City of Escondido Channel Maintenance Activities

Draft Supplemental Mitigated Negative Declaration

Case No. ENV 20-0004 State Clearinghouse No. 2012121063 (Previous Case File No. ENV 12-0001)

Prepared for:



Environmental Programs Division 201 North Broadway Escondido, CA 92025 Contact: Alicia Appel (760) 839-6315

Prepared by:

ICF 525 B Street, Suite 1700 San Diego, CA 92101 Contact: Tanya Jones

October 2020



CITY OF ESCONDIDO PLANNING DIVISION 201 NORTH BROADWAY ESCONDIDO, CA 92025-2798 (760) 839-4671

NOTICE OF INTENT TO ADOPT A SUPPLEMENTAL MITIGATED NEGATIVE DECLARATION

CASE NO.: ENV 20-0004 Channel Maintenance Activities "RGP 94 – Channel Maintenance Program Implementation and Renewal Project"

SCH NO.: 2012121063 (Original Number)

DATE ISSUED: October 26, 2020

PUBLIC REVIEW PERIOD: October 29, 2020 – November 30, 2020

LOCATION: The proposed project would occur at 87 Channel Maintenance Sites throughout the City of Escondido, California in the Carlsbad and San Dieguito watersheds.

PROJECT DESCRIPTION: The City has ongoing needs to effectively perform routine operations and maintenance (O&M) activities for flood control, the management of sediment deposition, and to avoid potential vector control issues at 87 storm water facilities (constructed and natural) at various locations throughout the city. A final Initial Study/Mitigated Negative Declaration (IS/MND) was adopted for the 2013 Channel Maintenance Activities (City File No. ENV 12-0001), and an addendum to the Final IS/MND was prepared and adopted in 2014. The current Channel Maintenance Activities Project RGP 94 expired in May 2020. The project involves extending the existing Regional General Permit (RGP) 94 for the City of Escondido Channel Maintenance Activities project and amending this permit to add an additional 24 facility locations, expand a current facility location (already included in the RGP), as well as include additional work activities. The amended permit would allow the City of Escondido to conduct operations and maintenance activities to occur at a total of 87 existing concrete and earthen storm water facilities/sites (24 new maintenance sites and 63 previously approved maintenance sites that are currently authorized). The proposed project would establish routine maintenance activities to be performed at all facility locations, compensatory mitigation requirements, and general reporting requirements. The goals of the proposed project are to maintain facility locations for long-term sustainability and public safety. Facilities requiring maintenance are located on privately owned parcels or on City easements or rights-of-way. Access to structures for O&M activities generally would be provided from the nearest public roadway.

APPLICANT: City of Escondido, Alicia Appel (760) 839-6315 or aappel@escondido.org

An Initial Study has been prepared to assess this project as required by the California Environmental Quality Act (CEQA) and Guidelines, Ordinances and Regulations of the City of Escondido. The Initial Study and Draft Supplemental Mitigated Negative Declaration (IS/MND) are on file in the City of Escondido Planning Division and can be viewed on the City of Escondido web site (*Active Development Projects*) at: https://www.escondido.org/channel-maintenance-activities.aspx. Further information may be obtained by contacting the Planning Division, Jay Paul, telephone (760) 839-4537 or email at jpaul@escondido.org.

FINDINGS: The findings of this review are that the Initial Study identified effects related to biological resources, cultural/tribal cultural resources, and hydrology and water quality that might be potentially significant. Design and minimization measures, revisions in the project plans, and/or mitigation measures agreed to by the applicant would provide mitigation to a point where potential impacts are reduced to a less than significant level. A Zoning Administrator meeting to adopt the final IS/MND has not yet been scheduled. The Zoning Administrator notices and agendas, along with corresponding staff reports are posted on the City's web site at least 72 hours prior to the hearing date, and are available at: https://www.escondido.org/zoning-administrator.aspx.

Mike Strong, Director of Community Development

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ACRONYMS AND ABBREVIATIONS

AB Assembly Bill

APE Area of Potential Effect
BMPs best management practices

CalEEMod California Emissions Estimator Model

CAGN coastal California gnatcatcher
CARB California Air Resources Board

CDFW California Department of Fish and Wildlife
CEQA California Environmental Quality Act
CESA California Endangered Species Act
CFGC California Fish and Game Code

CH₄ methane

City City of Escondido

CNDDB California Natural Diversity Database
CNPS California Native Plant Society

CO carbon monoxide CO₂ carbon dioxide

CO₂e carbon dioxide equivalent

CRHR California Register of Historical Resources

CWA Clean Water Act

dB decibel

dBA A-weighted decibels
DPM diesel particulate matter
EDI Escondido Disposal, Inc.
ESA Endangered Species Act

GHGs greenhouse gases

GIS Geographic Information Systems

HAs Hydrologic Areas

HMP Habitat Management Plan

HUS Hydrologic Units IS initial study LBVI least Bell's vireo

LUST Leaking Underground Storage Tank

MBTA Migratory Bird Treaty Act

MHCP Multiple Habitat Conservation Program

MND mitigated negative declaration
MSCP Multiple Species Conservation Plan

 $\begin{array}{ll} \text{MT} & \text{metric tons} \\ \text{N}_2\text{O} & \text{nitrous oxide} \end{array}$

NAHC Native American Heritage Commission
NHPA National Historic Preservation Act
NMFS National Marine Fisheries Service

NO_X nitrogen oxides

NRCS Natural Resource Conservation Service
NRHP National Register of Historic Places

NWI National Wetlands Inventory

 O_3 ozone

O&M operations and maintenance
OHWM Ordinary High Water Mark

PM10 particulate matter less than 10 microns
PM2.5 particulate matter less than 2.5 microns
PPV in/sec peak particle velocity in inches per second

PRC Public Resources Code
RAQS Regional Air Quality Strategy
RGP existing Regional General Permit

ROG reactive organic gases

RWQCB Regional Water Quality Control Board SANDAG San Diego Association of Governments

SB Senate Bill

SCAQMD South Coast Air Quality Management District

SCIC South Coastal Information Center

SDAB San Diego Air Basin

SDAPCD San Diego Air Pollution Control District
SHPO State Historic Preservation Officer

SO₂ sulfur dioxide

TAC toxic air contaminants

USACE U.S. Army Corps of Engineers

USEPA U.S. Environmental Protection Agency

USFWS U.S. Fish and Wildlife Service

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INITIAL STUDY

1. Project Title	Channel Maintenance Activities – RGP 94 – Channel Maintenance Program Implementation & Renewal Project
2. Lead Agency Name and Address	City of Escondido Environmental Programs Division 201 N. Broadway Escondido, CA 92025
3. Contact Persons and Phone Numbers	Alicia Appel, Environmental Programs Manager (760) 839-6315 201 North Broadway Escondido, CA 92025-2798
4. Project Location:	City of Escondido, San Diego County, CA
5. Project Sponsor's Name and Address	City of Escondido Alicia Appel, Environmental Programs Manager, (760) 839-6315 Elisa Marrone, AICP, Environmental Programs Specialist, (760) 839-4075 201 North Broadway, Escondido, CA 92025-2798
6. General Plan Designation	Multiple citywide - Please refer to the attached project description.
7. Zoning	Multiple citywide - Please refer to the attached project description.

8. Description of Project: Flood Control Channel Maintenance Program Activities Implementation and Renewal Project to include ongoing maintenance of 63 sites/facilities and the addition of 24 flood control sites/facilities for a total of 87 sites. Please refer to the attached project description.

9.Surrounding Land Uses and Setting: Varies citywide - Please refer to the attached project description.

10. Other Public Agencies Whose Approval is Required:

U.S. Army Corps of Engineers – Regional General Permit

U.S. Fish and Wildlife Service - Section 7 Informal Consultation

Regional Water Quality Control Board – 401 Water Quality Certification

California Department of Fish and Game – Streambed Alteration Agreement

11. Tribal Consultation. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, has this consultation begun?

Four Native American tribes (Rincon, San Luis Rey, Soboba and Mesa Grande) were mailed notification regarding the proposed project in conformance with Assembly Bill 52. The Rincon and San Luis Rey tribes responded requesting formal consultation. Formal consultation was conducted with representatives from Rincon and San Luis Rey on June 17, 2020.

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SECTION 1. INTRODUCTION AND OVERVIEW

I. OVERVIEW

The City of Escondido (City), as the lead agency under the California Environmental Quality Act (CEQA), has prepared this Supplemental Initial Study (IS) and Mitigated Negative Declaration (MND) to evaluate the potential environmental effects associated with the proposed renewal of the existing Regional General Permit (RGP) 94 for the City of Escondido Channel Maintenance Activities Project and an amendment to this permit to add an additional 24 facility locations, expand a current facility location (already included in the RGP), and perform additional work activities. The current Channel Maintenance Activities Project RGP 94 expires in May 2020.

This section includes a brief overview of the requirements pursuant to CEQA, proposed project's previous environmental documentation, the scope of the environmental analysis, and the document's organizational structure and content.

II. REQUIREMENTS AND PURPOSE OF AN INITIAL STUDY/MITIGATED NEGATIVE DELCARATION

The preparation of an IS/MND is governed by two principal sets of laws: CEQA Statute (Public Resources Code [PRC] §21000 et seq.) and the State CEQA Guidelines (California Code of Regulations §15000 et seq.). Specifically, State CEQA Guidelines Section 15063 ("Initial Study") and Sections 15070–15075 ("Negative Declaration Process") guide the process for the preparation of an IS/MND. Where appropriate and supportive to an understanding of the issues, reference is made either to the statute, the State CEQA Guidelines, or appropriate case law.

This Supplemental IS/MND, as required by State CEQA Guidelines Section 15071, contains (1) a brief description of the proposed project, (2) the proposed project location, (3) a proposed finding that the proposed project will not have a significant effect on the environment, (4) a copy of the IS documenting support for the findings, and (5) all mitigation measures to be implemented.

III. BACKGROUND AND PREVIOUS ENVIRONMENTAL DOCUMENTATION

The City owns and operates a Municipal Separate Storm Sewer System (MS4) infrastructure that includes various facilities associated with flood control and drainage throughout Escondido, San Diego County, California. Pursuant to the City's Mobility and Infrastructure Element of the General Plan update (2012), Storm Drain Policy 14.11 requires that the City "maintain flood control channels and storm drains through periodic dredging, repair, desilting and clearing to prevent losses in effective use." As identified in this Policy, the City has ongoing needs to effectively perform routine operations and maintenance (O&M) activities for flood control and the management of sediment deposition on 63 facilities (constructed and natural) at various locations throughout the city. A final Initial Study/Mitigated Negative Declaration was adopted for the 2013 Channel Maintenance Activities (City File No. ENV 12-0001; City of Escondido 2013), herein referred to as the 2013 MND ENV 12-0001. An addendum to the Final IS/MND was prepared and adopted (City of Escondido

2014), herein referred to as the 2014 Addendum ENV 12-0001. The 2013 MND and 2014 Addendum can be viewed at: http://www.escondido.org/active-projects.aspx.

Since that time, the City has identified 24 additional facility locations, the need to expand a current facility location (already included in the RPG 94 permits), and additional work activities. Work activities include the excavation of accumulated sediment and herbaceous vegetation within concrete channels and earthen streams/creeks, excavation and clearing of culvert inlets and outlets within a specified radius, removal of nonnative trees within specified facility locations, the trimming of native shrub and tree cover that inhibit positive flow and create debris jams, and the excavation of accumulated sediment and vegetation within a specified basin. Additional work activities would include one-time native tree removal to gain access and/or allow positive flows to occur at specific facility locations and the repairs of existing hardscaped facilities. The project also includes minor repairs to segments of concrete-lined channels or riprap-lined segments that will not result in the modification of the character, size, or scope of the original fill design. Additionally, these repairs will be limited to either current or new RGP sites. Lastly, to mitigate for the functional loss of habitat within jurisdictional waters associated with this additional work as well as leave a surplus that will be available for future RGP 94 renewals and future public works projects, the City is also proposing to rehabilitate and enhance a 10.93-acre mitigation site located within Kit Carson Park.

Due to changes to the project and the extended period of time that has passed between adoption of the 2013 MND ENV 12-0001 and the 2014 Addendum ENV 12-0001, the City has prepared this Supplemental IS/MND to evaluate the potential impacts that would occur as a result of the inclusion of 24 more facility locations, expansion of a current facility location, and proposed additional work activities.

2013 MND ENV 12-0001

The City's 2013 MND ENV 12-0001 (State Clearinghouse No. 2012121063) evaluated the impacts from routine O&M activities for flood control and the management of sediment deposition on approximately 76 acres of land among 63 flood control and storm drainage facilities (constructed and natural) throughout Escondido.

The environmental analysis identified several mitigation measures to address and mitigate potentially significant impacts related to appropriate permits from various agencies that were required to perform the necessary work, along with appropriate mitigation for impacts on sensitive resources/habitat areas. The RGP program consolidates all required environmental permits from applicable resource agencies into one application for a five-year period. Overall, the RGP is the City's five-year plan for maintenance and protection of environmental resources for each site and provides the foundation for the City's multi-agency permit application project. The frequency with which maintenance activities would be conducted is site-specific and varies by structure and location. The Final MND was adopted by City Council on March 13, 2013 (Resolution No. 2013-24) and a Notice of Determination (NOD) filed with the San Diego County Clerk/Recorder and State Clearinghouse.

2014 Addendum ENV 12-0001

In 2014, the City's Public Works Department identified that trees in certain areas and in limited circumstances, would need to be trimmed between a 7- and 13-foot height in order to accommodate certain mechanical equipment. Therefore, an Addendum was prepared to refine a Biological Resources Mitigation Measure (BIO-15) to accommodate appropriate access and working area, as

well as to refine language regarding trimming/pruning of mature trees with language that more accurately represents the intended purpose of the measure, which is to maintain the overall health and appearance of native mature trees.

2015 Lake and Streambed Alteration Agreement

The California Department of Fish and Wildlife (CDFW) filed a Notice of Determination with the State Clearinghouse in August 2015 to execute a Lake and Streambed Alteration Agreement, pursuant to Section 1602 of the California Fish and Game Code (CFGC) (#1600-2013-0066-R5). Covered project activities included dredging and excavating concrete and earthen channels and basins, clearing culverts and associated inlet and outlet structures, clearing and trimming vegetation, and clearing and grading access roads. Various methods and types of equipment were identified for use, including manual hand tools, mechanical hand tools, a grader, backhoe, excavator, skid steer, and front-end loader. Project activities affected 74.24 acres of stream habitat, which, at the time of notification submittal, consisted of 0.81 acre of Tier 1 resources (native habitats growing within earthen facilities or non-serviceable concrete facilities), 0.59 acre of Tier II resources (nonnative habitats and unvegetated areas occurring within earthen facilities or non-serviceable concrete facilities), 1.10 acre of Tier III resources (vegetated areas occurring within serviceable concrete facilities). Serviceable concrete facilities are those that have intact concrete linings and do not support mature native trees or shrubs.

Previous Environmental Documents Incorporated by Reference

In accordance with Section 15150 of the State CEQA Guidelines, the City's 2013 MND ENV 12-0001 and 2014 Addendum ENV 12-0001 are hereby incorporated by reference into this Supplemental IS/MND where referenced specially and are available for public review at the City of Escondido Planning Department at 201 N Broadway, Escondido, California 92025.

IV. REQUIREMENTS AND PURPOSE FOR SUPPLEMENTAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

Pursuant to Section 15162(a) of the State CEQA Guidelines, when a pervious environmental document has been adopted/certified, no subsequent environmental document may be required for a project unless the City determines, on the basis of substantial evidence, that one or more of the following conditions are met:

- (1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- (2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- (3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:

- (A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;
- (B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;
- (C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
- (D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

According to the State CEQA Guidelines (Section 15163), the Lead Agency may choose to prepare a supplement to an environmental document rather than a subsequent environmental document if:

- Any of the conditions described in State CEQA Guidelines Section 15162 would require the preparation of a subsequent environmental document, and
- Only minor additions or changes would be necessary to make the previous environmental document adequately apply to the project in the changed situation.

Based on the requirements above, the City has determined that a Supplemental IS/MND is the most appropriate environmental document due to the changes to the project and the extended period of time that has passed between certification/adoption of both the 2013 MND and the 2014 Addendum.

In addition, the supplemental document need contain only the information necessary to make the previous environmental document adequate for the project as revised. A supplemental document shall also be given the same kind of notice and public review as is given to the original document, and the supplemental document may be circulated by itself without recirculating the previous draft or final document. When the agency decides whether to approve the project, the decision-making body shall consider the previous environmental document as revised by the supplemental document.

Pursuant to Section 15367 of the State CEQA Guidelines, the City is the lead agency for the proposed project. The lead agency is the public agency that has the principal responsibility for carrying out or approving a project. The City, as the lead agency, will have the authority for project approval and adoption of the accompanying environmental documentation.

Based on the environmental checklist form prepared for the proposed project and the supporting environmental analysis, the proposed project would have no impact or a less-than-significant impact on the following topical environmental areas: aesthetics, agricultural and forestry resources, air quality, energy, geology and soils, greenhouse gas emissions, hazards and hazardous materials, land use and planning, mineral resources, noise, population and house, public services, recreation, transportation, utilities, and wildfire.

The proposed project has the potential to have new or more severe impacts than those analyzed under the City's 2013 MND ENV 12-001 and 2014 Addendum ENV 12-0001 unless the recommended mitigation measures are incorporated into the proposed project in the following environmental areas: biological resources, cultural resources, hydrology and water quality, and tribal cultural resources.

According to the State CEQA Guidelines (Section 15163), it is appropriate to prepare a Supplemental IS/MND for the proposed project because only minor additions or changes would be necessary to make the previous IS/MND adequate to address impacts associated with the proposed project.

v. ENVIRONMENTAL ISSUES ADDRESSED

This Supplemental IS/MND evaluates the proposed project's effects on the following resource topics.

- Aesthetics
- Biological Resources
- Geology and Soils
- Hydrology and Water Quality
- Noise
- Recreation
- Utilities and Service Systems

- Agriculture and Forestry Resources
- Cultural Resources
- · Greenhouse Gas Emissions
- Land Use and Planning
- Population and Housing
- Transportation
- Wildfire

- Air Quality
- Energy
- Hazards and Hazardous Materials
- Mineral Resources
- Public Services
- Tribal Cultural Resources
- Mandatory Findings of Significance

The environmental setting and impact analysis discussion for each of these topics is provided in Section 3, *Environmental Checklist*, of this document.

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SECTION 2. PROJECT DESCRIPTION

I. BACKGROUND

As the current Channel Maintenance Activities Project RGP 94 permit expired in May 2020, the City is requesting the renewal of the existing RGP 94 permit and amendment of this permit to add an additional 24 facility locations, expand a current facility location (already included in the RGP), as well as include additional work activities. The renewed permit would allow the City to conduct O&M activities at 87 existing concrete and earthen storm water facilities.

The O&M activities performed at the 63 facilities under the current RGP would remain the same (with the expansion of one site). See Appendix A for a description of the maintenance activities for the current RGP facilities.

II. PROJECT OBJECTIVES

The goals and objectives of the proposed project are to maintain facility locations for long-term flood control, public safety, and protection of water quality. The proposed project establishes routine maintenance activities to be performed at all facility locations, compensatory mitigation requirements, and general reporting requirements. The City is responsible for maintaining the existing facility locations to ensure adequate flood control capacity and avoid potential vector control issues.

The City is proposing the minimum maintenance footprints necessary to ensure that the existing facility locations function as originally designed, as well as maintain positive hydraulic flow.

III. OPERATIONS AND MAINTENANCE ACTIVITIES

As stated above, the City is proposing to conduct O&M activities at 24 new maintenance sites and 63 previously approved maintenance sites that are currently authorized by the 2015 RGP 94. Figures 2-1 and 2-2 depict the regional location and project vicinity as well as the 63 facilities covered under the current RGP 94 and the 24 newly proposed facilities. Table 2-1 summarizes the location, maintenance activities to be implemented, and features of the 24 new sites. Figure 2-3 shows the location of each new site. The types of facilities that would be added as new facilities under RGP 94 are listed below and include:

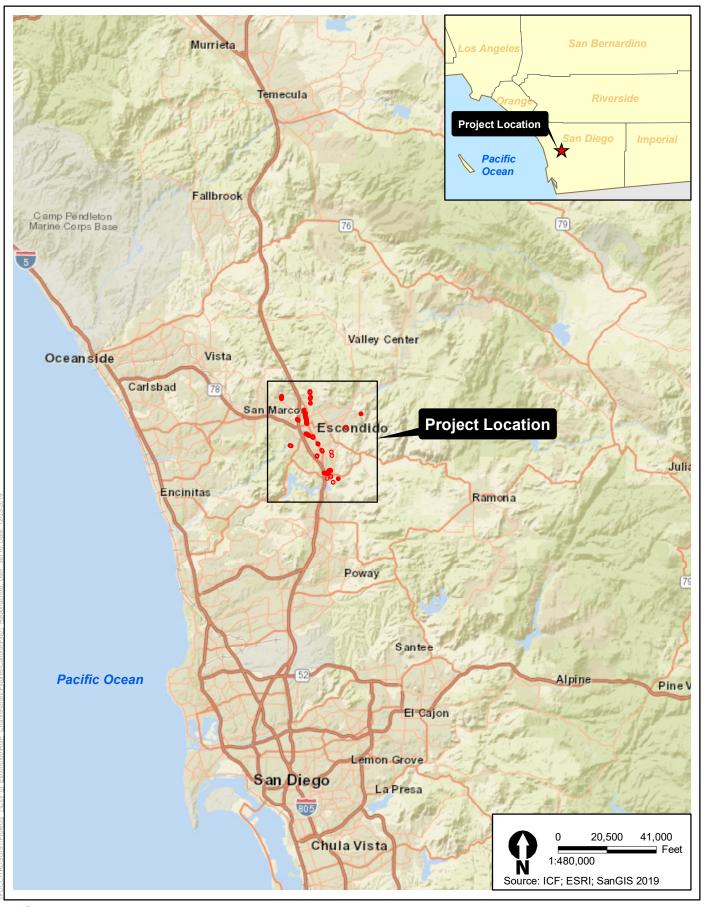
- Earthen streams/creeks and storm water channels with hydrologic regimes ranging from ephemeral to perennial;
- Concrete bottom channels with hydrologic regimes of ephemeral and intermittent;
- · Culverts and their associated inlets and outlets; and
- A storm water basin.

The following work activities would be conducted at the facility locations:

- Accumulated sediment and herbaceous vegetation within concrete channels and earthen streams/creeks will be excavated to allow for positive flow;
- Culvert inlets and outlets will be excavated and cleared within a specified radius;
- Nonnative trees will be removed within specified facility locations;
- One-time native tree removal to gain access and/or allow for positive flows will occur at specific facility locations (either cut at stump, leaving root in place or root and all removal depending on its location);
- Native shrub and tree cover that inhibit positive flow and create debris jams will be trimmed; and
- Accumulated sediment and vegetation within a basin will be excavated.

Facilities requiring maintenance are located on privately owned parcels or on City easements or rights-of-way (Figure 2-3). All work done on private land would be completed with appropriate permission from the landowners. Access to structures for O&M activities would typically be from the nearest public roadway. Most sites would be accessed without impacting the surrounding areas, which would include either development (i.e., private homeowner landscaping) or disturbed habitat. One site (E-58 Reidy Creek Golf Course) will require access points through upland native habitat as shown on Figure 2-3, Sheets 20 and 21. All O&M activities would be completed during normal business hours (7:30 a.m. to 6:00 p.m.), Monday through Friday.

To mitigate for the functional loss of habitat within jurisdictional waters associated with this additional work as well as leave a surplus that will be available for future RGP 94 renewals and future public works projects, the City is also proposing to rehabilitate and enhance a 10.93-acre mitigation site located within Kit Carson Park.





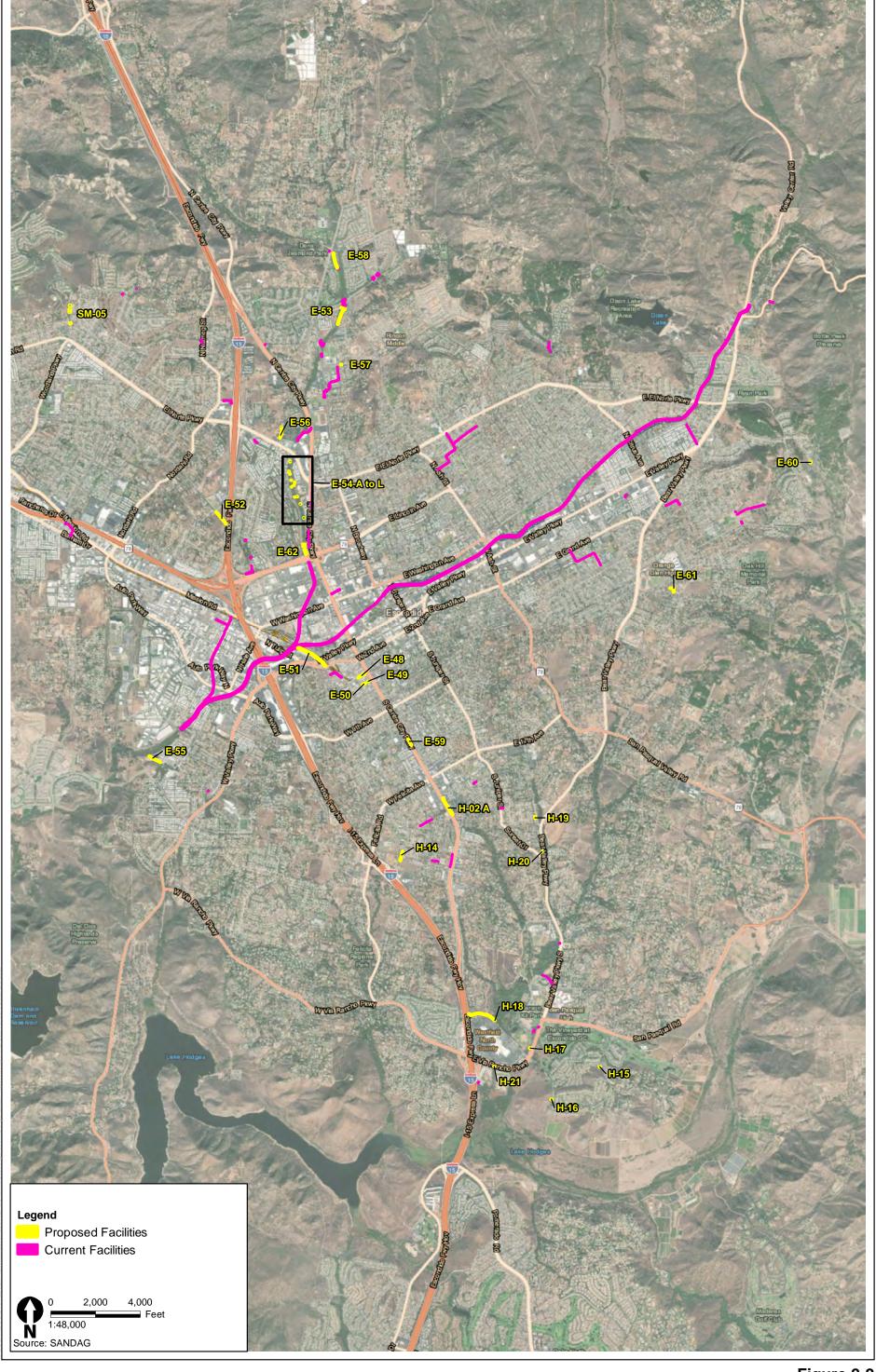


Figure 2-2 Project Vicinity Escondido RGP 94 Channel Maintenance Project

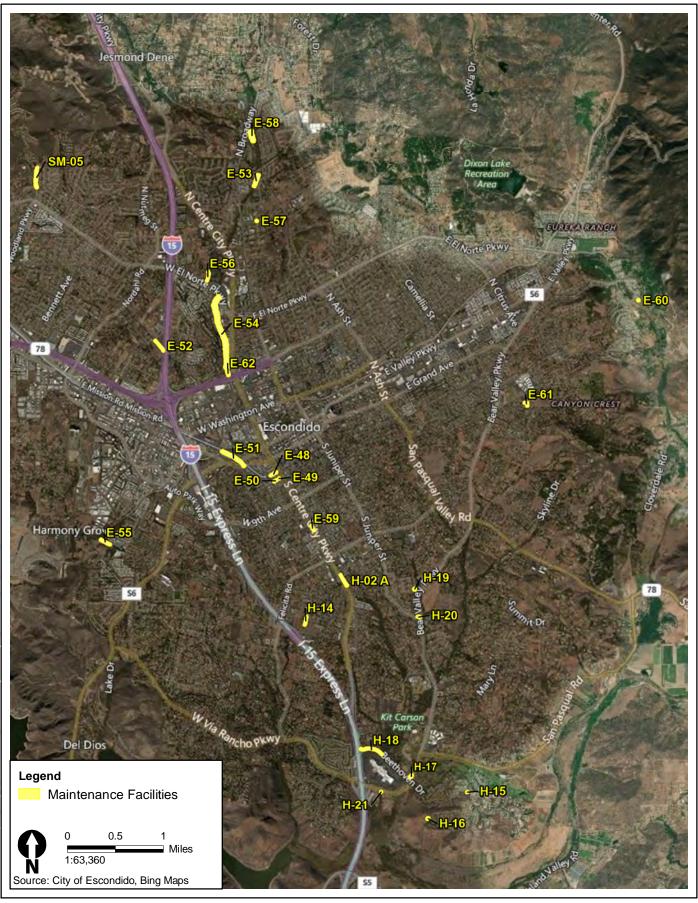
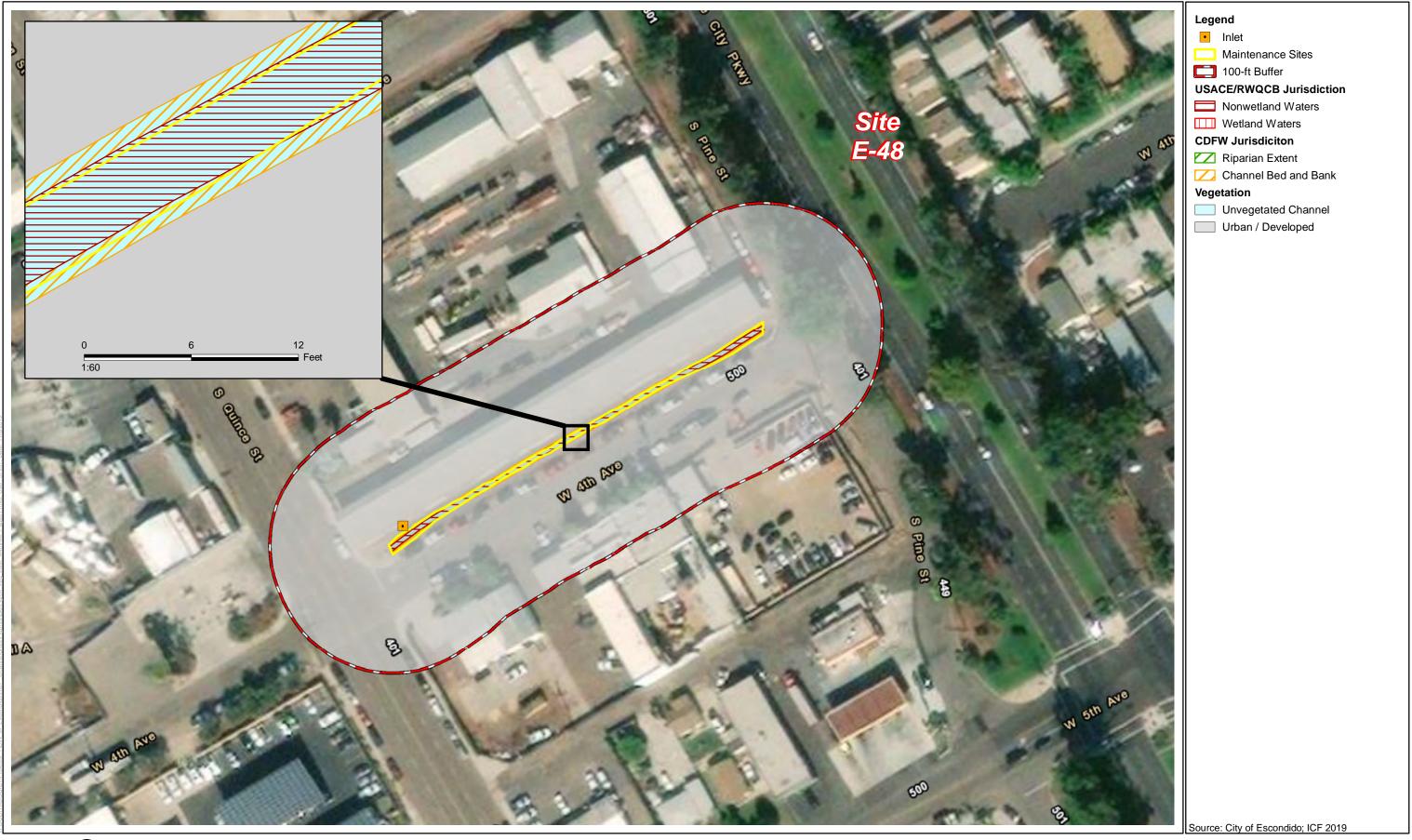




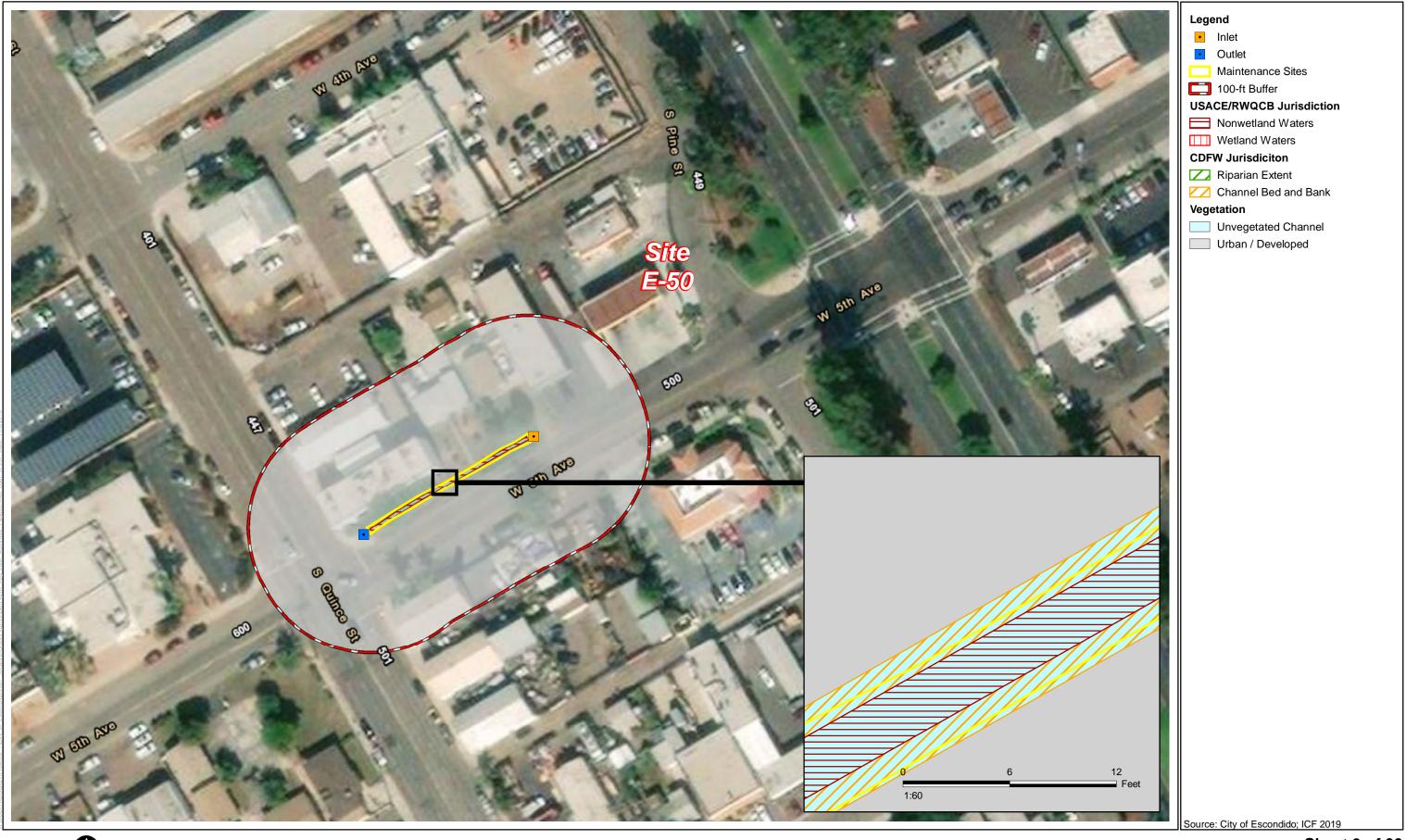
Figure 2-3
Project Overview
Escondido RGP 94 Channel Maintenance Project













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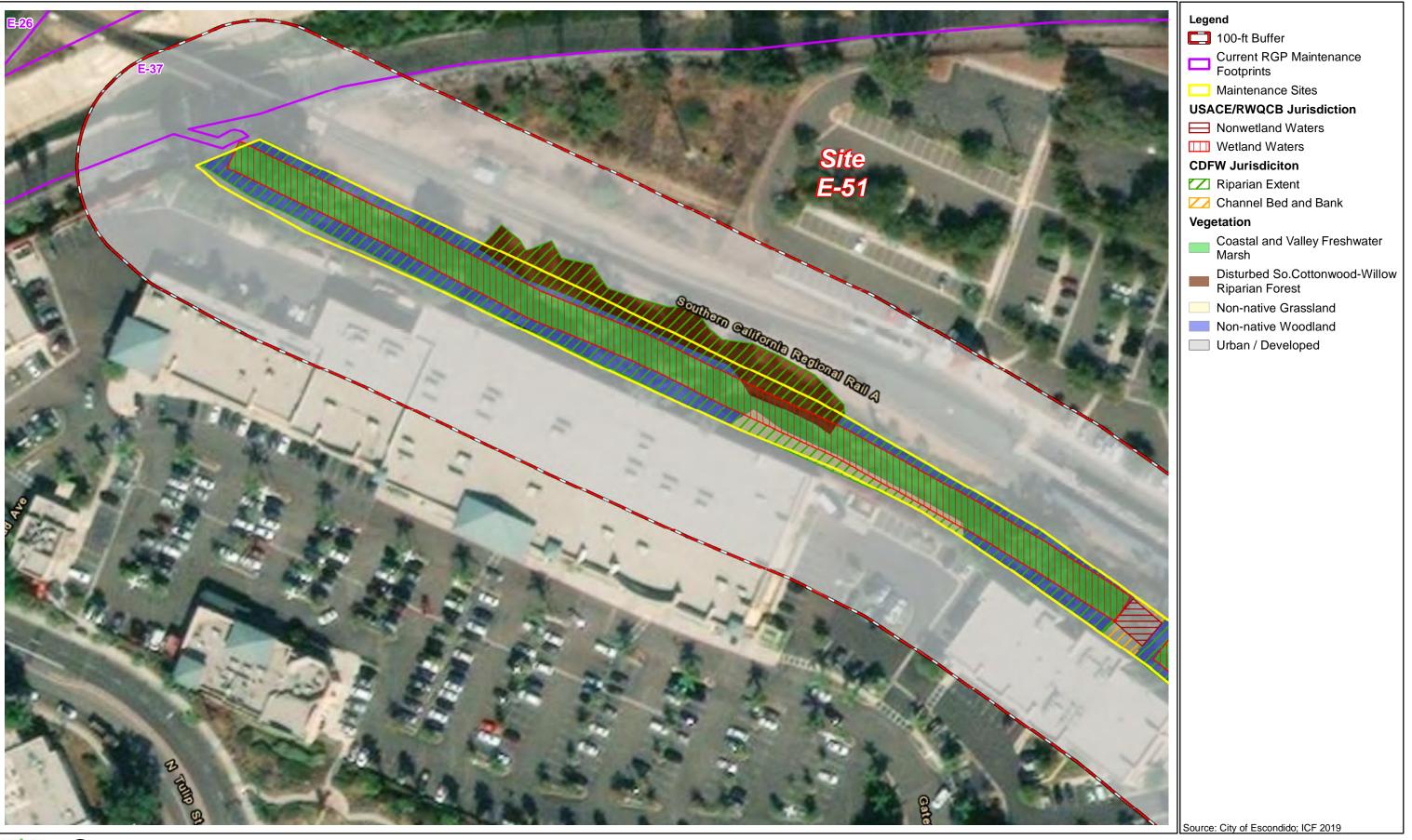




Legend

100-ft Buffer

Overview E-51 800 W Valley **Escondido RGP 94 Channel Maintenance Project**



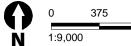






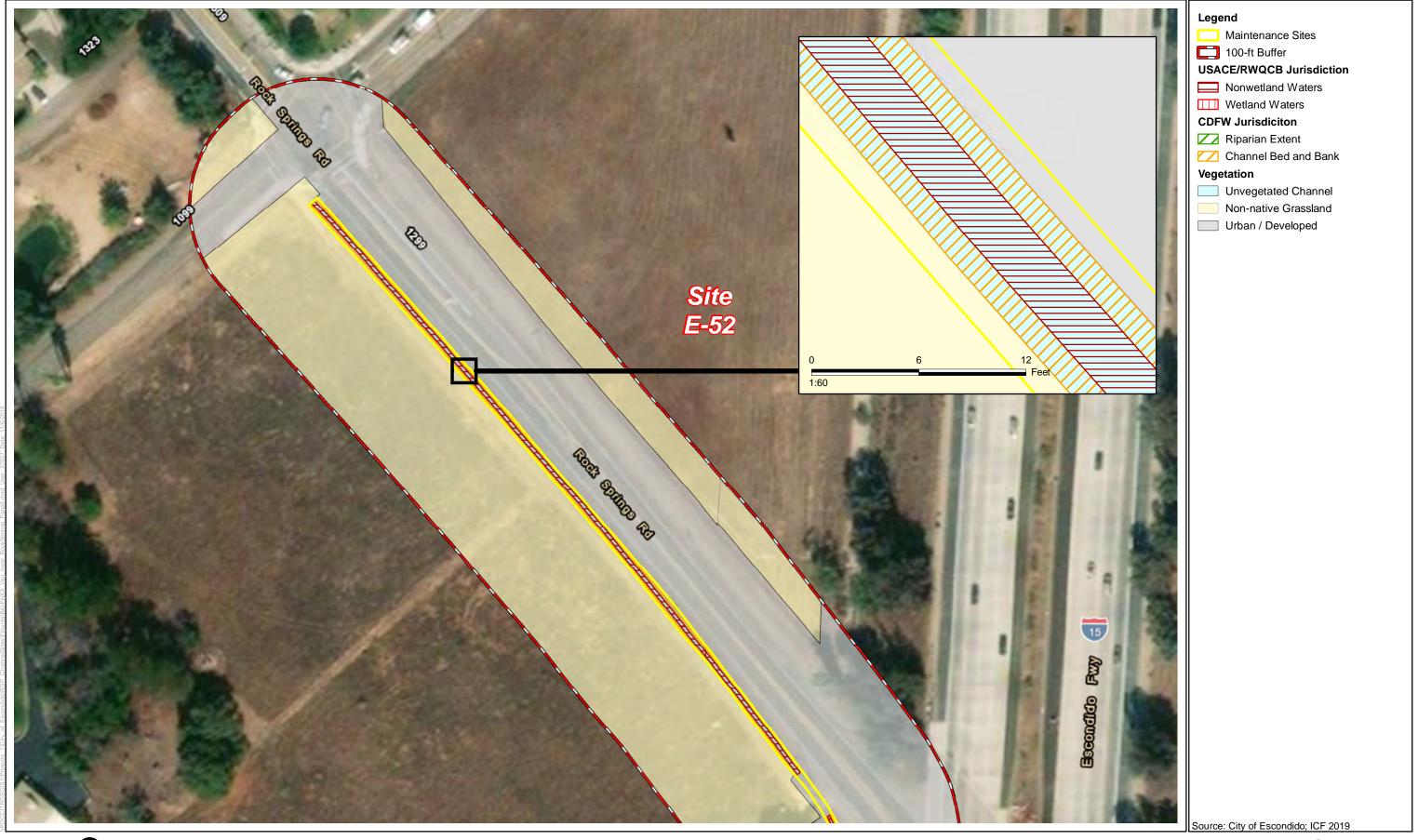






Legend

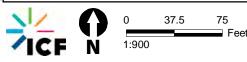
Maintenance Sites Map Sheet Extent 100-ft Buffer



