increased storm water runoff into receiving waterbodies. Reasonably foreseeable future development in the Project vicinity includes buildout conditions identified in the City of Elk Grove General Plan Land Use Map (2009), which designates low-density residential land uses planned for development northwest of the proposed Project. The proposed Project represents a very small percentage of development resulting in increased impervious surfaces in the Sacramento River watershed; thus, impacts would be less than cumulatively considerable.

5. Avoidance and Minimization Measures

For storm water quality protection, the City of Elk Grove will implement avoidance, minimization, and mitigation measures to reduce or eliminate pollutants in runoff discharging to drainage conveyances and waterways and minimize the potential for sedimentation. The Caltrans SWMP provides guidance for compliance with the Statewide NPDES Permit (Order No. 2012-0011-DWQ) (CAS000003) to reduce the discharge of pollutants associated with the stormwater drainage system. Short- and long-term impacts to water quality will be addressed by the following measures:

WQ-1 Any dewatering activities during construction would be in compliance with applicable NPDES permits and other water quality regulations.

Construction BMPs would be implemented for the Project in adherence to all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. A SWPPP may or may not be required for the Project, depending on the area of disturbance. Specific BMPs to be used during construction would be identified as Project design advances and finalized with the approved Project SWPPP; however, these measures would be designed to accommodate drainage requirements and avoid on- and off-site flooding. If a SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. With implementation of BMPs required for the NPDES Construction General Permit and other applicable water quality regulations (joint NPDES permit for MS4s [NPDES No. CAS082597]), effects from short-term flooding during Project construction would be negligible.

WQ-2 Construction BMPs will be implemented for the Project in adherence to all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. A SWPPP may or may not be required for the Project depending on the area of disturbance. If the Project does require a SWPPP, it will require the contractor to identify the location of the designated staging areas, will include specific requirements for equipment fueling, maintenance, and storage processes, and will include stormwater BMPs to prevent the release of polluted storm water into adjacent waterways. If a SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. With adherence to the NPDES requirements and implementation of applicable BMPs, short-term

impacts to water quality related to materials discharge will be adequately controlled during construction.

WQ-3 BMPs will be implemented for the Project in adherence to all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. Specific BMPs to be used during construction would be identified as Project design advances and finalized in the approved Project SWPPP based on the risk level determined under the NPDES General Construction Permit guidelines such as stabilized construction entrances and exits, sandbag barriers, gravel bag berms, and fiber rolls to control increased erosion and sedimentation and to prevent construction site runoff from entering adjacent waterways. If a SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. The General Construction Permit lists the following requirements for Risk Level 2, the most likely risk level for this project, for minimizing sediment, erosion, and water quality impacts:

- Good site "housekeeping"
- Sediment controls
- Run-on and run-off controls
- Inspection, maintenance, and repair of BMPs
- Numeric action levels
    - Turbidity: 250 Nephelometric Turbidity Units
    - pH: 6.5–8.5
- Rain event action plan
- Effluent monitoring

As part of the NPDES requirements, the contractor will be required to identify and implement BMPs that would ensure no debris or other pollutants from the construction of the multi-use trail and combined bridge/weir crossing structure. Appropriate BMPs would also be incorporated into Project plans to protect worker safety, and applicable hazardous materials regulations pertaining to collection, testing, and disposal of contaminated groundwater would be followed.

WQ-4 Treatment BMPs will be implemented as required by NPDES permits to remove pollutants from runoff water. Specific BMPs would be identified as Project design

advances and would be identified in final design plans. With implementation of best management practices required by NPDES permits, and with adherence to other applicable water quality regulations, pollutant levels in storm water runoff would not be expected to exceed applicable water quality standards.

With implementation of applicable storm water management plans, construction and permanent BMPs, and adherence to the requirements of the Caltrans Statewide NPDES permit (CAS000003) and Sacramento County NPDES permit (CAS082597), the Project would have minimal impacts to water quality.

6. References

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APPENDIX E – SUMMARY FLOODPLAIN ENCROACHMENT REPORT

SUMMARY FLOODPLAIN ENCROACHMENT REPORT*

Dist. 03 Co. Sacramento Rte. N/A P.M. N/A
Project No.: SR2SL 5479(036) Bridge No. N/A
Limits: Laguna Creek River Mile 5.043 to 6.374

Floodplain Description: Laguna Creek is located in the City of Elk Grove, Sacramento County and is part of the Morrison Creek Stream Group. As shown on the FEMA FIRM 0602620320E (July 6, 1998), the floodplain is within Zone AE. The area within the limits of Laguna Creek River Mile 5.043 to 6.374 does not have a 100-year floodway. Only a 100-year floodplain is delineated in the FEMA FIRM.

		No	Yes
1.	Is the proposed action a longitudinal encroachment of the base floodplain?	X	
2.	Are the risks associated with the implementation of the proposed action significant?	X	
3.	Will the proposed action support probable incompatible floodplain development?	X	
4.	Are there any significant impacts on natural and beneficial floodplain values?	X	
5.	Routine construction procedures are required to minimize impacts on the floodplain. Are there any special mitigation measures necessary to minimize impacts or restore and preserve natural and beneficial floodplain values? If yes, explain.	X	
6.	Does the proposed action constitute a significant floodplain encroachment as defined in 23 CFR, Section 650.105(q).	X	
7.	Are Location Hydraulic Studies that document the above answers on file? If not explain.		X

PREPARED BY:

Signature - Hydraulic Engineer — Date: 01/08/15

Signature - Environmental Branch Chief — Date

Signature - Project Engineer — Date

* Same as Figure 804.7B Floodplain Evaluation Report Summary located in Chapter 804 of the Highway Design Manual

INTRODUCTION

The California Environmental Quality Act (CEQA) Guidelines, Section 15097, requires public agencies, as part of the certification of an environmental impact report or mitigated negative declaration, to adopt a reporting and monitoring program to ensure that changes made to the project as conditions of project approval to mitigate or avoid significant environmental effects are implemented. The Mitigation Monitoring and Reporting Program (MMRP) contained herein is intended to satisfy the requirements of CEQA as they relate to the Laguna Creek Trail – South Camden Spur Project (Project) in the City of Elk Grove (City). The MMRP is intended to be used by City staff and mitigation monitoring personnel during implementation of the Project.

The MMRP will provide for monitoring of project activities as necessary, in-the-field identification and resolution of environmental concerns, and reporting to City staff. The MMRP will consist of the components described below.

COMPLIANCE CHECKLIST

Table 1 contains a compliance-monitoring checklist that identifies all newly adopted mitigation measures, identification of agencies responsible for enforcement and monitoring, and timing of implementation.

FIELD MONITORING OF MITIGATION MEASURE IMPLEMENTATION

During implementation of the Project, the City of Elk Grove's designated construction manager (CM) will be responsible for monitoring the implementation of mitigation measures. The CM will report to the City of Elk Grove Department of Public Works, and will be thoroughly familiar with all plans and requirements of the project. In addition, the CM will be familiar with construction contract requirements, construction schedules, standard construction practices, and mitigation techniques. Aided by Table 1, the CM will typically be responsible for the following activities:

1. On-site, day to day monitoring of project activities;

2. Reviewing construction plans to ensure conformance with adopted mitigation measures;

3. Ensuring contractor knowledge of and compliance with all appropriate conditions of project approval;

4. Evaluating the adequacy of construction impact mitigation measures, and proposing improvements (after consultation with appropriate environmental professionals) to the contractor and City staff;

5. Requiring correction of activities that violate project mitigation measures, or that represent unsafe or dangerous conditions. The CM shall have the ability and authority to secure compliance with these mitigation measures through the City of Elk Grove Public Works Department, if necessary;

6. Acting in the role of contact for property owners or any other affected persons who wish to register observations of violations of project mitigation measures, or unsafe or dangerous conditions. Upon receiving any complaints, the CM shall investigate and when appropriate direct the contractor to implement corrective measures. The CM shall be responsible for verifying any such observations and for developing any necessary corrective actions in

consultation with the appropriate environmental professionals and the City of Elk Grove Public Works Department;

7. Maintaining prompt and regular communication with City staff;

8. Obtaining assistance as necessary from technical experts, such as archaeologists and wildlife biologists, to develop site-specific procedures for implementing the mitigation measures adopted by the City for the Project; and

9. Maintaining a log of all significant interactions, violations of permit conditions or mitigation measures, and necessary corrective measures.