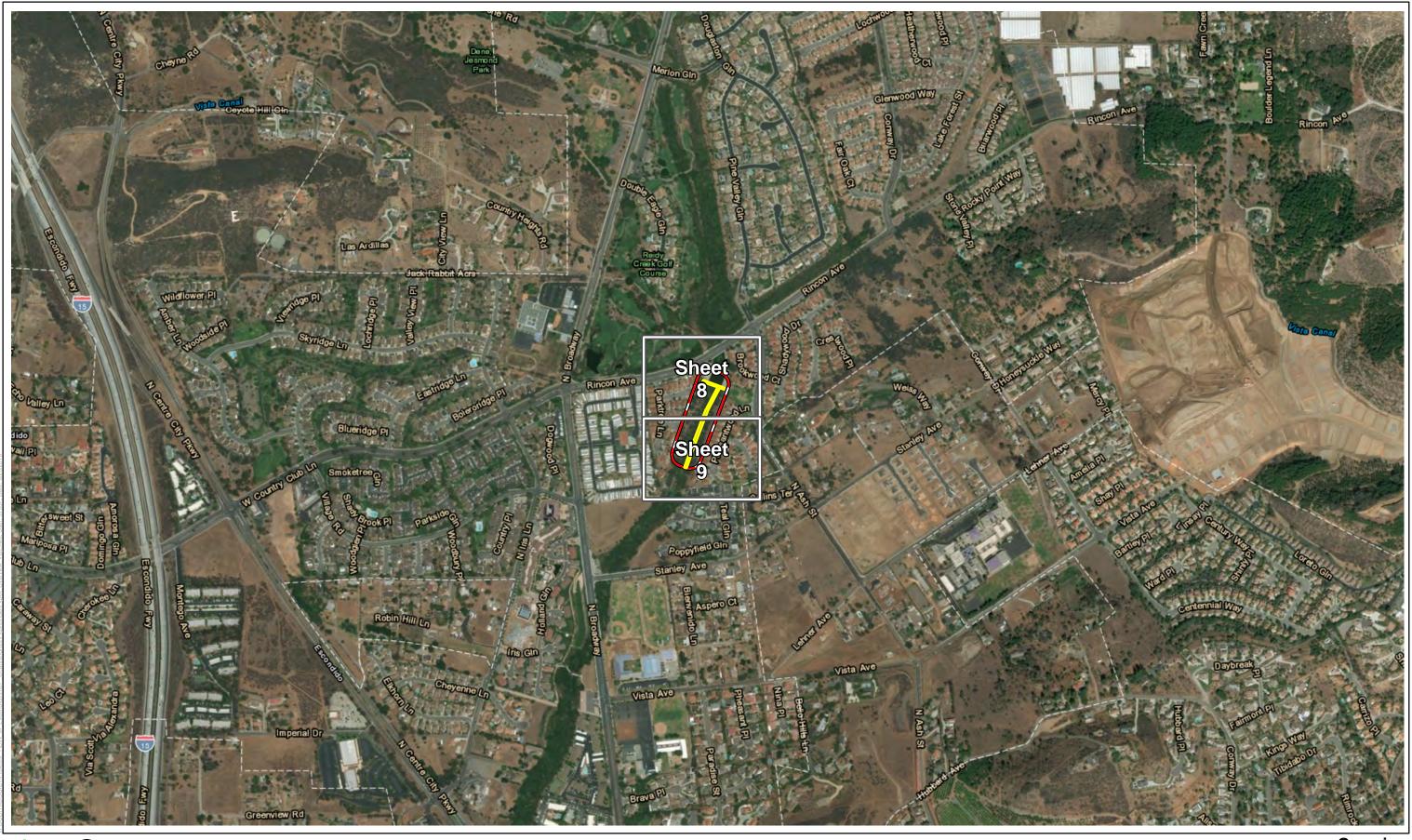


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Legend

Maintenance Sites Map Sheet Extent 100-ft Buffer



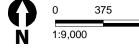






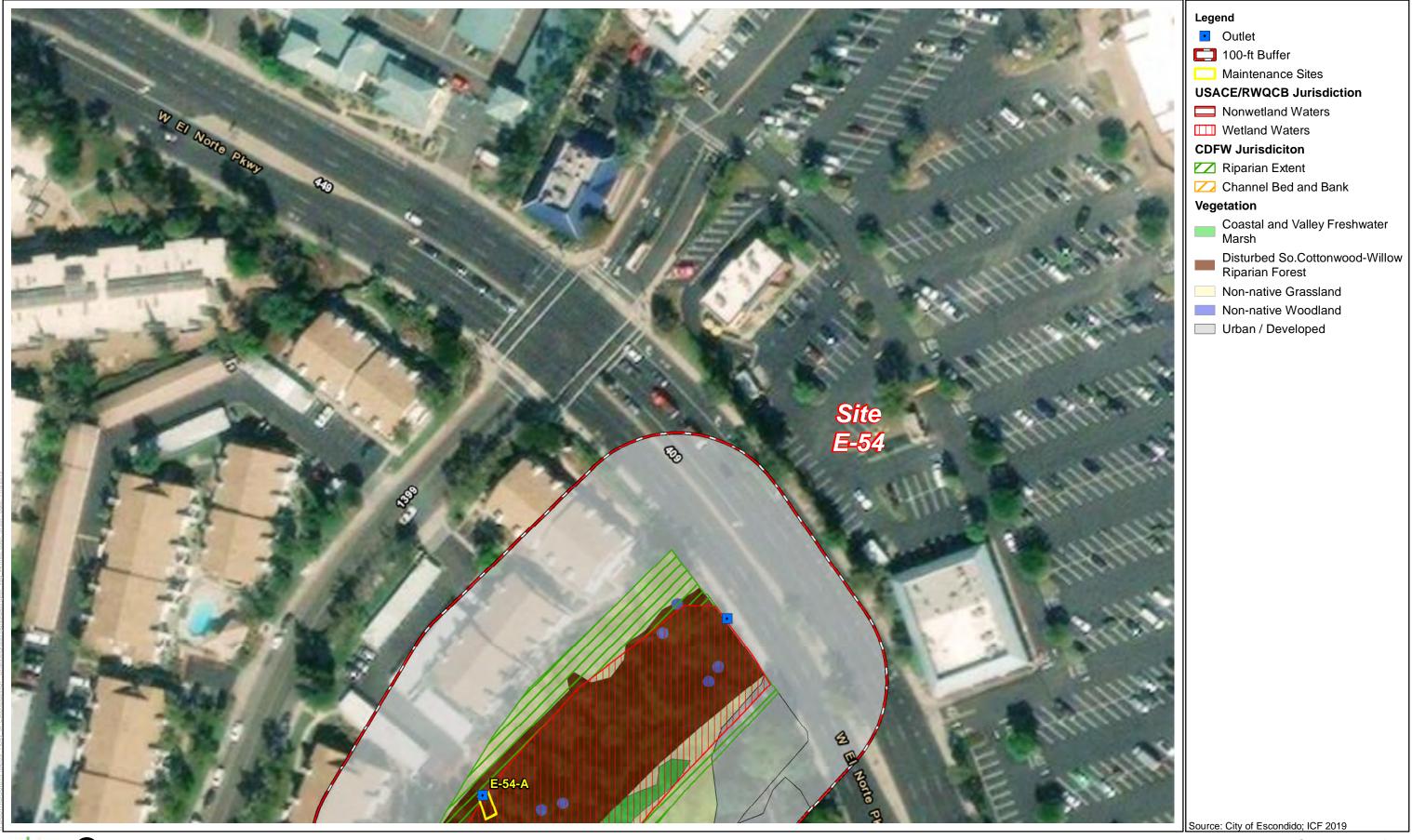


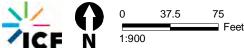


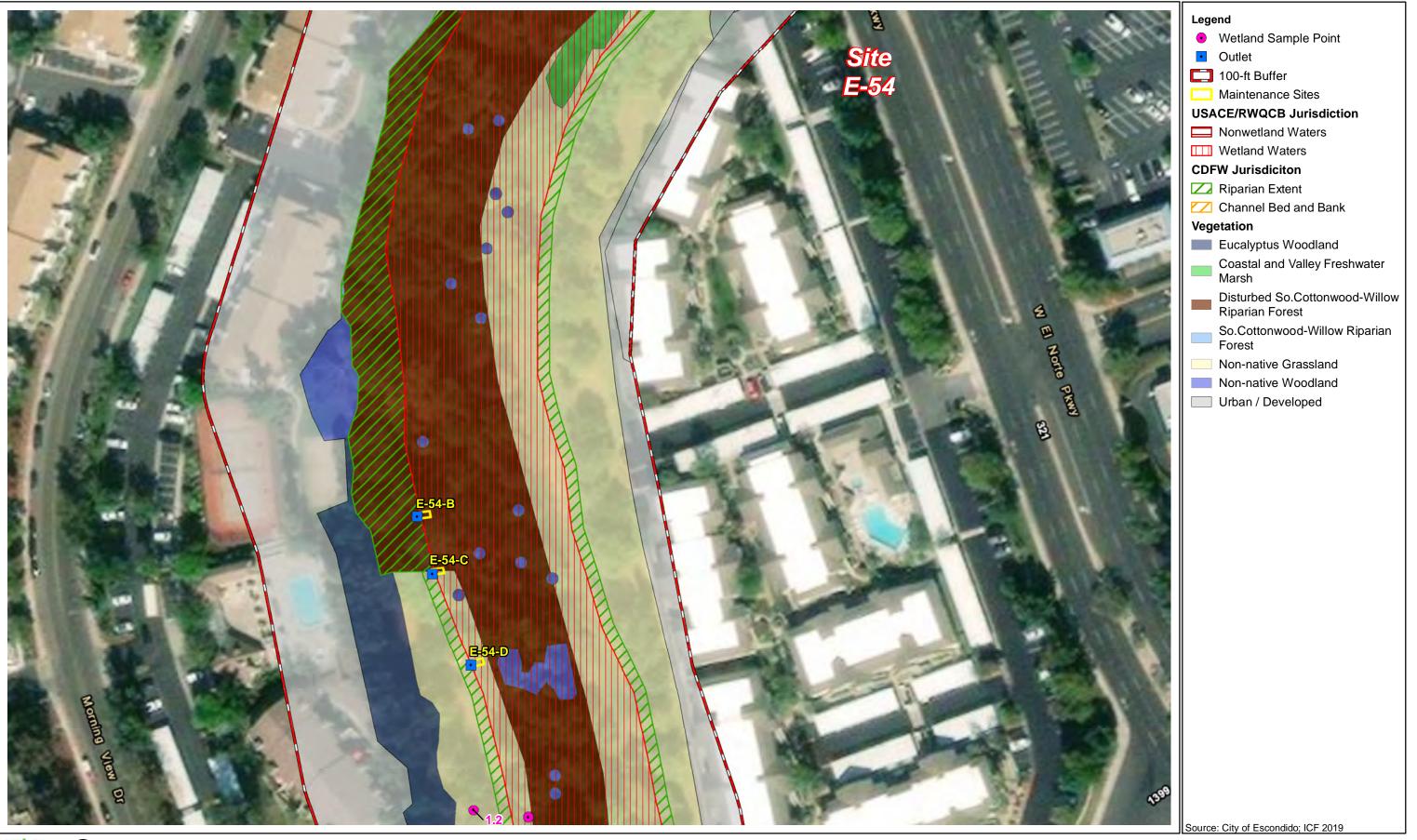


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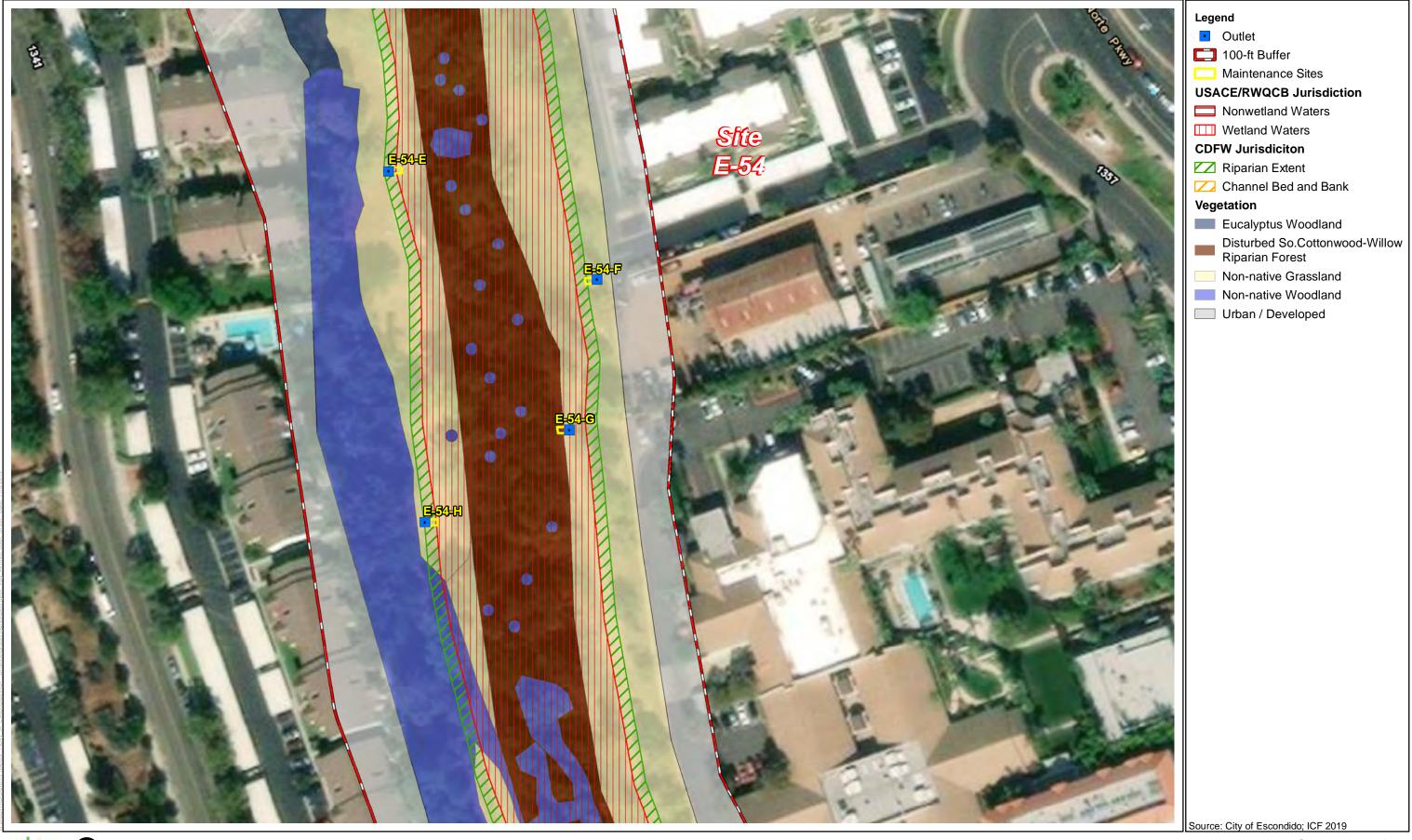
Overview E-54 Reidy Creek - Morning View Escondido RGP 94 Channel Maintenance Project









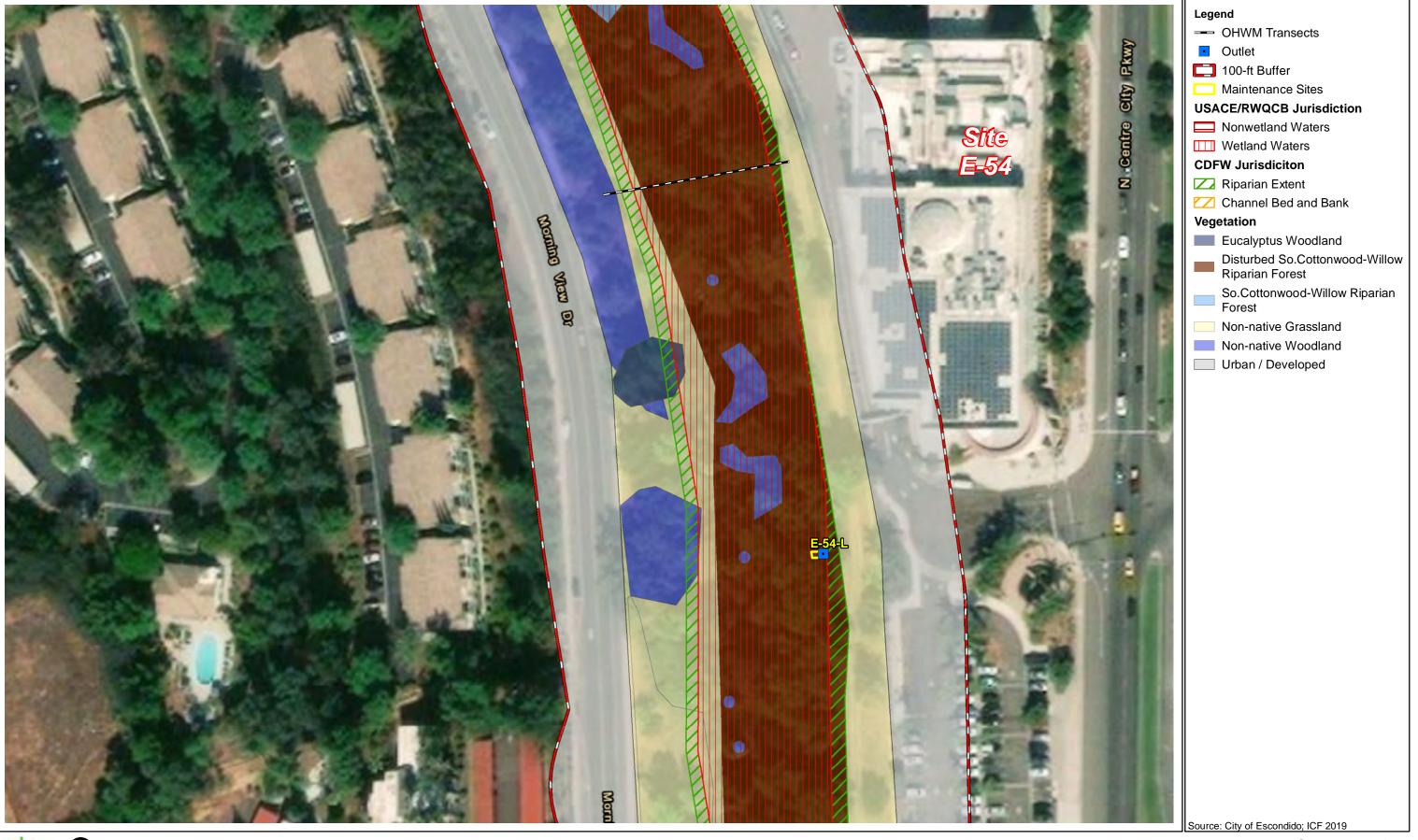




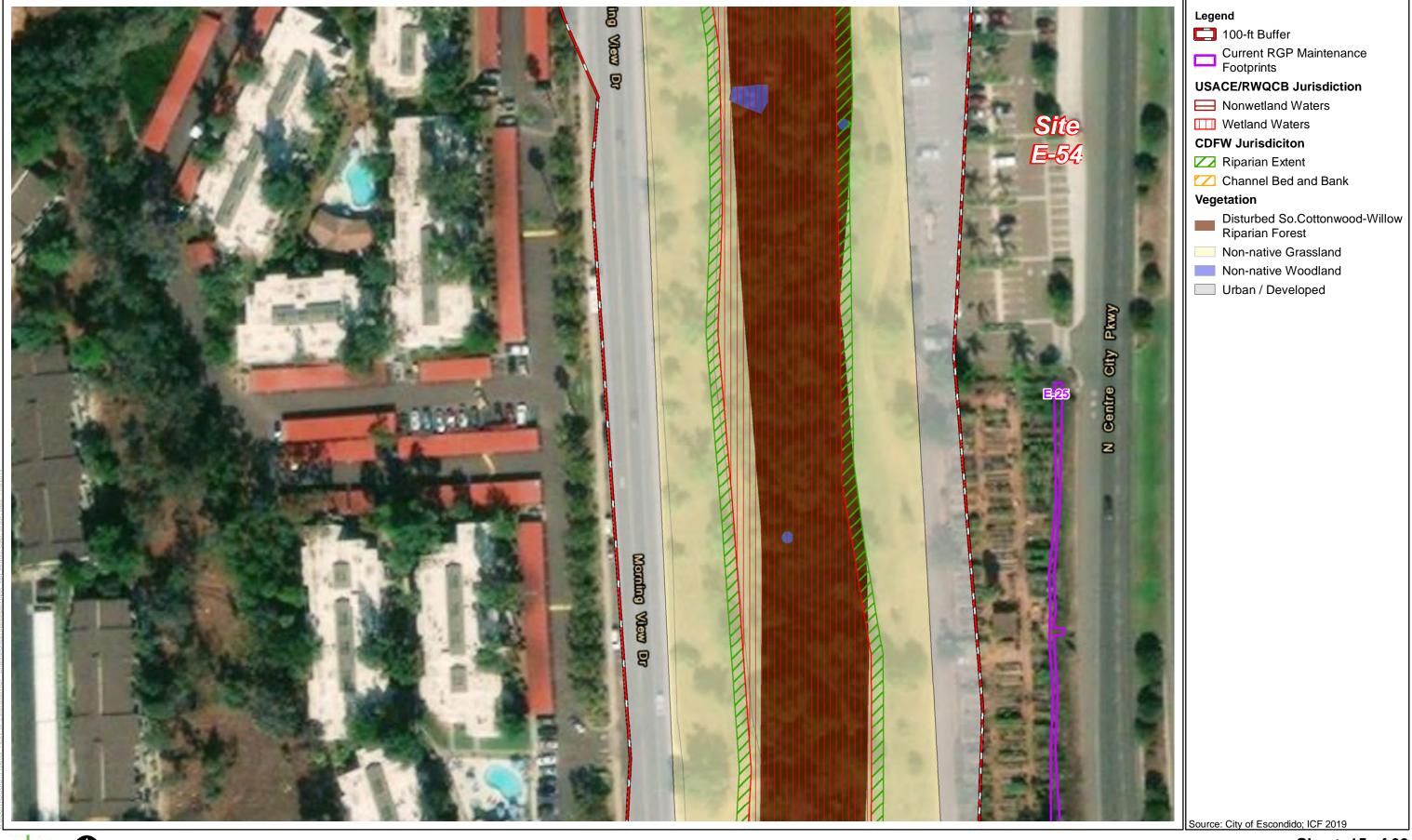




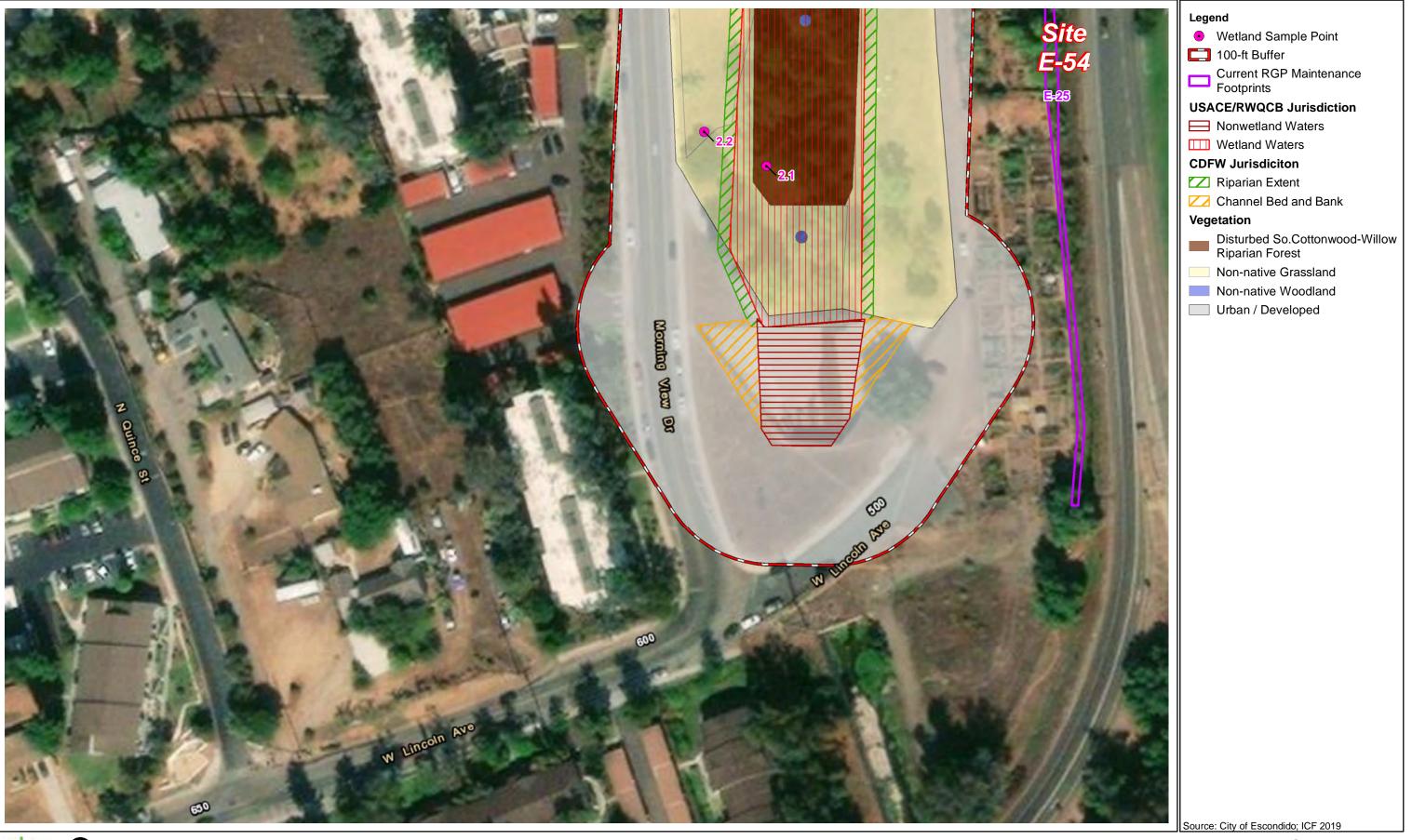
Sheet 13 of 39 E-54

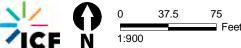


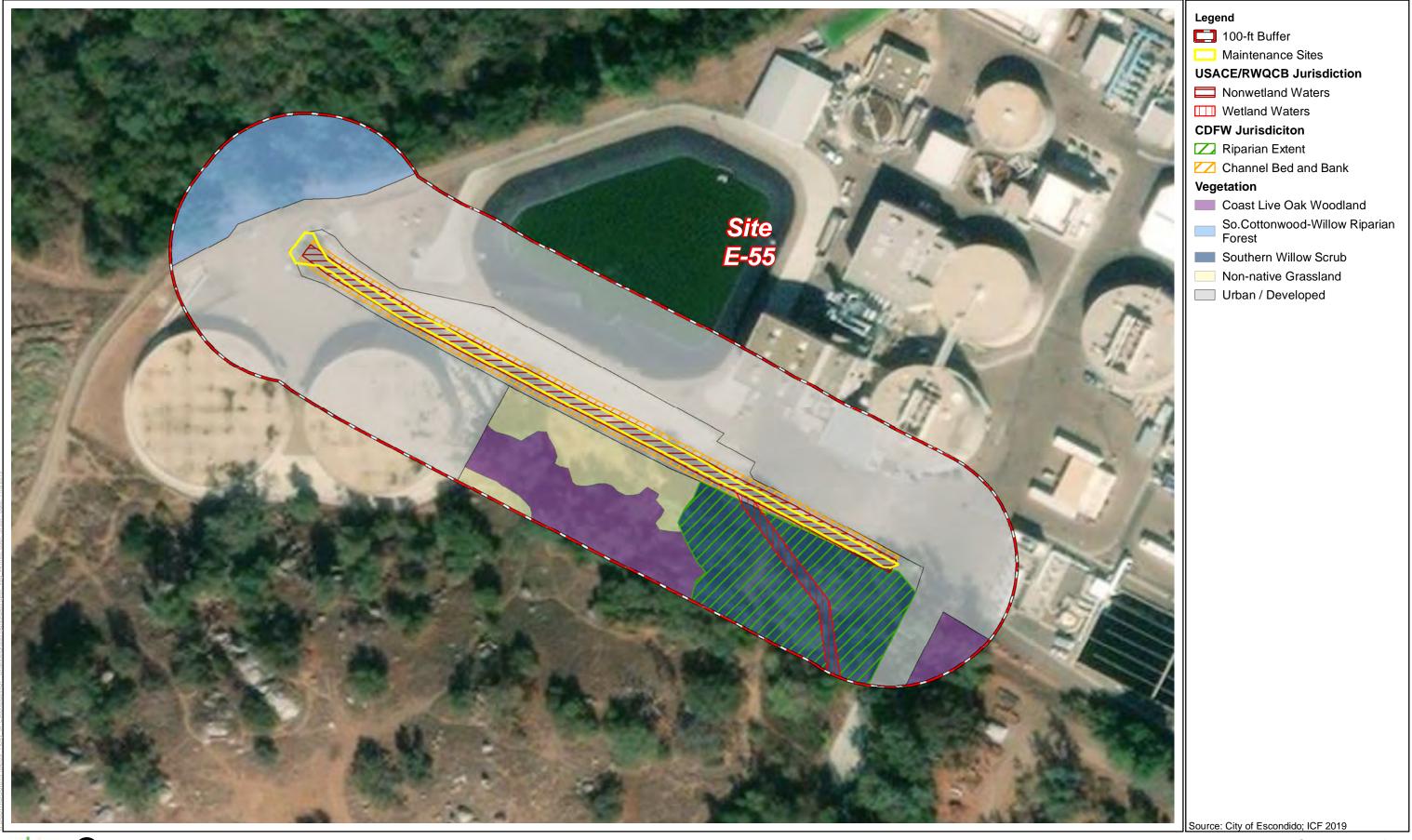






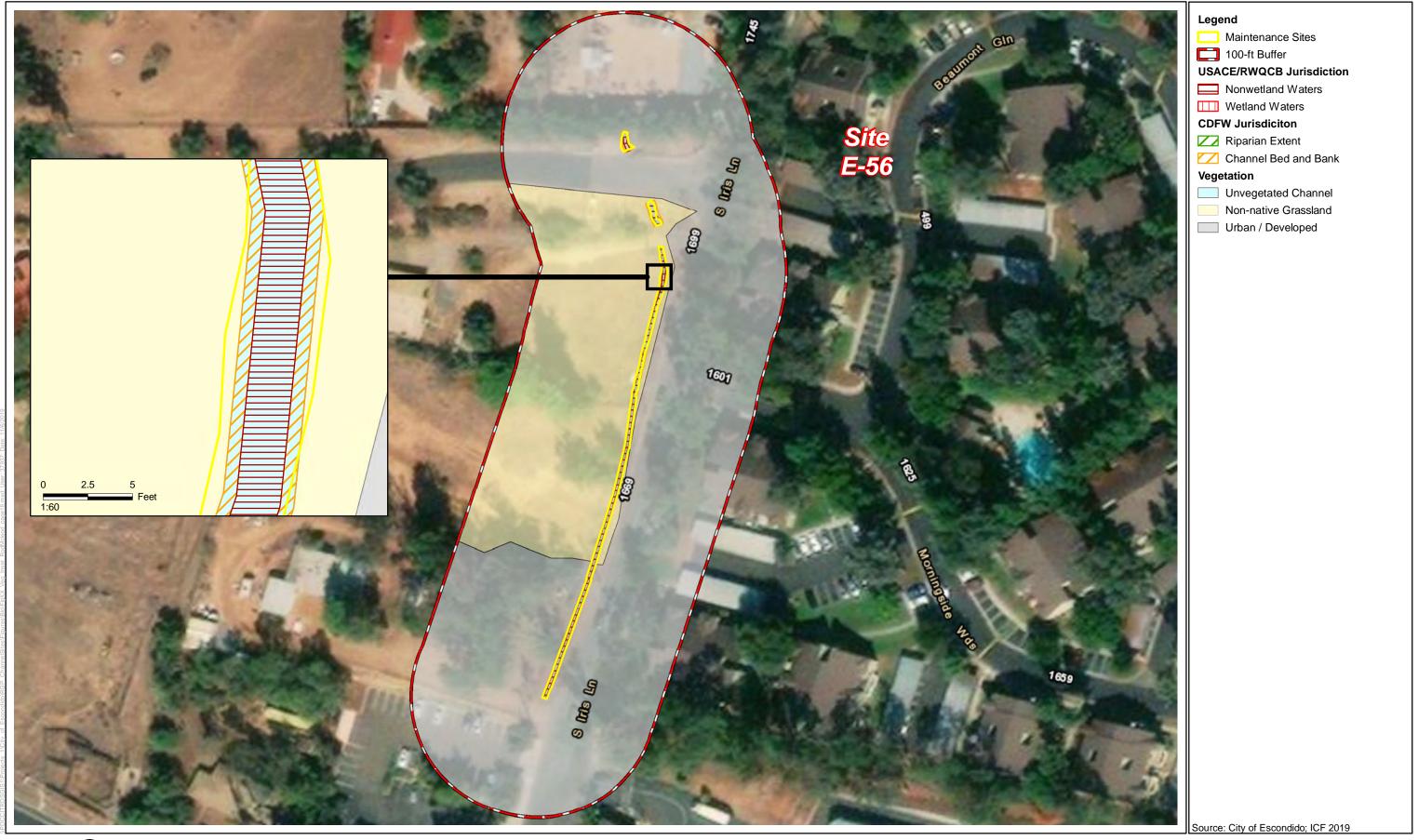


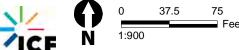


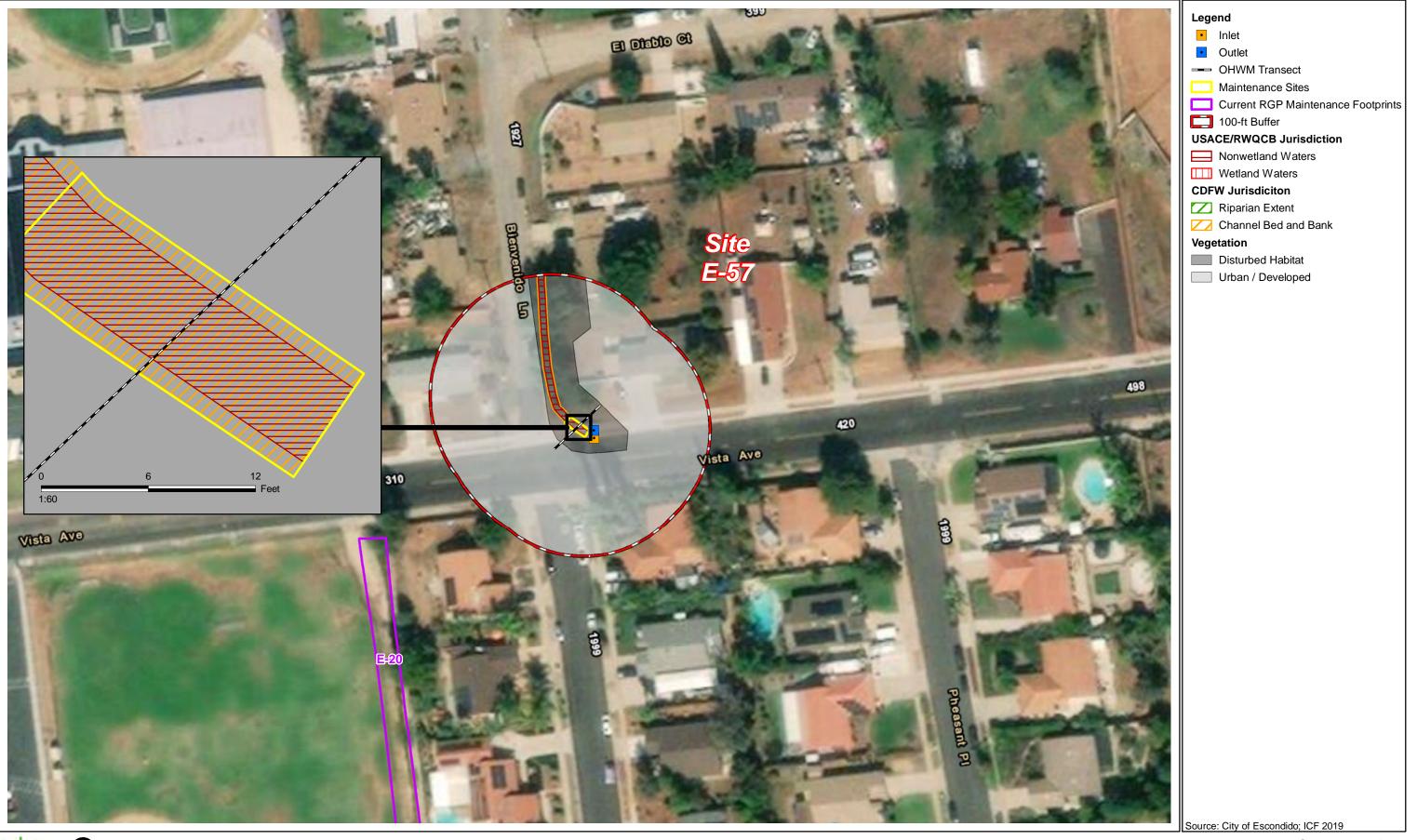


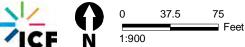


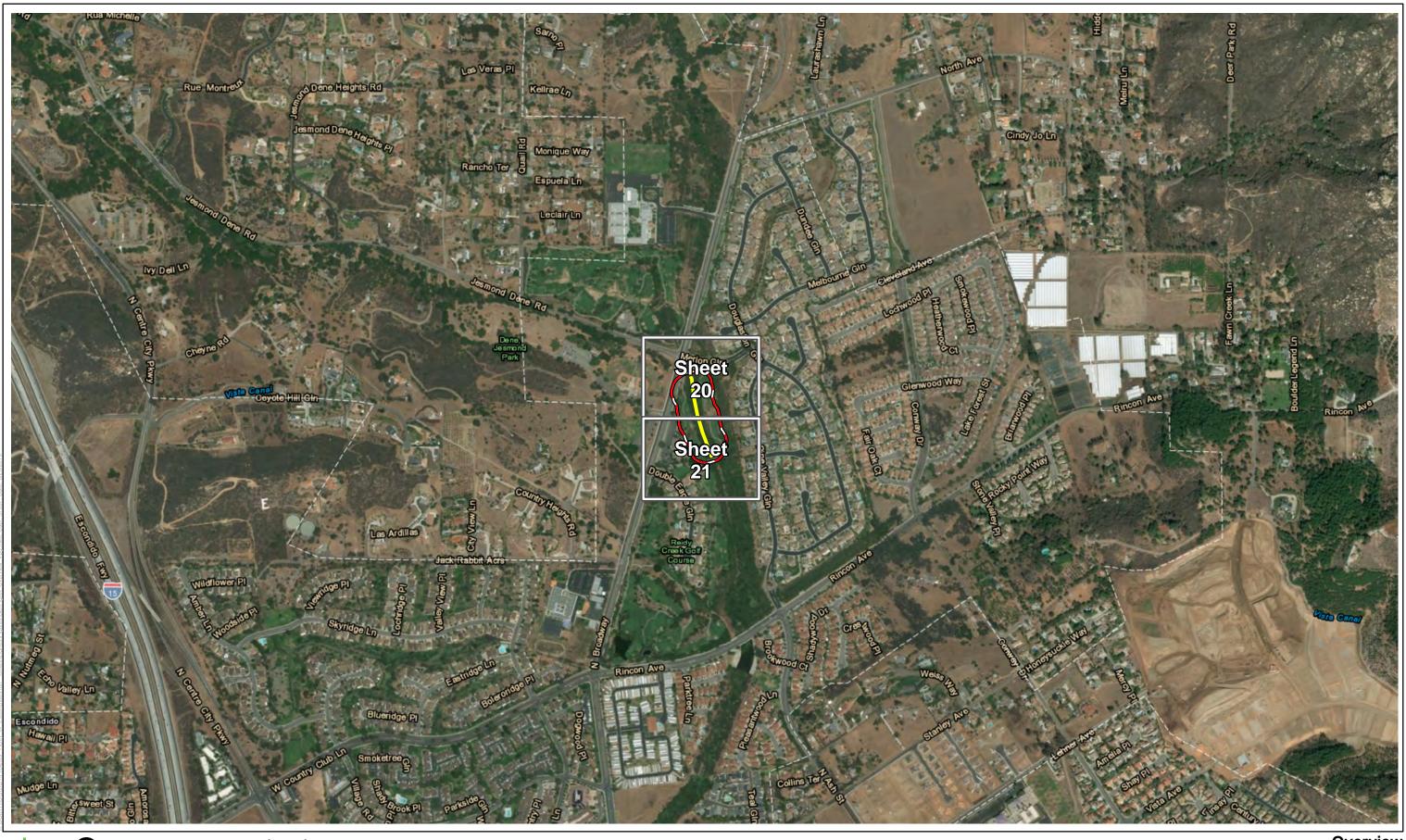
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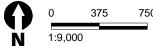












Maintenance Sites Map Sheet Extent 100-ft Buffer

Overview E-58 Reidy Creek Golf Course Escondido RGP 94 Channel Maintenance Project







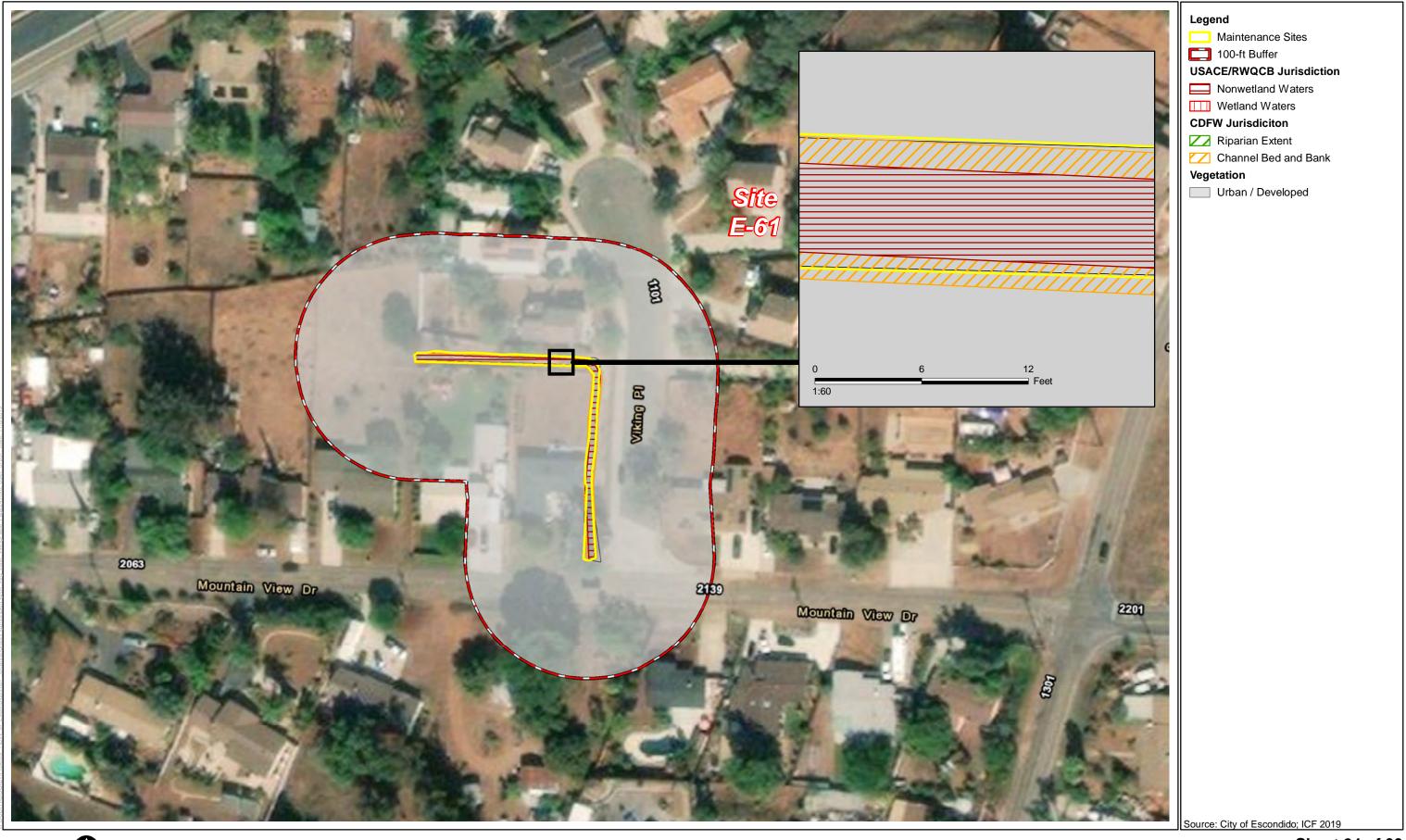




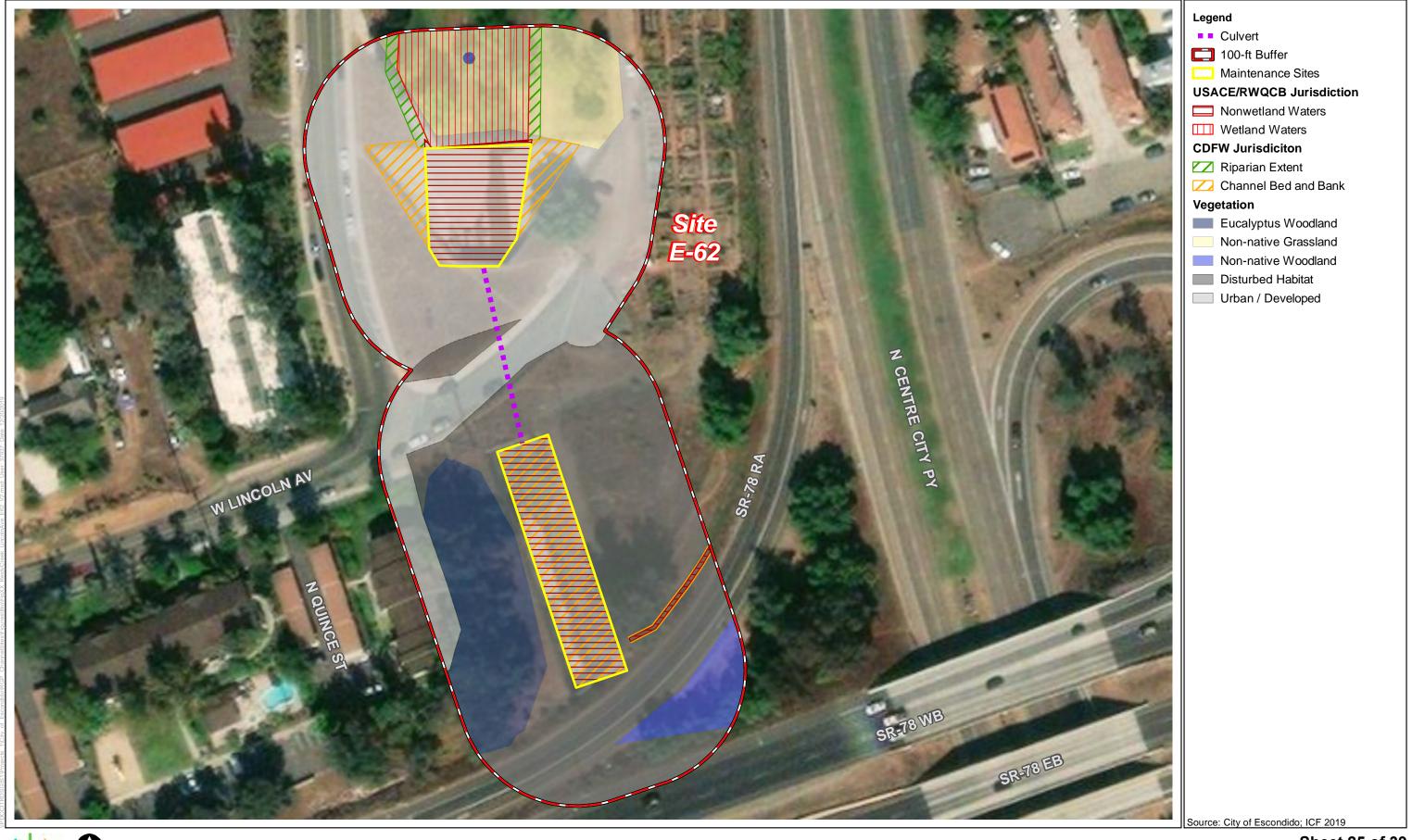




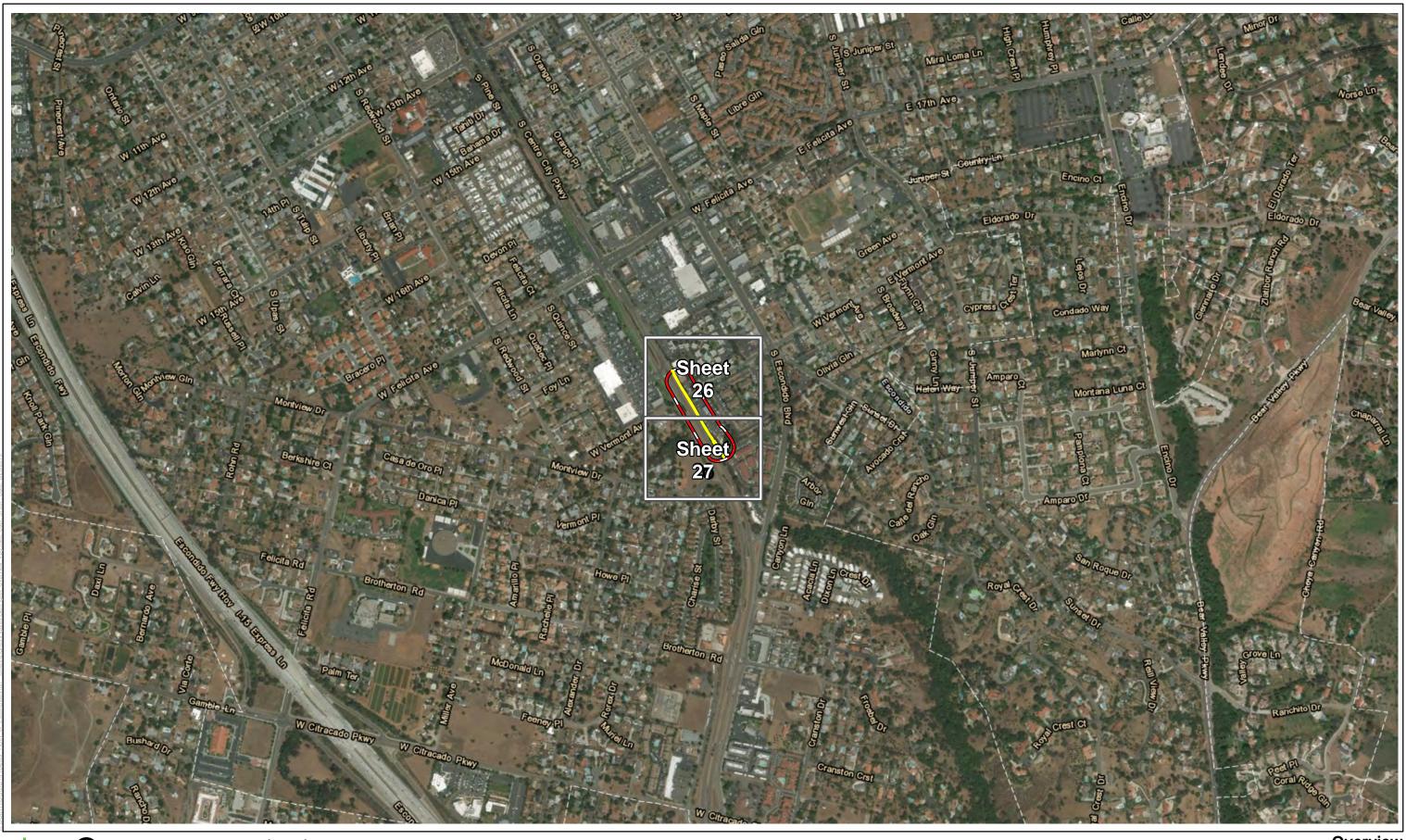








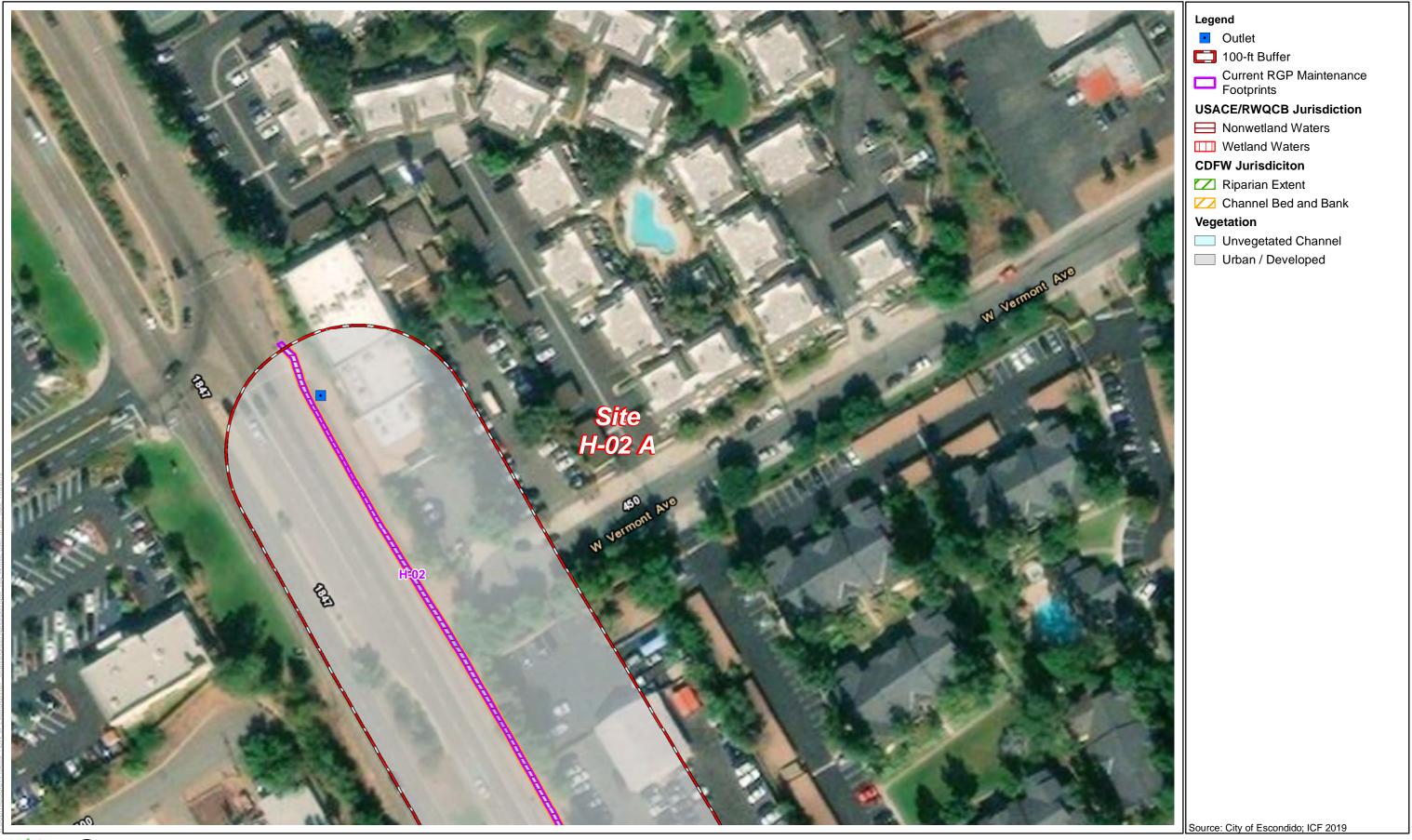


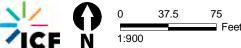






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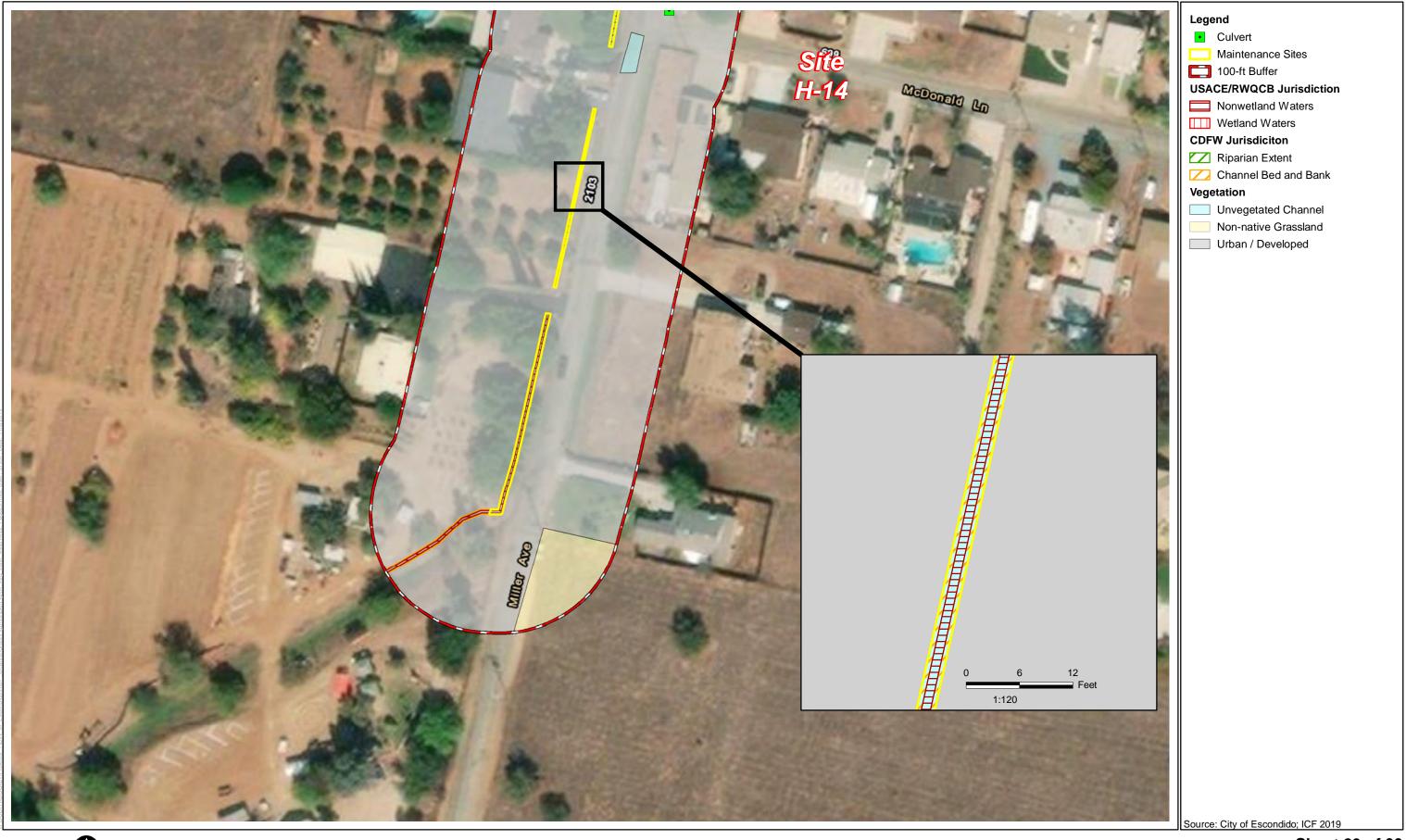
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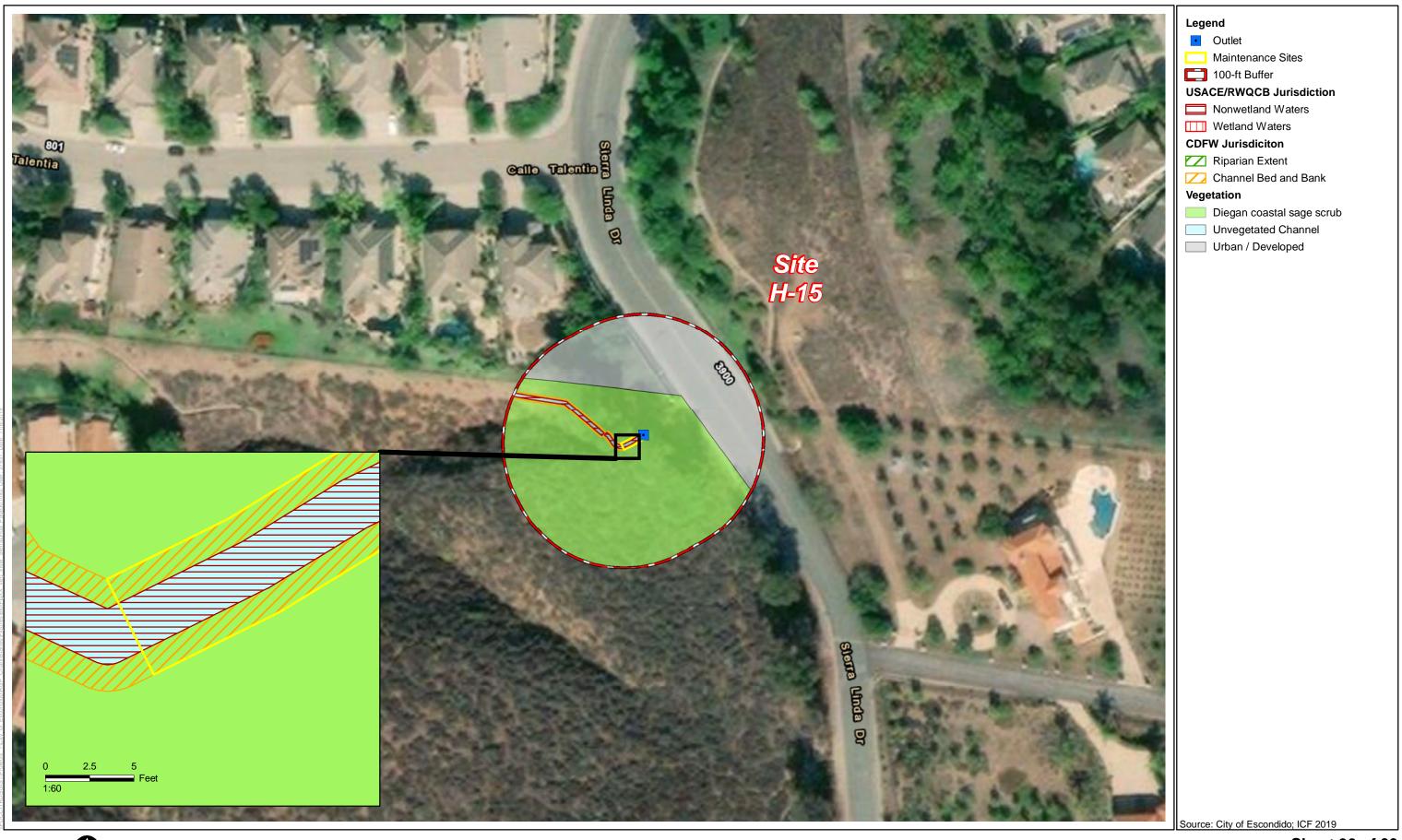




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Sheet 30 of 39 H-15 Sierra Linda Escondido RGP 94 Channel Maintenance Project







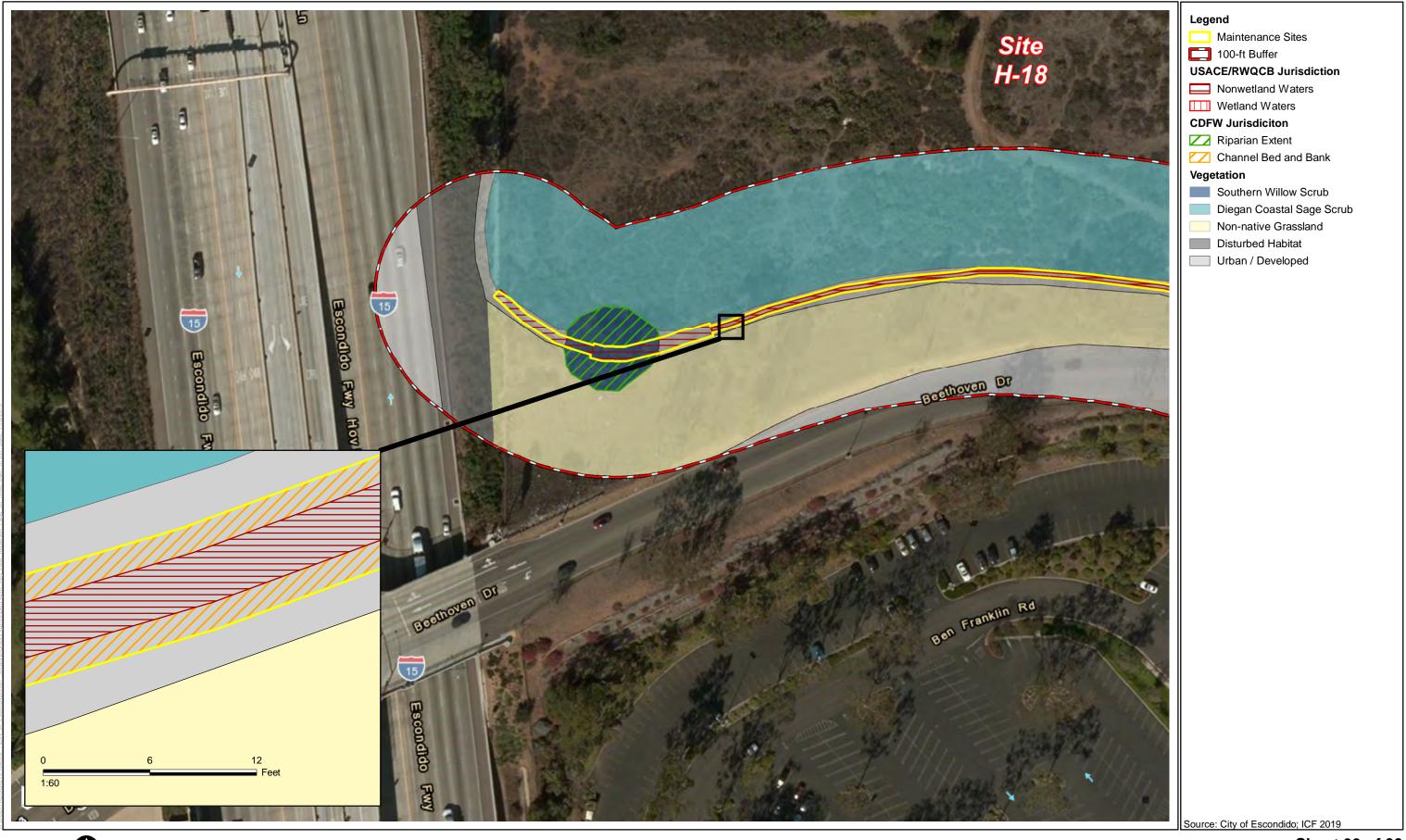








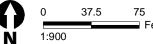
Legend Maintenance Sites Map Sheet Extent 100-ft Buffer



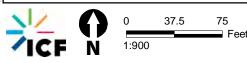




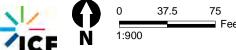


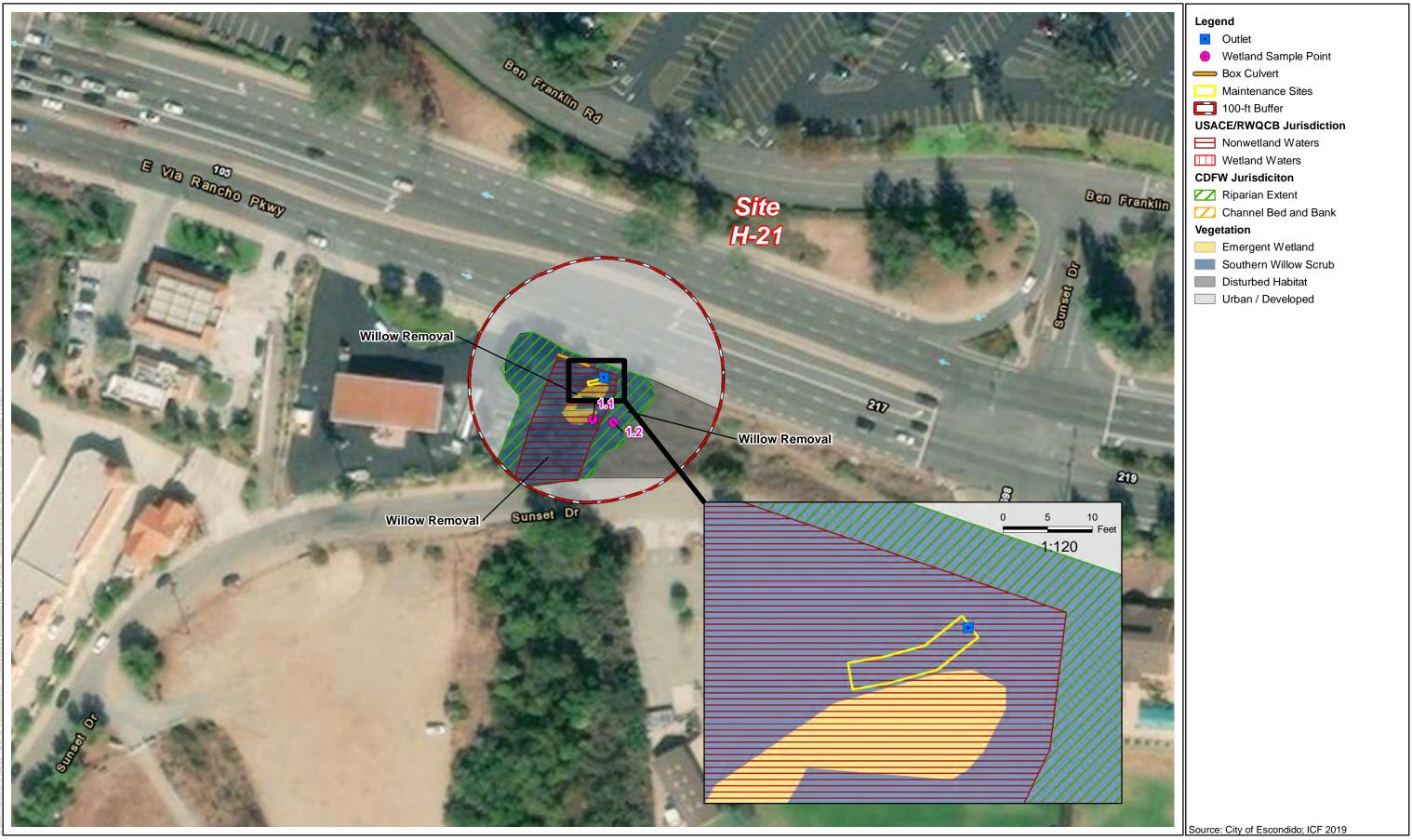




















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Maintenance Sites Map Sheet Extent





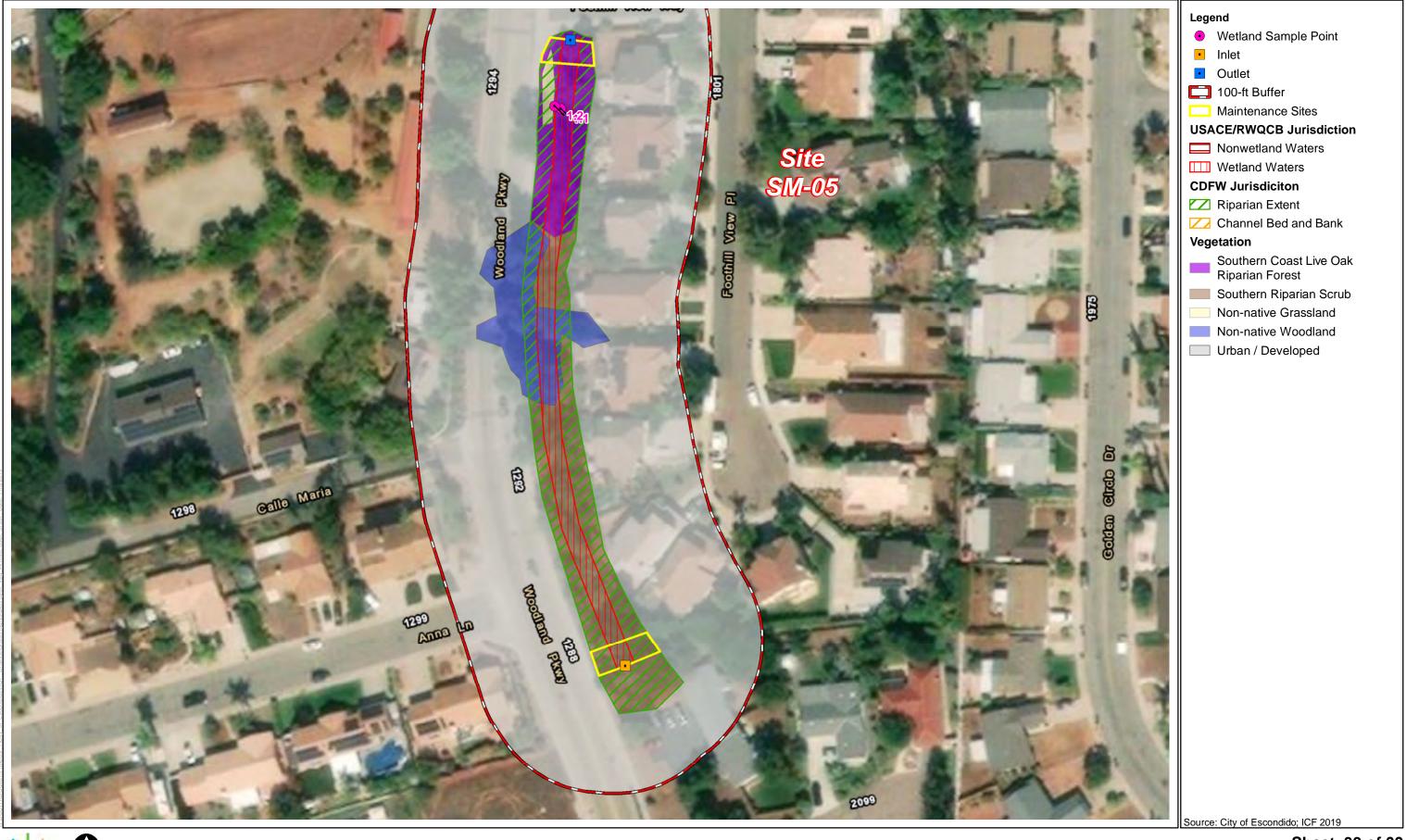




TABLE 2-1. PROPOSED PROJECT SITE LOCATIONS AND PROPOSED ACTIVITIES

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access
New Sites	S				
E-48	W 4th Ave	Earthen	Full Site	Remove accumulated sediment and weed removal	 Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation. No dragging of equipment along banks and no equipment in channel.
E-49	W 5 th and Pine	Earthen	Full Site	Remove accumulated sediment and weed removal	 Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation. No dragging of equipment along banks and no equipment in channel.
E-50	W 5th Ave	Earthen	Full Site	Remove accumulated sediment and weed removal	 Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation. No dragging of equipment along banks and no equipment in channel.
E-51	800 W Valley	Earthen	Earthen Segment – Handwork Only	Removal of nonnative vegetation; trimming of native trees/shrubs as needed.	 No equipment proposed. Use of both manual and mechanical hand tools only to cut and remove nonnative vegetation. Native trees and shrubs that inhibit flows will be trimmed. Newly constructed access ramps will be used to access site.
E-52	Rock Springs	Earthen & Concrete	Full Site	Remove accumulated sediment and weed removal	 Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation. No dragging of equipment along banks and no equipment in channel.
E-53	Reidy Creek: Rincon to Pleasantwood	Earthen	15 feet from concrete apron (full bank width)	Remove accumulated sediment and herbaceous vegetation for pilot channel	Equipment to be within concrete portion of channel to clear 15 feet from apron.

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access
			10-foot wide pilot channel	Handwork – trimming of native trees/shrubs as needed.	 Dirt access road along eastern side of channel to be used to access pilot channel and scoop out sediment using backhoe or excavator. Staging equipment on channel bank. Native vegetation will be trimmed using hand tools within pilot channel area to allow access. Sediment and debris spoil pile will be placed temporarily outside of jurisdictional waters within access road.
E-54	Reidy Creek – Morning View	Earthen	E-54-A (Sheet 9) – 20 feet long x 10 feet wide E-54-B – thru E-54-I; E-54-K (Sheets 10–12) – 10 feet long x 5 feet wide E-54-J (Sheet 12) – 30 feet long x 5 feet wide (due to slope and trees in flow path) Handwork/Tree Removal for full site	At outlets – Remove accumulated sediment Handwork – Removal of nonnative vegetation; trimming of native trees/shrubs as needed.	 Access from cul-de-sacs or disturbed areas adjacent to the creek. Equipment will be staged on bank and within ordinary high-water mark to access outlet. Use of backhoe or excavator to unclog outlet and create pilot channel downstream of outlets. Use of both manual and mechanical hand tools only to cut and remove nonnative vegetation. Native trees and shrubs that inhibit flows will be trimmed.
E-55	HARRF	Concrete	Full Site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	 Equipment will be staged on developed areas adjacent to channel. May need to have equipment within channel to clear downstream segment.
E-56	McLeod Park	Earthen & Asphalt	Full Site	Remove accumulated sediment and weed removal	Equipment to be within channel to remove and restore drainage ditch to original contours.
E-57	Bienvenido and Vista	Earthen	20 feet from headwall x full bank width	Remove accumulated sediment and weed removal	Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation.

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access
					No dragging of equipment along banks and no equipment in channel.
E-58	Reidy Creek Golf Course	Earthen	10 feet total wide pilot channel	Remove accumulated sediment and herbaceous vegetation for pilot channel Handwork – trimming of native trees/shrubs as needed.	 Equipment to be within channel to clear for pilot channel. Native vegetation will be trimmed using hand tools within pilot channel area to allow access for equipment Access routes as shown on figures will be trimmed using hand tools to allow access out of channel to remove sediment and debris. Sediment and debris will be removed from site. If needed, temporarily spoil pile will be located outside of jurisdictional waters within the golf course.
E-59	E. Side CCP and 13th	Earthen	Full Site	Remove accumulated sediment and weed removal	 Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation. No dragging of equipment along banks and no equipment in channel.
E-60	Oak Valley Lane	Earthen	20-foot radius from headwall	One willow tree to be removed. Remove accumulated sediment and herbaceous vegetation. Handwork – trimming of native trees/shrubs as needed.	One-time willow tree will be fully removed (root and all). Willow directly downstream of outlet and blocking flow. Equipment will be staged on the street and backhoe or excavator will be used to scoop out sediment to unclog outlet. Hand tools to trim native shrubs and trees, as needed.
E-61	Viking Place	Concrete	Full Site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	Equipment will be staged on developed areas adjacent to channel.
E-62	Reidy Creek – Lincoln Ave	Concrete	Full Site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	Equipment will enter the concrete channel to conduct maintenance activities.

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access
H-14	Miller Ave	Earthen	Full Site	Remove accumulated sediment and weed removal	 Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation. No dragging of equipment along banks and no equipment in channel.
H-15	Sierra Linda	Earthen	20 feet from headwall	Remove accumulated sediment and weed removal	 Equipment will be staged on the street or disturbed areas and backhoe or excavator will be used to scoop out sediment to unclog outlet. No dragging of equipment along banks and no equipment in channel.
H-16	Concerto and Beethoven	Earthen	Access to outlet and 20 feet from headwall	Remove accumulated sediment and weed removal	 Equipment will be staged on the street or disturbed areas and backhoe or excavator will be used to scoop out sediment to unclog outlet and create pilot channel. No dragging of equipment along banks and no equipment in channel.
H-17	Bear Valley Pkwy	Earthen	20 feet from headwall x 5 feet wide	Remove accumulated sediment and weed removal	 Equipment will be staged on the street or disturbed areas and backhoe or excavator will be used to scoop out sediment to unclog outlet. No dragging of equipment along banks and no equipment in channel.
H-18	Kit Carson Bike Trail	Concrete	Full Site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel Portion of concrete is broken and requires repairs.	 Equipment/temporary spoil piles within trail/disturbed areas. A bobcat will drive to the downstream end of the concrete channel and push accumulated sediment upstream to temporary spoil pile location. Native tree trimming as needed to allow equipment access in channel.
H-19	Encino and Amparo	Earthen	Full Site	Remove accumulated sediment and weed removal	 Equipment will be staged on the street or disturbed areas and backhoe or excavator will be used to scoop out sediment to unclog outlet. No dragging of equipment along banks and no equipment in channel. All native trees (willows) occurring within the basin will be removed (root and all).

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access
H-20	Sunset and Bear Valley	Earthen	30 feet from headwall	Remove accumulated sediment and weed removal	 Equipment will be staged on the street and backhoe or excavator will be used to scoop out sediment to unclog outlet. No dragging of equipment along banks and no equipment in channel.
H-21	Via Rancho Pkwy and Sunset Drive	Earthen	15 feet x 3 feet wide from small outlet. Removal of 3–4 Willow Trees	Removal of 3–4 willow trees	 One-time willow tree removal. Willows will be cut at base and roots left in place. Hand tools used for removal. One willow blocking access to the site, 2-3 willows have large branches that are perpendicular to the drainage flow and has the potential to act as a debris jam during storm events. Equipment will need to be within wetlands to access outlet area. Backhoe or excavator will be used to scoop out sediment to unclog outlet and create pilot channel to larger drainage. Hand tools to trim native shrubs and trees, as needed.
SM-05	Woodland Pkwy	Earthen	20 feet from each headwall x width of bank	Remove accumulated sediment and weed removal Remove dead vegetation/debris throughout entire drainage	 Equipment will be staged on the street and backhoe or excavator will be used to scoop out sediment to unclog inlets and outlets. No dragging of equipment along banks and no equipment in channel. Native tree trimming as needed to allow equipment access. Manual hand tools will be used to remove dead vegetation or debris that may be blocking flow.
Extension of Existing Site					
H-02 A	1840 S Centre City Pkwy	Earthen	Current RGP Site proposed for expansion	Remove accumulated sediment and weed removal	 Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation. No dragging of equipment along banks and no equipment in channel.

Facility ID	Site Name	Lining Type	Maintenance Footprint	Maintenance Activities	Staging and Access
Mitigation	n Site to Compen	sate for Impacts	s from Projects Ab	ove	
N/A	Kit Carson Park Downstream	Earthen ditch	Full area will be enhanced	Enhancement would include removal of nonnative vegetation. Rehabilitation areas will require planting and seeding of native vegetation.	 Temporary fences may be needed to restrict access during restoration activities for public safety and the protection of site resources. Nonnative weed removal will consist of hand removal, cutting or mowing, or chemical herbicide application Invasive tree removal will require tree trunks to be cut to about 12 inches above ground. Staging will occur adjacent to the mitigation site along disturbed areas or the Kit Carson parking lot. Access into the mitigation site will occur by foot.

New Project Activities to Be Included in RGP 94

Additional O&M activities beyond the scope of what was approved in 2013 MND ENV 12-0001 and 2014 Addendum ENV 12-0001 are proposed for all 87 maintenance sites to be included in the amended RGP (i.e., both new facility locations and the currently covered facility locations). These new O&M activities are further described below.

Similar to the current O&M activities for currently covered maintenance sites, the City has made great efforts at each facility to constrain the extent and type of impact that would occur. In natural facilities with native vegetation growing in earthen-bottom channels, the City reviewed each site and minimized impacts to trimming the understory (trimming/clearing of vegetation under the tree canopy), limited the scale of impacts to the smallest radius necessary to allow for positive flow dependent on the size of the outlet, and/or impacting only the minimal low-flow channel. The City would remove native riparian trees only for the new sites that have identified tree removal listed in Table 2-1 above. In all other new sites, the City would avoid removal of native riparian trees and shrubs, and conduct only minor trimming of lower branches where necessary to maintain access and flow. Maintenance activities conducted within serviceable concrete-lined features (i.e., features that have intact concrete linings, do not support mature native trees or shrubs, and can therefore be maintained, through removal of sediment, debris, and opportunistic herbaceous vegetation, without alterations to the channel bed/bank or removal of established habitat) would not be limited to an acreage threshold, as no adverse or significant impacts would result from these activities. The activities are identified in Table 2-1 above. O&M activities are necessary to ensure proper function and integrity of the channel system and structures, and the activities do not otherwise alter or expand the existing system.

Repairs/Maintenance of Existing Hardscape Structures

The City proposes to include the repairs of existing concrete aprons and/or concrete-lined drainages as part of the RGP. Repairs would include minor repairs to segments of concrete-lined channels or riprap-lined segments that would not result in the modification of the character, size, or scope of the original fill design. Additionally, these repairs would be limited to either current or new RGP sites. Larger drainages, such as Indian Wells or Escondido Creek, would not be included/covered.

Only one facility location, H-18 Kit Carson Bike Trail, is currently noted as needing repairs to a segment of its concrete channel. However, the City would like the ability to complete these types of repairs to any hardscape facility included in the RGP.

Work activities would be conducted based on a schedule that considers the needs of each site along with staff and budget allocations. Most work activities generally would be completed within 2 to 5 days.

Equipment and Maintenance Frequency

A variety of equipment would be utilized to complete O&M activities, including manual and mechanical hand tools, graders, backhoes, excavators, skid steers, and front-end loaders. Table 2-2 provides examples of equipment that could be used to conduct work activities.

TABLE 2-2. PROPOSED EQUIPMENT TYPES AND EXAMPLES

Type of Equipment	Equipment Examples
Manual hand tools	Rakes, shovels, loppers (any non-mechanical hand tools)
Mechanical hand tools	Chain saws, string trimmers, hedge trimmers
Heavy Mechanical Equipment	Grader, backhoe, excavator, skid steer, front-end loader, bobcat

Work activities would be conducted approximately annually or biannually as staff and budget allocations allow at each location. Most work activities will be conducted and completed within 2-5 days, but depending on the activity the work could last up to 45 days.

Stream Diversions and Best Management Practices

Stream diversions and Best Management Practices (BMPs) would be implemented for all facility locations during maintenance activities. If water is present during the time of the maintenance activity, flows/ponded water would be dammed by the installation of either gravel or sediment bags. Due to the varying channel widths, implementation of a coffer dam is not possible at all locations. Therefore, work within wetted portion of some channels may be needed. If work is conducted within the wetted portion of a channel, the City would employ a series of check dams downstream of the maintenance location to reduce flow velocities and allow any suspended particulates to settle out of the water column. Additionally, a pump diversion system may be used when appropriate.

If streams are dry, BMPs in the form of straw wattles would be used to prevent sediment or debris from entering downstream waters.

Staging Areas

Equipment staging and stockpiling of spoils would not occur within the limits of jurisdictional waters. Equipment would be staged on existing developed surface roads, lots, or disturbed habitat, when feasible. Sediment, debris, and vegetative material would be removed from immediate area; stockpiled within surface roads, lots, or disturbed habitat; and then moved off-site to City Public Works facilities. Spoils would be disposed of appropriately or reused for other projects throughout the city, where appropriate.

IV. ANTICIPATED PUBLIC MEETINGS/HEARINGS

Adoption of the Supplemental IS/MND will not require City Council adoption. Environmental documents that are not associated with a specific project that would require Planning Commission or City Council now can be adopted by the Zoning Administrator at a public meeting (Section 33-1319(b). A tentative date for consideration by the Zoning Administrator has not yet been set. After the 30-day public review period has ended, a Zoning Administrator meeting date will be scheduled to consider the Final IS/MND and any comments received. The Zoning Administrator schedules Public Hearings on an as needed basis. The agenda for Zoning Administrator meetings are posted at least 72 hours prior to the meeting and can be found at the following website: https://www.escondido.org/zoning-administrator.aspx.

v. ENVIRONMENTAL SETTING

City of Escondido

The City of Escondido is approximately 37.5 square miles and is located in northern San Diego County, approximately 30 miles north of downtown San Diego and 18 miles east of the Pacific Ocean. The city was incorporated in 1888 and became an agricultural center for grapes, citrus, and later for avocados. Escondido is now known as inland northern San Diego County's center for retail, services, health care and cultural facilities while maintaining a feel of small-town living (City of Escondido 2012). Escondido is bounded on the north by the unincorporated communities of Valley Center and Hidden Meadows, on the west by the city of San Marcos, on the south by Lake Hodges and the City of San Diego, and on the east by unincorporated San Diego County.

Location and Surrounding Land Uses

The proposed project would occur at 87 total maintenance sites throughout the City of Escondido. Figures 2-1 and 2-2 depict the regional location and project vicinity as well as the 63 facilities covered under the current RGP 94 and the 24 newly proposed facilities. The current and proposed facilities are located on privately owned parcels or within City easements or rights-of-way. Access to the facilities is typically gained from the nearest public roadway.

As shown in Figure 2-3, the proposed 24 sites not previously covered under the current RGP 94 are located at various sites within the city, each with different topography, elevation, and setting. Generally, sites are within suburban and urban areas. General Plan Land Uses in the area are mainly Residential (Urban, Suburban, and Estate), Commercial, Planned Office, Public Land/Open Space and Specific Plan Areas (Figure 2-4). Surrounding development varies in size, type, and age. Surrounding development includes urban and suburban residences, commercial buildings and shopping centers, schools, parks and open space, roadways, among other development types.

Facilities occur in and appurtenant to native, naturalized, and developed channels, varying in size, shape, habitat composition, and habitat quality. Natural communities and other land cover types in the proposed project area are further discussed in Section 3 of this document, including a tabular summary of the habitat types occurring in the area.

VI. REGULATORY SETTING

Applicable regional planning documents include the General Plan of the City of Escondido (2012) and the City of Escondido Draft Multiple Habitat Conservation Program (MHCP) Subarea Plan (City of Escondido 2001) under the Final MHCP (San Diego Association of Governments 2003).

The Draft Escondido Subarea Plan documents core conservation areas, known as Habitat Management Plan (HMP) Areas (Figure 2-5). The Draft Escondido Subarea Plan has not been adopted. Portions of proposed sites E-52 and SM-05 occur within HMP areas; these areas are subject to the conservation measures set forth by the City's Draft Subarea Plan, which includes up to 90 to 100 percent species conservation and no net loss of wetlands.

Various regulations govern jurisdictional wetlands and non-wetland waters of the U.S. and State. Moreover, the federal and state agencies that govern activities within these resources must ensure that the activities they authorize will not adversely affect other regulated resources that can occur within jurisdictional waters. As applicable to the project, these other regulated resources include

federally and state-listed species, migratory birds, and potential historic properties. Additionally, ordinances promulgated by the City of Escondido protect certain resources known to occur within the project study area. Therefore, as applicable to the project, jurisdictional waters (including wetlands and other aquatic environments/habitats), and the protected species and potential historic properties that may occur within or adjacent to these waters, are regulated under the following federal and state laws, and local ordinances.

Federal Regulations

Clean Water Act

Pursuant to Section 404 of the Clean Water Act (CWA), the U.S. Army Corps of Engineers (USACE) is authorized to regulate any activity that would result in the discharge of dredged or fill material into jurisdictional waters of the U.S., which include those waters listed in 33 Code of Federal Regulations Part 328 (Definitions). USACE, with oversight by the U.S. Environmental Protection Agency (USEPA), has the principal authority to issue CWA Section 404 Permits.

Pursuant to Section 401 of the CWA, the Regional Water Quality Control Board (RWQCB) (Region 9) certifies that any discharge into jurisdictional waters of the U.S. will comply with state water quality standards. RWQCB, as delegated by USEPA, has the principal authority to issue a CWA Section 401 water quality certification or waiver.

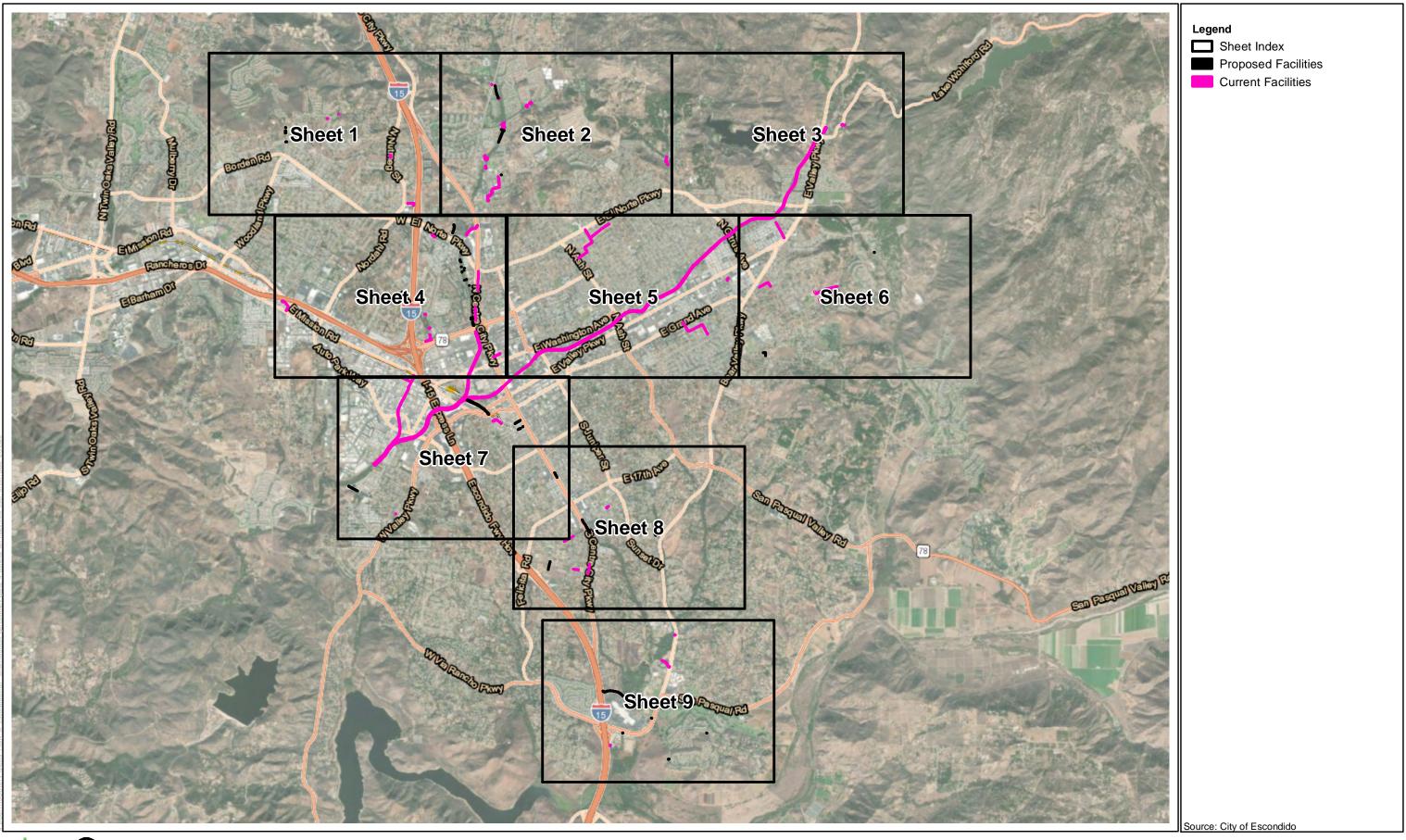
Endangered Species Act

The U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) administer the federal Endangered Species Act (ESA). Enacted in 1973, the ESA provides for the conservation of threatened and endangered species and their ecosystems. Section 9 of the ESA prohibits the take of any fish or wildlife species listed under the ESA as endangered and most species listed as threatened. Take, as defined by the ESA, means "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." Harm is defined as "any act that kills or injures the species, including significant habitat modification." For threatened and endangered plant species, Section 9 prohibits the "removal or reduction to possession" of any listed plant species "under federal jurisdiction" (i.e., on federal land). The ESA includes mechanisms that provide exceptions to the Section 9 take prohibitions. These are addressed in the ESA under Section 7 and 10(a).