PLAN CHECK

Many mitigation measures will be monitored via plan check during Project implementation. City staff will be responsible for monitoring plan check mitigation measures.

MITIGATION MONITORING AND REPORTING PROGRAM

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
Initial Study Mitigation Measures:				
3.4.1	During Project development, the work area will be reduced to the smallest footprint feasible in sensitive habitat areas.	During Project development	City of Elk Grove Planning Department	
3.4.2	Work shall coincide with the driest time. If water is present at the time of construction, water shall be diverted around the work area and work shall resume after the site is dry. Work within the dewatered areas shall be timed with awareness of precipitation forecasts and likely increases in water flows and flood stages. Construction activities within jurisdictional features shall cease prior to storm events until all reasonable erosion control measures have been implemented. Construction equipment and material shall be removed from the floodplain if inundation is likely. Revegetation, restoration, and erosion control work shall not be confined to this time period.	During Project construction	City of Elk Grove Planning Department	
3.4.3	If work in the flowing portion of the creek/ditch is unavoidable, the entire flow shall be diverted around or through the work area during excavation and/or construction operations. Flows shall be diverted using gravity flow through temporary culverts/pipes or pumped around the work site with the use of hoses. When a temporary dam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream to maintain aquatic life below the dam pursuant to FGC Section 5937. Any temporary dam or other artificial obstruction constructed shall only be built from clean materials such as sandbags, gravel bags, water dams, or clean/washed gravel that will cause little or no siltation.	During Project excavation and construction	City of Elk Grove Planning Department	

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
3.4.4	Prior to initiation of construction activities within jurisdictional features, construction best management practices (BMPs) shall be employed on-site to prevent degradation to on-site and off-site waters of the US. Methods shall include the use of appropriate measures to intercept and capture sediment prior to entering jurisdictional features, as well as erosion control measures along the perimeter of all work areas to prevent the displacement of fill material. All BMPs shall be in place prior to initiation of any construction activities and shall remain until construction activities are completed. All erosion control methods shall be maintained until all on-site soils are stabilized.	Prior to start of construction within jurisdictional features	City of Elk Grove Planning Department	
3.4.5	Standard staging area practices for sediment-tracking reduction shall be implemented where necessary and may include vehicle washing and street sweeping.	During Project construction	City of Elk Grove Planning Department	
3.4.6	All exposed/disturbed areas and access points left barren of vegetation as a result of construction activities shall be restored using locally native grass seeds, locally native grass plugs, and/or a mix of quick-growing sterile nonnative grass with locally native grass seeds. Seeded areas shall be covered with broadcast straw and/or jute netted (monofilament erosion blankets are not permitted).	During Project construction	City of Elk Grove Planning Department	
3.4.7	For the approximate 0.015 acre of Laguna Creek and approximate 0.049 acre of Camden Lake permanently affected by the proposed Project, the City shall replace the affected acreage at a 1:1 ratio (i.e., 1 acre for every 1 acre of impact), or another approved ratio as determined by the USACE. Impacts shall be offset through the dedication of 0.064 shaded riverine aquatic mitigation credit(s) in a USACE-approved mitigation bank or through the payment of in-lieu fees to an approved conservation bank.	Prior to and during Project construction	City of Elk Grove Planning Department	

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
3.4.8	For the approximate 0.084 acre of man-made ditch permanently affected by the proposed Project, the City shall replace the affected acreage at a 1:1 ratio, or another approved ratio as determined by the USACE. Impacts may be offset through the restoration and relocation of the ditch within the Project area, through the dedication of mitigation credit(s) in a USACE-approved mitigation bank, or through the payment of in-lieu fees to an approved conservation bank.	Prior to and during Project construction	City of Elk Grove Planning Department	
3.4.9	Prior to any vegetation removal or ground-disturbing activities, focused surveys shall be conducted to determine whether special-status plants occur within the Project footprint and/or temporary construction zone. If no special-status plant species are found, the Project will not have any impacts to the species and no additional mitigation measures are necessary.	Prior to vegetation removal or ground-disturbing activities	City of Elk Grove Planning Department	
3.4.10	If special-status plant species are located within the Biological Study Area (BSA) but outside the Project footprint, the plants shall be avoided by installing protective fencing and by warning construction personnel of their presence.	During Project construction	City of Elk Grove Planning Department	
3.4.11	A Worker Environmental Awareness Program (WEAP) shall be implemented to educate construction workers about the presence of special-status species and sensitive biological resources in and/or near the Project work area and to instruct them on proper avoidance.	Prior to Project construction	City of Elk Grove Planning Department	