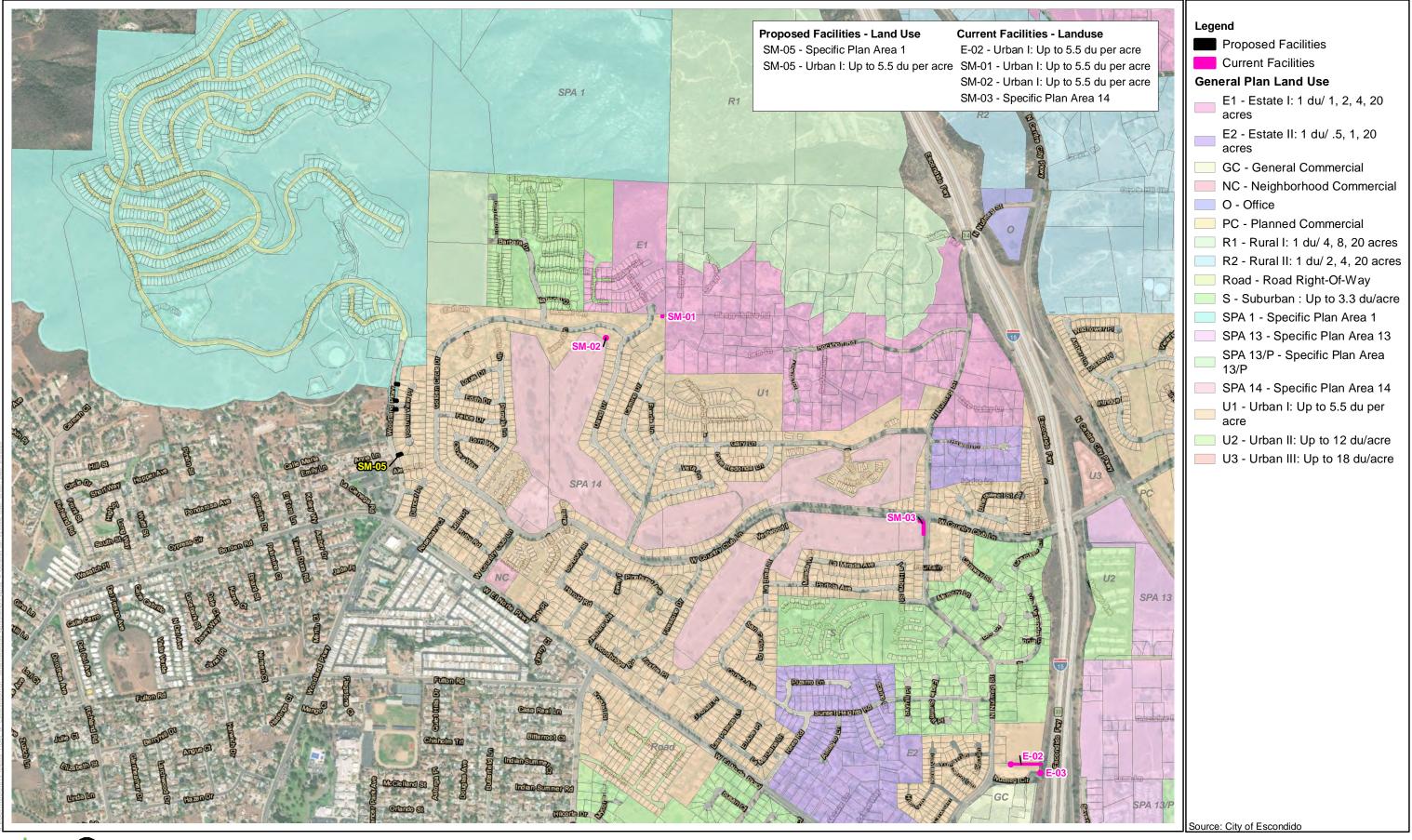
Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) of 1918, as amended, implements various treaties and conventions between the United States and Canada, Japan, Mexico, and the former Soviet Union for the protection of migratory birds. Under the MBTA, taking, killing, or possessing migratory birds is unlawful as is taking of any parts, nests, or eggs of such birds (16 United States Code 703). The definition of taking is different under MBTA from the definition under the ESA and includes only the death or injury of individuals of a migratory bird species or its eggs. Take under the MBTA does not include the concepts of harm and harassment as defined by the ESA. It is also important to note that the MBTA defines migratory birds broadly; most of the bird species documented from the project

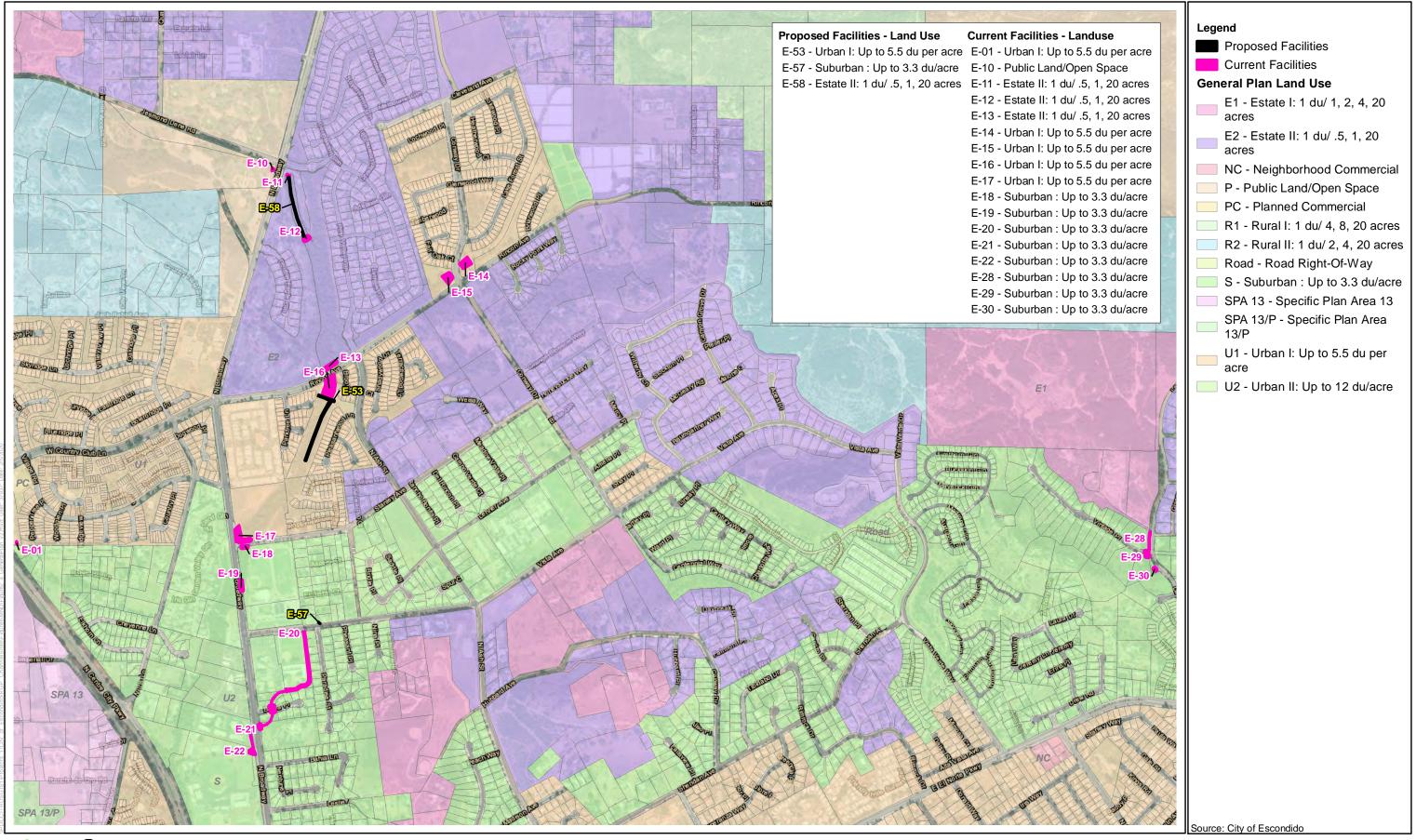
¹ The protection of threatened species under Section 9 is discretionary through a rule issued under Section 4(d) of the ESA. Until a "4(d) rule" is issued by NMFS, threatened anadromous fish or marine species are not protected by the ESA. By regulation, USFWS automatically affords Section 9 protection to threatened species at the time of listing. These protections later can be modified by USFWS through a 4(d) rule.



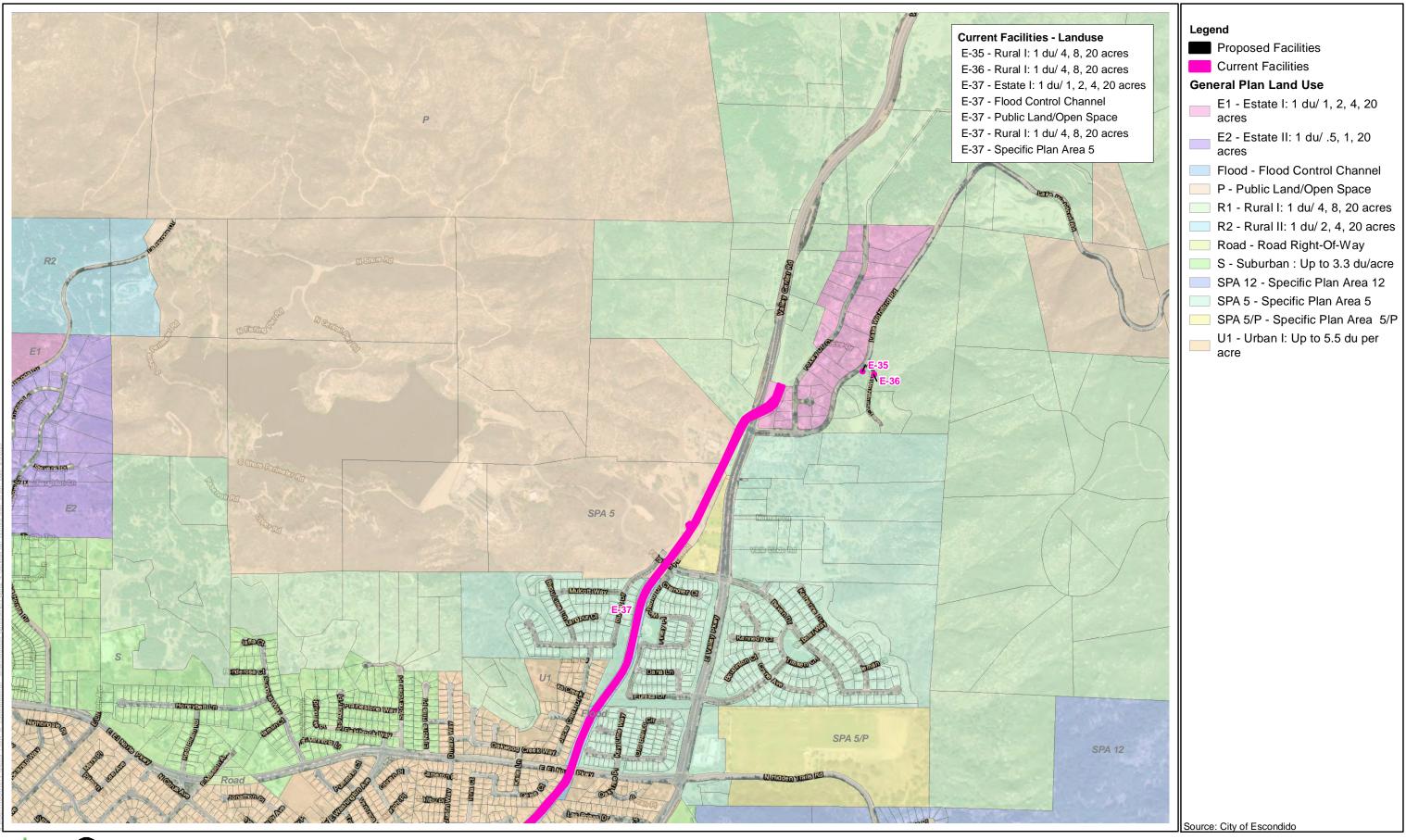




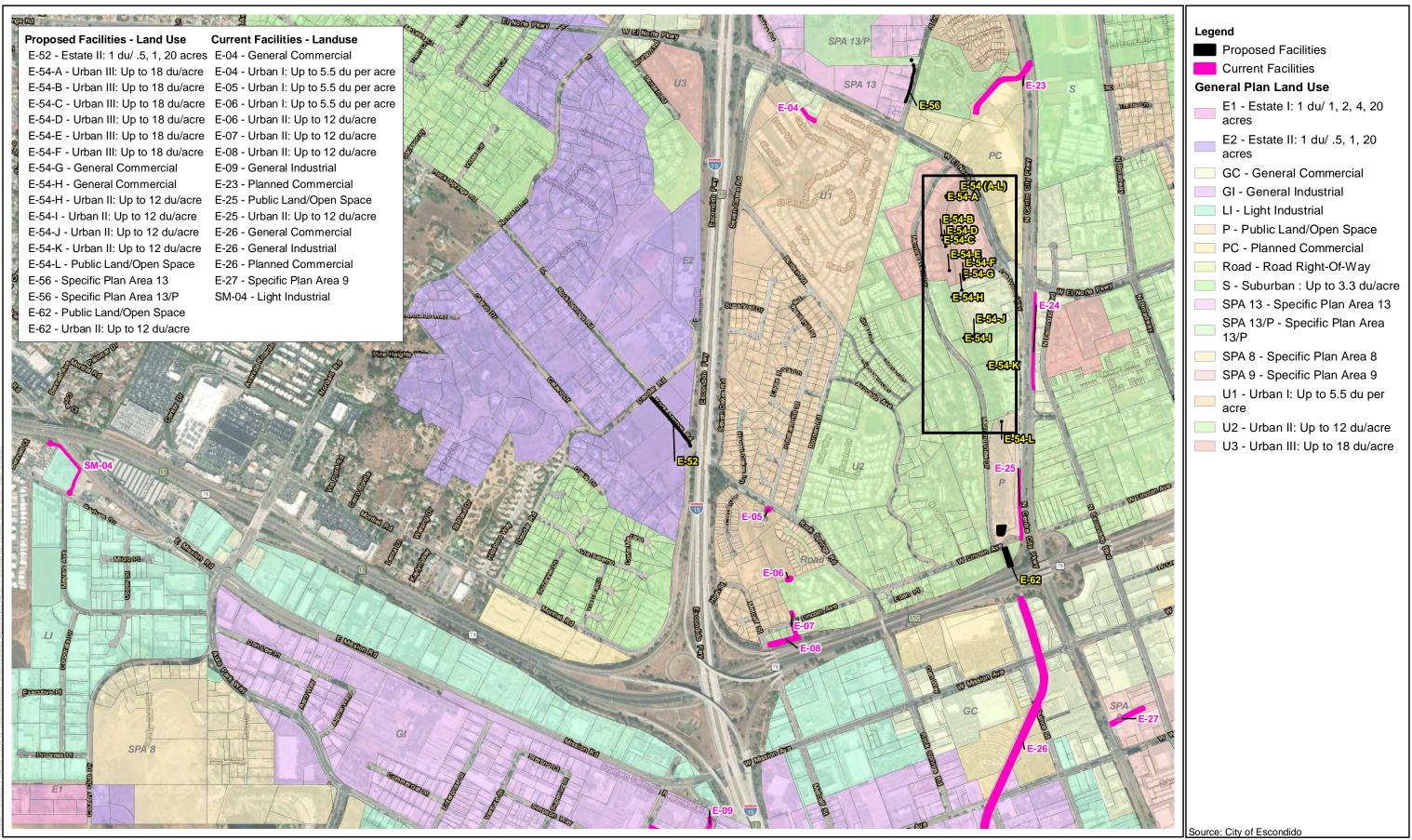






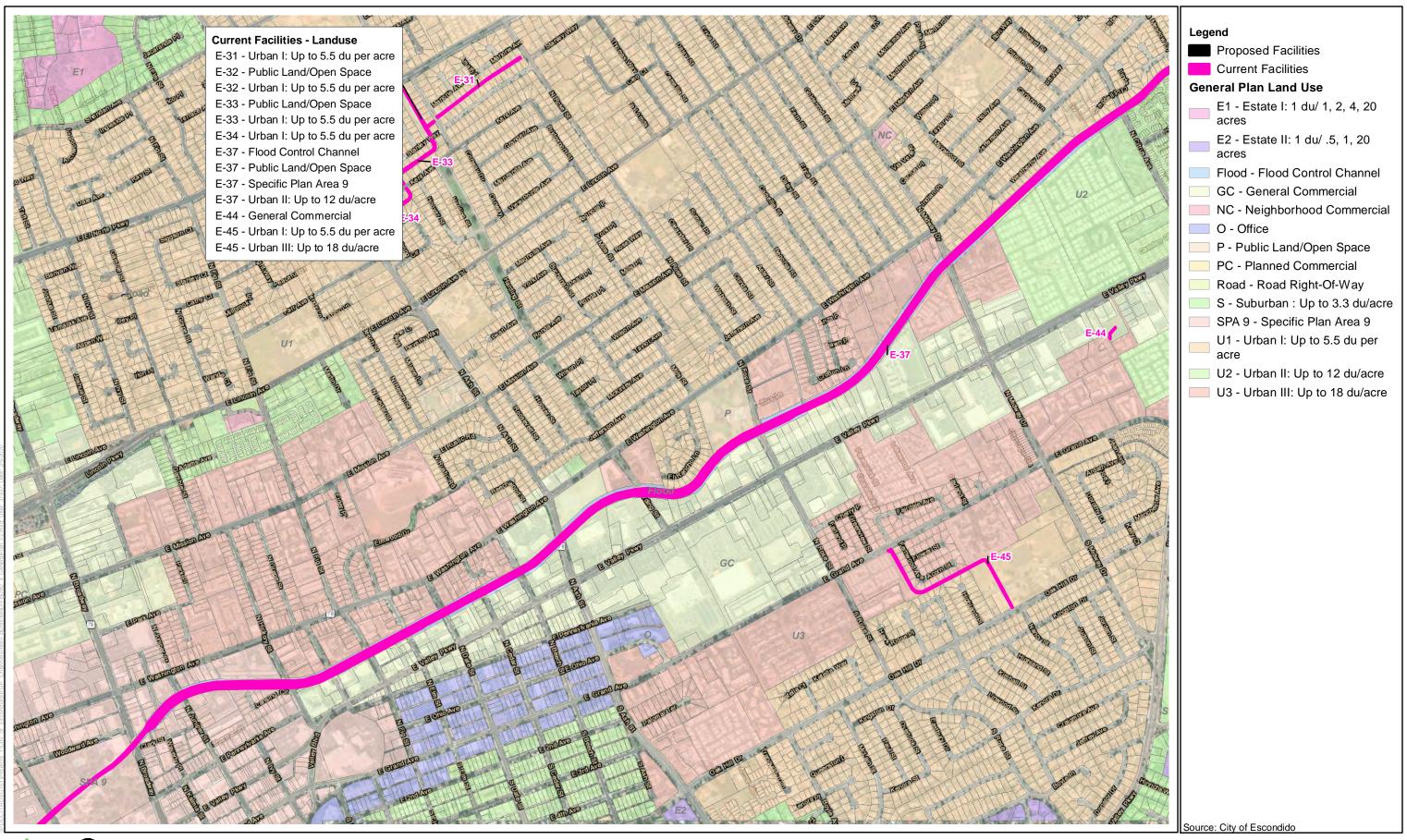




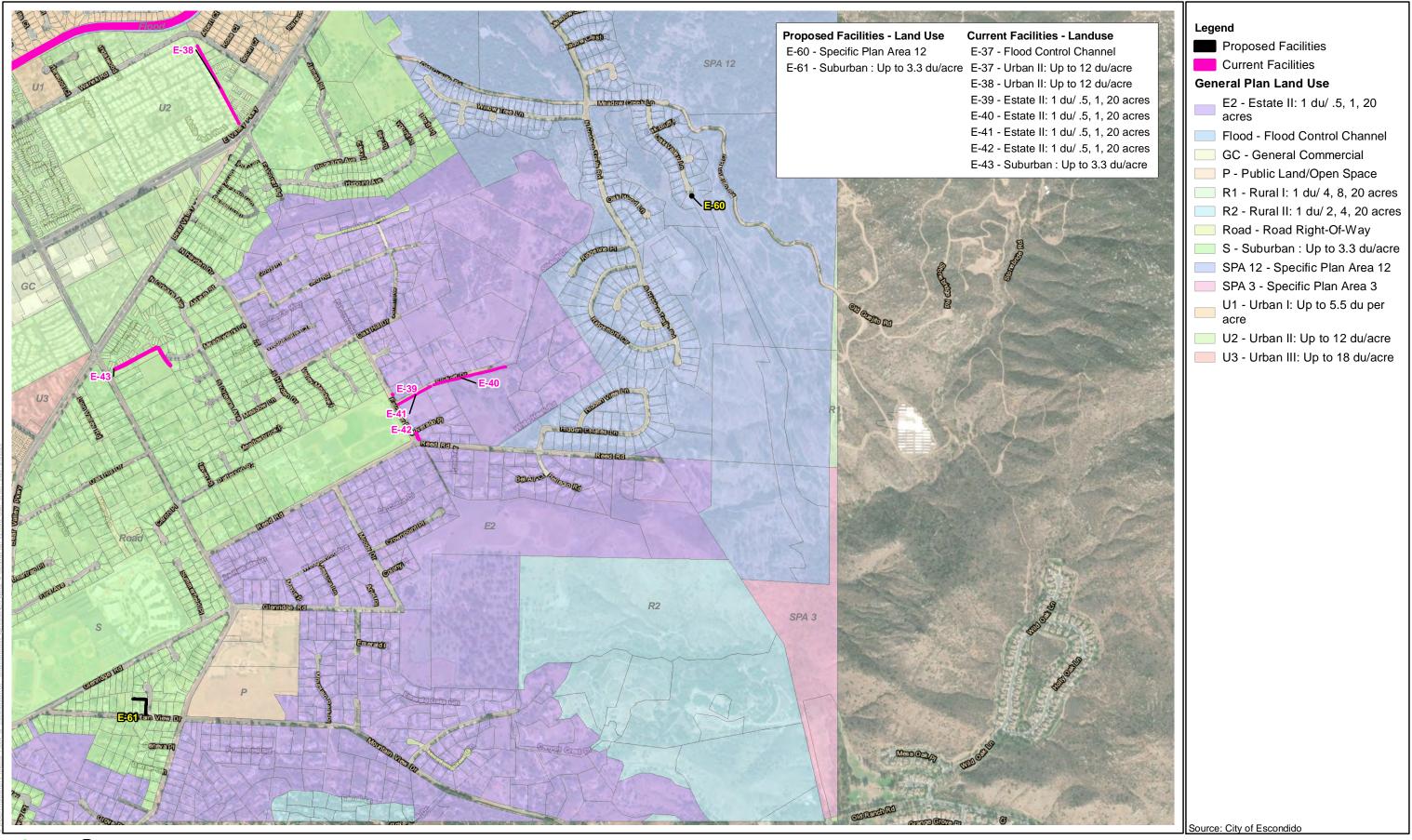




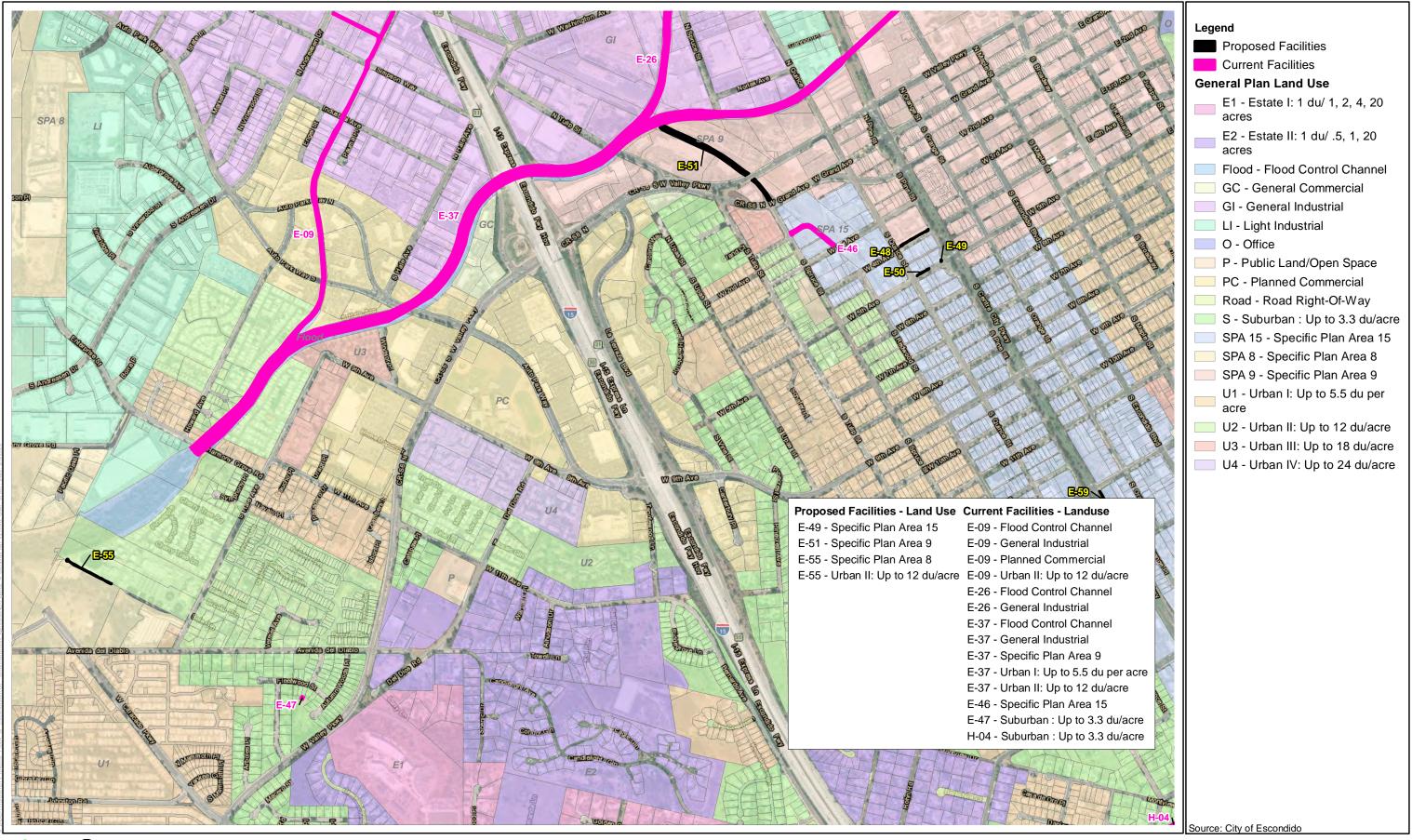




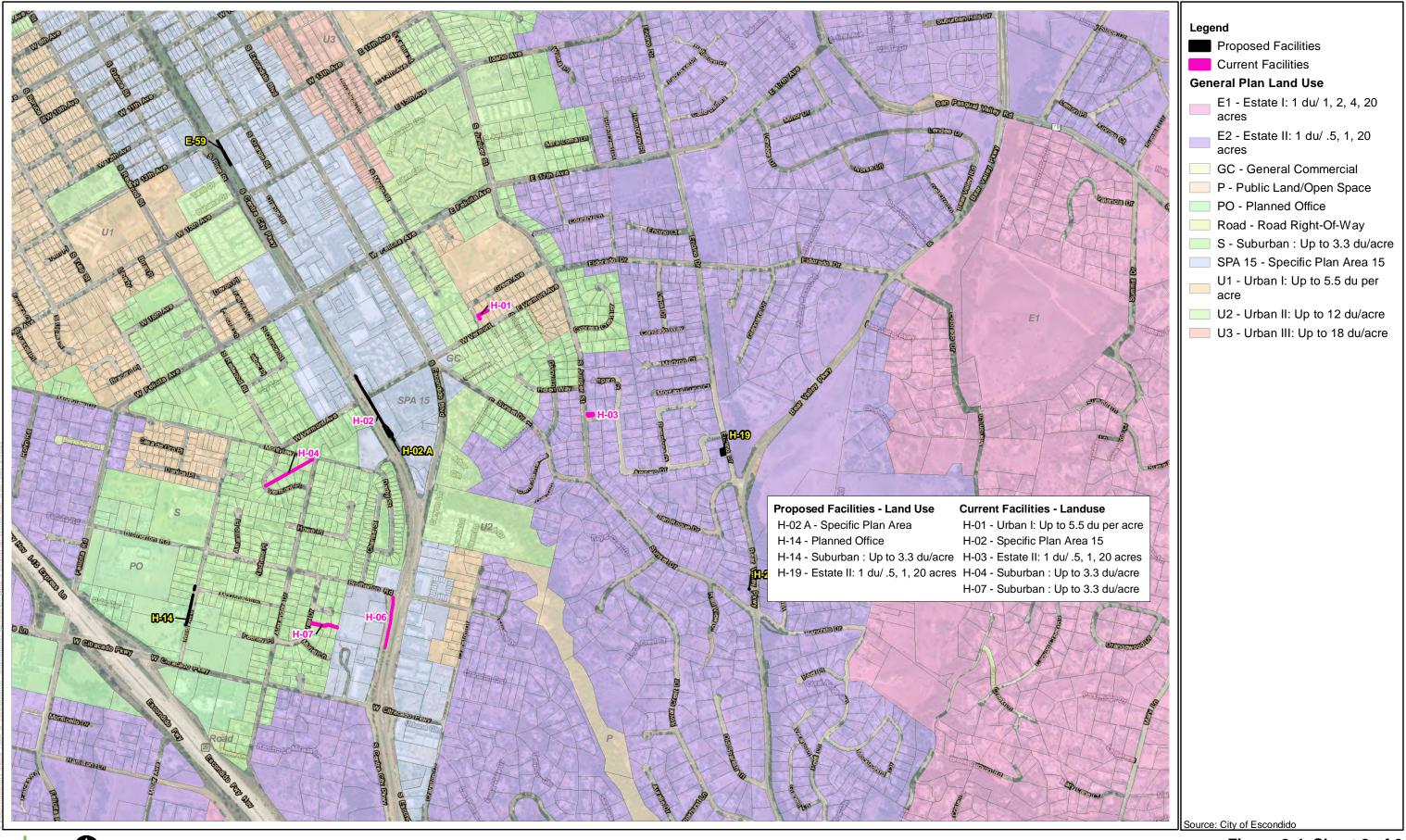




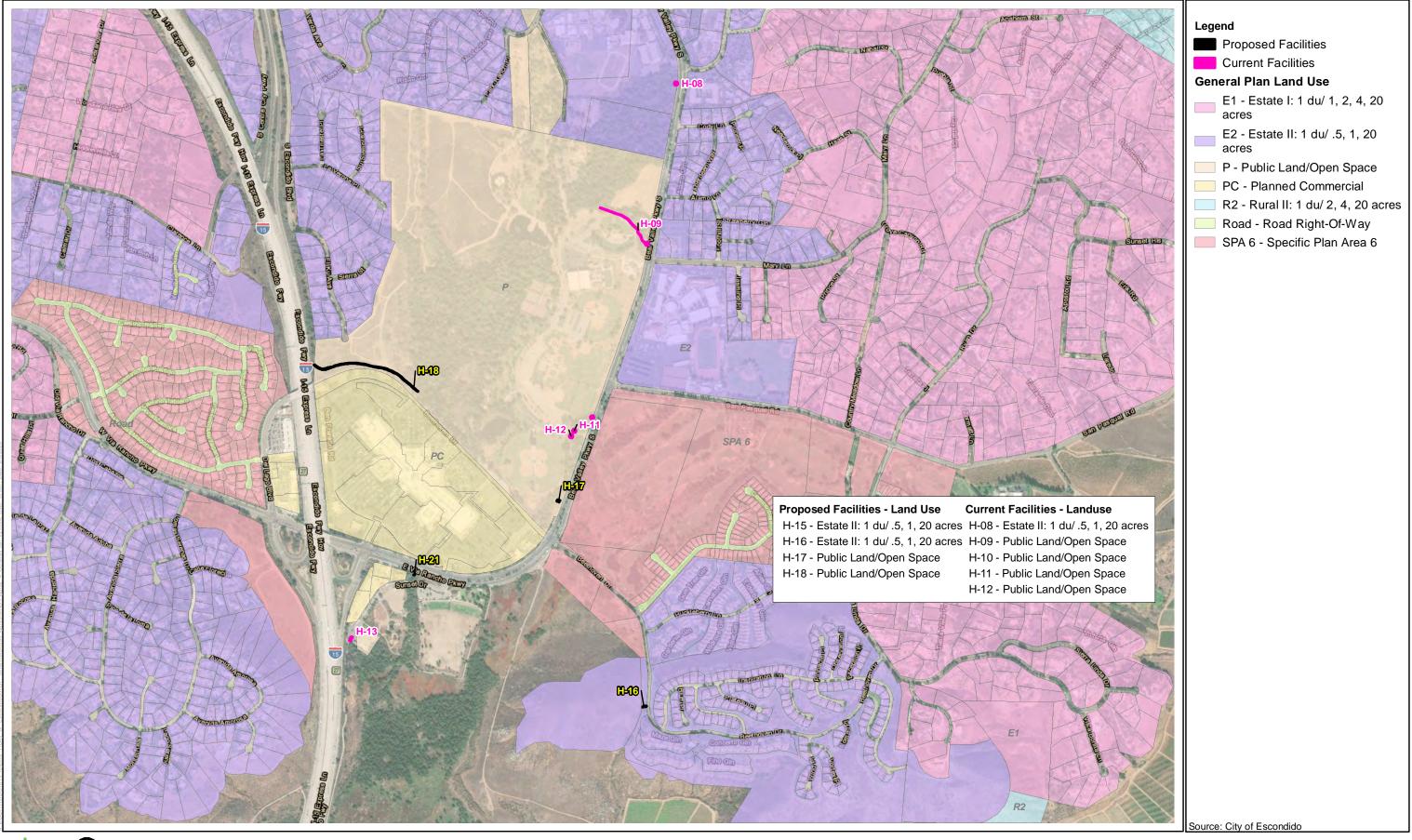














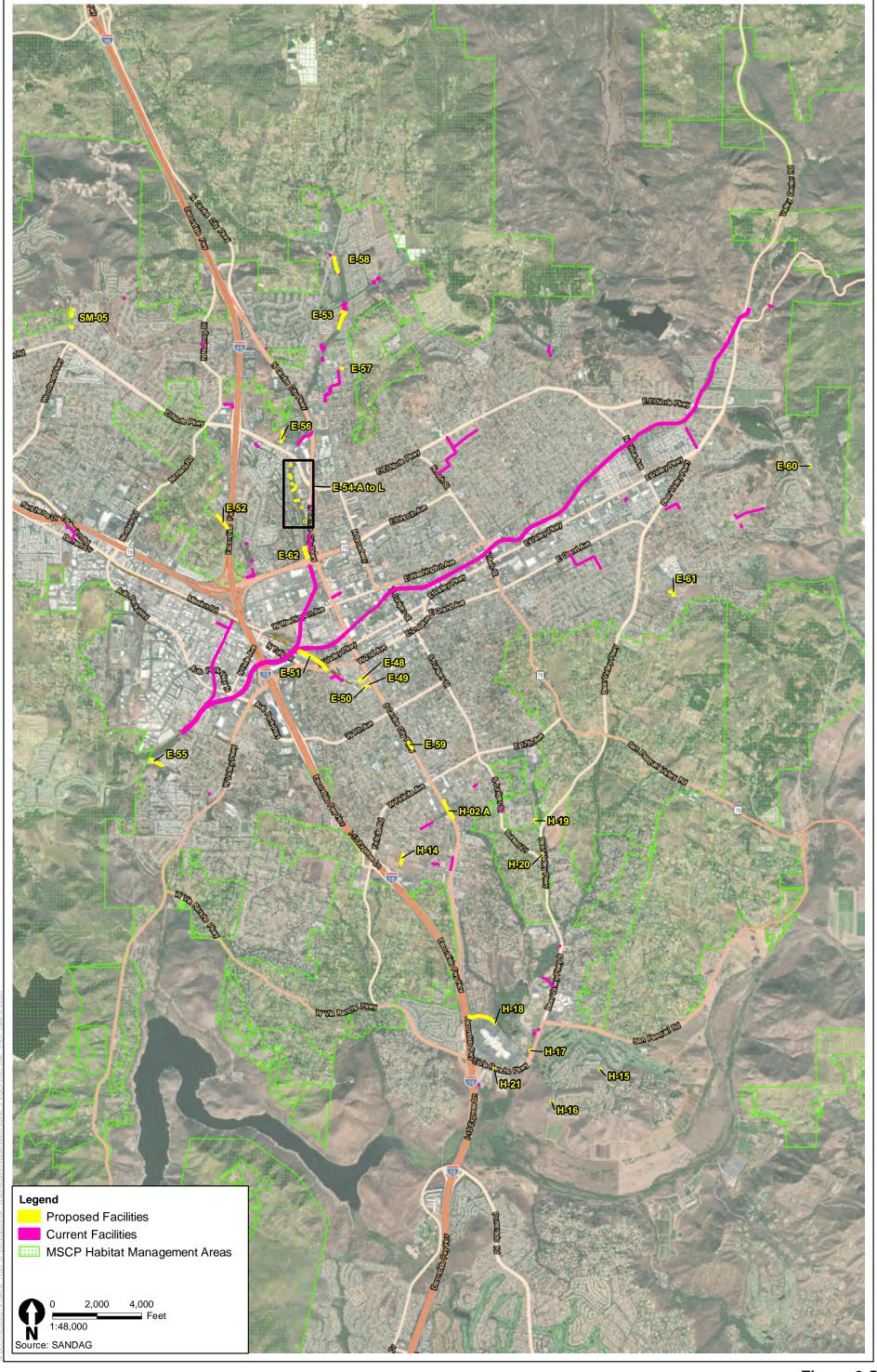


Figure 2-5
MSCP Habitat Management Areas
Escondido RGP 94 Channel Maintenance Project

area are covered by the provisions of the MBTA. No permit is issued under the MBTA; however, the proposed activities would need to comply with measures that would avoid or minimize effects on migratory birds.

National Historic Preservation Act, Title 16 United States Code Sections 431-433

Among the provisions of Section 101 of the National Historic Preservation Act (NHPA), a State Historic Preservation Program was established in each state and a State Historic Preservation Officer (SHPO) was given the responsibility to consult with the appropriate federal agencies in accordance with the NHPA regarding:

- (i) Federal undertakings that may affect historic properties; and
- (ii) the content and sufficiency of any plans developed to protect, manage, or to reduce or mitigate harm to such properties;

Section 106 of the NHPA requires federal agencies to:

take into account the effect of their undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register. The head of any such Federal agency shall afford the Advisory Council on Historic Preservation...a reasonable opportunity to comment with regard to such undertaking.

State Regulations

California Fish and Game Code

The CFGC regulates the taking or possession of birds, mammals, fish, amphibians, and reptiles, as well as natural resources such as wetlands and waters of the State. It includes the California Endangered Species Act (CESA) (Sections 2050–2115) and Streambed Alternation Agreement regulations (Sections 1600–1616). These sections are described further below.

CFGC Sections 1600–1616 – Pursuant to Section 1600 et seq. of the CFGC, CDFW regulates activities of an applicant's project that would substantially alter the flow, bed, channel, or bank of streams or lakes, unless certain conditions outlined by CDFW are met by the applicant. The limits of CDFW jurisdiction are defined in CFGC Section 1600 et seq. as the "bed, channel, or bank of any river, stream², or lake designated by CDFW in which there is at any time an existing fish or wildlife resource or from which these resources derive benefit." However, in practice, CDFW usually extends its jurisdictional limit and assertion to the top of a bank of a stream, the bank of a lake, or outer edge of the riparian vegetation, whichever is wider.

In some cases, drainage ditches and retention ponds⁴ can be potentially considered under the regulatory administration of CDFW. CDFW provides specific guidance concerning its regulatory administration in CCR Title 14 Section 720 (Designation of Waters of Department Interest):

² Title 14 CCR 1.72 defines a stream as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports or has supported riparian vegetation."

³ This also includes the habitat upon which they depend for continued viability (CFGC Division 5, Chapter 1, Section 45, and Division 2, Chapter 1, Section 711.2[a]).

⁴ Title 14 CCR 1.56 defines a lake as a feature that "includes lakes or man-made reservoirs."

For the purpose of implementing Sections 1601 and 1603 of the Fish and Game Code, which requires submission to the department of general plans sufficient to indicate the nature of a project for construction by or on behalf of any person, governmental agency, state or local, and any public utility, of any project which will divert, obstruct, or change the natural flow or bed of any river, stream, or lake designated by the department, or will use material from the streambeds designated by the department, all rivers, streams, lakes, and streambeds in the State of California, including all rivers, streams, and streambeds, *which may have intermittent flows of water*, are hereby designated for such purpose. (Italics added.)

CFGC Sections 2050–2115 – Any proposed impact on state-listed species within or adjacent to the project area would require a permit under CESA. CESA generally parallels the main provisions of the federal ESA and is administered by CDFW. CESA prohibits take of wildlife and plants listed as threatened or endangered by the California Fish and Game Commission. Take is defined under the CFGC as any action or attempt to "hunt, pursue, catch, capture, or kill." Therefore, take under CESA does not include "the taking of habitat alone or the impacts of the taking." Rather, the courts have affirmed that under CESA, "taking involves mortality."

CESA allows exceptions to the take prohibition for take that occurs during otherwise lawful activities. The requirements of an application for incidental take permit under CESA are described in Section 2081 of the CFGC. Incidental take of state-listed species may be authorized if an applicant submits an approved plan that minimizes and "fully mitigates" the impacts of this take. Therefore, any proposed impact on state-listed species within or adjacent to the project area would require an incidental take permit under CESA.

CFGC Section 2080.1 allows an applicant who has obtained a federal incidental take statement as part of a Biological Opinion pursuant to a ESA Section 7 consultation or an incidental take permit under ESA Section 10(a) to notify the CDFW Director in writing that the applicant has been issued an incidental take statement or permit pursuant to the ESA and submit a copy to the CDFW Director. The Director then has 30 days to determine whether the incidental take statement or permit is "consistent" with the CESA in the form of a written "consistency determination." If the Director determines that the incidental take statement or permit is consistent with the CESA, the applicant does not need to obtain separate take authorization from the CDFW in the form of an incidental take permit under CFGC Section 2081(b) and (c). However, consistency determinations apply only in those situations where the affected species is listed under both the ESA and the CESA. If the species is listed under the CESA only, an applicant must obtain an incidental take permit under CFGC 2081(b) and (c).

CFGC Section 3503. Under CFGC Division 4, Part 2, Chapter 1, 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," where "take" is defined under Division 0.5, Chapter 1, Section 86 as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." In addition, the MBTA restricts the killing of migratory birds or destruction of active migratory bird nests and/or eggs.

⁵ Environmental Council of Sacramento v. City of Sacramento, 142 Cal. App. 4th 1018 (2006).

Porter-Cologne Water Quality Act

Pursuant to Section 13000 et seq. of the California Water Code (the 1969 Porter-Cologne Water Quality Control Act), RWQCB is authorized to regulate any activity that would result in discharges of waste or fill material to waters of the State, including "isolated" waters and wetlands (e.g., vernal pools and seeps). Waters of the State include any surface water or groundwater within the boundaries of the state (California Water Code § 13050[e]). RWQCB also adopts and implements water quality control plans (basin plans) that recognize and are designed to maintain the unique characteristics of each region with regard to natural water quality, actual and potential beneficial uses, maintaining water quality, and addressing the water quality problems of that region.

Designated beneficial uses of state waters that may be protected against quality degradation include preservation and enhancement of fish, wildlife, designated biological habitats of special significance, and other aquatic resources or preserves.

City Regulations

Tree Protection Ordinance

City ordinance protects against the removal of historically significant and mature trees within City limits, with a focus on oak tree protection. In Section 33-105 of the Escondido Municipal Code, the City defines protected trees as "any oak (Quercus sp.) which has a ten (10) inch or greater DBH, or any other species or individual specimen listed on the local historic register, or determined to substantially contribute to the historic character of a property or structure listed on the local historic register, pursuant to Article 40 of the Escondido Zoning Code (2001)."

City of Escondido General Plan

A General Plan is a statement of long-range public policy to guide the use of private and public lands within a community's boundaries. The policies within the Plan are intended to become the basis for decisions by elected and appointed officials. The Plan is both general and comprehensive in that it provides broad guidelines for development in the city while addressing a wide range of issues that will affect the city's desirability as a place to live and work. The General Plan represents both an evaluation and vision of the future, typically 15 to 20 years, and beyond. The goals and policies are aimed at guiding growth and development in that direction.

The General Plan is an internally consistent document in that the goals, objectives, policies, principles, and standards present a comprehensive, unified program for development. California planning law requires consistency between the General Plan and its implementation programs—zoning and subdivision ordinances, growth management policies, capital improvements programming, specific plans, environmental review procedures, building and housing codes, and redevelopment plans.

The City of Escondido General Plan was adopted on May 23, 2012.

VII. REGULATORY APPROVALS

The City of Escondido is the lead agency under CEQA and is responsible for permitting the project; USACE, USFWS, RWQCB, CDFW, and have some approval and/or discretionary authority over the

project. The regulatory approvals listed in Table 2-3 would be obtained for the proposed O&M activities.

TABLE 2-3. PERMITS

Resource Agency	Permit Type
U.S. Army Corps of Engineers	Regional General Permit
U.S. Fish and Wildlife Service	Section 7 Informal Consultation
Regional Water Quality Control Board	401 Water Quality Certification
California Department of Fish and Wildlife	Streambed Alteration Agreement

The environmental factors checked below would be potentially affected by this project, involving at

VIII. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages. Aesthetics Agriculture and Forestry Air Quality Resources Cultural Resources Energy ☐ Geology /Soils Greenhouse Gas Emissions Hazards & Hazardous Materials ☐ Land Use / Planning Mineral Resources Quality ☐ Public Services Noise Population / Housing Recreation Transportation ☐ Utilities / Service Wildfire Mandatory Findings of Systems Significance **DETERMINATION:** (To be completed by the Lead Agency) On the basis of this initial evaluation: I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared. I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared. I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required. ☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially... significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached

sheets. An ENVIRONMENTAL IMPAC effects that remain to be addressed.	T REPORT is required, but it must analyze only the
because all potentially significant effect NEGATIVE DECLARATION pursuant to mitigated pursuant to that earlier EIR o	ct could have a significant effect on the environment, ts (a) have been analyzed adequately in an earlier EIR or to applicable standards, and (b) have been avoided or or NEGATIVE DECLARATION, including revisions or upon the proposed project, nothing further is required.
JPaul	October 26, 2020
Signature	Date
Jay Paul, Senior Planner	

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SECTION 3. ENVIRONMENTAL CHECKLIST

I. AESTHETICS

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
	ept as provided in Public Resources Code Section 99, 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 along a scenic highway?				
C.	In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?				
d.	Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?				

Environmental Evaluation

Would the project:

a. Have a substantial adverse effect on a scenic vista?

No Impact. The 2013 MND ENV 12-0001 (2013 MND) found that implementation of the current RGP 94 would not result in substantial adverse impacts on a scenic vista. Similarly, the proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would generally be consistent with the O&M activities that were analyzed in the City's 2013 MND. The proposed project would be contained within the same project vicinity analyzed in the City's 2013 MND and would contain a similar mix of land uses. The proposed project would not construct structures or modify the existing land form in a way that would cause an adverse effect on a scenic vista, and the project does not propose activities that would damage scenic resources or degrade the existing visual character (City of Escondido 2012). Therefore, implementation of the proposed project would not significantly alter the developed character of the sites, and no impacts would occur on any scenic views through and across the project area.

b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings along a scenic highway?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic

buildings along a scenic highway. Similarly, the proposed project would not occur within any state- or county-designated scenic highways (City of Escondido 2012). No activities of the proposed project would damage scenic resources or degrade the existing visual character. The proposed project would not damage any significant scenic resources within a designated state scenic highway or create an aesthetically offensive site open to the public because the site is not located along a state scenic highway. Therefore, the proposed project would not substantially damage scenic resources within a state scenic highway, and no impacts would occur.

c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

No Impact. The City's 2013 MND found that implementation of the current RGP 94 would not propose activities that would damage scenic resources or degrade the existing visual character of the site or the surrounding areas (City of Escondido 2012). Similarly, the proposed project would be consistent with the project activities analyzed in the City's 2013 MND and would not damage scenic resources or degrade the existing visual character of the site or the surrounding areas. Therefore, no impacts would occur from implementation of the proposed project.

d. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?

No Impact. The City's 2013 MND stated that operation and maintenance activities planned for the current RGP 94 are not scheduled to occur at night and would not create a new source of light or glare that would affect daytime or nighttime views of the area. Similarly, the proposed project proposes O&M activities that would not occur at night and thus would not create a new source of light or glare or affect day or nighttime views in the area. Although no impacts are anticipated, compliance with the City's Outdoor Lighting Ordinance would ensure that any impacts related to light and glare resulting from the project would not occur (City of Escondido 2019). Therefore, no impacts would occur from implementation of the proposed project.

II. AGRICULTURAL AND FORESTRY RESOURCES

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
reso age Eva pre as a agr imp sigr refe Dep the and Ass med by t	determining whether impacts on agricultural ources are significant environmental effects, lead encies may refer to the California Agricultural Land aluation and Site Assessment Model (1997) pared by the California Department of Conservation an optional model to use in assessing impacts on iculture and farmland. In determining whether eacts on forest resources, including timberland, are inficant environmental effects, lead agencies may be to information compiled by the California cartment of Forestry and Fire Protection regarding state's inventory of forest land, including the Forest dessement Project, and forest carbon measurement thodology provided in the Forest Protocols adopted the California Air Resources Board. Would the ject:				
a.	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				
b.	Conflict with existing zoning for agricultural use or conflict with a Williamson Act contract?				\boxtimes
c.	Conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?				
d.	Result in the loss of forest land or conversion of forest land to non-forest use?				\boxtimes
е.	Involve other changes in the existing environment that, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?				