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
3.4.12	If any of the species are found on-site and cannot be avoided, the City shall consult with the USFWS and/or CDFW, as applicable, to determine appropriate mitigation for special-status plants, which may include but is not limited to the following conservation measures: • Salvage portions of the habitat or plant populations that will be lost as a result of implementation of the proposed Project. • Transplant the plants that would be adversely affected by the proposed Project for either reestablishment after construction is complete or for planting in a new area in appropriate habitat. • Develop a propagation program for the salvage and transfer of rare, threatened, or endangered plant populations from the Project site before the initiation of construction activities. Involve qualified biologists in the propagation and transport of rare, threatened, or endangered plant species. (Note: Propagation methods for the salvaged plant population must be developed on a case-by-case basis and must include the involvement of local conservation easements, preserves, and/or open space, where applicable). The propagation and transfer of individual plant species must be performed at the correct time of year and successfully be completed before the Project's construction activities eliminate or disturb the plants and habitats of concern.	Prior to Project construction	City of Elk Grove Planning Department	
3.4.13	Protective fencing will be installed between the vernal pool and the construction limits to prevent accidental disturbance and to protect water quality during construction.	Prior to Project construction	City of Elk Grove Planning Department	

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
3.4.14	A preconstruction survey for western pond turtle shall be conducted within 24 hours of the onset of construction activities adjacent to Laguna Creek and Camden Lake. The survey area shall include a 100-foot buffer of the area to be affected. If juvenile or adult turtles are found within the survey area, the individuals should be moved at least 500 feet downstream in suitable habitat. If a turtle nest is found within the survey area, construction activities shall not take place within 100 feet of the nest until the turtles have hatched or the eggs have been moved to an appropriate location.	Prior to Project construction	City of Elk Grove Planning Department	
3.4.15	If clearing and/or construction activities would occur during the raptor nesting season (January 15–August 15), preconstruction surveys to identify active nests shall be conducted by a qualified biologist within 14 days of construction initiation. Surveys must be performed by a qualified biologist for the purposes of determining presence/absence of active nest sites within the proposed impact area, including construction access routes and a 250-foot buffer (if feasible). If no active nests are found, no further mitigation is required. Surveys shall be repeated if construction activities are delayed or postponed for more than 30 days.	Prior to Project construction	City of Elk Grove Planning Department	
3.4.16	If an active nest (excluding western burrowing owl) is located during preconstruction surveys, construction activities shall be restricted as necessary to avoid disturbance of the nest until it is abandoned or a qualified biologist deems disturbance potential to be minimal. Restrictions may include establishment of exclusion zones (no ingress of personnel or equipment at a minimum radius of 30 meters (100 feet) around an active raptor nest and a 15-meter (50-foot) radius around an active migratory bird nest) or alteration of the construction schedule. Activities permitted within exclusion zones and the size may be adjusted through consultation with the CDFW and/or the City.	Prior to and during Project construction	City of Elk Grove Planning Department	

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
3.4.17	Trees containing active migratory bird and/or raptor (excluding Swainson's hawk) nests that must be removed as a result of Project implementation shall be removed during the non-breeding season (September 1–January 1). Swainson's hawks are State and federally listed as threatened species; therefore, impacts to Swainson's hawk nest trees require regulatory authorization from the CDFW prior to removal.	Prior to Project construction	City of Elk Grove Planning Department	
3.4.18	If no burrowing owls are detected, no further mitigation is required. If active burrowing owls are detected, the City shall implement the avoidance, minimization, and mitigation methodologies outlined in CDFW's (2012) Staff Report on Burrowing Owl Mitigation prior to initiating Project-related activities that may impact burrowing owls.	Prior to Project construction	City of Elk Grove Planning Department	
3.4.19	The City shall mitigate for the permanent loss of 0.616 acre of Swainson's hawk foraging habitat at a 1:1 ratio. Mitigation will be accomplished through the City of Elk Grove Swainson's Hawk Impact Mitigation Fee (Elk Grove Municipal Code Chapter 16.130).	Prior to Project construction	City of Elk Grove Planning Department	
3.4.20	Prior to the removal of any buildings or oak trees, a bat survey shall be performed by a qualified biologist between March 1 and July 31. If bat roosts are identified, the City shall require that the bats be safely flushed from the sites where roosting habitat is planned to be removed prior to roosting season (typically May to August) and prior to the onset of construction activities. If maternity roosts are identified during the maternity roosting season (typically May to September) they must remain undisturbed until a qualified biologist has determined the young bats are no longer roosting. If roosting is found to occur on-site, replacement roost habitat (e.g., bat boxes) shall be provided to offset roosting sites removed. If no bat roosts are detected, then no further action is required if the trees and buildings are removed prior to the next breeding	Prior to Project construction	City of Elk Grove Planning Department	