Environmental Evaluation

Would the project:

a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No Impact. The 2013 MND found that activities planned for the current RGP 94 would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Important to non-agricultural use.

Similarly, the proposed project would not be located on or adjacent to designated farmland. The proposed project sites are within urban and suburban areas and do not involve changes to the existing environment that would result in conversion of farmland to a nonagricultural use (California Department of Conservation 2016). Therefore, no impacts would occur.

b. Conflict with existing zoning for agricultural use or conflict with a Williamson Act contract?

No Impact. The 2013 MND found that activities planned for the current RGP 94 are routine in nature and would not conflict with existing zoning for agricultural use or conflict with a Williamson Act contract. Similarly, the proposed project would not be located on or adjacent to land under a Williamson Act contract, nor would it occur on land zoned by the City for agricultural use (City of Escondido 2012). Therefore, the proposed project would not conflict with existing zoning for agricultural use or conflict with a Williamson Act contract and no new impacts would occur.

c. Conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not conflict with existing zoning for, or cause rezoning or, forest land or timberland zoned Timberland Production. Similarly, the project would not be located on or adjacent to an area with existing zoning for forestland or timberland zoned Timberland Production (City of Escondido 2012). Therefore, no impacts would occur.

d. Result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in the loss of forest land or conversion of forest land to non-forest use. Similarly, the proposed project would not reduce or convert forest land to non-forest use. The proposed project consists of routine O&M activities and would not result in the loss of forest land and does not propose to convert forest land to a non-forest use (City of Escondido 2012). Therefore, no impacts would occur.

e. Involve other changes in the existing environment that, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not otherwise convert Farmland to non-agricultural use or convert forest land to non-forest land. As discussed above, the proposed project would not be located on or adjacent to land that is designated as farmland or forest land. Furthermore, the proposed project does not involve any other changes to the existing environment that would result in conversion of farmland to non-agricultural use or forest land to non-forest use (California Department of Conservation 2016). Therefore, no impact would occur.

III. AIR QUALITY

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
by t poll	ere available, the significance criteria established the applicable air quality management district or air ution control district may be relied upon to make following determinations. Would the project:				
a.	Conflict with or obstruct implementation of the applicable air quality plan?			\boxtimes	
b.	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard?				
C.	Expose sensitive receptors to substantial pollutant concentrations?				
d.	Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?				

Environmental Evaluation

Would the project:

a. Conflict with or obstruct implementation of the applicable air quality plan?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would not violate any air quality standard or contribute substantially to an existing or projected airquality violation or obstruct implementation of applicable air quality plans.

The proposed project site is in the San Diego Air Basin (SDAB), which is contiguous with San Diego County. The San Diego Air Pollution Control District (SDAPCD) is required, pursuant to the federal and state Clean Air Acts, to reduce emissions of criteria pollutants for which the SDAB is in nonattainment. The SDAB is currently classified as a nonattainment area for the federal 8-hour ozone (O3) standard (2008 standard of 0.075 part per million [ppm]) and a maintenance area for both the old (1997 standard of 0.08 ppm) 8-hour O3 standard and the federal carbon monoxide (CO) standard. The USEPA lowered the federal 8-hour O3 standard to 0.070 ppm effective October 2015, but demonstration of attainment of this new standard will not be required until after the California Air Resources Board (CARB) makes its final area attainment designations. In addition, the SDAB is classified as a nonattainment area for the state O3, particulate matter less than 2.5 microns (PM2.5), and particulate matter less than 10 microns (PM10) standards (U.S. Environmental Protection Agency 2020, California Air Resources Board 2016).

All areas designated as nonattainment are required to prepare plans showing how the area would meet the state and federal air quality standards by its attainment dates. The SDAPCD's adopted air quality plan is the San Diego Regional Air Quality Strategy (RAQS), which was last updated in 2016. The RAQS outlines SDAPCD's plans and control measures designed to attain the federal and state air-quality standards. The RAQS relies on mobile source emission projections from CARB and growth projections from the San Diego Association of Governments (SANDAG) to project future

emissions and determine appropriate emissions reduction strategies. In turn, the CARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends and land use plans developed by the region's cities and by the County of San Diego, which includes local general plans. Generally, projects that propose development that are consistent with the land use designations and growth anticipated by the local general plan and SANDAG are consistent with the RAQS.

The proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would involve similar O&M activities that are currently being performed under the existing (2015) RGP 94, including excavation of accumulated sediment and herbaceous vegetation, excavation and clearing of culverts, removal of nonnative trees, and trimming of native shrub and tree cover, as well as additional work activities such as one-time native tree removal to gain access and/or allow for positive flows to occur at specific facility locations and the repair of existing hardscaped facilities. The proposed project would allow for these O&M activities to occur on 24 new maintenance facility locations in addition to the existing 63 facilities and would also expand a current facility location that is already included in the existing RGP. The proposed project would not change land uses, increase population, or result in a substantial increase in motor vehicle trips in the project area. As such, the proposed project would not affect the local general plan and SANDAG's growth projections that were used in the development of the RAQS. Therefore, the proposed project would be considered consistent at a regional level with the RAQS. Additionally, while the proposed project's O&M activities would generate pollutant emissions, these emissions would not exceed the City's criteria pollutant thresholds (discussed below under Threshold III.b). Furthermore, the proposed project's O&M activities would be required to comply with SDAPCD rules that have been implemented to reduce regional particulate matter and ozone emissions—Rule 50 (Visible Emissions), Rule 51 (Nuisance), Rule 52 (Particulate Matter), Rule 54 (Dust and Fumes), and Rule 55 (Fugitive Dust Control). Overall, emissions generated by the proposed project are not expected to impede attainment or maintenance of the state and federal air quality standards. Therefore, similar to the current RGP 94 and findings of the 2013 MND, the proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would not conflict with or obstruct the implementation of any applicable air quality plan, and this impact would be less than significant.

b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard?

Less-than-Significant Impact. The 2013 MND found that under a worst-case scenario, maximum daily emissions generated during implementation of the current RGP 94 would not exceed the City of Escondido's significance thresholds for criteria pollutants. As a result it was concluded that the project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation, nor result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard.

As discussed above, the proposed project would involve similar O&M activities as the current RGP, which was analyzed in the 2013 MND, along with additional work activities that involve one-time native tree removal at specific facility locations and the repair of existing hardscaped facilities. Like the current RGP 94, maintenance activities associated with the proposed project would generate emissions of reactive organic gases (ROG), nitrogen oxides (NO_X), PM2.5, PM10, carbon monoxide (CO), and sulfur dioxide (SO₂). Exhaust emissions would originate from use of offroad equipment including tractor/loader/backhoes, excavators, and skid steer loaders; mechanical hand tools including chainsaws and trimmers; use of water trucks onsite; employee vehicle trips; and haul and

vendor truck trips. Fugitive dust emissions would also result from earth movement and ground disturbance at facility sites. Emissions were estimated using a combination of emission factors and methodologies published and recommended by CARB and other agencies, including the California Emissions Estimator Model (CalEEMod), version 2016.3.2 (Trinity Consultants 2017), CARB's EMFAC2017 model (CARB 2018), and *EPA's AP-42 Compilation of Air Pollutant Emission Factors* (USEPA 2011). Construction data for the proposed project (e.g., schedule, equipment types and numbers, and truck trips) is based on a combination of information provided by the project applicant and model defaults.

Maximum peak daily emissions generated by the proposed project's O&M activities were estimated assuming all new daily maintenance activities would be occurring in addition to the existing daily maintenance activities occurring under the current RGP 94. Emissions are summarized in Table 3-1 according to activity type and compared to the City of Escondido's significance thresholds. Please refer to Appendix B for model outputs.

TABLE 3-1. ESTIMATED MAXIMUM DAILY CRITERIA POLLUTANT EMISSIONS BY SOURCE (POUNDS PER DAY)

Source	ROG	NOx	СО	SOx	PM10	PM2.5
Offroad Equipment	42	50	223	<1	2	2
Mobile	<1	4	1	<1	<1	<1
Grading	0	0	0	0	1	<1
Total	42	54	224	0	3	2
Threshold	75	250	550	250	100	55
Exceed Threshold?	No	No	No	No	No	No

Source: Appendix B

As show in Table 3-1, estimated maximum daily emissions would not exceed the City of Escondido's significance thresholds for any criteria pollutant. Consequently, similar to the current RGP 94 and findings of the 2013 MND, the proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation, nor result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard. Therefore, the impact would be less than significant.

c. Expose sensitive receptors to substantial pollutant concentrations?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would not expose sensitive receptors to substantial pollutant concentrations, including toxic air contaminants (TAC) such as diesel particulate matter (DPM), and CO. Similar to the current RGP 94, the proposed project would not expose sensitive receptors to substantial pollutant concentrations.

1. Diesel Particulate Matter

DPM, which is classified as a carcinogenic TAC by CARB, is the primary exhaust pollutant of concern with regard to health risks to sensitive receptors. Diesel-powered construction equipment as well as heavy-duty truck movement and hauling both on and off site would emit DPM that could potentially expose nearby sensitive receptors to pollutant concentrations.

Sensitive receptors are facilities and structures where people live or spend considerable amounts of time, and include retirement homes, residences, schools, playgrounds, childcare centers, and athletic facilities. As previously mentioned in the 2013 MND, DPM is highly dispersive, and studies have shown that measured concentrations of vehicle-related pollutants, including ultra-fine particles, decrease dramatically within approximately 300 feet of the source. The proposed project would not be active within 300 feet of any sensitive receptors for any substantial length of time, given that O&M activities would be occurring at 87 total maintenance facility sites throughout the City of Escondido. Most maintenance activities at each facility site would take 2 to 5 days to complete, while some sites would require work that could last up to 45 days. However, this time period would be significantly lower than the 70-year exposure period typically associated with chronic cancer health risks. Accordingly, implementation of the project would not result in an elevated cancer risk to exposed sensitive receptors. Therefore, emissions would be minimal, and compliance with all SDAPCD rules would ensure that nearby sensitive receptors would not be exposed to substantial pollutant concentrations. As such, similar to the current RGP 94 and findings of the 2013 MND, impacts related to the emissions of TACs from implementation of the proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would be less than significant.

2. Carbon Monoxide Hotspots

A CO hot spot is a localized concentration of CO that is above the state or national 1-hour or 8-hour ambient air standards for the pollutant, and generally occur at locations with high traffic volumes and congestion. Projects that do not generate CO concentrations in excess of the state's health-based standard would not contribute a significant level of CO such that localized air quality and human health would be substantially degraded. Similar to the current RGP 94, the proposed project would not increase traffic volumes resulting in congestion on local streets and intersections, would not result in a substantial increase in the number of vehicles operating in cold start mode, or substantially increase the number of vehicles on local roadways. As shown in Table 3-1 above, CO emissions from mobile sources associated with the proposed project would only be approximately 1 pound per day, which is minimal and would not expose sensitive receptors to substantial pollutant concentrations. Therefore, similar to the current RGP 94 and findings of the 2013 MND, impacts related to sensitive receptor exposure to substantial CO concentrations would be less than significant.

3. Criteria Air Pollutants

All criteria pollutants that would be generated by the proposed project are associated with some form of health risk (e.g., asthma, lower respiratory problems). However, air quality districts have developed region-specific CEQA thresholds of significance for criteria pollutants in consideration of existing air quality concentrations and attainment designations under the state and federal air quality standards. This applies to the City's criteria pollutant thresholds presented in Table 3-1 above, which were developed based on the County of San Diego and South Coast Air Quality Management District (SCAQMD) thresholds. The state and federal air quality standards are informed by a wide range of scientific evidence that demonstrates there are known safe concentrations of criteria pollutants. As such, local air quality districts with established criteria pollutant thresholds consider projects that generate criteria pollutant and ozone precursor emissions below their thresholds to be minor in nature and would not adversely affect air quality such that the health-protective state and federal air quality standards would be exceeded. As shown in Table 3-1, implementation of the proposed project would not exceed significance thresholds for any criteria pollutant, which is also the finding in the 2013 MND. Therefore, the proposed project is not expected to contribute to a

significant level of air pollution within the SDAB, and impacts related to adverse health effects induced by criteria pollutant emissions would be less than significant.

d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would not result in a significant impact related to other emissions, such as those leading to odors, that would adversely affect a substantial number of people. Similar to the current RGP 94, potential odor emitters during operation and maintenance of the proposed project would result from exhaust from vehicles and offroad equipment. However, odor impacts would be limited to the circulation routes, parking areas, and areas immediately adjacent to the project site, and would not exceed existing odor conditions. Although such brief exhaust odors may be considered unpleasant, they would not affect a substantial number of people. Similar to the current RGP 94, odor-related impacts as a result of implementation of the proposed RGP 94 Channel Maintenance Program Implementation & Renewal Project would be less than significant.

IV. BIOLOGICAL RESOURCES

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould 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 U.S. Fish and Wildlife Service?				
b.	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				
C.	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marshes, vernal pools, 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?				

Background

The following section is based on the results of environmental surveys and analysis of the newly proposed 24 maintenance facilities and one expanded current facility location conducted by ICF in 2019 and described in the City of Escondido Regional General Permit 94 – Biological Resources Memorandum dated March 2020 and prepared by ICF (Appendix C). Environmental surveys included general biological surveys, vegetation mapping, and a formal jurisdictional delineation of potential waters of the U.S. and State and CDFW jurisdictional waters within the maintenance footprint and a 100-foot survey buffer for each facility location (survey area). ICF biologists incorporated the following datasets into their analysis:

 California Department of Fish and Wildlife (CDFW) Natural Diversity Database (CNDDB) (CDFW 2019)

- National Wetlands Inventory (NWI) Wetlands Mapper (USFWS 2019)
- U.S. Department of Agriculture (USDA)/Natural Resource Conservation Service (NRCS) Web Soil Survey (NRCS 2012)

In addition, this section summarizes the results and findings of environmental surveys and analysis previously conducted for the 63 existing maintenance facilities. This information can be found in full in the 2013 MND ENV 12-0001 (2013 MND) and the 2014 Addendum ENV 12-0001 (2014 Addendum).

Existing Conditions

Natural Communities and Other Land Covers

The 2013 MND documented 16 vegetation communities/land cover types that occur within the existing 63 facilities. ICF biologists conducted vegetation mapping of the newly proposed 24 facilities and one expanded current facility location during the winter, spring, and fall of 2019, resulting in the detection of three additional vegetation communities not previously described in the 2013 MND. These vegetation communities include disturbed southern cottonwood-willow riparian forest, non-native woodland, and southern coast live oak riparian forest, which are described below. Refer to Table 3.2 below for a list of all vegetation communities/land cover types documented within the survey areas.

Disturbed Southern Cottonwood-Willow Riparian Forest

Disturbed southern cottonwood-willow riparian forest occurs along Reidy Creek and is due to the sparse canopy of native trees and the abundance of Mexican fan palms (*Washingtonia robusta*). Within the survey area, this is one of the dominate vegetation communities within facility locations E-51 and E-54.

Non-native Woodland

This habitat consists of a composition of planted, nonnative tree species, such as pepper trees (*Schinus* spp.), tamarisk (*Tamarix* spp.) and Eucalyptus spp. Within the survey area, this vegetation community occurs within facility locations E-51, E-53, E-54, H-02, and H-17, which occur near roadsides and within ornamental plantings associated with urban developments.

Southern Coast Live Oak Riparian Woodland

This riparian habitat type is dominated by coast live oak (*Quercus agrifolia*), and it often has a richer understory of herbs while poorer in shrubs when compared to other riparian communities. Within the survey area, this vegetation community occurs within facility location SM-05, which occurs adjacent to open space.

Table 3-2 depicts the comparison of habitat types occurring within the 24 newly proposed maintenance sites and the 63 existing maintenance sites. Vegetation communities are classified according to the Holland Classification System, as modified for San Diego County by Oberbauer et al. (2008).

Vegetation communities and other land cover types classified as "sensitive" within this MND were determined by applying the following regulatory context. Guidance for determining sensitive vegetation communities is provided by the resource agencies—including CDFW and the California Native Plant Society (CNPS)—as well as supporting documentation such as the CNDDB. These

federal, state, and local agencies and related publications are typically in concurrence on the classification of sensitive vegetation communities and other land cover types. For example, vegetation communities or other cover types that are considered potential jurisdictional waters of the U.S. and State or CDFW jurisdictional waters typically result in the vegetation community or nonvegetated area being considered sensitive. For the proposed project, these waters are regulated by Sections 401 and 404 of the CWA, Sections 1600 et seq. of the CFGC, and the Porter-Cologne Water Quality Control Act. In addition, vegetation communities are considered sensitive if identified as warranting mitigation in the City's Draft Subarea Plan. Biologically, the vegetation communities that provide the highest habitat values within the project area are the structurally diverse riparian communities.

<u>Potential Jurisdictional Waters of the U.S. and State and CDFW Jurisdictional</u> Waters

All 87 maintenance facilities (63 existing and 24 newly proposed) occur in and adjacent to native, naturalized, and developed channels, varying in size, shape, habitat composition, and habitat quality. These ecologically heterogeneous locations share a common ecological context, in that they each convey storm water and other runoff through the city and are connected to larger creeks and waterways (Reidy Creek, Escondido Creek, San Marcos Creek, or the San Dieguito River depending on the facility location), which eventually flow to the Pacific Ocean. Based on this hydrologic and ecologic context, the RGP maintenance facilities are considered to be located within potential jurisdictional waters and are protected by federal, state, and local regulations.

The project study area is encompassed by three Hydrologic Areas (HAs) within three Hydrologic Units (HUs): (1) Carlsbad HU, Escondido Creek HA (RWQCB Basin 904.62, USACE HUC 18070303); (2) Carlsbad HU, San Marcos HA (RWQCB Basin 904.51, USACE HUC 18070303); (3) San Dieguito HU, Hodges HA (RWQCB Basin 905.21, USACE HUC 18070304); and San Dieguito HU, San Pasqual HA (RWQCB Basin 905.21, USACE HUC 18070304). The San Pasqual HA is an additional HA that was not included in the 63 existing maintenance facilities.

Of the 24 newly proposed maintenance facilities, 13 facilities or (54 percent) occur in the Escondido Creek HA, with 9 facilities (38 percent) occurring in the Hodges HA, one facility (4 percent) occurring in the San Marcos HA and one facility occurring in the San Pasqual HA (4 percent). Facilities within the Escondido Creek HA are hydrologically connected to the Pacific Ocean via Escondido Creek, facilities within the San Marcos HA are hydrologically connected to the Pacific Ocean via San Marcos Creek, and facilities within the San Dieguito HU are hydrologically connected to the Pacific Ocean via the San Dieguito River. Hydrology is further discussed under Threshold IV.c below. Biologists conducted a formal jurisdictional delineation for potential waters of the U.S. and State and CDFW jurisdictional waters of the 24 newly proposed maintenance sites in 2019 (Appendix C). Biologists had access to the project survey area to sample vegetation, soils, and hydrology in support of the formal jurisdictional delineation for waters of the U.S. and State and CDFW jurisdictional waters. The presence of wetlands and other waters was assessed based on pre-field surveys and ambient site conditions, along with the formal delineation of wetland and nonwetland waters pursuant to the guidance and criteria outlined in and in accordance with the following:

- 33 Code of Federal Regulations 328 (Definition of Waters of the United States)
- Regulatory Guidance Letters (RGL) 07-02, 88-06, and 05-05
- Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987) (1987 Manual)

•	Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region
	(Version 2.0) (Environmental Laboratory 2008) (2008 Supplement)

•	A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West
	Region of the Western United States: A Delineation Manual (USACE 2008)

TABLE 3-2. VEGETATION COMMUNITIES AND OTHER COVER TYPES OCCURRING WITHIN THE PROJECT STUDY AREA

	New Proposed 24 Sites			Existing 63 Sites			
Vegetation Communities and Land Cover Types	Within Facility Location	Within 100-Foot Buffer	Total	Within Facility Location	Within 100-Foot Buffer	Total	Grand Total
Riparian and Wetlands							
Southern Arroyo Willow Riparian Forest*	0.02	2.08	2.10	0.33	5.94	6.27	8.37
Southern Cottonwood-Willow Riparian Forest*	2.1	4.69	6.79	0.43	5.06	5.49	12.28
Disturbed Southern Cottonwood-Willow Riparian Forest*	6.83	0.13	6.96				6.96
Emergent Wetland*		0.4	0.40	< 0.01	< 0.01	0.01	0.41
Coastal and Valley Freshwater Marsh*	0.81	0.11	0.92	0.20	0.57	0.77	1.69
Mulefat Scrub*		0.14	0.14	< 0.01	0.21	0.21	0.35
Southern Riparian Scrub*	0.03	0.85	0.88	0.01	0.45	0.46	1.34
Southern Willow Scrub*	0.09	0.87	0.96	< 0.01	0.12	0.13	1.09
Open Water	0.04	0.27	0.31	1.23	0.19	1.42	1.73
Unvegetated Channel	0.34	0.05	0.39	0.08	0.09	0.17	0.56
Total Riparian and Wetlands	10.26	9.59	19.85	3.43	13.69	17.12	36.97
Uplands							
Coast Live Oak Woodland*		0.79	0.79		0.21	0.21	1
Southern Coast Live Oak Riparian Forest*	0.03	0.25	0.28				0.28
Diegan Coastal Sage Scrub*	<0.01	3.01	3.01		1.06	1.06	4.07
Eucalyptus Woodland *	0.04	1.923	1.963	0.03	0.60	0.63	2.593
Non-native Woodland	1.142	2.64	3.782				3.782
Non-native Grassland *	3.842	9.888	13.73	< 0.01	1.67	1.67	15.4
Total Uplands	5.054	18.501	23.555	0.03	3.92	3.95	27.505

	New Proposed 24 Sites		Ex				
Vegetation Communities and Land Cover Types	Within Facility Location	Within 100-Foot Buffer	Total	Within Facility Location	Within 100-Foot Buffer	Total	Grand Total
Other Land Cover Types							
Disturbed Habitat	0.06	3.33	3.39	0.54	7.98	8.52	11.9
Urban / Developed	1.22	56.77	57.99	71.94	310.21	382.14	440.13
Total Other Land Cover Types	1.28	60.1	61.28	72.48	318.18	390.66	451.94
Grand Total	16.6	88.191	104.8	75.94	335.79	411.73	516.53

^{*} Denotes sensitive vegetation community.

¹ All acreages rounded to two decimal places after summation.

² Based on AECOM (2012) and ICF (2020) survey results.

A total of 13.15 acres of waters of the U.S. and State and 16.42 acres of CDFW riparian and/or streambed occur within the newly proposed facility locations (Table 3-3). These jurisdictional waters occur within the Carlsbad and San Dieguito watersheds. Representative OHWM data forms were completed for each type of jurisdictional water (i.e. concrete-lined, roadside drainage, and natural drainage) and not completed for each facility location.

TABLE 3-3. POTENTIAL JURISDICTIONAL WATERS OF THE U.S. AND STATE AND CDFW WATERS OCCURRING WITHIN THE PROJECT SURVEY AREA

	Waters of	CDFW Waters				
RGP Maintenance Facilities	Nonwetland (acres)	Wetland (acres)	Total	Streambed (acres)	Riparian (acres)	Total
Newly Proposed 24	1.09	12.06	13.15	1.39	15.03	16.42
Existing 63	70.75	0.91	71.66	2.23	0.29	2.52
Total	71.84	12.97	84.81	3.62	15.32	18.94

¹ All acreages rounded to two decimal places after summation.

Special-Status Species

Species are given special consideration by resource agencies such as USFWS and CDFW due to limited distribution (i.e., rarity), local significance, and/or the threat of extinction by human activities. Special-status species are those protected under the federal ESA, CESA, and/or listed as sensitive by other state and local organizations or agencies such as the CNPS. For purposes of this analysis, a special-status species is broadly defined as a candidate, sensitive, or other species covered by local or regional plans, policies, or regulations, or by CDFW or USFWS.

The 2013 MND determined 40 special-status plant and animal species are known to occur within 1 mile of the existing 63 maintenance facilities. Of these 40 species, 21 special-status species were observed or determined to have a potential to occur within 100 feet of one or more of the existing maintenance facilities. A complete list of special-status plant and animal species documented in CNDDB within 1 mile of the existing 63 maintenance facilities is provided in Appendix C of the 2013 MND.

Based on the results of field surveys of the newly proposed 24 maintenance facilities and a revised search of the CNDDB (CDFW 2019), 11 additional special-status plant and animal species are known to occur within 1 mile of the project survey area: San Diego button-celery (*Eryngium aristulatum* var. *parishii*), decumbent goldenbush (*Isocoma menziesii* var. *decumbens*), spreading navarretia (*Navarretia fossalis*), southern California legless lizard (*Aniella stebbinsi*), coast horned lizard (*Phrynosoma blainvillii*), Coronado skink (*Plestiodon skiltonianus interparietalis*) tricolored blackbird (*Agelaius tricolor*), Swainson's hawk (*Buteo swainsoni*), western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), California black rail (*Laterallus jamaicensis coturniculus*), and Townsend's big-eared bat (*Corynorhinus townsendii*). None of these additional special-status species have been determined to have a high potential to occur within any of the newly proposed 24 maintenance facilities.

Three special-status plant and animal species that were previously determined to have a potential to occur within the existing 63 maintenance facility locations were also determined to have a potential

to occur within one or more of the 24 new maintenance facility locations. The potential to occur is based on the presence of suitable habitat within and adjacent to the maintenance facility locations and known occurrences of these species within 1 mile of the maintenance facility. These species include San Diego ambrosia (*Ambrosia pumila*), coastal California gnatcatcher (*Polioptila californica californica*, CAGN) and least Bell's vireo (*Vireo bellii pusillus*, LBVI).

In addition, two new maintenance facility locations (H-15 and H-18) are located within USFWS-designated critical habitat for coastal California gnatcatcher. See Table 3-4 below for a description of which facility sites provide suitable habitat and/or designated critical habitat for LBVI, CAGN, and San Diego Ambrosia.

TABLE 3-4. SUITABLE HABITAT WITHIN NEW PROPOSED 24 FACILITY LOCATIONS

Facility Location	Site Name	LBVI	CAGN and/or Within its Designated Critical Habitat	San Diego Ambrosia
E-53	Reidy Creek – Rincon to Pleasantwood	Yes		Yes
E-54	Reidy Creek – Morning View	Yes		Yes
E-55	HARRF	Yes		
E-58	Reidy Creek Golf Course	Yes		Yes
E-60	Oak Valley Lane	Yes		Yes
H-15	Sierra Linda		Yes; Critical Habitat	
H-16	Concerto and Beethoven		Yes	Yes
H-17	Bear Valley Pkwy	Yes		Yes
H-18	Kit Carson Bike Trail	Yes	Yes; Critical Habitat	Yes
H-19	Encino and Amparo	Yes		
H-20	Sunset and Bear Valley	Yes		Yes
H-21	Via Rancho Pkwy and Sunset Drive	Yes		
SM-05	Woodland Pkwy	Yes		Yes

Migratory Birds, Wildlife Movement, and Migration Corridors

In addition to the special-status species discussed above, as previously noted, migratory birds are protected under the MBTA. Under the act, most migratory birds are protected during the nesting season, as are the habitats in which they reside. Several species of migratory birds have the potential to use habitat within and adjacent to the facility locations during the nesting season.

Most of the 24 newly proposed maintenance facilities are highly urbanized concrete and earthen facilities supporting little or no native vegetation, or are within isolate patches of riparian habitat surrounded by urban and suburban development. These facilities provide little value as corridors for wildlife movement or nesting/foraging. Six facilities occur in riparian or upland habitats with potential connectivity to undeveloped expanses of natural habitats within the region (e.g., San Dieguito River Park Open Space Preserve). For example, facilities within the northern portion of Reidy Creek and Kit Carson Park are well connected to established riparian corridors to Escondido Creek; these habitats provide valuable movement corridors for fish and wildlife through otherwise highly developed City and private land. Additionally, one facility, H-16, occurs adjacent to the Hodges Reservoir Core Habitat Linkage as identified in the Draft North County Subarea Plan of the San Diego Multiple Species Conservation Plan.

Environmental Evaluation

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 U.S. Fish and Wildlife Service?

Less than Significant with Mitigation Incorporated. As summarized above, three special-status species have the potential to occur within at least one of the 24 newly proposed maintenance facilities. These species are federally listed and include San Diego ambrosia, coastal California gnatcatcher, and least Bell's vireo (note that least Bell's vireo is also state-listed). These three listed species were also previously determined to have the potential to occur adjacent to one or more of the existing 63 maintenance facility locations.

O&M activities are necessary to ensure proper function and integrity of the channel system and structures, and the activities do not otherwise alter or expand the existing system. At each of the existing and proposed maintenance facilities, the City has made great efforts to constrain the extent and type of impact that would occur. Activities conducted within serviceable concrete-line facilities would not result in adverse or significant impacts as no impacts on sensitive habitat would occur within these facilities. Impacts on natural facilities with earthen-bottom channels would be limited by restricting tree-trimming to the understory and limiting activities to the smallest radius necessary to allow for positive flow and only impacting the minimal low-flow channel. The City would avoid native tree removal in all but three facility locations (E-60, H-19, and H-21) as described in Table 2-1 to allow crews access to the facility site or to allow for positive flow within the channel.

Even with the restriction activity impact areas, there is potential for significant impacts on sensitive species, from habitat modification or degradation, construction noise and lighting, and unauthorized trespass by O&M personnel. The proposed project would incorporate the same mitigation measures from the 2013 MND, with minor revisions to Mitigation Measures BIO-1 and BIO-14 to clarify when pre-activity surveys would be performed based on how the current permits are being implemented and to allow for native tree removal within identified new facility locations.

As listed in Table 3-10 below, several species-specific mitigation measures from the 2013 MND (BIO-17 through BIO-22), have been identified to avoid and minimize otherwise potentially significant impacts to a less-than-significant level. Moreover, additional mitigation measures from the 2013 MND would be implemented to reduce impacts on special-status species to a level below significance. Biological monitors would be on site during vegetation clearing and grubbing to flag sensitive resources for avoidance and halt work if necessary (Mitigation Measure BIO-1), and workers would be trained to identify key natural and cultural resources prior to starting work (Mitigation Measure BIO-2). Equipment staging would be located outside of sensitive habitats and limited to the project footprint (Mitigation Measure BIO 3); work areas would be fenced or flagged (BIO-4); trash and dust would be kept out of sensitive habitats (Mitigation Measures BIO-5 and BIO-6); use of night lighting would be avoided if at all possible, or the lights would be directed away from sensitive habitats (Mitigation Measure BIO-7). Site access would be controlled and vehicles restricted to existing access roads (Mitigation Measure BIO-8). Erosion control measures would ensure sensitive habitats are not degraded through sedimentation and/or topsoil loss (Mitigation Measure BIO-9). Tools and equipment would be washed prior to entering maintenance areas to limit the spread of invasive plant species (Mitigation Measure BIO-12). Trespass into riparian vegetation

would be prohibited, and impacts on riparian habitats would be minimized to the greatest extent possible (i.e., understory only within the confines of the project footprint; Mitigation Measure BIO-13). Native trees would be avoided except for within specified locations to allow access (Mitigation Measure BIO-14). The nesting season would be avoided if at all possible (Mitigation Measure BIO-15), with applicable preconstruction surveys, flagging of environmentally sensitive avoidance buffers, and biological monitoring (Mitigation Measures BIO-16 through BIO 18). Pre-activity surveys would be performed in areas with potential for state-listed and/or federally listed plant species, and, if detected, these species would be avoided (Mitigation Measure BIO-19). Weed whipping activities would be restricted in occupied San Diego ambrosia habitat (Mitigation Measure BIO-20). Mature oak trees would be avoided per City guidelines, as well as the establishment of an oak root protection zone when heavy equipment is to be used (Mitigation Measure BIO-21). The City's goal is 100 percent avoidance of any direct impacts on special-status species (Mitigation Measure BIO-22). In addition, impacts on habitats with potential to support sensitive species would be mitigated for, as described further under Threshold IV.b (Mitigation Measure BIO-23). Thus, with implementation of mitigation, impacts on sensitive and special-status species would be less than significant.

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 U.S. Fish and Wildlife Service?

Less than Significant with Mitigation Incorporated. Within the 24 new maintenance facilities, a total of approximately 14.95 acres of impacts on sensitive vegetation communities would result from the proposed project (Table 3-5). Sensitive vegetation communities are those classified as Vegetation Groups A and B as described in Table 3-6. The majority of impacts on sensitive vegetation communities from the 24 new maintenance facilities (14.12 acres) would result from nonnative vegetation clearing and native vegetation trimming using hand tools only. These impacts would be temporary and are not considered significant. A total of approximately 0.83 acre of impacts on sensitive vegetation communities would result from vegetation and sediment removal within the 24 new maintenance facilities and are considered potentially significant.

TABLE 3-5. SENSITIVE VEGETATION COMMUNITY IMPACTS

	Impact Acreage		
Vegetation Type	24 Proposed Sites	Existing 63 Sites	
Sensitive Vegetation Communities—Mitigation	Proposed		
Tier I			
Alkali Seep		< 0.01	
Cismontane Alkali Marsh		< 0.01	
Coastal and Valley Freshwater Marsh		0.10	
Diegan Coastal Sage Scrub	< 0.01		
Engelmann Oak Woodland		0.03	
Southern Arroyo Willow Riparian Forest	0.02	0.31	
Southern Coast Live Oak Riparian Forest	0.04		
Southern Cottonwood-Willow Riparian Forest	0.57	0.36	
Southern Riparian Scrub	0.03	0.01	
Southern Willow Scrub	0.07	< 0.01	
Tier I Subtotal	0.73	0.81	

	Impact A	creage
Vegetation Type	24 Proposed Sites	Existing 63 Sites
Tier II		
Disturbed So. Cottonwood-Willow Riparian Forest	0.01	
Disturbed Wetland		0.25
Emergent Wetland		< 0.01
Nonnative Grassland	0.01	
Nonnative Woodland	0.09	
Tier II Subtotal	0.10	0.25
Tier I and II Total ¹	0.83	1.06
Sensitive Vegetation Communities—Mitigation No (Hand Tool Work Only or Temporary BMPs)	ot Proposed	
Coastal and Valley Freshwater Marsh	0.81	0.10
Disturbed So. Cottonwood-Willow Riparian Forest	6.82	
Disturbed Wetland		0.89
Emergent Wetland		< 0.01
Eucalyptus Woodland	0.05	0.03
Mulefat Scrub		< 0.01
Nonnative Grassland	3.84	< 0.01
Nonnative Woodland	1.05	
So. Cottonwood-Willow Riparian Forest	1.53	0.07
Southern Arroyo Willow Riparian Forest		0.02
Southern Willow Scrub	0.02	
Total ¹	14.12	1.11
Non-Sensitive (Tier IV) Vegetation Communities-	-Mitigation Not Proposed	
Open Water	0.04	1.23
Unvegetated Channel	0.34	0.08
Disturbed Habitat	0.06	0.54
Urban / Developed	1.22	71.94
Total ¹	1.66	73.79

¹Total acreage may not add up due to rounding of decimal places.

TABLE 3-6. PROPOSED VEGETATION CATEGORIES FOR DETERMINING RESOURCE TIERS

Category	Description	Community
Α	Native Vegetation Communities	Alkali Seep
		Cismontane Alkali Marsh
		Coast Live Oak Woodland
		Coastal and Valley Freshwater Marsh
		Diegan Coastal Sage Scrub
		Engelmann Oak Woodland
		Mulefat Scrub
		Southern Arroyo Willow Riparian Forest
		Southern Cottonwood-Willow Riparian Forest
		Southern Riparian Scrub

Category	Description	Community
		Southern Coast Live Oak Riparian Forest
		Southern Willow Scrub
В	Disturbed Wetland	Disturbed So. Cottonwood-Willow Riparian Forest
		Disturbed Wetland
		Emergent Wetland
		Nonnative Grassland
		Nonnative Woodland
		Eucalyptus Woodland
С	Disturbed, Developed, or	Disturbed Habitat
	Unvegetated Land Covers	Open Water
		Unvegetated Channel
		Urban/Developed

As mentioned above, at each facility the City has made great efforts to constrain the impact area to existing concrete-lined features and otherwise developed/disturbed areas. In natural facilities with native vegetation growing in earthen-bottom or non-serviceable concrete channels, the City would limit impacts from removal of accumulated sediment and herbaceous vegetation, weed and nonnative tree removal, one-time native tree removal, and native shrub trimming. The City would also limit removal of native riparian trees and shrubs to three facility locations (E-60, H-19, and H-21) to allow crews access to the facility site and to maintain positive flow. Minor trimming would occur at the other facility locations.

As listed in Table 3-10 below, several mitigation measures from the 2013 MND (Mitigation Measures BIO-1 through BIO-5, and Mitigation Measures BIO-8 through BIO-14) would be implemented to avoid and minimize significant impacts (direct and indirect) on sensitive vegetation communities to the greatest extent practicable. These measures would include staking/flagging of maintenance footprints, only allowing access within designated access roads, requiring equipment and tools to be washed prior to entering the site to prevent the spread of invasives, and minimizing impacts on native riparian habitat and native trees. In addition to the measures detailed above under Threshold IV.a, dewatering would be conducted in accordance with water quality BMPs and under applicable permits (Mitigation Measure BIO-10).

Even with implementation of avoidance and minimization measures, significant impacts on 0.83 acre of sensitive habitat would remain with project implementation. However, the project would implement Mitigation Measure BIO-23, requiring compensatory mitigation for impacts on habitats through creation, restoration, and/or enhancement. Therefore, impacts on sensitive habitats would be less than significant. Mitigation ratios would be based on resource tiers. These tiers indicate the sensitivity of the resource, with Tier I being the most sensitive (native habitat areas) and Tier IV (unvegetated concrete channels) being the least sensitive. These Tiers, and the proposed mitigation types are summarized in Table 3-7. Therefore, with implementation of the mitigation measures discussed above, impacts on sensitive vegetation communities would be less than significant.

TABLE 3-7. PROPOSED RESOURCE TIERS AND IMPACT THRESHOLDS FOR THE ESCONDIDO CHANNEL MAINTENANCE PROJECT

Resource Tier	Description	Proposed Mitigation
Tier I	Includes native habitats (i.e., Category A vegetation communities per Table 3-6) growing within earthen facilities or non-serviceable concrete facilities. This includes wetland waters and riparian extent.	2:1 in the form of restoration or enhancement as needed to achieve overall 2:1 ratio.
Tier II	Includes nonnative habitats and unvegetated areas (i.e., Category B vegetation communities and Category C land covers per Table 3-6) occurring within earthen facilities or nonserviceable concrete facilities. These are mostly nonwetland waters but may include disturbed wetland waters.	 1.5:1 for natural drainages, in the form of restoration or enhancement. 1:1 for natural-lined roadside drainage ditches (i.e., Category C land covers) through on-site channel recontouring.
Tier III	Includes vegetated areas (i.e., Category A [herbaceous] and Category B vegetation communities per Table 3-6) occurring within serviceable concrete facilities. These are isolated, low-quality patches of opportunistic vegetation that are not likely to persist (e.g., flow associated with a storm event could easily blow out these habitat "islands"). Note that mature tree/shrub vegetation communities of Category A cannot occur on serviceable concrete lining by definition; if enough sediment is present to support native tree/shrub vegetation communities of Category A, the structure is non-serviceable by definition, and the impacts would be elevated to Tier I.	No mitigation
Tier IV	Includes unvegetated areas (i.e., Category C per Table 3-6) occurring within serviceable concrete facilities.	No mitigation

Note: Does not include impacts determined to be non-significant (temporary BMPs and vegetation removal with hand tools).

c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marshes, vernal pools, coastal wetlands, etc.) through direct removal, filling, hydrological interruption, or other means?

Less than Significant with Mitigation Incorporated. As shown in Tables 3-8 and 3-9 below, 1.57 acres of the new maintenance facilities project impacts would occur within waters of the U.S. and State, and 16.42 acres would occur within CDFW jurisdictional waters. Of the 24 new facility locations, 5 will result in a discharge of dredged material within waters of the U.S. and State during maintenance activities that is regulated by the USACE and RWQCB, resulting in 0.64 acre of impacts. These facility locations include: E-53, E-56, E-58, E-60, and H-19. The remaining facility locations would only result in temporary impacts (0.93 acre) associated with use of temporary diversion structures during maintenance activities.

Activities proposed within all 24 new facility locations are regulated by the CDFW. Of the 16.42 acres, 15.37 acres would occur in serviceable concrete-lined features or in earthen channels that require nonnative vegetation removal and vegetation trimming with hand tools only. Potential impacts on Tiers

III and IV, as well as temporary BMP installation and selective nonnative vegetation removal with hand tools within Tier I and Tier II resources, are not considered significant and would not have a significant impact on federal or state-protected wetland resources.

TABLE 3-8. JURISDICTIONAL WATERS OF THE U.S. AND STATE IMPACT BY TIERS

Resource Tiers	24 Proposed Maintenance Facilities	Existing 63 Maintenance Facilities			
Earthen or Non-Serviceable Concrete Lining (Mitigation Required)					
Wetland Waters					
Tier I	0.62	0.55			
Tier II		0.25			
Non-wetland Waters					
Tier II	0.03	0.20			
Total Impacts – Mitigation Required ¹	0.64	1.00			
Jurisdictional Serviceable Concrete Lining (Mitigation Not Required)	Jurisdictional Serviceable Concrete Lining and Earthen Channel use of Temporary BMPs (Mitigation Not Required)				
Wetland Waters					
Tier I	0.03				
Tier II	0.01				
Tier III	0.02	0.11			
Non-wetland waters					
Tier I	<0.01				
Tier II	0.22				
Tier III		0.81			
Tier IV	0.64	69.75			
Total Impacts—No Mitigation Required ¹	0.93	70.66			
Project Impacts on Waters of the U.S. and State, All Resource Tiers ¹	1.57	71.66			

¹ Acreages may not add up directly due to rounding.

TABLE 3-9. CDFW JURISDICTIONAL WATERS IMPACT BY TIERS

Resource Tiers	24 Proposed Maintenance Facilities	Existing 63 Maintenance Facilities			
Earthen or Non-Serviceable Concrete Lining	Earthen or Non-Serviceable Concrete Lining (Mitigation Required)				
Riparian					
Tier I	0.72	0.81			
Tier II 0.11 0.25		0.25			
Channel Bed and Bank					
Tier I	<0.01	<0.01			
Tier II	0.22	0.33			
Total ¹	1.05	1.39			
Jurisdictional Serviceable Concrete Lining and Earthen Channel Hand-Tool Work (Mitigation Not Required)					
Riparian					
Tier III	14.06	0.14			

Resource Tiers	24 Proposed Maintenance Facilities	Existing 63 Maintenance Facilities
Channel Bed and Bank		
Tier III		0.95
Tier IV	1.31	71.77
Total Impacts—No Mitigation Required ¹	15.37	72.85
Project Impacts on CDFW Jurisdictional Waters, All Resource Tiers ¹	16.42	74.24

¹ Acreages may not add up directly due to rounding.

Permanent impacts on Tier I (native riparian/wetland) and Tier II (nonnative riparian/wetland) resources are considered significant. Potentially significant project impacts would occur on 1.05 acres of Tier I and II wetland or riparian habitat (i.e., federal and/or state jurisdictional habitat) (Tables 3-8 and 3-9) due to maintenance activities proposed at the new facility locations.

As listed in Table 3-10 below, several mitigation measures would be implemented to avoid and minimize significant impacts (direct and indirect) on jurisdictional waters to the greatest extent practicable and would include: equipment staging, stockpiling, and refueling would be located in upland areas away from wetlands, and project activities would be limited to the project footprint and surrounding developed access routes (Mitigation Measure BIO-3); trash and dust would be kept out of sensitive habitats (Mitigation Measures BIO-5 and BIO-6). In addition, erosion control measures would ensure waters and wetlands are not degraded through sedimentation and/or topsoil loss (Mitigation Measure BIO-9). Dewatering would be conducted in accordance with water quality BMPs and under applicable permits (Mitigation Measure BIO-10), fires would be prevented through safe driving and smoking practices (Mitigation Measure BIO-11), and the spread of exotic weed species would be avoided by proper washing of vehicles upon entry and exit (Mitigation Measure BIO-12). Trespass into riparian vegetation would be prohibited, and impacts on riparian habitats would be minimized to the greatest extent possible (i.e., understory only within the confines of the project footprint) (Mitigation Measure BIO-13). Native riparian trees and shrubs would be limited to two preapproved locations (Mitigation Measure BIO-14).

Due to the nature of the project, the proposed project necessitates work within and around jurisdictional waters. The City has made great efforts to minimize impacts to the greatest extent practicable, while also maintaining the objectives of the project; however, impacts on potential jurisdictional waters remain a part of the proposed project.

Even with avoidance and minimization measures, significant impacts on 1.05 acres of jurisdictional waters would remain with project implementation. Although project impacts are considered permanent as maintenance activities would modify the jurisdictional waters contours and elevation as well as reduce the functions and services provided by these waters, no loss of jurisdictional waters would occur. In addition, the project would implement Mitigation Measure BIO-23, requiring compensatory mitigation for impacts on habitats through restoration and/or enhancement. Therefore, impacts on federal or state-protected wetland resources would be less than significant. Mitigation ratios would be based on resource tiers. These tiers indicate the sensitivity of the resource, with Tier I being the most sensitive (native habitat areas) and Tier IV (unvegetated concrete channels) being the least sensitive. These tiers, and the proposed mitigation types, are summarized in Table 3-7. Therefore, with implementation of the mitigation measures discussed above, impacts on federal- or state-protected wetland resources would be less than significant.

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?

Less-than-Significant Impact. The proposed project involves minimally invasive vegetation and sediment removal within maintenance facilities that are accessible primarily via urban hardscape. Maintenance activities would be timed to avoid significant impacts on special-status species, would be designed to avoid native riparian tree removal (other than the three identified facility locations: E-60, H-19, and H-21), and would not involve the permanent placement of obstructive apparatus or structures within native habitats. The small impact footprint and low invasiveness of maintenance at each facility, coupled with the urbanized setting of most facilities, would result in less than significant impacts on wildlife movement and habitat corridors from the project.

e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less than Significant with Mitigation Incorporated. The City defines protected trees as "any oak (Quercus sp.) which has a ten (10) inch or greater diameter at breast height (DBH), or any other species or individual specimen listed on the local historic register, or determined to substantially contribute to the historic character of a property or structure listed on the local historic register, pursuant to Article 40 of the Escondido Zoning Code (2001)." Four proposed maintenance facility locations (E-55, H-19, H-20, and SM-05) are located in areas mapped as coast live oak woodland or southern coast live oak riparian forest. These protected trees would be avoided during project activities per Mitigation Measures BIO-14 and BIO-21, which require the avoidance of all native trees other than the identified locations (E-60, H-19, and H-21) and protection of an oak tree's root protection zone. Therefore, with implementation of mitigation impacts would be less than significant.

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?

Less-than-Significant Impact. The project study area occurs within one regional conservation planning area: the City of Escondido Draft Subarea Plan under the MHCP. The project study area occurs within City limits and thus outside of the North County Multiple Species Conservation Plan (MSCP) area.

The Draft Escondido Subarea Plan (City of Escondido 2001) documents core conservation areas, known as Hardline Reserves. Sites E-55, H-18, SM-05, E-58, and H-15 occur within Hardline Reserve areas. The Draft Escondido Subarea Plan calls for conservation of between 90 and 100 percent of resources within preserve areas and no net loss of wetlands. Because the project would avoid take of special-status species and would result in no net loss of sensitive habitats or jurisdictional waters, the project is consistent with conservation measures defined in the Draft Escondido Subarea Plan. Thus, impacts would be less than significant.

Mitigation Measures for Biological Resources

TABLE 3-10. MITIGATION MEASURES FOR BIOLOGICAL RESOURCES

Measure	Description
	eneral Avoidance & Minimization
BIO-1	The City will designate a qualified biologist(s) to oversee monitoring and compliance
Biological Monitors +	with protective measures for the biological resources. The qualified biologist(s) will
City Inspectors	maintain communications with the appropriate personnel (project manager, resident
	engineer, project foreman) to ensure that issues relating to biological resources are
	appropriately and lawfully managed. The qualified biologist(s) will submit reports that
	document compliance with these measures to the wildlife agencies upon request or, at a
	minimum, are included in an end-of-the-year report. In addition, the qualified biologist(s)
	will perform the following duties:
	a. Conduct pre-activity surveys to verify site conditions and identify sensitive biological
	resources that require avoidance. Pre-activity surveys will occur at 1) sites that have
	not yet been maintained; earthen sites that have not been maintained for two or
	more years; and concrete-lined sites that have not been maintained for three or
	more years; 2) sites where the maintenance activity has not occurred within 30 days
	from the date of the pre-activity survey; and 3) any site where maintenance work will
	occur within the nesting season and suitable avian habitat is present within 500 feet
	of the site.
	b. If site conditions are different than the established baseline, the maintenance site
	will be reevaluated for federally listed species and their habitats. The U.S. Army
	Corps of Engineers will be notified of the new conditions prior to work and will have
	14 days to coordinate with the U.S. Fish and Wildlife Service to respond with
	amended permit conditions relevant to the site. Otherwise, work will proceed using
	existing avoidance, minimization, and mitigation measures set forth in the permits,
	as applicable to the new site conditions. c. Monitor O&M activities when sensitive biological resources have been flagged for
	avoidance during pre-activity surveys by a qualified biologist(s). The qualified
	biologist(s) will have authority to halt work, if necessary, and will be responsible for
	coordinating with the U.S. Army Corps of Engineers (who will consult as needed
	with the U.S. Fish and Wildlife Service) to ensure the proper implementation of
	species and habitat protection measures. Any breech of the conservation measures
	will be reported to Service by the qualified biologist(s) within 24 hours of its
	occurrence.
	d. Erosion control measures will be regularly checked by City inspectors, resident
	engineer, and/or project foreman. The qualified biologist(s) will also monitor erosion
	control measures when he/she is on-site. Site-specific best management practice
	(BMP) plans will be reviewed by the qualified biologist(s) and modified, if necessary,
	prior to implementation. Fencing and/or erosion control measures at maintenance
	facilities will be inspected by on-site personnel a minimum of once per week until completion of the maintenance activity.
BIO-2	Each employee will participate in a training/awareness program that will be presented by
Worker Awareness	the qualified biologist or City staff member, prior to working on the proposed project.
BIO-3	The City will ensure that all work materials, staging, storage, dispensing, fueling, and
Staging + Stockpiling	equipment maintenance activities are located in upland areas outside of sensitive
Claging Clockpining	habitat, and that adequate measures are taken to prevent any potential runoff from
	entering waters of the U.S. and State. Staging areas will be located within facility
	footprints or adjacent urban/developed hardscape.
BIO-4	The City will temporarily fence (with silt barriers) or flag the limits of project impacts
Fencing and Flagging	(including staging areas and access routes), as needed to prevent additional habitat
	impacts and prevent the spread of silt from the construction zone into adjacent habitats
	to be avoided. When deemed necessary, fencing or flagging will be installed in a
	manner that does not impact habitats to be avoided. If work occurs beyond the fenced or
	flagged limits of impact, all work will cease until the problem has been remedied to the
	satisfaction of the City. Temporary construction fencing or flagging will be removed upon project completion.
BIO-5	Spoils, trash, or any debris will be removed off-site to an approved disposal facility.
DIO-3	Opono, racon, or any debno will be removed off-site to an approved disposal facility.

Measure	Description
Trash Removal	
BIO-6 Dust Abatement	The project foreman and biological monitor (See BIO-1 for role of biological monitor)) will periodically monitor the work area to ensure that maintenance-related activities do not generate excessive dust.
BIO-7 Light and Glare	Maintenance activities will be conducted during normal business hours, and without the use of lighting whenever possible, excepting emergencies. If emergency maintenance activities occur at night, all project lighting (e.g., staging areas, equipment storage sites, roadway) will be directed onto the roadway or maintenance facility footprint and away from sensitive habitat. Light glare shields may also be used to reduce the extent of illumination into adjoining areas.
BIO-8	Vehicle traffic will be restricted to existing access roads except as specified in the RGP.
Access	
BIO-9 Post-Activity Erosion and Sediment Control	Post-maintenance activity erosion and sediment control will be implemented as applicable, including landscape planting and other biotic slope stabilization techniques (e.g., hydroseed and/or hydromulch). Erosion control blankets having plastic mesh with the potential to ensnare amphibians and reptiles will not be used in areas these animals inhabit.
BIO-10 Water Diversion/ Dewatering	All surface waters, including ponded waters, will be diverted away from areas undergoing dredging or vegetation removal and/or any other activity that may result in a discharge to the receiving water to the extent practicable. When water diversion is necessary, a structural BMP would be implemented to temporarily detain or reroute drainage around the work area based on field conditions, drainage characteristics, seasonal variation, maintenance duration, and practicability of application. The intent of the temporary BMP implementation would be to avoid or minimize water interference in the work area and water quality impacts to downstream receiving waters. When maintenance is completed, the flow diversion structure will be removed as soon as possible in a manner that allows flow to resume and prevent debris or sediment accumulated from returning to the stream. If dewatering is conducted, either a pump will move water to an upland disposal site, or a sediment basin or other structure will be used to collect and treat the water. If applicable, a National Pollutant Discharge Elimination System permit may be required. If not applicable, the water returned to the waterway should be equivalent in nature to preactivity conditions. Additional water quality measures may arise as conditions of the 401 Water Quality Certification. The City will adhere to these conditions in addition to this avoidance
BIO-11 Fire Prevention	measure. Wildfires will be prevented by exercising care when driving and by not parking vehicles where catalytic converters could ignite dry vegetation. In times of high fire hazard, trucks may need to carry water and shovels or fire extinguishers in the field. No smoking or disposal of cigarette butts will take place within vegetated areas.
BIO-12 Minimizing Spread of Exotic Plant Species	Tools and equipment will be washed in designated areas prior to entering and exiting work areas, to ensure no plant material is transported on- or off-site.
Riparian Vegetation Avo	pidance & Minimization
BIO-13 Riparian Vegetation Avoidance	Measures will be taken to avoid and minimize impacts to native riparian vegetation to the greatest extent possible. This includes unnecessary or unauthorized trespass by workers and equipment, staging and storage of equipment and materials, refueling activities, and littering or dumping debris in riparian areas.
BIO-14 Native Tree Avoidance	Native Tree Avoidance – The City will only remove mature native trees within identified locations (E-60, H-19, and H-21). Outside of these identified locations, the City will not remove native trees, including, but not limited to, willow (Salix spp.), cottonwood (Populus spp.), western sycamore (<i>Platanus racemosa</i>), and oak (Quercus sp.). The

Measure	Description
	City may trim these species up to a height of 7 feet, barring oaks and sycamores with a diameter breast-height greater than 9.5 inches, which may not be pruned.
	Where access and operation of equipment is limited, portions of trees may be trimmed/pruned to no more than 13 feet provided a certified arborist and/or project biologist determines that such pruning will not result in a significant impact to the health of the tree. Trimming/pruning of native trees will be conducted outside the general avian nesting season (February 15 through September 15), when feasible. If work is required during the avian nesting season then surveys will be required as outlined in BIO-15 through BIO-17 to ensure avoidance of nesting birds. Trimming/pruning shall be done in a manner to maintain the trees overall health and appearance. Cutting of branches greater than 2 inches in diameter will be done by a certified arborist.
Migratory Bird Avoidand	e & Minimization
BIO-15 Nesting Season Avoidance	Vegetation clearing shall occur outside of the typical breeding season for raptors and migratory birds (February 15 through September 15). However, if this is not possible, then a qualified biologist will conduct a raptor nesting survey prior to construction to determine the presence or absence of nests in the riparian habitat, and the potential need for additional project mitigation measures.
BIO-16 Nest Buffers	To the greatest extent feasible, vegetation clearing, dredging, and other mechanized activities within 500 feet of undeveloped vegetation communities will be conducted outside the breeding season for federally protected migratory and listed bird species. In situations where these types of maintenance activities will occur adjacent to undeveloped vegetation communities during the breeding season (February 15 through September 15), the following measures will be implemented:
	 A preconstruction survey for migratory birds shall be performed by a qualified biologist within 3 days prior to any removal of trees, shrubs, or structures on the project site. If no active nests are found, then no further action will be warranted.
	 If an active nest is detected on or within 300 feet of the project site (500 feet for raptors), no work shall be conducted within a 300-foot radius (500 feet for raptors) of the detected nest until a biological monitor determines the nest is no longer active.
Special-Status Species	Avoidance & Minimization
BIO-17 State- Listed and Federally Listed Bird Species	For those facilities where state-listed and/or federally listed bird species have potential to occur within the project footprint, a qualified biologist will make three separate visits (on separate days), with the final visit being not more than 3 days prior to the maintenance activity. These three survey visits will supersede the preconstruction surveys required under BIO-1 and BIO-15.
BIO-18 Bat Species	For those facilities where special-status bat species have potential to occur within the project footprint, a qualified biologist will survey for roosting bats concurrently with the preconstruction surveys required under BIO-1 and BIO-15. The same conditions identified in BIO-15 will apply to roosting bats.
BIO-19 Rare Plants	Pre-activity Surveys – For those facilities where San Diego ambrosia has the potential to occur within the maintenance site footprint, a qualified biologist(s) will perform focused surveys prior to maintenance activities and will flag avoidance areas if the species is detected. If ambrosia is detected within the maintenance footprint and cannot be avoided, O&M activities within that maintenance footprint will be postponed and consultation will be reinitiated by the U.S. Army Corps of Engineers with the U.S. Fish and Wildlife Service to address adverse effects on ambrosia and develop feasible impact minimization measures (e.g., plant and/or seed salvage). O&M activities at that maintenance site will not resume until consultation between the U.S. Army Corps of Engineers and U.S. Fish and Wildlife Service is completed and all feasible measures are implemented. Results of focused surveys for ambrosia will be valid for 3 years; facilities with survey results older than 3 years may require repeat surveys.

Measure	Description
BIO-20 San Diego Ambrosia	Weed whipping or other non-ground disturbing activities may occur in occupied habitat for San Diego ambrosia (when presence is documented by focused surveys conducted every 3 years as described in BIO-19) if the following measures are implemented:
	a. Conduct activities outside of the blooming period (April 1 through October 31) and 72 hours after any significant rain events (0.25 inch or more), when the soil is hard, and when no vegetative growth is visible.
	b. Avoid the application of herbicide in areas where listed plant species occur (unless concurred with by the Agencies for specific problem plants such as artichoke thistle). If no listed plant species are present, herbicide application may occur under the direction of a licensed applicator.
	c. Use a machine mower only if soil is not wet or muddy.
	d. Remove weed thatch carefully so that soil is not disturbed (i.e., avoid disturbing the seed bank or corms).
BIO-21 Oak Trees	Oaks require special avoidance. Heavy equipment shall not encroach on the root protection zone (i.e., 50 feet from the drip line) within undeveloped areas, nor will equipment be staged/stockpiled in these areas. A qualified biologist shall flag root protection zones as off-limits at applicable facilities, prior to starting work. Specific types of work and equipment may be approved within the root protection zone if approved by a certified arborist.
BIO-22 Complete Avoidance of Special-Status Species	The City will strive for 100 percent avoidance of direct impacts to special-status plant and wildlife species and will use biological monitors and preconstruction surveys to ensure avoidance (per BIO-1, BIO-16, BIO-17, BIO-18, BIO-19, and BIO-20, BIO-21).
Biological Resources C	ompensatory Mitigation
	All potentially significant project impacts will occur within habitats that are also potential jurisdictional waters. Compensatory mitigation for jurisdictional waters, as described below, will reduce potentially significant impacts to natural habitats to a level below significance. Because the project will avoid potentially significant impacts to special-status species and wildlife migration, no mitigation is necessary above and beyond the habitat-based compensatory mitigation for jurisdictional waters described below. The proposed project necessitates work within and around jurisdictional waters. As demonstrated in the previous section, the City has made great efforts to minimize
	impacts to the greatest extent practicable, while also maintaining the objectives of the project; however impacts to potential jurisdictional waters remain a part of the proposed project.
BIO-23 Compensatory Mitigation	These impacts will be mitigated to a level below significance through permitteeresponsible off-site mitigation in the form of restoration and/or enhancement or through the purchase of restoration and enhancement credits at the San Luis Rey Mitigation Bank. The City is currently pursuing permittee-responsible mitigation in the form of restoration and enhancement activities within Kit Carson Park. The City is currently in negotiations with the agencies and has prepared a draft mitigation plan for their review and approval. A final mitigation plan will be approved as a condition of the 404, 401, and 1602 authorizations, respectively. Final mitigation ratios will be generally consistent with the guidelines of relevant regional conservation plans, including the North County MSCP and Draft Escondido Subarea MHCP. In the event that the Kit Carson Park mitigation or other permittee-responsible site is not approved, the City will purchase mitigation credits from San Luis Rey Mitigation Bank or another appropriate bank approved through the applicable authorizations.
	Mitigation ratios will be based on resource tiers, as defined above (Table 3-6 and Table 3-7 of the IS/MND) for impacts on 0.64-acre of waters of the U.S. and 1.05 acres of CDFW jurisdictional waters.

v. CULTURAL RESOURCES

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a.	Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?				
b.	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?				
C.	Disturb any human remains, including those interred outside of dedicated cemeteries?		\boxtimes		

Background

The following section provides a brief discussion of the cultural resources within the city of Escondido, including a description of existing conditions, an outline of significance criteria and an impact analysis of the potential effects the project could have on eligible or significant cultural resources, and proposed mitigation measures for the protection of these resources. Information from the City's 2013 MND and the Cultural Resources Technical Report prepared by ICF in 2020 (Appendix D) was used in the preparation of this section.

Existing Conditions

Cultural Setting

The sequence of human occupation of coastal southern California begins in the Paleoindian period (11,500–8500 B.P.), a time in which adaptations were formerly believed to be focused on the hunting of large game, but are now recognized to represent more generalized hunting and gathering, with considerable emphasis on marine resources (Erlandson and Colten 1991, Jones 1991). The following period, the Archaic (8500–1300 B.P.) is traditionally seen as encompassing both a coastal and an inland focus, with the coastal Archaic represented by the shell middens of the La Jolla complex and the inland Archaic represented by the Pauma complex. The Late Prehistoric period (1300–200 B.P.) is marked by the appearance of small projectile points indicating the use of the bow and arrow, the common use of ceramics, and the replacement of inhumations with cremations.

The Spanish Period (1769–1821) represents a period of Euroamerican exploration and settlement. Dual military and religious contingents established the San Diego Presidio and the San Diego and San Luis Rey Missions. The Mission system used Native Americans to build a footing for greater European settlement. The Mission system also introduced horses, cattle, other agricultural goods, and implements; and provided construction methods and new architectural styles. The cultural and institutional systems established by the Spanish continued beyond the year 1821, when California came under Mexican rule.

Many Spanish practices survived into the early part of the Mexican period (1821–1848). The secularization of the missions in 1834 brought notable changes to the land ownership in the region. After secularization, large tracts of land were granted to individuals and families and the rancho system was established. Cattle ranching dominated other agricultural activities and the development

of the hide and tallow trade with the United States increased during the early part of this period. The Pueblo of San Diego was established during this period and Native American influence and control greatly declined. The Mexican Period ended when Mexico ceded California to the United States after the Mexican-American War of 1846-1848. Escondido was part of a land grant bestowed to former Governor Juan Bautista Alvarado in 1843 by then Governor Manuel Micheltorena. Alvarado built an adobe home and raised cattle on the property.

The American period (1848–present) began when Mexico ceded California to the United States as part of the Treaty of Guadalupe Hidalgo. While some of the previous land claims were validated, much of the land that was once part of the ranchos became available for settlement. After the death of Juan Bautista Alvarado in the 1850s his heirs sold the rancho to Oliver S. Witherby, a judge from San Diego. The land changed hands over the years until finally a group of land speculators from Kansas purchased it in 1883 and began viticultural (growing wine grapes) pursuits in the valley. Churches, schools, and the Escondido Hotel would be constructed in a short time. The railroad was completed in late 1887 and the first freight was shipped from the Santa Fe depot at the west end of Grand Avenue in early 1888. During this time the portions of the proposed project within Escondido was agricultural land and would not be developed until well into the twentieth century.

History of the Project Area

After the arrival of Spanish explorers, the area that is now Escondido became part of the Spanish mission system. In 1843, the area was part of a rancho (El Rincon del Diablo) granted to Juan Bautista Alvarado, and in 1860, it was acquired by the Wolfskill brothers who planted vineyards and raised sheep (McGrew 1988). In 1883, much of the area was purchased by the Escondido Company, a group of Stockton speculators who subdivided the property 3 years later. In 1886, a 12,000-acre tract was purchased by a group of investors who formed the Escondido Land and Town Company, which platted the City of Escondido and lobbied for construction of a railroad connection to the coast. Aggressive land promotions during the latter half of the 1880s drew many people to the area, and although growth had slowed considerably during the 1890s, settlers continued to arrive in the back country, establishing small farms and ranches throughout the area. This migration took a sharp decline with the onset of the Depression during the 1930s, as many of the rural farmers abandoned their farms and moved to urban areas. The number of people living on farms fell 63 percent during the 1930s, while San Diego County's overall population increased by 38 percent (Van Wormer and Walter 1991). Nevertheless, farming and ranching continued to be the major focus of Escondido's economy until the 1960s.

<u>Cultural Resources within the Project Area</u>

Over the last decade, ICF has conducted several cultural resources investigations near the project area, including a cultural resources survey for the proposed project covering the 24 maintenance sites, one expanded maintenance site, and biological mitigation site (Appendix D). These investigations consisted of records searches, field surveys, and test excavations, the result of which reveal that the city of Escondido contains both historical and archaeological resources.

Record Search

A cultural resources records search for the proposed additional facilities was conducted at the South Coastal Information Center (SCIC) in May and June of 2019, using a 0.5-mile buffer around each of the facility locations. The records search indicates that 92 cultural resources are located within a 0.5-mile radius of the study area, 8 of which intersect with project facilities and the 50-foot survey buffer:

a prehistoric lithic scatter (P-37-000572), a prehistoric habitation site (P-37-008280), prehistoric bedrock milling sites and associated artifacts (P-37-006726, P-74-6727, and P-37-012601), a prehistoric isolated mano and flake (P-37-015577), a historic residence (P-37-017871), and a historic flume (P-37-030889).

Only P-37-030889, the Vista Irrigation District Bench Flumes, previously recorded by Van Wormer in 2009, has been evaluated for its potential eligibility for the California Register of Historical Resources (CRHR) or National Register of Historic Places (NRHP). Per Jow and Dolan (2012) "[t]he bench flumes were built as part of the water distribution system efforts of the 1920s that brought remarkable growth within the district. The flumes were constructed as above-ground gunite canals with a gunite domed cover, connected by steel and concrete pipe siphons (Robbins-Wade, Giletti and Van Wormer 2009). For the most part, the siphons are underground. The gunite bench flumes and above ground siphon segments have been evaluated as potentially eligible for the NRHP at a local level of significance as well as for designation on the CRHR". Van Wormer recommended that the bench flumes and siphons qualify for listing on the CRHR and NRHP because they have been the primary water conveyance system in Escondido for the Vista Irrigation District since the system was constructed in the mid 1920s (Criteria A for NRHP, Criteria 1 for CRHR). The bench flumes also qualify for listing due to their unique design and construction technique (Criteria C for NRHP, Criteria 3 for CRHR).

Field Survey

ICF archaeologists conducted a pedestrian survey of the 361-acre survey area in October and November 2019. The survey area consisted of each newly proposed facility and a 50-foot buffer. The archaeologists examined the ground surface within each survey area for the presence of prehistoric artifacts and features, prehistoric milling surfaces on exposed bedrock, and historic artifacts and features. Visibility ranged from good in road shoulders to extremely poor in areas with dense vegetation. Vegetation within the Area of Potential Effect (APE) consisted of agricultural land, native and nonnative grasses, disturbed native chaparral, and landscaped residential yards and roadsides. For this survey, visibility was characterized as good to excellent if 75 percent or more of the ground was visible, fair to good if 25–75 percent was visible, and poor to fair if 5–25 percent of the ground was visible. The archaeologists took notes and photographs of the project survey area and all identified cultural resources.

During the field surveys, none of the eight previously recorded archaeological resources were relocated. One new prehistoric bedrock milling site, ICF-ESC94-P-001, was identified. For the most part, this appears to be due to environmental conditions that have occurred since the resources were originally recorded. Some of the resources appear to have been buried or eroded away, have been destroyed by later development, exist underground in the APE, or were inaccessible because of dense vegetation. Discrepancies may also be due to sites being recorded prior to the common use of Geographic Information Systems (GIS) in site recording, resulting in the original recorded locations being off or erroneously mapped.

Significance Criteria and Impact Analysis

Significance Criteria

Under CEQA, the lead agency is responsible for determining whether a project may have a significant effect on historical and archaeological resources. Section 21083.2 of the Public Resources Code states that if the lead agency determines that the project may have a significant

effect on "unique" archaeological resources, an environmental impact report shall address these resources. A unique archaeological resource is an artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets one of the following criteria:

- 1. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States.
- 2. Associated with the lives of persons important to local, California or national history.
- 3. Embodies the distinctive characteristics of a type, period, region or method of construction or represents the work of a master or possesses high artistic values.
- 4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California or the nation.

Environmental Evaluation

Would the project:

a. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

Less than Significant with Mitigation Incorporated. There is one potentially significant cultural resource, P-37-030889, the Vista Irrigation District Bench Flumes, located within the project area. However, because it is below ground at a depth far below proposed ground-disturbing activities it would not be affected by the proposed maintenance activities. Intensive pedestrian surveys were unable to be completed at nine of the new facilities due to access issues or poor visibility from dense vegetation or are in proximity to recorded cultural resources locations. These facility locations (E-54, E-55, E-58, E-60, H-19, H-16, H-18, SM-05, and the Kit Carson Park Downstream Mitigation site) have the potential for resources to be present. However, and consistent with the 2013 MND, any adverse impacts on unknown cultural resources would be mitigated to a less than significant level with the implementation of Mitigation Measures CR-1, CR-2, CR-3, CR-4 and CR-5 from the 2013 MND and the existing Monitoring and Discovery Plan, which outlines the monitoring protocols and treatment measures for potentially undiscovered cultural resources and human remains. Thus, with incorporation of mitigation, impacts on cultural resources would be less than significant.

b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

Less than Significant with Mitigation Incorporated. As discussed above, there is only one potentially significant cultural resource located within the project area; however, it would not be affected by the proposed maintenance activities. Although no known cultural resources would be adversely affected by the project, intensive pedestrian surveys were unable to be completed at several facilities due to access issues or poor visibility from dense vegetation, as described above. These facility locations have the potential for resources to be present. Any adverse impacts on unknown archaeological resources would be mitigated to a less-than-significant level with the implementation of Mitigation Measure CR-5 from the 2013 MND and the Monitoring and Discovery Plan, which outlines the monitoring protocols and treatment measures for cultural resources and human remains. Thus, with incorporation of mitigation, impacts on archaeological resources would be less than significant.

c. Disturb any human remains, including those interred outside of dedicated cemeteries?

Less than Significant with Mitigation Incorporated. No cultural resources that include human remains were identified during the cultural resources study. Although no known human remains were identified within the project area, intensive pedestrian surveys were unable to be completed at several facilities due to access issues or poor visibility from dense vegetation, as described above. These facility locations may have the potential for human remains to be present. Any adverse impacts on unknown human remains would be mitigated to a less-than-significant level with the implementation of Mitigation Measure CR-5 from the 2013 MND and the Monitoring and Discovery Plan. Thus, with incorporation of mitigation, impacts on human remains would be less than significant.

Mitigation Measures for Cultural Resources

TABLE 3-11. MITIGATION MEASURES FOR CULTURAL RESOURCES

Measure	Description
CR-1 Archaeological Monitor and Native American Monitoring	The applicant shall enter into a Tribal Cultural Resource Treatment and Monitoring Agreement (also known as a pre-excavation agreement) with a tribe that is traditionally and culturally affiliated with the project location (TCA Tribe) prior to issuance of ground-disturbing activities. The purpose of the agreement is to provide the applicant with clear expectations regarding tribal cultural resources and to formalize protocols and procedures between them. The applicant and the TCA Tribe are responsible for the protection and treatment of, including but not limited to, Native American human remains, funerary objects, cultural and religious landscapes, ceremonial items, traditional gathering areas, and cultural items, located and/or discovered through a monitoring program in conjunction with the construction of the project, including additional archaeological surveys and/or studies, excavations, geotechnical investigations, grading, and all other ground-disturbing activities.
	Prior to ground disturbing activities, the applicant shall provide written verification to the City that a qualified archaeologist and a Native American monitor associated with a TCA Tribe have been retained to implement the monitoring program.
	An archaeological monitor under the supervision of the qualified archaeologist will be present during the first maintenance activity that involves ground disturbing activities at the following earthen facilities: E-54, E-55, E-58, E-60, H-16, H-19, and SM-05.
	A Native American monitor will be present during the first maintenance activity that involves ground disturbing activities at the following facilities: E-53, E-54, E-55, E-56, E-58, E-60, H-15, H-16, H-17, H-19, H-20, H-21, and SM-05.
	The archaeologist shall be responsible for coordinating with the Native American monitor. This verification shall be presented to the City in a letter from the project archaeologist that confirms the selected Native American monitor is associated with a TCA Tribe. The City, prior to any preconstruction meeting, shall approve all persons involved in the monitoring program. The qualified archaeologist and Native American monitor shall attend the pre-grading meeting with the grading contractors (if a pre-grading meeting is required) to explain and coordinate the requirements of the monitoring program.

Measure	Description
CR-2 Unanticipated Discovery and Avoidance of Archaeological Resources	If an unanticipated archaeological resource is discovered during monitoring, if feasible, it will be avoided. Unanticipated archaeological discoveries made during monitoring will be addressed following procedures identified in the Monitoring and Discovery Plan. In the event that previously unidentified tribal cultural resources are discovered, the qualified archaeologist and the Native American monitor shall have the authority to temporarily divert or temporarily halt ground disturbance operation in the area of discovery to allow for the evaluation of potentially significant cultural resources. Isolates and clearly non-significant deposits shall be minimally documented in the field and collected so the monitored grading can proceed. Mitigation Measures CR-3 and/or CR-4 may be implemented if appropriate.
CR-3 Testing of Archaeological Resources	In the event that previously unidentified tribal cultural resources are discovered, the qualified archaeologist and the Native American monitor shall have the authority to temporarily divert or temporarily halt ground disturbance operation in the area of discovery to allow for the evaluation of potentially significant cultural resources. Isolates and clearly non-significant deposits shall be minimally documented in the field and collected so the monitored grading can proceed. If an unanticipated archaeological discovery is potentially significant and cannot be avoided, an evaluation plan that identifies research topics and procedures for evaluation of the resource will be prepared. The evaluation plan will be a standalone document and will be implemented prior to ground-disturbing maintenance activities.
	If a potentially significant tribal cultural resource is discovered, the archaeologist shall notify the City of said discovery. The qualified archaeologist, in consultation with the City, the TCA Tribe, and the Native American monitor, shall determine the significance of the discovered resource. A recommendation for the tribal cultural resource's treatment and disposition shall be made by the qualified archaeologist in consultation with the TCA Tribe and the Native American monitor and be submitted to the City for review and approval.
CR-4 Data Recovery of Archaeological Resources	If a potentially significant tribal cultural resources and/or unique archaeological resource is discovered, the avoidance and/or preservation of the significant tribal cultural resource and/or unique archaeological resource must first be considered and evaluated as required by CEQA. Where any significant tribal cultural resources and/or unique archaeological resources have been discovered and avoidance and/or preservation measures are deemed to be infeasible by the City, then a research design and data recovery program to mitigate impacts shall be prepared by the qualified archaeologist (using professional archaeological methods), in consultation with the TCA Tribe and the Native American monitor, and shall be subject to approval by the City. The qualified archaeologist, in consultation with the Native American monitor, shall determine the amount of material to be recovered for an adequate sample of the resource for analysis. Before construction activities are allowed to resume in the affected area, the research design and data recovery program activities must be concluded to the satisfaction of the City.
	If the qualified archaeologist elects to collect any tribal cultural resources, the Native American monitor must be present during any testing or cataloging of those resources. Moreover, if the qualified archaeologist does not collect the cultural resources that are unearthed during the ground-disturbing activities, the Native American monitor may, at their discretion, collect said resources and provide them to the TCA Tribe for respectful and dignified treatment in accordance with the TCA Tribe's cultural and spiritual traditions. Any tribal cultural resources collected by the qualified archaeologist shall be repatriated to the TCA Tribe. Should the TCA Tribe or other traditionally and culturally affiliated tribe decline the collection, the collection shall be curated at the San Diego Archaeological Center. All other resources determined by the qualified archaeologist, in consultation with the Native American monitor, to not be tribal cultural resources, shall be curated at the San Diego Archaeological Center.

Measure	Description
	Prior to the release of the grading bond (if required) or completion of the project, a monitoring report and/or evaluation report, if appropriate, which describes the results, analysis, and conclusion of the archaeological monitoring program and any data recovery program on the project site shall be submitted by the qualified archaeologist to the City. The Native American monitor shall be responsible for providing any notes or comments to the qualified archaeologist in a timely manner to be submitted with the report. The report will include California Department of Parks and Recreation Primary and Archaeological Site Forms for any newly discovered resources.
CR-5 Treatment of Human Remains	If human remains are inadvertently discovered, they shall be treated according to appropriate State (Public Resources Code Section 5097.98, 5097.99, 5097.991, 7050.5, 8010-8011 and AB 2641); or on federal land NAGPRA provisions, as outlined in the Monitoring and Discovery Plan.

VI. ENERGY

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Would the project:					
a.	Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?				
b.	Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				

Environmental Evaluation

Would the project:

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

Less-than-Significant Impact. Energy use is not discussed within either the 2013 MND or the 2014 Addendum. Notwithstanding the fact that energy was not previously analyzed, the "project" analyzed in the 2013 and 2014 documents provided coverage for routine O&M activities on 63 of the City's flood control facilities. The proposed project would expand the permit to add the ability to perform O&M activities at 24 additional facilities. The addition of these 24 facilities may result in an incremental increase in consumption of electricity and petroleum during proposed O&M activities. Typically demand for electricity would stem from the use of electrically powered hand tools; but the use of electricity during O&M would be temporary and minimal. Natural gas is not anticipated to be required during maintenance.

Petroleum would be consumed throughout the duration of the O&M activities. Fuel consumed by construction equipment would be the primary energy resource expended over the course of maintenance, and vehicle miles traveled associated with the transportation of materials and construction worker commutes would also result in petroleum consumption. Heavy-duty construction equipment associated with maintenance activities and haul trucks involved in relocating dirt are assumed to use diesel fuel. Workers would travel to and from the various project sites throughout the duration of maintenance activities using primarily gasoline-powered vehicles. Maintenance activities would be required to comply with CARB's Airborne Toxics Control Measure, which restricts heavy-duty diesel vehicle idling time to 5 minutes, which would minimize fuel consumption. Therefore, because electricity, natural gas, and petroleum use during proposed maintenance activities would be temporary and relatively minimal, and would not be wasteful or inefficient, impacts would be less than significant.

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

Less-than-Significant Impact. A discussion regarding energy usage is not included within the 2013 MND or 2014 Addendum. However, the project would not involve construction of buildings, and would only involve O&M activities for the 87 (total) flood control facilities that are already in place throughout the City (63 facilities covered by the previous documents plus 24 additional facilities); thus, Title 24 of the California Code of Regulations, Part 6 and Part 11 would not apply. Therefore,

the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency, and impacts would be less than significant							

VII. GEOLOGY, SOILS, AND PALENOTOLOGY RESOURCES

			Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Would the project:						
a.	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:					
	1.	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.				
	2.	Strong seismic ground shaking?			\boxtimes	
	3.	Seismic-related ground failure, including liquefaction?				
	4.	Landslides?			\boxtimes	
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 an onsite or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse?					
d.	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?					
e.	Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems in areas where sewers are not available for the disposal of wastewater?					
f.	 Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? 					

Environmental Evaluation

Would the project:

- a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - 1. 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.

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would not directly or indirectly cause substantial adverse effects related to rupture of a known earthquake fault. The 2013 MND stated that although the city of Escondido is located within a Seismic Zone 4, the current RGP 94 activities would not be located within proximity to active faults as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map. The closest known active faults are the Rose Canyon Fault and the Elsinore Fault. Due to the distance of the facilities from these faults, fault surface rupture is not likely at the maintenance sites. In the event of a major earthquake on these faults or other faults within the Southern California region, the facilities could be subjected to moderate to severe ground shaking. However, the site is not considered to possess a significantly greater seismic risk than that of the surrounding area in general.

A review of the current California Geological Survey's *Earthquake Zones of Required Investigation* (California Geological Survey 2020) confirms that no new or more severe impacts would occur compared to the analysis in the 2013 MND. None of the newly proposed facilities would be located in a Fault Zone, Liquefaction Zone, or Landslide Zone. Thus, impacts would be less than significant.

2. Strong seismic ground shaking?

Less-than-Significant Impact. The 2013 MND found that the current RGP 94 facilities are not considered to possess a significantly greater seismic risk than that of the surrounding area in general. In the event of a major earthquake on these faults (Rose Canyon Fault and the Elsinore Fault) or other faults within the Southern California region, the facilities could be subjected to moderate to severe ground shaking.

As with the current RGP 94 facilities, the newly proposed facilities would all be located within the City of Escondido and would be subject to the same level of risk associated with seismic ground shaking (from Rose Canyon Fault, Elsinore Fault and regional faults). Thus, no new or more severe impacts associated with seismic ground shaking would occur, and impacts would continue to be less than significant.

3. Seismic-related ground failure, including liquefaction?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would not expose people or structures to substantial adverse effects or risks related to seismic-related ground failure including liquefaction. Potential geologic hazards such as tsunamis, seiches, liquefaction, or collapse were determined to be negligible or nonexistent.

As with the current RGP 94 facilities, the newly proposed facilities would all be located within the City of Escondido and would be subject to the same level of risk. In addition, as mentioned under Threshold VII a.1. above, none of the newly proposed facilities would be located within *Earthquake Zones of Required Investigation* for liquefaction or landslides. Thus, no new or more severe impacts associated with ground failure including liquefaction would occur, and impacts would continue to be less than significant.

4. Landslides?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would not expose people or structures to substantial adverse effects or risks related to landslides. In addition, as mentioned under Threshold VII a.1. above, none of the newly proposed facilities would be located within Earthquake Zones of Required Investigation for liquefaction or landslides. Thus, no new or more severe impacts associated with landslides would occur, and impacts would continue to be less than significant.

b. Result in substantial soil erosion or the loss of topsoil?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 activities would be routine in nature and would not result in any substantial soil erosion or the loss of topsoil because all areas are developed with structures, paving, or hardscape.

Newly proposed facilities would be similar to the original 63 locations, and the BMPs for water quality protection (including erosion and sediment control measures) discussed in Section X, *Hydrology and Water Quality*, below would be implemented at new facility locations as well. The objective of the BMPs is to adequately control the potential discharge of pollutants (including via erosion) during maintenance activities to a less-than-significant level. Thus, no new or more severe impacts associated with erosion would occur, and impacts would be less than significant.

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 an onsite or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse?

Less-than-Significant Impact. The 2013 MND found that potential geologic hazards such as tsunamis, seiches, liquefaction, or collapse would be considered negligible or nonexistent for the current RGP 94 facilities.

As the nearest newly proposed facility is located approximately 13 miles from a large body of water (Pacific Ocean), tsunamis and seiches would continue to be negligible risks to project implementation. As mentioned under Thresholds VIIa.3 and VII.a.4 above, none of the newly proposed facilities would be located in a liquefaction or landslide prone zone. In addition, the proposed project involves O&M and work activities at existing features and does not include the construction of new habitable structures; thus, potential impacts associated with secondary seismic phenomena such as subsidence or collapse would also continue to be negligible. Therefore, no new or more severe impacts associated with unstable geologic units or soil would occur, and impacts would be less than significant.

d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would involve routine O&M activities on existing structures throughout San Diego County and would not create a substantial risk to life or property.

Similarly, the proposed project's O&M and work activities to be conducted at the newly proposed facilities would also occur within existing facilities, and the project does not include the construction of new habitable structures (creating a substantial risk to life or property). Thus, no new or more

severe impacts associated with expansive soils would occur, and impacts would be less than significant.

e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems in areas where sewers are not available for the disposal of wastewater?

No Impact. The 2013 MND found that no septic tanks or alternative wastewater disposal system would be utilized as part of the current RGP 94. Although the project would not require a permanent water supply or source, the project site would be served by an existing wastewater/sewer pipeline system within the city of Escondido when necessary.

Similarly, no septic tanks or alternative wastewater disposal system are included as part of the proposed project. Thus, no impacts would occur.

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

Less than Significant Impact. No paleontological resources have been identified within the city of Escondido (Demere 2007). Five of the 24 project facilities and one expanded current facility surveyed are concrete or asphalt and do not have the potential for the discovery of paleontological resources. Of the remaining 20 project locations, 17 are located on soils not expected to contain paleontological resources. There are Jurassic marine terraces present at the remaining earth-lined facilities; however, these terraces are covered in recent alluvium and proposed project activities would occur in these non-sensitive disturbed soils and would not reach a depth that would potentially impact any paleontological resources. Thus, impacts on paleontological resources would be negligible and less than significant.

VIII. GREENHOUSE GAS EMISSIONS

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a.	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				
b.	Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				

Environmental Evaluation

Would the project:

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

Less-than-Significant Impact. Increases in fossil fuel combustion and deforestation have exponentially increased concentrations of greenhouse gases (GHGs) in the atmosphere. Rising atmospheric concentrations of GHGs in excess of natural levels result in increasing global surface temperatures—a phenomenon commonly referred to as global warming. The primary associated GHG emissions are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and fluoridated compounds. Assembly Bill (AB) 32 sets forth the regulatory framework in California to reduce emissions to 1990 levels by 2020. Senate Bill (SB) 32 builds on AB 32 and establishes a longer-term goal of 40 percent below 1990 levels by 2030. Because GHGs are a global problem, GHG impacts and the analysis contained herein are inherently cumulative.

The State CEQA Guidelines do not indicate what amount of GHG emissions would constitute a significant impact on the environment. Instead, they authorize the lead agency to select thresholds of significance that it considers most appropriate to enable decision makers to adequately account for the project's incremental contribution to climate change, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence (State CEQA Guidelines Sections 15064.4(a) and 15064.7(c)). According to the City of Escondido's *Greenhouse Gas Emissions Adopted CEQA Thresholds and Screening Tables*, projects that generate less than 2,500 metric tons (MT) of carbon dioxide equivalent (CO₂e) per year are generally considered less than significant. Thus, for the purpose of this analysis, the 2,500 MTCO₂e threshold is used as a screening threshold to assess the proposed project's GHG emissions.

The 2013 MND ENV 12-0001 (2013 MND) found GHG emissions from implementation of the current RGP 94 would not be a considerable contribution to the cumulative global impact and were determined to be less than significant.

Similar to the current RGP 94, GHG emissions associated with the proposed project would result from engine exhaust from heavy-duty off-road equipment, mechanical hand tools including chainsaws and trimmers, use of water trucks onsite, employee vehicle trips, and haul and vendor truck trips. GHG emissions were estimated using a combination of emission factors and methodologies published and recommended by CARB and other agencies, including the CalEEMod

version 2016.3.2, and CARB's EMFAC2017 model. Construction data for the proposed project (e.g., schedule, equipment types and numbers, and truck trips) is based on a combination of information provided by the project applicant, and modeling defaults.

Table 3-12 summarizes estimated GHG emissions by source from O&M associated with the proposed project.

TABLE 3-12. ESTIMATED ANNUAL GHG EMISSIONS BY SOURCE (MTCO₂E/YEAR)

Source	CO ₂	CH₄	N ₂ O	Total CO₂e
Offroad Equipment	57	<1	0	63
Mobile	110	<1	<1	115
Total	167	<1	<1	178
Threshold				2,500
Exceed Threshold?				No

Source: Appendix B

As shown in Table 3-12, maintenance of the proposed project would result in GHG emissions that would be well below the City of Escondido's screening threshold of 2,500 MTCO₂e per year. Similar to the current RGP 94, because construction-related emissions would be below the applicable level of significance, the project's GHG emissions would not be a considerable contribution to the cumulative global impact and, therefore, would be less than significant.

b. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less-than-Significant Impact. At the local level, the City of Escondido's Climate Action Plan (E-CAP) and associated Greenhouse Gas Emissions CEQA Threshold and Screening Tables (City of Escondido 2013) were adopted in December 2013, and are the most relevant plan, policy or regulatory program adopted for the purpose of reducing the emissions of GHGs within the City. The E-CAP's Greenhouse Gas Emissions CEQA Threshold and Screening Tables document determined that projects within the City of Escondido that generate less than 2,500 MTCO₂e per year are generally small in nature and are considered less than significant. As described above, like the current RGP 94, the proposed project would generate GHG emissions that are well below the applicable 2,500 MTCO₂e screening threshold (178 MTCO₂e/year). As a result, the proposed project would not conflict with implementation of the City's E-CAP. It should be noted that the City's current E-CAP was prepared to comply with the 2020 GHG reduction goal established by AB 32 and does not address the 2030 GHG reduction goal established by SB 32. The City is currently working on an update to its E-CAP to ensure compliance with updated state policies and regulations. Aside from the City's E-CAP at the local level, the other applicable plan, policy, or regulation relevant to the proposed project that has been adopted for the purposes of reducing GHG emissions to meet the 2030 GHG reduction goal is CARB's 2017 Climate Change Scoping Plan (Scoping Plan) at the state level, which is described below.

CARB's Scoping Plan outlines the framework and strategies the state will take to achieve its GHG emission reduction targets. Based on the Scoping Plan, many of the reductions needed to meet the 2030 target will come from state regulations, including cap-and-trade regulations, the requirement for increasing renewable energy sources in California's energy supply, updates to Title 24, and increased emission reduction requirements for mobile sources. The Scoping Plan indicates that some reductions would need to come in the form of changes pertaining to vehicle emissions and

mileage standards. Some would come from changes pertaining to sources of electricity and increased energy efficiency at existing facilities. The remainder would need to come from state and local plans, policies, or regulations that will lower carbon emissions relative to business-as-usual conditions. The 2017 Scoping Plan contains GHG reduction measures to help achieve the state's 2030 target across all sectors of the California economy, including transportation, energy, and industry. The proposed project, which involves maintaining existing facilities to ensure adequate flood control capacity and avoid potential vector control issues for long-term sustainability and public safety, would not impede implementation of any of these regulations. The proposed project would not involve any land use development or population growth; therefore, the GHG reduction measures in the 2017 Scoping Plan are largely not applicable to the project. The project would benefit from the Scoping Plan measures, however, because it would involve the use of vehicles and require on- and off-road equipment to complete its O&M activities. Vehicle emissions would be reduced by measures outlined in the 2017 Scoping Plan such as Pavley I, Pavley II, and the Low-Carbon Fuel Standard (LCFS). On- and off-road construction equipment used for maintenance of the project would be affected by the LCFS and the heavy-duty vehicle measures in the 2017 Scoping Plan. These measures would lead to cleaner vehicles and equipment for the project's O&M activities and thus lower GHG emissions. Because the Scoping Plan measures are largely not applicable to the project, the project would not conflict with applicable policies described in the Scoping Plans for AB 32 and SB 32.

The 2013 MND found that the GHG emissions generated under the current RGP 94 would not conflict with any applicable plan, policy, or regulation adopted for reducing GHG emissions. As presented in the discussions above, similar to the current RGP 94 the proposed project would also not conflict with any applicable plan, policy, or regulation for GHG reduction or managing global climate change. Therefore, the impact would be less than significant.

IX. HAZARDS AND HAZARDOUS MATERIALS

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld 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 involve handling hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				
d.	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?				
e.	Be located within an airport land use plan area or, where such a plan has not been adopted, be within two miles of a public airport or public use airport, and result in a safety hazard or excessive noise for people residing or working in the project area?				
f.	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				
g.	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?				

Environmental Evaluation

Would the project:

a. 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 2013 MND found that due to the nature of the project and the lack of hazardous materials associated with the proposed O&M activities, implementation of the current RGP 94 would not result in the creation of any health hazards to the public through transport, use, or disposal of hazardous materials.

Activities to be conducted at the proposed 24 new facilities would include O&M and work activities. Work activities include the excavation of accumulated sediment and herbaceous vegetation, excavation and clearing of culvert inlets and outlets, removal of nonnative trees, the trimming of

native shrub and tree cover, and the excavation of accumulated sediment and vegetation within a specified basin. Additional work activities would include repairs of existing hardscaped facilities, which can include minor repairs to segments of concrete-lined channels or riprap-lined segments. Routine transport, use, and disposal of hazardous materials such as fuel, solvents, paints, oils and grease could occur during this time. However, such transport, use, and disposal must be compliant with applicable federal, state, and local regulations. Although small amounts of these materials would be transported, used, and disposed of, these materials are typically used in equipment and in maintenance and would not represent the transport, use, and disposal of acutely hazardous materials. Thus, impacts would be less than significant.

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?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would not result in the creation of any health hazards nor would it involve a risk of an explosion or the release of hazardous substances. The current RGP 94 does not involve the use or storage of hazardous materials that would result in a reasonably foreseeable upset or accident conditions.

Similarly, O&M and work activities performed under the proposed project would involve the use of some hazardous materials; however, hazardous material use would be compliant with applicable federal, state, and local regulations. Any spills involving these materials would be in small amounts, localized, and cleaned up as they occur. Activities associated with the proposed project would not result in the creation of any health hazards nor would they involve a risk of an explosion. The proposed project would not involve the use or storage of hazardous materials in quantities that would result in a significant release. Thus, impacts would be less than significant.

c. Emit hazardous emissions or involve handling hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within ½ mile of an existing or proposed school.

Similarly, hazardous material used during implementation of the proposed project would be compliant with applicable federal, state, and local regulations and would not involve the use of acutely hazardous materials. As mentioned above, spills involving these materials would be in small amounts, localized, and cleaned up as they occur. In addition, the proposed project does not involve the use or storage of hazardous materials in quantities that would result in a significant release to the surrounding environment, including nearby schools. Thus, impacts would be less than significant.

d. 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?

Less-than-Significant Impact. The 2013 MND found that no significant odors, pools of liquid, or significantly stained soils—all of which are indicators of underground storage tanks, pits, or ponds—were observed at the current RGP 94 sites. Also, no evidence or indication of releases of petroleum hydrocarbons, heavy metals, hazardous chemicals, or other "recognized environmental conditions"

were revealed at the current facilities. According to the California Department of Toxic Substances Control Hazardous Waste and Substances Site List (2020), only one active Hazardous Waste and Substances Site was identified in the city of Escondido. This site is known as the Chatham Brothers Barrel Yard and is located at 2257 Bernardo Avenue, Escondido, California. This site is approximately 1 mile from the closest facility location (H-07) and would therefore not create or contribute to a significant hazard to the public or environment.