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
	season. If removal is delayed, an additional survey shall be conducted 30 days prior to removal to ensure that a new colony has not established itself.			
3.4.21	If a female or maternity colony of bats is found on the Project site, and the Project can be constructed without the elimination or disturbance of the roosting colony (e.g., if the colony roosts in a large oak tree not planned for removal), a qualified biologist shall determine what buffer zones shall be employed to ensure the continued success of the colony. Such buffer zones may include a construction-free barrier of 200 feet from the roost and/or the timing of the construction activities outside of the maternity roost season (after July 31 and before March 1).	Prior to and during Project construction	City of Elk Grove Planning Department	
3.4.22	If an active nursery roost is documented on-site and the Project cannot be conducted outside of the maternity roosting season, bats shall be excluded from the site after July 31 and before March 1 to prevent the formation of maternity colonies. Non-breeding bats shall be safely evicted under the direction of a bat specialist.	Prior to and during Project construction	City of Elk Grove Planning Department	
3.4.23	If a giant garter snake is encountered in the project work area, construction will cease until the snake has been allowed to move away under its own volition.	Prior to and during Project construction	City of Elk Grove Planning Department	
3.4.24	Tightly woven erosion control matting (mesh size less than 0.25 inch) or similar material shall be used for erosion control and other purposes at the Project site to ensure that snakes are not trapped or entangled by the erosion control material. The edge of the material shall be buried in the ground to prevent snakes from crawling underneath the material. The use of plastic, monofilament, jute, or similar erosion control netting with mesh sizes larger than 0.25 inch that could entangle snakes will be prohibited.	Prior to and during Project construction	City of Elk Grove Planning Department	

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
3.4.25	A survey shall be conducted for the snake within the Project work area 24 hours prior to the onset of construction and any time activities are halted for more than two weeks thereafter.	Prior to and during Project construction	City of Elk Grove Planning Department	
3.5.1	In accordance with California Public Resources Code Section 5097.5, which prohibits knowing and willful excavation of undiscovered cultural resources without permission from the appropriate public agency with jurisdiction over the lands, and in order to mitigate for the potential discovery of archaeological or paleontological resources, the following measure will be implemented during construction and included in the construction contract: If buried archaeological and/or paleontological resources, such as chipped or ground stone, historic debris, building foundations, human bone, or fossils, are inadvertently discovered during ground-disturbing activities, work will stop in that area and within 100 feet of the find until a qualified archaeologist can assess the significance of the find and, if necessary, develop appropriate treatment measures in consultation with the City and all other appropriate agencies.	Throughout Project construction	City of Elk Grove Planning Department	

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
3.5.2	In order to mitigate for the potential discovery or disturbance of any human remains, the protocol of California Health and Safety Code Section 7050.5(b) will be adhered to as follows: In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) or Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner, and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code. If the remains are determined to be Native American, City policy dictates that the procedures outlined in CEQA Section 15064.5(d) and (e) be followed.	Throughout Project construction	City of Elk Grove Planning Department	
3.8.1	If impacted soil (as evidenced by staining and/or odors) is encountered during construction activities, the Caltrans Unknown Hazard Procedures shall be implemented during construction activities. The resident engineer overseeing construction shall have available field monitoring equipment (e.g., PID) to facilitate timely detection of potentially hazardous conditions in the field.	During Project construction	City of Elk Grove Planning Department	