Similarly, none of the newly proposed facilities are located within any site identified in the California Environmental Protection Agency's *Cortese List Data Resources*⁶ (2020). Facility locations E-48, E-50, E-49, and H-21 were identified adjacent to Leaking Underground Storage Tank (LUST) sites (State Water Resources Control Board 2020). However, all LUST sites were granted closure by the applicable oversight agency. In addition, facility location E-48 was also located 200 feet away from a Cleanup Program Site (Department of Toxic Substances Control 2020) involving a diesel and gasoline release. The site had been granted closure by the applicable oversight agency as well. Thus, impacts would be less than significant.

e. Be located within an airport land use plan area or, where such a plan has not been adopted, be within two miles of a public airport or public use airport, and result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not be located within 2 miles of a public airport or public use airport and would not result in a safety hazard for people residing or working in the area.

Similarly, none of the newly proposed facilities are located within 2 miles of a public airport or public use airport. The closest aviation facilities are the Ramona Airport located approximately 7.6 miles to the southeast (of H-15) and McClellan Palomar Airport located approximately 8.3 miles to the west (of SM-05). Thus, no impact would occur.

f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less-than-Significant Impact. The 2013 MND found implementation of the current RGP 94 is not expected to result in the need for additional emergency and fire facilities. The current RGP 94 consists of routine O&M activities and does not include activities or structures that would impair the implementation of, or physically interfere with, an adopted emergency response plan or evacuation plan.

As with the current RGP 94, the proposed project's O&M and work activities to be conducted at the newly proposed facilities would not include activities or structures that would impair the implementation of, or physically interfere with, an adopted emergency response plan or evacuation plan. O&M and work activities would be temporary and conducted in concrete channels, culvert inlet and outlets, etc. making interference with an emergency response plan or evacuation plan highly unlikely. Thus, impacts would be less than significant.

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⁶ The CalEPA *Cortese List Data Resources* are the online resources that provide information regarding the facilities or sites identified as meeting the "Cortese List" requirements.

g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would not expose people or structures to wildland fires as the majority of the O&M activities would be completed in an urban or suburban setting. The current activities do not include activities that would increase the risk of fires, so in areas where residences are intermixed with wildlands there would be no increased risks. Thus, the current RGP 94 O&M activities were not identified to result in the need for additional emergency and fire facilities.

The proposed project's O&M and work activities at the newly proposed facilities also would be completed in urban and suburban settings and would not include activities that increase the risk of fires. In addition, the work would be conducted at existing facilities and does not include the construction of new habitable structures (thus creating a potential impact on people or new structures). O&M and work activities under the proposed project would also not result in scenarios in which additional emergency and fire resources would be needed. Thus, impacts would be less than significant.

X. HYDROLOGY AND WATER QUALITY

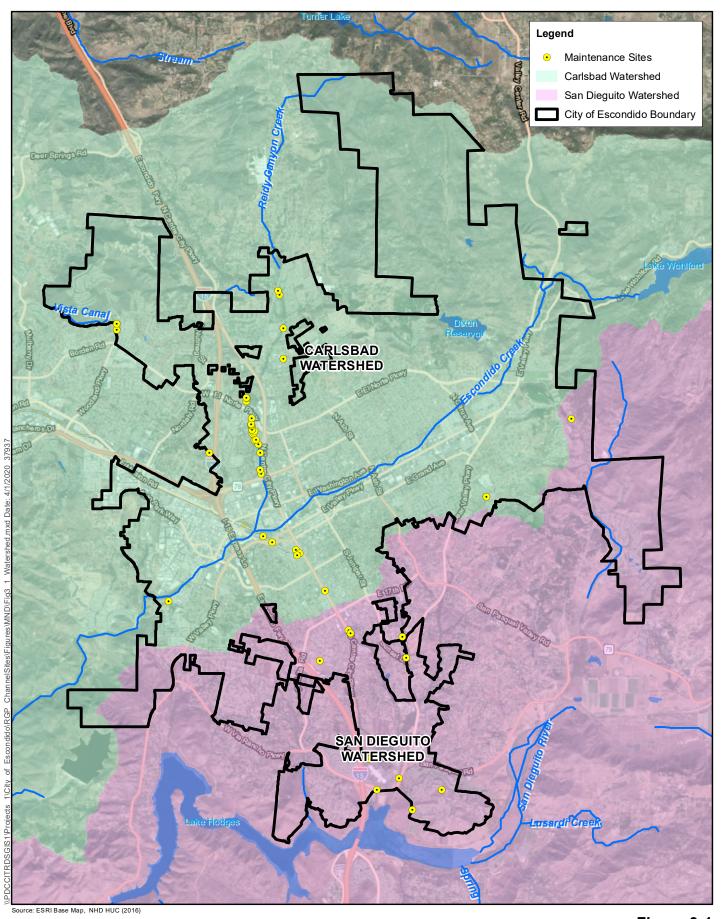
		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				_
a.	Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?				
b.	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?				
C.	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would:				
	 Result in substantial erosion or siltation on or off site; 				
	Substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or off site;				
	 Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or 				
	4. Impede or redirect flood flows?		\boxtimes		
d.	In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				
е.	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				

Background

The following discussion briefly describes the watershed characteristics specific to the project study area, including the beneficial uses of surface water and groundwater, and impaired waters.

Hydrologic Setting

The project study area falls primarily within two major watersheds, or HUs: Carlsbad and San Dieguito (Figure 3-1). Approximately 75 percent of Escondido is located within the Carlsbad Watershed. The majority of the City's northern jurisdiction drains to Escondido Creek within the Escondido Creek HA. Reidy Creek, located mostly within the city, is a main tributary to Escondido Creek. Runoff from a very small portion of the city drains into the San Marcos Creek HA, which ultimately flows to, and is contained in, Lake San Marcos. The Carlsbad Watershed drains to several coastal lagoons, including San Elijo Lagoon. Escondido Creek is tributary to San Elijo Lagoon, which is listed as being impaired for eutrophic conditions, indicator bacteria, and sedimentation and/or







siltation. Escondido Creek leaves the City's boundaries approximately 14 miles upstream of San Elijo Lagoon.

The southern part of Escondido is located within the San Dieguito Watershed. The major receiving water within the San Dieguito Watershed is the San Dieguito River. For the most part, the San Dieguito River is an ephemeral stream that flows into Lake Hodges during extreme wet weather. Additionally, except during extreme wet weather events, the water contained behind Lake Hodges Dam is rarely released and is allowed to proceed westerly to San Dieguito Lagoon. The majority of the city's area within this watershed drains to Felicita and Kit Carson creeks and ultimately Lake Hodges.

Table 3-13 below identifies the basins that encompass the project study area. The majority of the existing project facilities (47 facilities or 75 percent) occur in the Escondido Creek HA of the Carlsbad HU, with 12 facilities (19 percent) occurring in the Hodges HA of the San Dieguito HU and 4 facilities (6 percent) occurring in the San Marcos HA of the Carlsbad HU. The majority of the newly proposed facilities (14 facilities or 56 percent) occur in the Escondido Creek HA of the Carlsbad HU, with 9 facilities (36 percent) occurring in the Hodges HA of the San Dieguito HU and 1 facility (4 percent) occurring in both the San Marcos HA of the Carlsbad HU and the San Pasqual HA of the San Dieguito HU.

TABLE 3-13, WATERSHEDS IN THE PROJECT STUDY AREA

Basin ID	Hydrologic Subarea	Hydrologic Area	Hydrologic Unit
904.62	Escondido	Escondido Creek	Carlsbad
904.52	Richland	San Marcos	Carlsbad
905.21	Del Dios	Hodges	San Dieguito
905.32	Las Lomas Muertas	San Pasqual	San Dieguito

Figure 3-1 depicts the project sites in relation to the watersheds and surface waters within the City's jurisdiction.

Water Quality

Tables 3-14 and 3-15 list the beneficial uses of surface waters and groundwater within these basins as set forth in the Water Quality Control Plan for the San Diego Region (RWQCB 2016; Basin Plan).

TABLE 3-14. BENEFICIAL USES FOR INLAND SURFACE WATERS

Water Body	Beneficial Use	
Carlsbad Hydrologic Unit		
Escondido Creek (904.62)	MUN, AGR, IND ¹ , REC1, REC2, WARM, COLD, WILD	
Reidy Canyon Creek (904.62)	MUN, AGR, IND ¹ , REC1, REC2, WARM, COLD, WILD	
San Marcos Creek (904.52)	AGR ² , REC1, REC2, WARM, WILD	
San Dieguito Hydrologic Unit		
San Dieguito River (905.21)	MUN, AGR, IND, PROC, REC1, REC2, BIOL, WARM, WILD, RARE	
Lake Hodges (905.21)	MUN, AGR, IND, PROC, REC1 ³ , REC2, WARM, COLD, WILD, RARE	
Kit Carson Creek (905.21)	MUN, AGR, IND, PROC, GWR ¹ , REC1, REC2, WARM, RARE	

¹ Potential beneficial use.

² Excepted from municipal beneficial use.

³ Fishing from shore or boat permitted, but other water contact recreational (REC-1) uses are prohibited.

TABLE 3-15. BENEFICIAL USES FOR GROUNDWATER

Basin	Beneficial Use	
Carlsbad Hydrologic Unit		
Richland HSA (904.52)	MUN, AGR, IND	
Escondido HSA (904.62)	MUN, AGR, IND	
San Dieguito Hydrologic Unit		
Hodges HA (905.20)	MUN, AGR, IND	

Beneficial use designations are defined below. Additional detail is provided within the Basin Plan.

- MUN Municipal and domestic supply
- AGR Agricultural supply
- IND Industrial service supply
- PROC Industrial process supply
- GWR Ground water recharge
- REC1 Contact water recreation
- REC2 Non-contact water recreation
- BIOL Preservation of biological habitats of special significance
- WARM Warm freshwater habitat
- COLD Cold freshwater habitat
- WILD Wildlife habitat
- RARE Rare, threatened, or endangered species

Receiving waters within the project study area that are listed as impaired on the 2014/2016 CWA 303(d) List of Water Quality Limited Segments (SWRCB 2018) are provided in Table 3-16.

TABLE 3-16. CWA 303(D) LIST OF WATER QUALITY LIMITED SEGMENTS WITHIN THE CITY OF ESCONDIDO

Water Body	Impairment(s)	
Carlsbad Hydrologic	Unit	
Escondido Creek	Benthic Community Effects, Bifenthrin, DDT (Dichlorodiphenyltrichloroethane), Indicator Bacteria, Malathion, Manganese, Nitrogen, Phosphate, Selenium, Sulfates, Total Dissolved Solids, Toxicity	
San Marcos Creek	Benthic Community Effects, DDE (dichlorodiphenyldichloroethane), Indicator Bacteria, Phosphorus, Selenium Toxicity,	
San Dieguito Hydrolo	gic Unit	
Kit Carson Creek	Pentachlorophenol (PCP), Total Dissolved Solids	
Felicita Creek	1,4-Dioxane, Aluminum, Indicator Bacteria, Tetrachloroethylene, ¹ Total Dissolved Solids, TCE (Trichloroethylene)	
Lake Hodges	es Color, Manganese, Mercury, Nitrogen, pH, Phosphorus, Turbidity	

Source: SWRCB 2018

¹Tetrachloroethylene Is also known as perchloroethylene (PCE)

Flooding

As shown in Figure 3-2, the majority of the existing and proposed maintenance sites are outside of the 100-year floodplain, in areas of minimal flood hazard (FEMA Zone X). However, a number of sites are within the 100-year Floodplain Zone (Zones A, AE, AH, and AO). Table 3-17 lists the number of existing and proposed maintenance sites within the floodplain.

TABLE 3-17. NUMBER OF MAINTENANCE SITES WITHIN THE FLOODPLAIN

Flood Zone	Number of Maintenance Sites			
Existing Maintenance Sites				
A	4			
AE	19			
AH	2			
AO	7			
X	75			
Proposed Maintenance Sites				
A	13			
AE	5			
X	25			

Notes:

Zones A, AE, AH, and AO are within the 100-year floodplain zone. Zone X is outside of the 100-year floodplain, in areas of minimal flood hazard

Environmental Evaluation

Would the project:

a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

Less than Significant with Mitigation Incorporated. The 2013 MND concluded that with the incorporation of mitigation, implementation of the current RGP 94 would have a less-than-significant impact. Similar to the previous analysis in the 2013 MND, the proposed project has the potential to result in short-term water quality impacts. Potential water quality impacts include (1) sedimentation, siltation, and turbidity from ground-disturbing activities, vegetation removal, and dredging of channels; (2) redistribution of pollutants in disturbed sediment; and (3) pollutants from heavy equipment, including oil and grease, heavy metals, and various petroleum products. Table 3-18 below lists mitigation measures from the 2013 MND for hydrology and water quality that would be implemented to reduce potentially significant impacts to less than significant. Prior to the start of the project, all personnel would be educated on these avoidance and mitigation measures and other project BMPs (per Mitigation Measure WQ-1).

Standard erosion control measures and BMPs would be implemented during construction to minimize water quality degradation (Mitigation Measure WQ-5). Activities and land disturbances would be conducted at the minimum amount necessary (as required by Mitigation Measure WQ-2). Furthermore, erosion and sediment control techniques would be implemented during and after maintenance activities and inspected to ensure proper function during the duration of maintenance activities as required by Mitigation Measures WQ-5, WQ-6, WQ-7, WQ-17, and

BIO-10. Earth-disturbing activities would be avoided during the wet season to minimize potential erosion-related impacts per Mitigation Measure WQ-4.

Additionally, vehicles and equipment would be operated in a manner to prevent degradation of water quality (Mitigation Measures WQ-9 and WQ-16). Equipment, staging, stockpiling, and refueling would be located in upland areas away from receiving waters and limited to the project footprint and adjacent urban and developed areas (Mitigation Measure WQ-12). In the event of a spill of hazardous materials, the appropriate materials will be available on site to contain the spill or inadvertent release of pollutants into waterbodies (Mitigation Measure WQ-15). Due to the nature of the accumulated sediment/vegetation that would be proposed for removal, hazardous pollutant levels within the sediment would not be expected. Water diversion would be treated as required to protect water quality (Mitigation Measure WQ-14). Workers would also be trained in incorporating appropriate and effective water protection measures (Mitigation Measure WQ-1). Groundwater is not anticipated to be encountered and no dewatering activities would be required. Potential impacts on regulated waters and wetlands would be minimized through avoidance and minimization measures and appropriate authorization under Section 404 of the CWA obtained as required (Mitigation Measure WQ-10). Thus, mitigation and avoidance measures for water quality protection would be implemented to adequately control the potential discharge of pollutants during maintenance activities to a less-than-significant level. Therefore, impacts would be less than significant with the incorporation of mitigation.

- b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?
 - Less than Significant Impact. The 2013 MND concluded that implementation of the current RGP 94 would have a less-than-significant impact related to groundwater supplies and recharge. Similar to the previous analysis in the 2013 MND, the proposed project involves the routine removal of vegetation and/or sediment from various storm drain facilities (constructed and natural) for the proper function of the channel system and structures. No groundwater supply would be used during construction or operation activities; therefore, the project would not decrease groundwater supply. There would be no change in pervious cover; therefore, groundwater recharge potential would be the same as under existing conditions. Thus, the project would not interfere with groundwater recharge or impede sustainable groundwater management of the basin. Therefore, impacts would be less than significant.
- c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would?
 - 1. Result in substantial erosion or siltation on or off site?

Less than Significant with Mitigation Incorporated. The 2013 MND concluded that implementation of the current RGP 94 would not result in substantial erosion or siltation on or off site. During construction, stormwater drainage patterns could be temporarily altered. However, activities and land disturbances would be conducted at the minimum amount necessary and existing vegetation preserved to the extent practicable (as required by Mitigation Measures WQ-2 and WQ-3). The proposed project would implement BMPs to minimize the potential for erosion or siltation on or off site and temporary changes in drainage patterns during construction (Mitigation Measure WQ-5). The project serves to maintain positive hydraulic flow and ultimately increase storm water conveyance capacity compared to existing conditions within the limits of

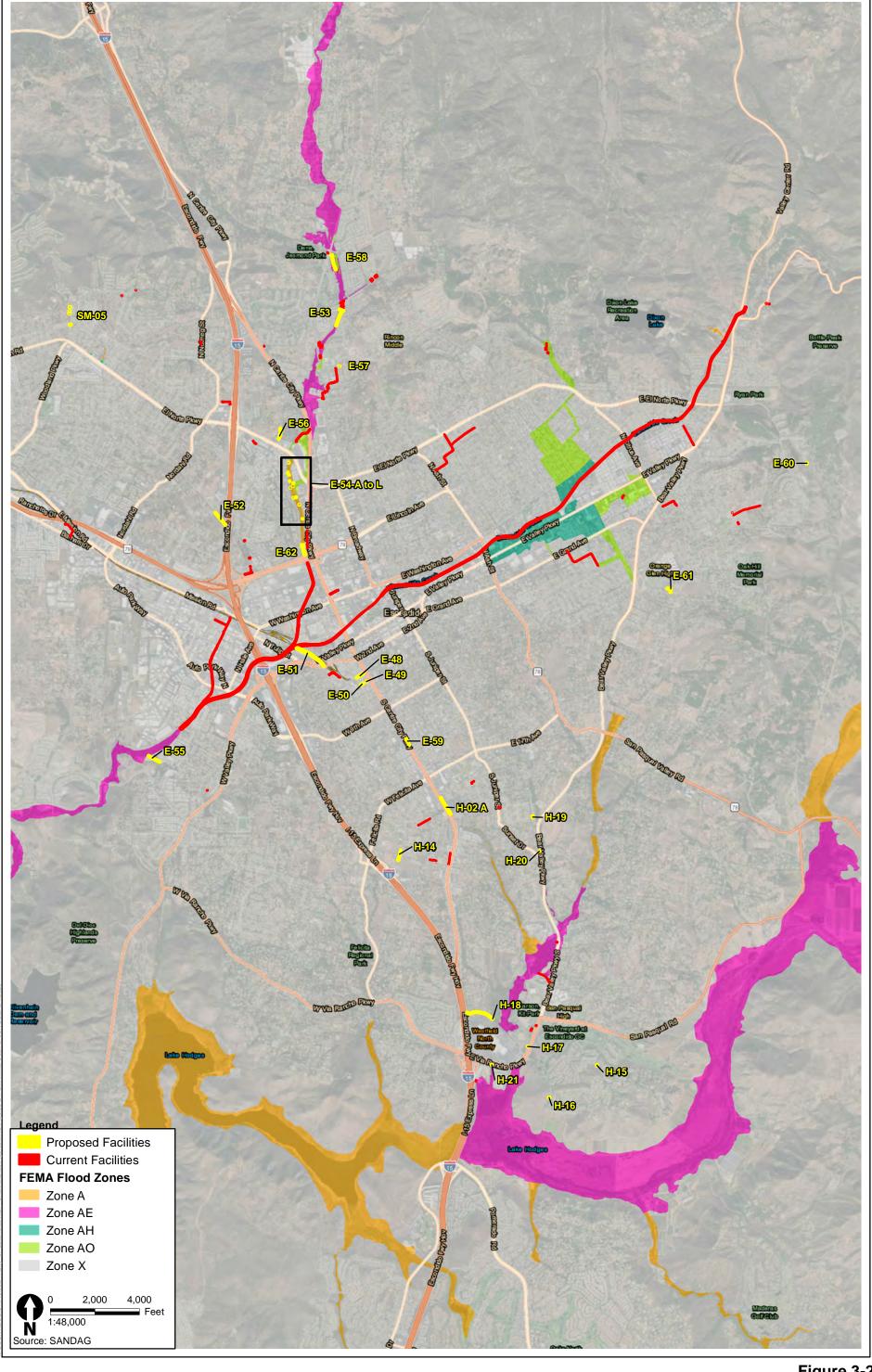


Figure 3-2 FEMA Flood Zones Within the Project Area Escondido RGP 94 Channel Maintenance Project

the original design. Proposed activities would not substantially alter the existing drainage pattern of the site or area. Furthermore, implementation of avoidance and mitigation measures for erosion, sediment, and runoff control (Mitigation Measures WQ-5, WQ-6, WQ-7, and BIO-10) would also reduce potential erosion or siltation impacts to a less-than-significant level. Impacts would be less than significant and the mitigation measures mentioned herein would further ensure impacts remain less than significant.

2. 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 2013 MND concluded that implementation of the current RGP 94 would not substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or off site. The proposed project does not include activities that would alter the existing drainage pattern of the maintenance sites in a manner that would result in a substantial increase in the rate or amount of surface runoff. The purpose of the proposed project is to improve runoff conveyance and minimize flooding potential. Construction BMPs would capture and infiltrate small amounts of sheet-flow into the ground such that offsite runoff from the construction site would not increase, ensuring that drainage patterns are not significantly altered. Thus, impacts would remain less than significant.

3. Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Less than Significant with Mitigation Incorporated. The 2013 MND concluded that implementation of the current RGP 94 would not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. The project serves to increase storm water conveyance capacity within the limits of the original design. Proposed improvements would not create or contribute runoff water to existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff. O&M activities are necessary to ensure proper function and integrity of the channel system and structures, and activities would not otherwise alter or expand the existing system. Mitigation measures would be implemented to ensure proper stormwater control and treatment and reduce the discharge of pollution. Access routes would be maintained to minimize impacts on receiving waters and minimize the discharge of pollutants (Mitigation Measure WQ-8). Implementation of avoidance and mitigation measures for runoff control, site spoil management, staging and stockpilling, trash management, and vehicle and equipment maintenance (Mitigation Measures WQ-5, WQ-12, WQ-13, WQ-14, and WQ-16) would also reduce potential additional sources of polluted runoff. In the event of a spill of hazardous materials, the appropriate materials would be available onsite to contain the spill or inadvertent release of pollutants into waterbodies (Mitigation Measure WQ-15). Thus, impacts would be less than significant with mitigation incorporated.

4. Impede or redirect flood flows?

Less than Significant with Mitigation Incorporated. The 2013 MND concluded that implementation of the current RGP 94 would not impede or redirect flood flows. During construction, stormwater drainage patterns, including flood flows may be temporarily impeded or redirected. However, standard erosion control BMPs would be implemented to limit site runoff during construction and reduce flood impacts (Mitigation Measure WQ-5). BMPs would be implemented to control construction site runoff and ensure proper stormwater and flood control.

After project implementation, no structures would be constructed that would impede or redirect flood flows. Impacts would less than significant, and the mitigation measure mentioned herein would further ensure impacts remain less than significant.

d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

Less than Significant with Mitigation Incorporated. The 2013 MND did not evaluate this impact, as the State CEQA Guidelines Appendix G Checklist was updated in January 2018. Although a number of sites are within the 100-year Floodplain Zone (Table 3-17; Figure 3-2), the majority of the existing and proposed maintenance sites are outside of the 100-year floodplain, in areas of minimal flood hazard (FEMA Zone X; FEMA 2012, 2016). Due to the distance from the Pacific Ocean (approximately 13 miles), the project site is not within a tsunami inundation area. Therefore, the proposed project is not subject to inundation by a tsunami. There are no reservoirs adjacent to the maintenance sites. Therefore, the proposed project would not be prone to inundation by a seiche.

In the event of a flood hazard, implementation of avoidance and mitigation measures for maintenance activities would minimize release of pollutants due to project inundation to a less-than-significant level. Therefore, implementation of avoidance and mitigation measures for runoff control (Mitigation Measures WQ-5 and WQ-14) would reduce potential water quality impacts to a less than significant level.

e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan;

Less than Significant with Mitigation Incorporated. The 2013 MND did not evaluate this impact, as the State CEQA Guidelines Appendix G Checklist was updated in January 2018. However, the 2013 MND stated standard erosion control BMPs would be implemented to minimize water quality degradation (Mitigation Measure WQ-5). Implementation of these BMPs would ensure stormwater discharges would not contain pollutants that cause or contribute to an exceedance of any applicable water quality objectives or water quality standards, including designated beneficial uses, as required by the Basin Plan. Minimization and avoidance measures would be implemented to control the potential discharge of pollutants and project water quality. Implementation of avoidance and mitigation measures to minimize impacts on receiving waters and minimize the discharge of pollutants, site spoil management, staging and stockpiling, trash management, and vehicle and equipment maintenance (Mitigation Measure WQ-9, WQ-11, WQ-12, WQ-13, WQ-16) would also reduce potential impacts on surface water quality objectives and/or beneficial uses as defined in the regional water quality control plan.

There would be no change in pervious cover; thus, groundwater recharge potential would be the same as under existing conditions. Therefore, the project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan and impacts would be less than significant with mitigation incorporated.

Mitigation Measures for Hydrology and Water Quality

TABLE 3-18. MITIGATION MEASURES FOR HYDROLOGY AND WATER QUALITY

Measure	Description
WQ-1 Worker Awareness	Prior to the start of the project, and annually thereafter, the City will educate all personnel on these avoidance and mitigation measures and other project best management practices (BMPs).
WQ-2 Minimization of Disturbance	The City will ensure that activities and land disturbance are the minimum necessary to (1) remove sediment and debris for the proper functioning of the storm water conveyance system and (2) prevent stagnant and ponding water in areas that have been demonstrated to support mosquito breeding.
	Where vegetation removal is necessary, the removal of native trees will be restricted in accordance with BIO-14.
WQ-3 Preservation of Existing Vegetation	The City will preserve existing vegetation to the extent practicable and ensure implementation of BIO-13, riparian vegetation avoidance and BIO-14, native tree avoidance.
WQ-4 Scheduling of Maintenance Activities	Maintenance activities will be scheduled to avoid or minimize earth disturbance during the wet season to the maximum extent practicable.
WQ-5 Erosion and Sediment Control	Maintenance activities will include a combination of BMPs for soil erosion and sediment control depending on site conditions, which can include:
	Erosion control/slope stabilization/bank protection erosion control blankets soil stabilizers organic mulch, such as wood chips and vegetation riprap Temporary sediment controls: silt fence sediment/desilting basins sediment traps fiber rolls gravel bag berm/barrier/dam straw bale barrier waterbag dams filters/filter bags
WQ-6 Inspection of Erosion and Sediment Control	All erosion and sediment control measures will be inspected/maintained to ensure proper integrity and function during the duration of maintenance activities. All post-activity stabilization and structural controls would be inspected for the duration of the maintenance activities and would be repaired or maintained for optimum performance.
WQ-7 Channel Alteration	If a stream channel, gradient, or lake margin have been temporarily altered during maintenance activities, the City will return the area to original design specifications or as closely as possible to pre-project conditions without creating a possible future bank erosion problem. Post-activity bank stabilization techniques (sediment and erosion control) will be implemented to further protect against bank erosion.
WQ-8 Site Access Management	The City will ensure that access routes to maintenance areas are selected and designed to minimize impacts to receiving waters, in particular the discharge of identified pollutants to an already impaired water body.
	Soil-tracking BMPs will be implemented to limit off-site transport of sediment from vehicles by implementing measures and site access points such as metal corrugated shaker plates, gravel strips, and/or wheel-washing sites.

Measure	Description
WQ-9	The City will not operate equipment or vehicles in ponded or flowing areas except
Vehicle/Equipment	as otherwise addressed in any of the project's applicable regulatory permits.
Operation	If maintenance activities require moving equipment across a flowing stream, the City will implement/install measures to prevent an increase to stream turbidity.
WQ-10	Potential impacts to regulated waters and wetlands will be minimized through
CWA Section 404	avoidance and minimization measures. Refer to Section IV, Biological Resources,
Compliance	and Mitigation Measure BIO-23.
WQ-11	The City will ensure that spoil sites shall not be located next to surface waters
Site Spoil Management	where spoil dewatering could potentially affect water quality, or where it will cover
	aquatic or riparian vegetation unless the site is specifically identified in the project's
1112 12	Notification of Lake or Streambed Alteration application.
WQ-12	Work materials, staging, storage, dispensing, fueling, and equipment maintenance
Staging + Stockpiling	activities will be located in upland areas outside of sensitive habitat, and adequate
	measures will be taken to prevent any potential runoff from entering receiving
	waters. Staging areas will be located within facility footprints or adjacent urban/developed areas.
WQ-13	Spoils, trash, or any debris will be removed off-site to an approved disposal facility.
Trash Management	Spenie, tradit, or any debrie will be removed on site to an approved disposal racinty.
WQ-14	All surface waters, including ponded waters, will be diverted away from areas
Water	undergoing dredging or vegetation removal and/or any other activity that may
Diversion/Dewatering	result in a discharge to the receiving water. When water diversion is necessary, a
	temporary dam or other artificial obstruction will be constructed using materials
	that will cause little or no siltation and ensure water does not enter the work area.
	Water will be diverted around the maintenance facility without completely
	obstructing stream flow. When maintenance is completed, the flow diversion
	structure will be removed as soon as possible in a manner that allows flow to
	resume and prevents accumulated debris or sediment from returning to the
	stream.
	If dewatering is conducted, either a pump will move water to an upland disposal
	site, or a sediment basin or other structure will be used to collect and treat the
	water. If applicable, a National Pollutant Discharge Elimination System permit may
	be required. If not applicable, the water returned to the waterway should be
	equivalent in nature to pre-activity conditions.
	Additional water modificance may be a conditional of the 404 Mater
	Additional water quality measures may arise as conditions of the 401 Water Quality Certification or Nationwide Permit #33 (if pursued) and applicable
	stipulations of a 1602 SAA, if applicable. The City will adhere to these and any
	other applicable conditions and avoidance measures.
WQ-15	The City will maintain appropriate types and sufficient quantities of materials on-
Spill Control	site to contain any spill or inadvertent release of materials that may cause a
	condition of pollution or nuisance if the materials reach waters of the U.S. and/or
	state.
WQ-16	The City will ensure that all vehicles and equipment utilized for maintenance
Vehicle/Equipment	activities are well maintained and not leaking fluids. Vehicle or equipment
Maintenance	maintenance (including fueling) will not be performed on-site or in a manner that
	could contribute pollutants to receiving waters.
WQ-17	Post-maintenance activity erosion and sediment control will be implemented as
Post-Activity Erosion and	applicable, including landscape planting and other slope stabilization techniques
Sediment Control	(i.e., hydroseed and/or hydromulch).

XI. LAND USE AND PLANNING

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a.	Physically divide an established community?				\boxtimes
b.	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				

Environmental Evaluation

Would the project:

a. Physically divide an established community?

No Impact. The 2013 MND states that the proposed project would not create any new land use barriers, or otherwise divide or disrupt the physical arrangement of the surrounding community because the project does not propose the construction of any new structures that might divide an established area. Under this threshold, a significant impact could occur if a project were sufficiently large enough or otherwise configured in such a way as to create a physical barrier within an established community by impeding access between parts of the community. Projects that typically have the potential to physically divide an established community are projects such as railroads, highways, airports, and stadiums, none of which are proposed as part of the project. The O&M activities proposed as part of the project would be limited to facilities that already exist within the city, and no construction or development of additional flood control facilities is proposed. Therefore, impacts related to physically dividing an established community would not occur.

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

Less-than-Significant Impact. The 2013 MND states that, from a land use perspective, no adverse impacts from the proposed project are anticipated because O&M activities would be conducted in existing channels and structures, and would not alter existing uses or conflict with local land use planning policies. The proposed project would add 24 additional facility locations, expand a current facility location (already included in the RGP), and include additional work activities. However, all 87 facilities are existing concrete and earthen stormwater facilities within the city, and the proposed O&M activities would not alter existing uses or conflict with any land use plans or policies designed to avoid or mitigate environmental effects. Therefore, the impact would be less than significant.

XII. MINERAL RESOURCES

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld 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 Evaluation

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?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in the loss of availability of a known mineral resource that would be of value to the region and residents of the state (City of Escondido 2012). Similarly, the proposed project consists of routine O&M activities that would not be located within or adjacent to any mineral extraction activities or Surface Mining and Reclamation Act (SMARA)-designated areas, and there would be no loss of availability of valuable mineral resources site (California Department of Conservation 2015). Therefore, impacts related to the loss or reduction of a valuable mineral resource would not occur.

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?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan (City of Escondido 2012). Similarly, the proposed project would not be located within or adjacent to any mineral extraction activities or SMARA-designated areas, and would not result in the loss of availability of a locally important mineral resource recovery site (California Department of Conservation 2015). Therefore, impacts related to loss of a locally important mineral resource recovery site would not occur.

XIII. NOISE

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a.	Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies?				
b.	Generate excessive groundborne vibration or groundborne noise levels?				
C.	Be located within the vicinity of a private airstrip or an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport and expose people residing or working in the project area to excessive noise levels?				

Environmental Evaluation

Would the project:

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

Less-than-Significant Impact. The 2013 MND concluded that the current RGP 94 activities would not result in a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies. The 2013 MND stated that because current RGP 94 activities would consist of temporary O&M activities and would not create any new permanent noise sources, the project would not cause any permanent increase in ambient noise levels. Furthermore, because the project would not contain operational components that would be subject to Section 17-229 of the City's Municipal Code (see below), there would be no exceedance of those standards.

It is noted that the CEQA Appendix G checklist questions for Noise have changed since the 2013 MND was prepared. The current question "a", as stated above, combines three issues that were previously addressed in three separate questions in the 2013/2014 IS/MND. These were (1) compliance with applicable standards, (2) temporary or periodic increases in ambient noise, and (3) permanent increases in ambient noise. Because these issues have since been combined into a single checklist question, the following discussion relates to the combined findings for all three questions.

The 2013 MND identified that the applicable local noise standards are provided by the Escondido Noise Ordinance. The ordinance is contained in Chapter 17, Article 12, *Noise Abatement and Control*, of the City Municipal Code (Code). Noise level limits between adjacent properties are governed by Section 17-229 of the Code. Fixed-location public utility distribution or transmission facilities located on or adjacent to a property line are subject to the noise level limits in Section 17-229 of the Code, measured at or beyond 6 feet from the boundary of the easement upon which the

equipment is located. General construction noise is governed by Section 17-234 of the Code, which limits construction operations to 7 a.m. through 8 p.m., Monday through Friday, and on Saturdays between 9 a.m. and 5 p.m. and prohibits construction on Sundays and City holidays. Noise generated by grading activities is governed by Section 17-238 of the Code, which limits grading operations to 7 a.m. to 8 p.m., Monday through Friday and prohibits grading on Saturdays, Sundays, and City holidays. A variance for grading may be issued by the City Manager to allow grading operations on Saturdays between 10 a.m. and 5 p.m., if it can be demonstrated that it would serve the community good.

O&M activities at current RGP 94 facilities were classified as temporary construction activities subject to Code Sections 17-234 and 17-238. Both Code Sections 17-234 and 17-238 limit noise generated by construction equipment to a maximum of 75 A-weighted decibels (dBA) for a 1-hour equivalent noise level (L_{eq}) at the property line of any property developed for residential purposes, unless a variance is obtained from the City Manager (pursuant to Code Sections 17-249 through 17-257).

O&M noise sources at current RGP 94 facilities were assumed to include graders, backhoes, excavators, front end loaders, and other equipment. O&M activities would be limited by the City's Noise Ordinance such that they would not occur during the prohibited nighttime, weekend, and holiday periods. Based on construction noise data from the Federal Transit Administration, general construction schedule assumptions, and soft-site ground conditions, the analysis assumed O&M equipment would generate a 1-hour Leq of 70 dBA at 50 feet from the construction area, with a drop-off rate (i.e., noise attenuation rate) of 7.5 decibels (dB) per doubling of distance from the source. Thus, while noise levels within and adjacent to the current RGP 94 facilities would temporarily increase during the O&M period, it was concluded that the increase would not be considered substantial, and construction-related noise levels would not exceed the noise level limits identified in Sections 17-234 and 17-238 of the Code.

Work to be conducted at the newly proposed facilities (i.e., new and extended sites) for the proposed project would consist of the same type of O&M activities conducted at current facilities. Work activities at any individual facility would be conducted approximately annually or biannually, and most O&M activities would be completed within 2 to 5 days. O&M activities, including newly proposed repairs and maintenance of existing hardscaped structures, would use the same general equipment types considered in the 2013 MND, including manual hand tools (e.g. rakes, shovels, loppers), mechanical hand tools (e.g., chain saws, string trimmers, hedge trimmers), and, in some locations, heavy mechanical equipment (e.g. grader, backhoe, excavator, skid steer, front-end loader, bobcat). Consequently, the resulting noise levels would be the same as those predicted for current facilities. Like activities at current facilities, proposed O&M activities would be limited by the City's Noise Ordinance and would not occur during the prohibited nighttime, weekend, and holiday periods. Newly proposed facilities would be located adjacent to a mix of neighborhoods and land uses that are the same or very similar to those surrounding current facilities. As a result, the noise levels and associated impacts from newly proposed facilities would be essentially the same as those from current facilities. Thus, while noise levels within and adjacent to the newly proposed facilities would temporarily increase during the O&M period, the increase would not be substantial, and construction-related noise levels would not exceed the noise level limits identified in Sections 17-234 and 17-238 of the Code.

Because the proposed project would consist of temporary O&M activities and would not create any new permanent noise sources, the proposed project would not cause any permanent increase in ambient noise levels. Furthermore, because the project would not contain operational components

that would be subject to Code Section 17-229, there would be no exceedance of those standards. As a result, the O&M activities at newly proposed facilities would not result in a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies. Thus, impacts would be less than significant.

b. Generate excessive groundborne vibration or groundborne noise levels?

Less-than-Significant Impact. The 2013 MND concluded that impacts related to groundborne vibration and groundborne noise impacts from the current RGP 94 would be less than significant. The 2013 MND noted that no pile driving or explosives blasting was anticipated as a result of the project. Thus, the most substantial vibration sources associated with the proposed project would be the O&M equipment used during vegetation clearing and dredging activities. Vibration levels from proposed equipment, reported as the peak particle velocity in inches per second (PPV in/sec), were found to be 0.1 PPV in/sec or less at distances of 30 feet or more. This impact was determined to be below applicable threshold for both annoyance to people and damage to structures.

Work to be conducted at the newly proposed facilities (i.e., new and extended sites) for the proposed project would be the same type of O&M activities conducted at current facilities. Work would use the same general equipment types, including manual hand tools, mechanical hand tools, and heavy mechanical equipment. No new high-intensity construction techniques (such as pile driving or blasting) would be introduced. Consequently, the vibration levels and associated impacts from proposed facilities would be essentially the same as those from current facilities. As a result, the O&M activities at proposed facilities would not result in excessive groundborne vibration or groundborne noise levels, and impacts would be less than significant.

c. Be located within the vicinity of a private airstrip or an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport and expose people residing or working in the project area to excessive noise levels?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not expose people residing or working in the project area to excessive noise levels due to airport or airstrip operations. It is noted that the CEQA Appendix G checklist questions for noise have changed since the 2013/2014 IS/MND was prepared. The current question "c", as stated above, combines two issues that were previously addressed in two separate questions in the 2013 MND. These were (1) noise from public airports or public use airports and (2) noise from private airstrips. The 2013 MND noted that the current RGP94 facilities are not located within an airport land use plan or within 2 miles of a public airport, public use airport, or private airstrip, and thus no impact would occur.

The newly proposed and extended sites under the proposed project would all be within the city of Escondido limits and, therefore, within the same general geographical boundaries considered in the 2013 MND. Similarly, no project sites (existing or proposed) would be located within an airport land use plan or within 2 miles of a public airport, public use airport, or private airstrip. Therefore, the proposed project would not expose people residing or working in the project area to excessive noise levels due to airport or airstrip operations, and no impact would occur.

XIV. POPULATION AND HOUSING

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	Would the project:				
a.	Induce substantial unplanned 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 a substantial number of existing people or housing, necessitating the construction of replacement housing elsewhere?				

Environmental Evaluation

Would the project:

a. Induce substantial unplanned 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 MND found that implementation of the current RGP 94 would neither directly nor indirectly induce substantial population growth in the area. Similarly, population within the surrounding area would not incrementally increase as a result of implementation of the proposed project (City of Escondido 2012). The proposed O&M activities would not alter the location, distribution, or population density within the area, nor would they adversely impact the city's housing demand. The proposed project does not propose to create or expand infrastructure that would induce population growth. Therefore, no impacts would occur.

b. Displace a substantial number of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The 2013 MND found that the implementation of the current RGP 94 would not displace a substantial number of people or housing, necessitating the construction of replacement housing elsewhere. Similarly, implementation of the proposed project would not displace a substantial number of people or housing (City of Escondido 2012). The proposed project consists of routine O&M activities and would not add any units to the existing housing stock and would not displace any people or create a demand for additional housing or necessitate the construction of housing elsewhere. Therefore, no impacts would occur.

XV. PUBLIC SERVICES

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a.	Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or a 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:				
	Fire protection?				\boxtimes
	Police protection?				\boxtimes
	Schools?				\boxtimes
	Parks?				\boxtimes
	Other public facilities?				\boxtimes

Environmental Evaluation

Would the project:

a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or a 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:

Fire protection?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on fire protection services. Similarly, the proposed project would not result in substantial adverse impacts on fire protection services. Escondido is currently served by seven fire stations, located throughout the city (City of Escondido 2012). Due to the nature of the proposed project, it would not impact fire protection services and would not result in the need for expanded fire protection services. No impacts would occur.

Police protection?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on police protection services. Similarly, the proposed project would not result in substantial adverse impacts on police protection services. Due to the nature of the project, no significant impacts on police services are anticipated, and the proposed project would not result in the need for expanded police protection services. No impacts would occur.

Schools?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on schools. Similarly, the proposed project would not result in substantial adverse impacts on schools. The proposed project site is within the Escondido Union School District and the Escondido Union High School District. Due to the nature of the proposed project, it would not result in additional elementary and high school students, and would not result in the need for construction of additional schools. No impacts would occur.

Parks?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on parks. Similarly, the proposed project would not result in substantial adverse impacts on parks. Due to the nature of the proposed project, it would not result in an incremental increase in demand on the city's recreational facilities, and would not result in the need for additional parks. Three proposed project sites are located within park sites: maintenance facility H-17 and H-18 located within Kit Carson Park (3333 Bear Valley Parkway), and maintenance facility E-56 located with Rod Mcleod Park (1701 South Iris Lane). As discussed in the project description, proposed project activities at these sites would consist of short-term operation and maintenance work and would not result in substantial adverse impacts on parks. Most work activities would be completed within 2 to 5 days, and all of the sites would be accessed without impacting the surrounding areas, which would include either development (i.e., private homeowner landscaping) or upland native habitat. Further, all O&M activities would be completed during normal business hours (7:30 a.m. to 6:00 p.m.), Monday through Friday. Facility H-17 maintenance activities include removal of accumulated sediment and weed removal, facility H-18 maintenance activities include removal of accumulated sediment and vegetation within the concrete channel and repairing a segment of concrete within the channel, and facility E-56 maintenance activities include removal of accumulated sediment and weed removal. No other project sites are currently used for recreational activities and none are listed as a potential park site in the City's Master Plan of Parks, Trails and Open Spaces (City of Escondido 1999). Therefore, no significant impact on recreational resources would occur as a result of the proposed project.

Other public facilities?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on libraries or other public facilities. Similarly, the proposed project would not result in substantial adverse impacts on libraries or other public facilities. Due to the nature of the proposed project, it would not result in a significant increase in demand on library services or the development of additional library spaces. No substantial adverse physical impacts associated with the provision of new or physically altered San Diego Gas and Electric facilities would occur. The proposed project would not impact or affect any other public facilities in a manner that would result in the need for additional or expanded public facilities.

XVI. RECREATION

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
a.	regional parks or other recreational facilities such that substantial physical deterioration of the facility				
b.	Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?				

Environmental Evaluation

Would the project:

a. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in substantial adverse impacts on existing neighborhood and regional parks or other recreational facilities. Similarly, the proposed project would not result in substantial adverse impacts on parks or recreational facilities. Due to the nature of the project, the O&M activities associated with the proposed project would not increase the use of existing neighborhood parks and regional parks or other recreational facilities. No impact on recreational resources would occur.

b. Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not include recreational facilities or require the construction or expansion of recreational facilities resulting in a substantial adverse impact on the environment. Similarly, the proposed project would not require construction or expansion of recreational facilities. The proposed project does not include any recreational facilities. Therefore, no impacts on recreational resources would occur.

XVII. TRANSPORTATION

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Would the project: a. Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities? b. Conflict or be inconsistent with State CEQA					
a.	addressing the circulation system, including				
b.	Conflict or be inconsistent with State CEQA Guidelines section 15064.3, subdivision (b)?				
C.	Substantially increase hazards because of a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
d.	Result in inadequate emergency access?				\boxtimes

Environmental Evaluation

Would the project:

a. Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not conflict with adopted policies, plans, or programs related to the performance of the circulation system or supporting alternative transportation. Similarly, the proposed project would not conflict with adopted policies, plans, or programs related to the performance of the circulation system or supporting alternative transportation. Project-related trips would primarily be associated with routine O&M activities and would be short term and temporary. The proposed project also would not impact any proposed bus routes or stops, or require the development of new or relocated bus stops. Therefore, no impact would occur.

b. Conflict or be inconsistent with State CEQA Guidelines section 15064.3, subdivision (b)?

Less-than-Significant Impact. The 2013 MND analyzed level of service impacts related to the current RGP 94 travel demand and did not include an analysis of vehicle miles traveled as described in State CEQA Guidelines Section 15064.3. Travel analysis conducted for the current RGP 94 found that vehicle trips would not substantially increase congestion or affect the level of service. Similarly, the proposed project consists of routine O&M activities that would not substantially increase congestion or affect the level of service. The proposed project would require on average three roundtrips per day. The frequency of maintenance activities would be site- and structure specific and would range from semi-annual to annual maintenance. Most of the maintenance activities would take between 2 to 5 days to complete; however, some sites would require work that could last up to 45 days. Given that the proposed project would only generate on average three roundtrips per day, well below OPR's screening threshold of 110 trips per day for small projects (Governor's Office of Planning and Research 2018), the proposed project would not conflict or be inconsistent with State CEQA Guidelines Section 15064.3, subdivision (b). Therefore, impacts would be less than significant and no mitigation is required.

c. Substantially increase hazards because of a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not substantially increase hazards due to a design feature or incompatible uses. Similarly, the proposed project would not substantially increase hazards due to a design feature or incompatible uses. The proposed project consists only of routine O&M activities and does not propose any changes to existing roadway design features or any incompatible uses. Therefore, no impact would occur.

d. Result in inadequate emergency access?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not result in inadequate emergency access. Similarly, the proposed project would not result in inadequate emergency access. All O&M activities of the proposed project would be completed off of the roadways and would not block a roadway or impede traffic in any way. Emergency and nonemergency response times of the Escondido Fire Department would remain the same with the proposed project. Therefore, no impact would occur.

XVIII. TRIBAL CULTURAL RESOURCES

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
in the site geo	uld the project cause a substantial adverse change he significance of a tribal cultural resource, defined Public Resources Code Section 21074 as either a stature, place, cultural landscape that is orgraphically defined in terms of the size and scope he landscape, sacred place, or object with cultural ue to a California Native American tribe, and that is:				
a.	Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				
b.	A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.				

Environmental Evaluation

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

a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

Less Than Significant Impact with Mitigation Incorporated. Records searches and archival research were negative for the presence of tribal cultural resources located within the project area. Additionally, ICF submitted a request to the Native American Heritage Commission (NAHC) for information in the Sacred Lands File database on May 21, 2019, in order to acquire more information about potential cultural resources within the APE and vicinity. A response from the NAHC was received on June 5, 2019. The NAHC indicated that no traditional cultural places are located within the APE that may be affected by the proposed project. Additionally, the NAHC provided a list of 31 Native American tribes and individuals to contact about the proposed project and requested follow-up phone calls. Letters were sent to the 31 Native American tribes and individuals (dated October 25, 2019). Responses were received from the Viejas Band of Kumeyaay Indians, the San Pasqual Band of Mission Indians, the Rincon Band of Luiseno Indians, and the Pala Band of Mission Indians. None of the responses from tribal contacts identified tribal cultural resources within the project area or vicinity, and consultation will continue as the project progresses.