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3.8.2	If groundwater is encountered during construction/excavation activities and dewatering becomes necessary, regulatory compliance and permitting consistent with the Central Valley Regional Water Quality Control Board and National Pollutant Discharge Elimination System requirements shall be adhered to, and groundwater sampling shall be conducted.	During Project construction	City of Elk Grove Planning Department	
3.9.1	Any dewatering activities during construction would be in compliance with applicable National Pollutant Discharge Elimination System (NPDES) permits and other water quality regulations. Construction best management practices (BMPs) would be implemented for the Project in adherence with all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. A stormwater pollution prevention plan (SWPPP) may or may not be required for the Project, depending on the area of disturbance. Specific BMPs to be used during construction would be identified as Project design advances and finalized with the approved SWPPP; however, these measures would be designed to accommodate drainage requirements and avoid on- and off-site flooding. If an SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. With implementation of BMPs required for the NPDES Construction General Permit and other applicable water quality regulations (joint NPDES permit for MS4s [NPDES No. CAS082597]), effects from short-term flooding during Project construction would be negligible.	During Project construction	City of Elk Grove Planning Department	
3.9.2	Construction BMPs will be implemented for the Project in adherence with all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. An SWPPP may or may not be required for the Project, depending on the area of disturbance. If the Project does require an SWPPP, it will require the contractor to identify the location of the designated staging	During Project	City of Elk Grove	

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
	areas; include specific requirements for equipment fueling, maintenance, and storage processes; and include stormwater BMPs to prevent the release of polluted stormwater into adjacent waterways. If an SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. With adherence to the NPDES requirements and implementation of applicable BMPs, short-term impacts to water quality related to materials discharge will be adequately controlled during construction.	construction	Planning Department	
3.9.3	BMPs will be implemented for the Project in adherence with all applicable NPDES requirements and other water quality regulations to minimize impacts to water quality. Specific BMPs to be used during construction would be identified as Project design advances and finalized in the approved Project SWPPP based on the risk level determined under the NPDES General Construction Permit guidelines, such as stabilized construction entrances and exits, sandbag barriers, gravel bag berms, and fiber rolls to control increased erosion and sedimentation and to prevent construction site runoff from entering adjacent waterways. If an SWPPP is not required for the Project, equivalent water pollution control practices will be implemented. The General Construction Permit lists the following requirements for Risk Level 2, the most likely risk level for the proposed Project, for minimizing sediment, erosion, and water quality impacts: • Good site "housekeeping" • Sediment controls • Run-on and runoff controls • Inspection, maintenance, and repair of BMPs • Numeric action levels – Turbidity: 250 Nephelometric Turbidity Units – pH: 6.5–8.5	During Project construction	City of Elk Grove Planning Department	

MM Number	Mitigation Measure	Timing/ Implementation	Enforcement/ Monitoring	Verification (date and Signature)
	• Rain event action plan • Effluent monitoring As part of the NPDES requirements, the contractor will be required to identify and implement BMPs that would ensure no debris or other pollutants from the construction of the multi-use trail and combined bridge/weir crossing structure. Appropriate BMPs would also be incorporated into Project plans to protect worker safety, and applicable hazardous materials regulations pertaining to collection, testing, and disposal of contaminated groundwater would be followed.			
3.9.4	Treatment BMPs will be implemented as required by NPDES permits to remove pollutants from runoff water. Specific BMPs would be identified as Project design advances and would be identified in final design plans. With implementation of BMPs required by NPDES permits, and with adherence to other applicable water quality regulations, pollutant levels in stormwater runoff would not be expected to exceed applicable water quality standards.	During Project construction	City of Elk Grove Planning Department	
3.12.1	Noise-generating construction operations shall be limited to between the hours of 7 a.m. and 7 p.m. in accordance with the Elk Grove General Plan Noise Policy NO-3-Action-1.	During Project construction	City of Elk Grove Planning Department	
3.12.2	Construction equipment and equipment staging areas shall be located at the farthest distance possible from adjacent sensitive land uses.	During Project construction	City of Elk Grove Planning Department	
3.12.3	Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturer recommendations. Equipment engine shrouds shall be closed during equipment operation.	During Project construction	City of Elk Grove Planning Department	

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3.12.4	When not in use, motorized construction equipment shall not be left idling.	During Project construction	City of Elk Grove Planning Department	