AB 52, effective July 1, 2025, introduced the Tribal Cultural Resource as a class of cultural resource and additional considerations relating to Native American consultation into CEQA. Four Native

American tribes (Rincon, San Luis Rey, Soboba, and Mesa Grande) were mailed notification regarding the proposed project in conformance with AB 52. The Rincon and San Luis Rey tribes responded requesting formal consultation. Consultation was conducted with representatives from Rincon and San Luis Rey on June 17, 2020, along with review of select sites in the field with both Tribes. The Tribes requested monitoring at various sites and also agreed the standard mitigation measures developed with the Tribes and incorporated into the IS/MND for the project would adequately address any potential impact on Tribal Cultural Resources. Therefore, mitigation measures would be required for the project in order to address potential inadvertent discoveries of cultural resources, the content of which are included as mitigation measures CR1 through CR-4. Implementation of these mitigation measures would reduce potential impacts to tribal cultural resources to a less-than-significant level (see Section V. Cultural Resources).

b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1?

Less Than Significant Impact with Mitigation Incorporated. Records searches, archival research, NAHC, and tribal outreach were negative for the presence of tribal cultural resources located within the project area. See response to XVIII.a, above.

XIX. UTILITIES AND SERVICE SYSTEMS

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a.	Require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?				
b.	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?				
C.	Result in a determination by the wastewater treatment provider 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?				
d.	Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				
е.	Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				

Environmental Evaluation

Would the project:

a. Require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

No Impact. The 2013 MND found that implementation of the current RGP 94 would not exceed wastewater treatment requirements of the applicable RWQCB. Similarly, the proposed project would not exceed wastewater treatment requirements of the applicable RWQCB. The proposed project includes the maintenance of existing structures and does not include or require expansion of the system or construction of a new wastewater treatment facility or new storm water facilities. Therefore, implementation of the proposed project would not result in exceedance of wastewater treatment requirements and no impacts would occur.

b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?

No Impact. The 2013 MND identified that implementation of the current RGP 94 would not require a permanent source of water or require additional water entitlements. Similarly, the proposed project would not require a permanent source of water supply and would not require additional water

entitlements. Therefore, the proposed project would not result in a significant impact on water supplies, and no impacts would occur.

c. 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 2013 MND found that implementation of the current RGP 94 would not increase wastewater generation such that treatment facilities would be inadequate to serve the project's projected demand in addition to the provider's existing commitments. Similarly, the proposed project would not require wastewater treatment services or the expansion of a wastewater treatment facility. Therefore, no impact would occur.

d. Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

No Impact. The 2013 MND found that the current RGP 94 waste disposal needs would be minimal and could be adequately served by the local landfill. Similarly, the proposed project would not impair the attainment of solid waste reduction goals. Escondido Disposal, Inc. (EDI) currently provides solid waste removal service for the Escondido area. EDI also operates a solid waste transfer station at their Washington Avenue site where solid waste is consolidated into larger transfer trucks and taken to a class III landfill for disposal. Solid waste pick-up would be available for the project by EDI for all O&M activities. The proposed project's solid waste disposal needs would be minimal and could be adequately served by the local infrastructure. Therefore, no impact would occur.

e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

No Impact. The 2013 MND found that implementation of the current RGP 94 would comply with all federal, state, and local statutes and regulations related to solid waste. Similarly, the proposed project would comply with all applicable federal, state, and local statues related to solid waste. Maintenance personnel would dispose of solid waste in accordance with applicable solid waste regulations. All O&M activities would comply with all federal, state, and local statutes and regulation related to solid waste. Therefore, no impact would occur.

XX. WILDFIRE

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
clas	ocated in or near state responsibility areas or lands ssified as very high fire hazard severity zones, ald the project:				
a.	Substantially impair an adopted emergency response plan or emergency evacuation plan?			\boxtimes	
b.	Due to slope, prevailing winds, and other factors, exacerbate wildfire risks of, and thereby expose				
C.	project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that				
d.	may result in temporary or ongoing impacts on the environment? Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?			\boxtimes	

Environmental Evaluation

Would the project:

a. Substantially impair an adopted emergency response plan or emergency evacuation plan?

Less-than-Significant Impact. The 2013 MND found that implementation of the current RGP 94 would not substantially impair an adopted emergency response plan or emergency evacuation plan. Similarly, the proposed project would be consistent with, and not substantially impair, an adopted emergency response plan or emergency evacuation plan. The proposed project consists of routine O&M activities and does not include activities or structures that would impair the implementation of, or physically interfere with, an adopted emergency response plan or evacuation plan. The proposed O&M activities also are not expected to result in the need for additional emergency and fire facilities. Therefore, impacts would be less than significant.

b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks of, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Less-than-Significant Impact. As discussed above, the proposed project facilities are located at various sites within the city with varying topography, elevation, and setting. Sites are within suburban and urban areas, and surrounding development includes urban and suburban residences, commercial buildings, and shopping centers, schools, parks and open space, roadways, and other development types. General Plan land uses in the proposed project area are mainly Residential (Urban, Suburban, and Estate), Commercial, Planned Office, Public Land/Open Space, and Specific Plan Areas (Figure 2-4). Surrounding development varies in size, type, and age, and includes urban and suburban residences, commercial buildings and shopping centers, schools, parks and open

space, roadways and other development types. However, according to the State of California Fire Marshall (State of California Fire Marshall 2020), the proposed project is not located in a very high fire hazard zone area. In addition, as discussed in Section IX, *Hazards and Hazardous Materials*, the proposed project would not expose people or structures to wildland fires.

The proposed project would involve the routine removal of vegetation and/or sediment from various storm drain facilities (constructed and natural) for the proper function of the channel system and structures. Thus, due to the nature of the project, proposed activities would not increase the risk of wildfire or involve the construction of new habitable structures. Therefore, the proposed project would not expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire, and impacts would be less than significant.

c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts on the environment?

No Impact. The proposed project involves the routine removal of vegetation and/or sediment from various existing storm drain facilities (constructed and natural) for the proper function of the channel system and structures. As discussed in Section 2, *Project Description*, project facilities are located on privately owned parcels or on City easements or rights-of-way. All work would be completed on private land, and access to structures for O&M activities would typically be from the nearest public roadway. Most sites would be accessed without impacting the surrounding areas, which would include either development (i.e., private homeowner landscaping) or disturbed habitat. One site (E-58 Reidy Creek Golf Course) will require access points through upland native habitat as shown on Figure 2-3, Sheets 20 and 21. No installation or maintenance of wildfire infrastructure such as roads, fuel breaks, and emergency water sources is required, and thus the project would not result in temporary ongoing impacts on the environment. No impact would occur.

d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Less-than-Significant Impact. As discussed above in Section X, *Hydrology and Water Quality*, the purpose of the proposed project is to improve runoff conveyance and minimize flooding potential and would not affect flooding off site. In addition, as discussed in Section VII, *Geology and Soils*, the proposed project is not located in a landslide hazard zone. Therefore, the proposed project would not substantially alter the existing drainage pattern of the project area or result in a substantial increase in the rate or amount of surface runoff in a manner that would result in flooding on or off site. Therefore, impacts would be less than significant

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

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

Environmental Evaluation

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

Less than Significant with Mitigation Incorporated. Consistent with what was discussed in the 2013 MND and 2014 Addendum, the potential impacts on the environment as a result of the proposed project would be related to the resource areas of Biological Resources and Cultural Resources. As discussed in the preceding applicable sections, O&M activities at some of the citywide facility locations have the potential to impact special-status species, sensitive vegetation communities, and federally or state-protected wetlands or waters. Although no known cultural resources would be adversely affected by the project, mitigation measures are included to prevent adverse impacts on undiscovered cultural/tribal cultural resources or human remains. Thus, with incorporation of mitigation, impacts on cultural resources would be less than significant.

With the implementation of mitigation measures BIO-1 through BIO-23 and CUL-1 through CUL-7, and conditions of approval listed in this document, the project is not expected to have any significant impacts. The project would not degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, or cause the fish or wildlife population to drop below self-sustaining levels. The project would not threaten to eliminate a plant or animal community or substantially reduce the number or restrict the range of a rare or endangered plant or animal. The project would not eliminate important examples of the major periods of California history or pre-

history. Lastly, the project would not materially degrade levels of service of the adjacent streets, intersections, or utilities. Thus, impacts would be less than significant with mitigation incorporated.

b. Does the project have impacts that are individually limited but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

Less than Significant with Mitigation Incorporated. As discussed in the preceding paragraphs, protection of biological and cultural resources as well as hydrology and water quality would be achieved through implementation of mitigation measures (BIO-1 through BIO-23; CUL-1 through CUL-7; and WQ-1 through WQ-17) and would ensure that impacts remain less than significant. As a result, project implementation would not result in any individually limited, but cumulatively significant impacts on these resources.

Furthermore, when considering all potential environmental impacts of the proposed project, including impacts identified as less than significant in this IS/MND, together with the impacts of other present, past, and reasonably foreseeable future projects, there would not be a cumulatively considerable impact on the environment with the mitigation and monitoring measures incorporated into the proposed project.

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

Less-than-Significant Impact. Refer to XXI.a and XXI.b, above.

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SECTION 4. REFERENCES

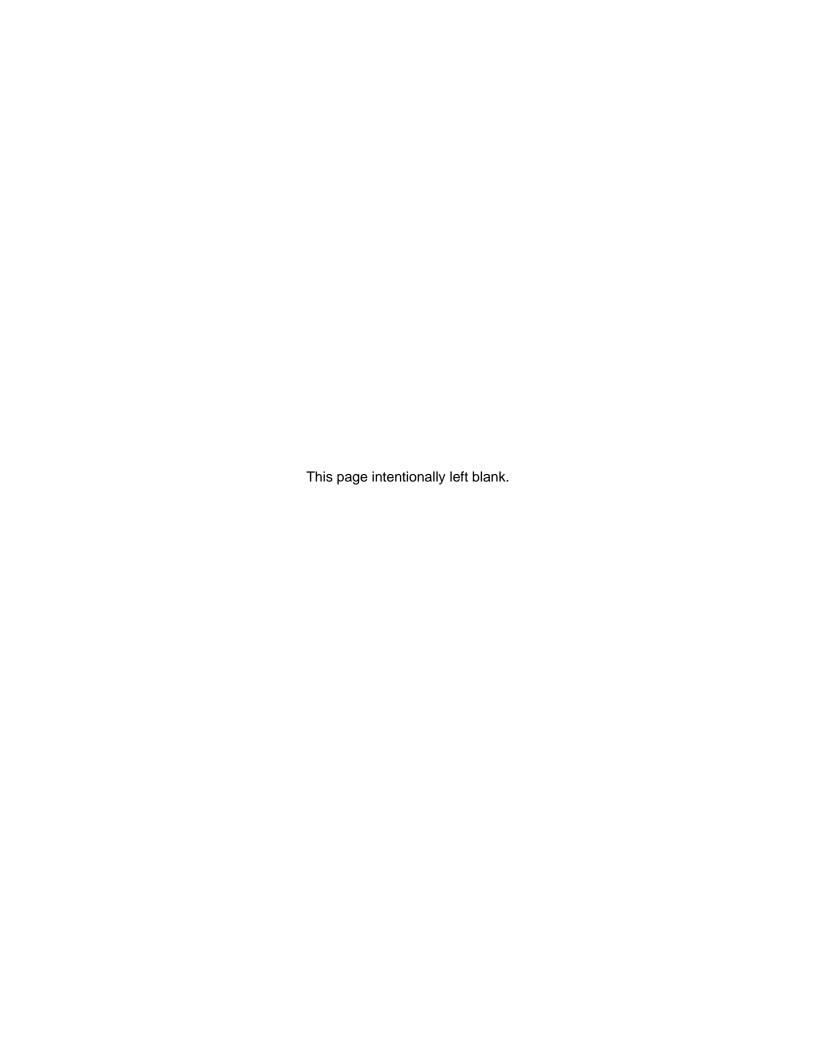
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APPENDIX A. MAINTENANCE ACTIVITIES FOR CURRENT RGP FACILITY LOCATIONS



Facilities with Hand Work Only			
Facility ID		Maintenance Activities Performed	
• E-13 • E-17 • E-18 • H-07		 Vegetation trimming/mowing using handtools such as chainsaw, hedge trimmer, and hand pruning saw. Debris and cuttings placed outside of jurisdictional waters before being removed from site. Crews walk into site for maintenance activities. No equipment within jurisdictional waters. 	
		emporary Diversion Fills during Maintenance Work	
Facilities with Tier I or II impacts			
Facility ID	Site Name	Maintenance Activities Performed	
Facility ID	Site Name 2107 Pepper Tree Place	Sediment and vegetation removal Equipment is staged on disturbed upland habitat and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.	

E-03	Nutmeg Street / Fire Station 3 (east outlet)	 Sediment and vegetation removal Equipment is staged on disturbed upland habitat and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-05	Carrotwood Glen (north outlet)	 Sediment and vegetation removal Equipment is staged on disturbed upland habitat and/or adjacent street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-06	Carrotwood Glen (east outlet)	 Sediment and vegetation removal Use of equipment such as backhoe to remove sediment and vegetation. Equipment enters jurisdictional waters to access and perform maintenance activities. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-11	Reidy Creek Golf Course (north outlet)	 Sediment and vegetation removal Use of equipment to remove sediment and vegetation. Equipment enters jurisdictional waters to access and perform maintenance activities. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-12	Reidy Creek Golf Course (creek crossing)	 Sediment and vegetation removal Equipment is staged on disturbed upland habitat and/or adjacent street and backhoe or excavator used to scoop sediment out of wetland area for clean excavation. No dragging of equipment along banks and no equipment in earthen section of channel. Temporary BMPs are placed within the channel to reduce impacts to downstream waters.

E-20	Vista Avenue (north segment)	 Sediment and vegetation removal Within concrete portion Equipment is within channel to remove sediment and debris. Within earthen portion Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-21	Vista Avenue (south segment)	 Sediment and vegetation removal Equipment is staged at top of bank or in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-24	Center City Parkway / Decatur Way	 Sediment and vegetation removal Equipment is staged at top of bank or in street and backhoe or excavator used to scoop sediment of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-25	Center City Parkway / Community Garden	 Sediment and vegetation removal Equipment is staged at top of bank or in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.

E-27	623 Escondido Boulevard	 Sediment and vegetation removal Equipment is staged on disturbed upland habitat and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-29	Trujillo Terrace (south outlet)	 Sediment and vegetation removal Equipment is staged at top of bank or in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-30	Trujillo Terrace (south inlet)	 Sediment and vegetation removal Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters. Temporary BMPs are placed within the channel to reduce impacts to downstream waters.
E-35	Lake Wohlford Road	 Sediment and vegetation removal Equipment is staged on disturbed upland habitat and/or street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-36	Lake Wohlford Court	 Sediment and vegetation removal Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters.

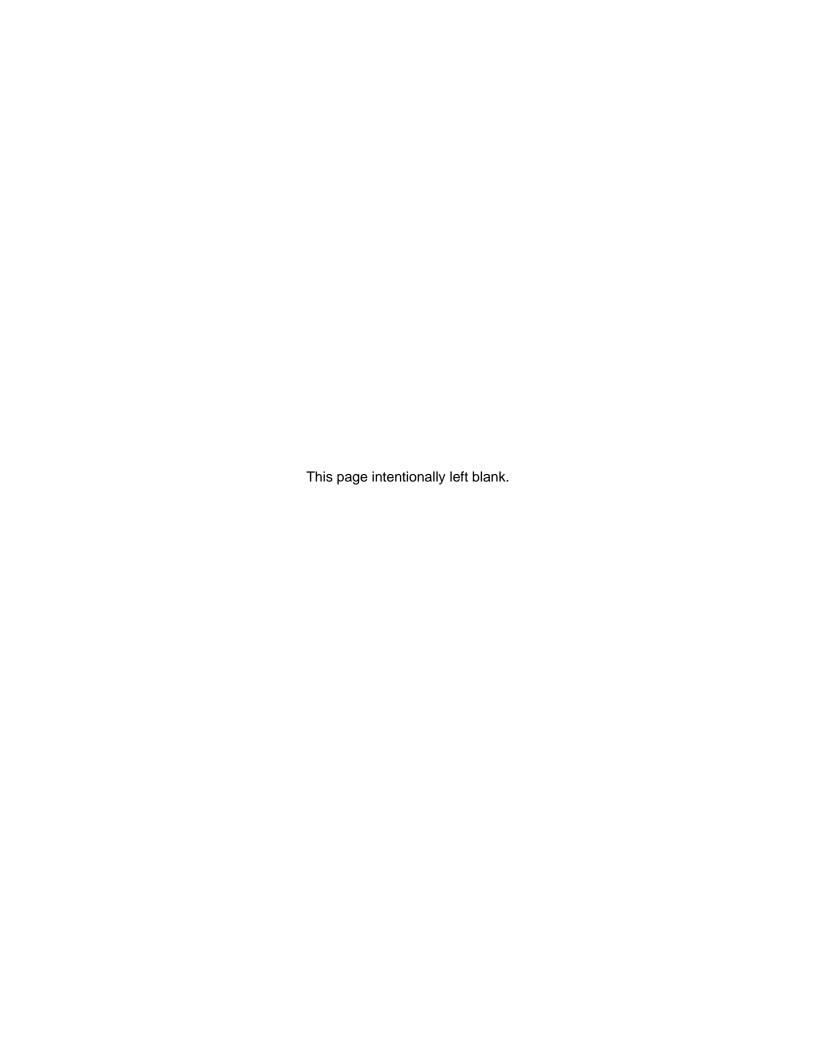
		 Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-40	Slivkoff Drive (east segment)	 Sediment and vegetation removal within a roadside ditch. Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-41	Slivkoff Drive (west segment)	 Sediment and vegetation removal within a roadside ditch. Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
E-42	Silverado Place	 Sediment and vegetation removal within a roadside ditch. Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
H-01	1855 Naranja Street	 Sediment and vegetation removal Use of equipment such as backhoe to remove sediment and vegetation. Equipment enters jurisdictional waters to access and perform maintenance activities. Temporary BMPs are placed within the jurisdictional waters to reduce impacts to downstream waters.

H-02	2035 Escondido Boulevard Corrected to: 1840 S Centre City Pkwy	 Sediment and vegetation removal Equipment is staged in street or disturbed upland habitat and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters. The expansion of this site is proposed with the RGP renewal.
H-03	Amparo Drive	 Sediment and vegetation removal Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
H-06	Center City Parkway / Brotherton Road	 Sediment and vegetation removal Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
H-08	Kit Carson Park (north outlet)	 Sediment and vegetation removal Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters.

		Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
H-09	Kit Carson Park (east channel)	 Sediment and vegetation removal Use of equipment such as backhoe to remove sediment and vegetation. Equipment enters jurisdictional waters to access and perform maintenance activities. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
H-10	Kit Carson Park (south outlet)	 Sediment and vegetation removal Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
H-11	Kit Carson Park (south driveway, culvert inlet)	 Sediment and vegetation removal Equipment is staged in street and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
H-12	Kit Carson Park (south driveway, culvert outlet)	 Sediment and vegetation removal Equipment is staged at top of bank and backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.

H-13	3680 Sunset Drive	 Sediment and vegetation removal. Equipment is staged on disturbed upland area and use of backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
SM-02	Golden Circle	 Sediment and vegetation removal. Equipment is staged on disturbed upland area and use of backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.
SM-03	Nutmeg Street / Country Club Lane	 Sediment and vegetation removal within a roadside ditch. Equipment is staged at top of bank or in street and use of backhoe or excavator used to scoop sediment out of jurisdictional waters; resulting in clean excavation. Shovels used to clean out remaining sediment. No dragging of equipment along banks and no equipment in jurisdictional waters. Temporary BMPs are placed within jurisdictional waters to reduce impacts to downstream waters.

APPENDIX B. AIR QUALITY/GREENHOUSE GAS EMISSIONS MODEL OUTPUTS



Assumptions

Equipment Type	Fuel Type	Quantity	Hours/day	CalEEMod or Off-Model/App D
		New Eq	uipment	
Chain saws	Gas	1	8	Appendix D
String trimmers	Gas	3	6	Appendix D
Hedge trimmers	Gas	1	6	Appendix D
Backhoe	Diesel	1	8	CalEEMod
Bobcat/Skid Steer	Diesel	1	8	CalEEMod
Excavator	Diesel	1	8	CalEEMod
		Current RGP 9	94 Equipment	
Loader	Diesel	4	8	CalEEMod
excavator	Diesel	4	8	CalEEMod
backhoe	Diesel	4	8	CalEEMod

Offsite trips

	Trucks or workers/day	<u>Miles/trip</u>	
Worker Trips	3	10.8	CalEEMod H-W Urban trip SDAB
Vendor Trucks	1	7.3	CalEEMod C-NW Urban trip SDAB
Haul Trucks	15	6	From applicant

Onsite trips	Hours/day	mph	miles/day	
Water Truck	3	5		15

General Assumptions

pounds per gram	0.00220462
metric tons per gram	1.00E-06
days per year (2020)	252
ton/lbs	0.0005

Grading PM10 EF	1.0605 lbs/acre	CalEEMod (no mitigation)
Grading PM2.5 EF	0.1145 lbs/acre	CalEEMod (no mitigation)

Emission Factor Summary Counties = San Diego

unt	ioc -	= Sar	Di.	Ono.

							F	unning (RUNE	X, PMTW, PME	BW) grams per n	nile				Process (IDLEX, STREX, TOTEX, DIURN, HTSK, RUNLS, RESTL) grams per trip										
Year	Air Basin	VehType	Lookup	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O
2020	SDAB	T6	2020SDABT6	0.21	3.46	0.59	0.09	0.26	0.08	0.08	0.01	1,050	0.01	0.17	0.01	1.81	0.17	0.00	0.00	0.00	0.00	0.00	58	0.00	0.01
2020	SDAB	T7	2020SDABT7	0.53	7.52	1.30	0.14	0.21	0.14	0.05	0.02	1,892	0.02	0.30	0.35	8.46	4.27	0.01	0.00	0.01	0.00	0.01	855	0.02	0.13
2020	SDAB	LDA-LDT	2020SDABLDA-LDT	0.02	0.07	0.80	0.00	0.12	0.00	0.02	0.00	302	0.00	0.01	0.90	0.25	2.45	0.00	0.00	0.00	0.00	0.00	62	0.07	0.03
2020	SDAB	T6Onsite	2020SDABT6Onsite	1.48	10.03	2.51	0.23	0.26	0.22	0.08	0.01	2,373	0.07	0.37	0.01	1.81	0.17	0.00	0.00	0.00	0.00	0.00	58	0.00	0.01
2020	SDAB	T7Onsite	2020SDABT7Onsite	2.11	17.47	4.14	0.29	0.21	0.27	0.05	0.02	3,669	0.10	0.58	0.35	8.46	4.27	0.01	0.00	0.01	0.00	0.01	855	0.02	0.13

Paved Road Dust Assumptions

Pollutant		Var	iables			Emission Factor (g per mi)
	k	sL	w	P	N	All Vehicles
PM10 D	0.0022	0.036423	2.4	42	365	0.1162
PM2.5 D	0.00	0.036423	2.4	42	365	0.0174

Unpaved Road Dust Assumptions

	Scenario	Pollutant		Variable	s			EF (g/mile)
-[k	s	w	а	b	I
	Unmitigated	PM10 D	1.5	4.3%	17.5	0.9	0.45	9.5
ı	Ommitigated	PM2.5 D	0.15	4.3%	17.5	0.9	0.45	0.9

CalEEMod Version: CalEEMod.2016.3.2

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Escondido RGP - San Diego Air Basin, Winter

Escondido RGP San Diego Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric	С			
CO2 Intensity (lb/MWhr)	535.7	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2017 SDG&E CO2e EF, based on 2019 Electric Procurement Revenue Require Forecasts and GHG-Related Forecasts, November 2018. (0.243 MTCO2e/MWh) 1 MT = 2204.62 lbs, 0.243 MT = 535.7 lbs CO2e/MWh

Land Use -

Construction Phase - Peak daily maintenance scenario.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Mobile emissions estimated using EMFAC.

Area Coating - SDAPCD Regulation 67.0.1 limits VOC content from architectural coatings.

Energy Use -

Grading -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	0.00	1.00
tblOffRoadEquipment	HorsePower	97.00	187.00
tblOffRoadEquipment	HorsePower	65.00	97.00
tblOffRoadEquipment	LoadFactor	0.37	0.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	9.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	720.49	535.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	38.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission) Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	ay							lb/d	ay		
2020	4.09	46.97	32.97	0.09	0.00	1.75	1.75	0.00	1.61	1.61	0.00	8525.31	8525.31	2.76	0.00	8594.24
Maximum	4.09	46.97	32.97	0.09	0.00	1.75	1.75	0.00	1.61	1.61	0.00	8525.31	8525.31	2.76	0.00	8594.24

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	lay							lb/d	ay		
2020	4.0852	46.9695	32.9678	0.0881	0.0000	1.7459	1.7459	0.0000	1.6062	1.6062	0.0000	8,525.309 5	8,525.3095	2.7573	0.0000	8,594.240 9
Maximum	4.0852	46.9695	32.9678	0.0881	0.0000	1.7459	1.7459	0.0000	1.6062	1.6062	0.0000	8,525.309 5	8,525.3095	2.7573	0.0000	8,594.240 9

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Num Days Week	Phase Description
1	Site Preparation	Site Preparation	3/23/2020	3/23/2020	5	1

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	5	8.00	158	0.38

Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Skid Steer Loaders	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	9	8.00	187	0.41

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	15	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.0852	46.9695	32.9678	0.0881		1.7459	1.7459		1.6062	1.6062		8,525.309 5	8,525.3095	2.7573		8,594.240 9
Total	4.0852	46.9695	32.9678	0.0881	0.0000	1.7459	1.7459	0.0000	1.6062	1.6062		8,525.309 5	8,525.3095	2.7573		8,594.240 9

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0													
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.0852	46.9695	32.9678	0.0881		1.7459	1.7459		1.6062	1.6062	0.0000	8,525.309 5	8,525.3095	2.7573		8,594.240 9
Total	4.0852	46.9695	32.9678	0.0881	0.0000	1.7459	1.7459	0.0000	1.6062	1.6062	0.0000	8,525.309 5	8,525.3095	2.7573		8,594.240 9

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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Escondido RGP - San Diego Air Basin, Annual

Escondido RGP San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electri	С			
CO2 Intensity (lb/MWhr)	535.7	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2017 SDG&E CO2e EF, based on 2019 Electric Procurement Revenue Require Forecasts and GHG-Related Forecasts, November 2018. (0.243 MTCO2e/MWh) 1 MT = 2204.62 lbs, 0.243 MT = 535.7 lbs CO2e/MWh Land Use -

Construction Phase - Peak daily maintenance scenario.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Mobile emissions estimated using EMFAC.

Area Coating - SDAPCD Regulation 67.0.1 limits VOC content from architectural coatings.

Energy Use -

Grading -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	0.00	1.00
tblOffRoadEquipment	HorsePower	97.00	187.00
tblOffRoadEquipment	HorsePower	65.00	97.00
tblOffRoadEquipment	LoadFactor	0.37	0.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	9.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	720.49	535.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	38.00	0.00

2.0 Emissions Summary

2.1 Overall Construction <u>Unmitigated Construction</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tons	/yr							MT	/yr		
2020	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.00	0.00	3.90
Maximum	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.00	0.00	3.90

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tons	s/yr							MT	/yr		
2020	2.0400e- 003	0.0235	0.0165	4.0000e- 005	0.0000	8.7000e- 004	8.7000e- 004	0.0000	8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983
Maximum	2.0400e- 003	0.0235	0.0165	4.0000e- 005	0.0000	8.7000e- 004	8.7000e- 004	0.0000	8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-23-2020	6-22-2020	0.0182	0.0182
		Highest	0.0182	0.0182

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/23/2020	3/23/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	5	8.00	158	0.38
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Skid Steer Loaders	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	9	8.00	187	0.41

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	15	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0400e- 003	0.0235	0.0165	4.0000e- 005		8.7000e- 004	8.7000e- 004		8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983
Total	2.0400e- 003	0.0235	0.0165	4.0000e- 005	0.0000	8.7000e- 004	8.7000e- 004	0.0000	8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							МТ	/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0400e- 003	0.0235	0.0165	4.0000e- 005		8.7000e- 004	8.7000e- 004		8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983
Total	2.0400e- 003	0.0235	0.0165	4.0000e- 005	0.0000	8.7000e- 004	8.7000e- 004	0.0000	8.0000e- 004	8.0000e- 004	0.0000	3.8670	3.8670	1.2500e- 003	0.0000	3.8983

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road Equipent (Gas) Emissions

Equipment	#/dav	hrc/day	hrc/day	hrs/day	НР	Pounds per day							Tons per year							Metric tons per year			
	#/uay	ili s/ uay	nr nr	ROG	NOx	со	PM10	PM2.5	PM10 D	PM2.5 D	SO2	ROG	NOX	со	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e
Chain Saws	1	8	15	32	1	89	0	0			0	4	0	11	0	0			0	27	0		32
Trimmers	4	6	5	5	2	101	0	0			0	1	0	13	0	0			0	26	0		27
Total	•			38	3	190	0	0	0	0	0	. 5	0	24	0	0		0	0	53	0	0	59

Table 7.2- Landscape Equipment Running Emission Factors g/bhp-hr

			Commercial or											
Equipment Type	Year	Engine	Residential	Low HP	High HP	R	OG	CO	NOx	SO2	PM10	PM2.5	CO2	CH4
Chainsaws		2020 G2	С		0	2	122.245	336.69	2.866	0.03	6 0.667	0.667	884.645	7.598
Chainsaws		2020 G2	C		6	15	727.09	1573.283	13.915	0.17	4 2.675	2.675	4229.983	45.192
Chainsaws		2020 G2	R		0	2	122.245	336.69	2.866	0.03	6 0.667	0.667	884.645	7.598
Chainsaws		2020 G2	R		6	15	727.09	1573.283	13.915	0.17	4 2.675	2.675	4229.983	45.192
Trimmers/Edgers/B	l.	2020 G2	R		0	2	77.851	285.983	2.482	0.03	1 0.449	0.449	772.991	4.838
Trimmers/Edgers/B	l .	2020 G4	С		3	5	19.759	381.691	8.585	0.02	9 0.361	0.361	858.879	1.111
Trimmers/Edgers/B		2020 G4	R		3	5	19.759	381.691	8.585	0.02	9 0.361	0.361	858.879	1.111

Grading Emissions

				Pounds	per day			
Strip (acres/day)	ROG	NOX	СО	PM10	PM2.5	PM10 D	PM2.5 D	SO2
1						1.0605004	0.1145092	

Mobile Emissions

	Veh type	VMT/day	Trips/day	Pounds per Day											ric Tons per	Day	Metric Tons per Year			
	ven type	vivii/uay	111ps/uay	ROG	NOx	СО	PM10 Ex	PM10 D	PM10 Total	PM2.5 Ex	PM2.5 D	PM2.5 Total	SO2	CO2	CH4	N2O	CO2	CH4	N2O	CO2e
Worker Trips	LDA-LDT	65	6	0.01	0.01	0.15	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00	5	0	0	5
Haul Trucks	T7	180	30	0.23	3.54	0.80	0.06	0.08	0.14	0.05	0.02	0.08	0.01	0.37	0.00	0.00	92	0	0	97
Vendor Trucks	T6	15	2	0.01	0.12	0.02	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.02	0.00	0.00	4	0	0	4
Water Trucks	T6Onsite	15	1	0.05	0.34	0.08	0.01	0.01	0.02	0.01	0.00	0.01	0.00	0.04	0.00	0.00	9	0	0	9
Total	•			0	4	1	0	0	0	0	0	0	0	0	0	0	110	0	0	115

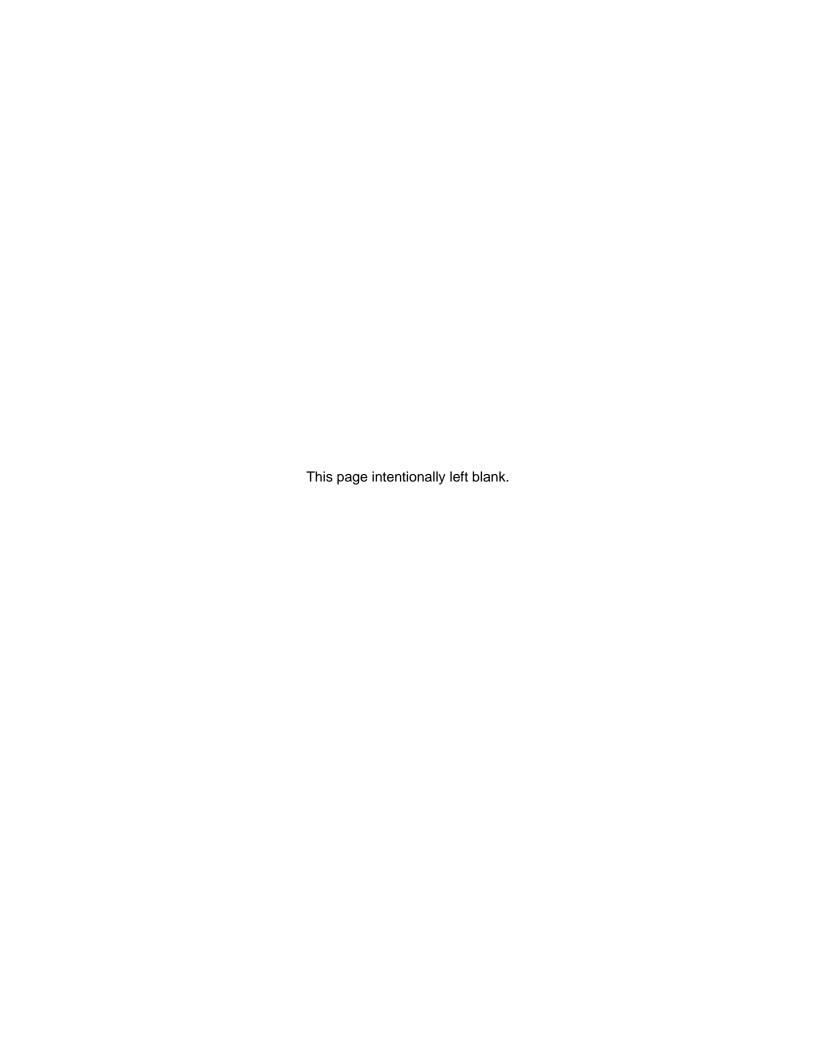
Daily Criteria Air Pollutant Emissions (lbs/day)

Daily Citteria Air Foliatant Emissions (185) day)								
	ROG	NOx	cc	o s	Ох	PM10	PM2.	5
Offroad Equipment	4	2	50	223	C)	2	2
Mobile		0	4	1	()	0	0
Grading		0	0	0	()	1	0
Total	4	2	54	224	()	3	2
Threshold	75	25	0	550	250	100	5	5
Exceed Threshold?	No	No)	No	No	No	Ν	0

Annual GHG Emissions (MTCO2e/year)

	•		<u> </u>
CO2	CH4	N2O	CO2e
57	0	0	63
110	0	0	115
0	0	0	0
167	0	0	178
Threshold			2,500
Exceed Thres	hold?		No

APPENDIX C. BIOLOGICAL RESOURCES MEMORANDUM





Memorandum

То:	Elisa Marrone City of Escondido
From:	Lanika Cervantes; ICF
Date:	March 3, 2020
Re:	City of Escondido Regional General Permit 94 – Biological Resources Memorandum

This memorandum documents the results of the jurisdictional delineation (JD), vegetation mapping, and habitat assessment effort completed for the new facility locations to be added to the City of Escondido Regional General Permit (RGP) 94.

Project Description

As part of the City of Escondido's (City) ongoing needs to effectively maintain its municipal separate storm system (MS4), the City is planning to add an additional 24 facility locations, expand a current facility location, as well as include additional work activities.

The overall project description for all new and existing facility locations is provided below.

The types of facilities that will be added as new facilities under the RGP 94 are listed below and include:

- Earthen streams/creeks and storm water channels with hydrologic regimes ranging from ephemeral to perennial,
- Concrete bottom channels with hydrologic regimes of ephemeral and intermittent,
- Culverts and their associated inlets and outlets, and
- A storm water basin.

The following work activities will be conducted at the new and existing facility locations:

- Accumulated sediment and herbaceous vegetation within concrete channels and earthen streams/creeks will be excavated to allow for positive flow,
- Culvert inlets and outlets will be excavated and cleared within a specified radius,

- Nonnative trees will be removed within specified facility locations,
- One-time native tree removal to gain access and/or allow for positive flows will occur at specific
 facility locations (either cut at stump, leaving root in place or root and all removal depending on
 its location),
- Native shrub and tree cover that inhibit positive flow and create debris jams will be trimmed,
 and
- Accumulated sediment and vegetation within a basin will be excavated.

Project Location

The Project is located within drainage facilities located at multiple sites in the city of Escondido, California (Figures 1 and 2 located in Attachment 1).

Methodology

Prior to beginning the biological surveys, ICF biologists Lanika Cervantes and William Kohn reviewed aerial photography and areas with topographical configurations and vegetative signatures occurring within the survey areas. Table 1 below presents the survey dates and personnel who conducted the surveys.

Table 1. Survey Dates

Date of Survey	Personnel	Survey Details
February 18, 2019	Lanika Cervantes and William Kohn	JD; Veg Mapping; Habitat Assessment
February 26, 2019	Lanika Cervantes and William Kohn	JD; Veg Mapping; Habitat Assessment
February 27, 2019	William Kohn and Ryan Layden	JD; Veg Mapping; Habitat Assessment
March 25, 2019	Shawn Johnston and Kelsey Dix	Veg Mapping and rare plant species potential
November 1, 2019	Lanika Cervantes and Kelsey Dix	JD; Veg Mapping, Habitat Assessment

Vegetation Communities

Vegetation communities were mapped within the survey areas according to the Holland Vegetation Classification (Holland 1986) as amended by Oberbauer (2018) to describe the unique vegetation communities of San Diego County. Vegetation communities were delineated using an Apple iPad using Collector Map with a sub-meter accuracy global positioning systems (GPS) unit.

Habitat Assessment

A California Natural Diversity Database (CNDDB) list was generated prior to the habitat assessment to determine which species have potential to occur within the 24 facility locations. Based on this list, it was determined that least Bell's vireo (*Vireo bellii*) (LBVI), coastal California gnatcatcher (*Polioptila californica*) (CAGN), and San Diego Ambrosia (*Ambrosia pumila*) have a high potential to occur within the project sites. The habitat assessment focused on surveying for suitable riparian nesting and foraging habitat for least Bell's vireo, suitable Diegan coastal sage scrub nesting and foraging habitat for coastal California gnatcatcher, and suitable habitat for San Diego Ambrosia. Critical habitat for coastal California gnatcatcher was determined by overlaying the U.S. Fish and Wildlife Service Critical Habitat Map with a map of the project boundaries in ArcGIS. All other Threatened, Endangered, and Special Status Species along with suitable nesting habitat were also documented during the habitat assessment.

Jurisdictional Delineation

Prior to beginning the field delineation, aerial photography, USGS topographic maps, the national hydrography dataset (NHD), and the National Wetland Inventory (NWI) maps were analyzed to determine the locations of potential areas of US Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife (CDFW) jurisdiction.

Potential jurisdictional features were evaluated for the presence of a definable channel and/or wetland vegetation, soils, and hydrology. The delineation area was analyzed for potential wetlands using the methodology set forth in the 1987 USACE Wetland Delineation Manual (Environmental Laboratory 1987) and the 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (USACE 2008a). While in the field, the jurisdictional feature was mapped using an Apple iPad using Collector Map with a sub-meter accuracy global positioning systems (GPS) unit.

Results

Vegetation Communities

A total of 17 vegetation communities were mapped within the facility locations and their 100-foot survey buffer. Below is a description of each vegetation community. Table 2 presents the total acreage of each vegetation community occurring with the Facility Locations where excavation and removal of vegetation is proposed using heavy equipment and their survey buffers. Table 3 presents the total acreage of each vegetation community occurring within the Facility Locations where only removal of nonnatives and trimming of native vegetation is proposed using handtools only and their survey buffers.

Southern Arroyo Willow Riparian Forest 61320

This riparian habitat is dominated by arroyo willow (*Salix lasiolepis*) and understories usually consist of shrubby willows, such as red willow (*Salix laevigata*). Other species found in this habitat type in the survey area include: fan palm (Washington fillferia), pampas grass (*Cortaderia selloana*),

and an emergent wetland understory structure. Within the survey area, this is one of the dominate vegetation communities within the larger natural drainage areas.

Southern Cottonwood-Willow Riparian Forest 61330

This habitat is dominated by cottonwoods (*Populus fremontii*) and sycamores (*Platanus racemosa*) along with several tree and shrubby willows (*Salix* spp.). Other species that can be found include: mule fat (*Baccharis salicifolia*), wild cucumber (*Marah macrocarpa*) and nettles (*Urtica* spp.). Disturbed Southern Cottonwood-Willow Riparian Forest occurs along Reidy Creek and is due to the sparse canopy of native trees and the abundance of Mexican fan palms (*Washingtonia robusta*). Within the survey area, this is one of the dominate vegetation communities within the natural drainage areas.

Emergent Wetland 52440

Emergent wetlands are generally persistent wetlands that are dominated by low growing, perennial wetland species, such as (*Anemopsis*), (*Eleocharis* spp.), spiny rush (*Juncus* spp.), wild rose (*Rosa californica*), mule fat (*Baccharis salicifolia*), and small willows (*Salix* spp.). These often occur in areas of previous disturbance and the full diversity of species are not yet established. Within the survey area, this vegetation community occurs directly adjacent to riparian habitat within Reidy Creek and tributaries to San Dieguito Creek.

Coastal and Valley Freshwater Marsh 52400

This habitat type is dominated by perennial monocots that often form closed canopies. Bulrush (*Scirpus* spp.) and cattails (*Typha* spp.) are the dominate species along with *Carex* spp. and *Eleocharis* spp. Within the survey area, this vegetation community occurs near the low flow channels of larger drainage areas within Reidy Creek.

Mule Fat Scrub 63310

Mule fat scrub is a riparian community solely dominated by mule fat (Baccharis salicifolia) and is commonly found where flooding is frequent, otherwise more established tree would dominate the landscape. Within the survey area, this vegetation community occurs within the Reidy Creek Golf Course and the Kit Carson Bike Train facility locations.

Southern Riparian Scrub 63300

This habitat occurs in riparian regions that are dominated by small trees or shrubs, without taller riparian trees. Many willow species are common (*Salix* spp.), as well as coyote bush (*Baccharis sarothroides*). Other species found within this community while surveying were: cattails (*Typha* spp.), laurel sumac (*Malosma laurina*), Acacia spp., and sages (*Salvia* spp.). Within the survey area, this vegetation community occurs within the larger natural drainage areas.

Southern Willow Scrub 63320

This habitat is a dense aggregation of several willow species (*Salix* spp.) with a few small cottonwoods (*Populus fremontii*) and scyamores (*Platanus racemosa*). Due to the dense nature of the stands, there is poor understory development. Within the survey area, this vegetation community occurs within the larger natural drainage areas.

Open Water 64110

These areas are considered to contain year-round bodies of water with less than 10% vegetative cover that form lakes, streams, ponds or rivers. Within the survey area, Reidy Creek supports areas of open water due to dense vegetation that causes ponding and the inability for water to flow downstream.

Unvegetated Channel 64200

These areas consist of sandy, gravelly, or rocky fringes of waterways or flood channels. There is typically little to no vegetation present within these areas. Within the survey area, this is the main habitat type that occurs within the facility locations.

Coast Live Oak Woodland 71160

This vegetation community is dominated by coast live oak (*Quercus agrifolia*). The shrub layer is poorly developed and the herb understory is usually composed of non-native grasses (*Bromus* spp.). Within the survey area, this vegetation community is found in small locations near facilities and roadways.

Southern Coast Live Oak Riparian Forest 61310

This riparian habitat type is dominated by coast live oak (*Quercus agrifolia*) and it often has a richer understory of herbs while poorer in shrubs when compared to other riparian communities. Within the survey area, this vegetation community occurs within facility locations adjacent to open space.

Diegan Coastal Sage Scrub 32500

Diegan coastal sage scrub occurs in steep, xeric slopes dominated low, soft-woody subshrubs, California sagebrush (*Artemisia californica*) and California buckwheat (*Eriogonum fasciculatum*), with other species such as laurel sumac (*Malosma laurina*), white sage (*Salvia apiana*), and black sage (*Salvia mellifera*). Only a small amount of Diegan coastal sage scrub habitat occurs in a facility location, this vegetation community primarily occurs within the survey buffer.

Eucalyptus Woodland 79100

Eucalyptus woodlands are non-native stands of Eucalyptus spp., most commonly blue gum (*Eucalyptus globulus*) and red gum (*E. camaldulensis*), usually planted. There is usually little or no shrubby understory present due to the bark and leaf litter produced by the trees. Within the survey area, this vegetation community occurs in facility locations that occur near urban developments and roads.

Non-Native Woodland 79000

This habitat consists of a composition of planted, non-native tree species, such as pepper trees (*Schinus* spp.), tamarisk (*Tamarix* spp.) and Eucalyptus spp. Within the survey area, this vegetation community occurs near roadsides and within ornamental plantings associated with urban developments.

Non-Native Grassland 42200

This habitat type is composed of a dense to sparse cover of annual grasses along with some native annual forbs, especially in years of good rainfall. Indicator species include oats (*Avena* spp.), bromes (*Bromus* spp.), filarees (*Erodium* spp.) and mustards (*Brassica* spp. and *Hirshfeldia incana*). In the survey area, this vegetation community occurs in areas of disturbance that are near urban developments and roads.

Disturbed Habitat 11300

Disturbed habitat consists of predominantly non-native species, such as invasive forbs including mustards and thistles and a limited number of grass species, are not typically artificially irrigated, and retain a soil substrate. This habitat is found where the ground in continually disturbed and is no longer recognizable as a native or naturalized community. Within the survey area, this vegetation community occurs along roadsides and other areas of continued disturbance to the vegetation.

Urban/Developed 12000

Urban and developed lands include all areas that have been constructed upon or otherwise altered to such an extent that native vegetation is no longer supported. This would encompass all buildings, parking lots, ornamental plantings and any other modified urban environment. Within the survey area, the majority of facility locations occurs near roadways and urban areas.

Table 2. Vegetation Communities and Land Cover Types within Facility Location and Survey Buffer - Sites Requiring Excavation and Vegetation Removal (Acres)

Vegetation Communities and Land Cover Types	Within Facility Location	Within 100-ft Buffer	Grand Total	
Riparian and Wetlands				
Southern Arroyo Willow Riparian Forest	0.02	2.08	2.10	
So.Cottonwood-Willow Riparian Forest	0.57	4.69	5.26	
Disturbed So.Cottonwood-Willow Riparian Forest	0.01	0.00	0.01	
Emergent Wetland	-	0.40	0.40	
Coastal and Valley Freshwater Marsh	-	0.11	0.11	
Mulefat Scrub	-	0.14	0.14	
Southern Riparian Scrub	0.03	0.85	0.88	
Southern Willow Scrub	0.09	0.87	0.96	
Open Water	<0.01	0.27	0.27	
Unvegetated Channel	0.34	0.05	0.39	
Total Riparian and Wetlands	1.05	9.47	10.52	
Uplands				
Coast Live Oak Woodland	-	0.79	0.79	
Southern Coast Live Oak Riparian Forest	0.03	0.25	0.28	
Diegan Coastal Sage Scrub	<0.01	3.01	3.01	
Eucalyptus Woodland	<0.01	1.613	1.61	
Non-native Woodland	0.102	0.840	0.94	
Non-native Grassland	0.032	4.938	4.97	
Total Uplands	0.16	11.44	11.61	
Other Land Cover Types				
Disturbed Habitat	0.01	2.77	3.38	
Urban / Developed	0.80	38.27	39.07	
Total Other Land Cover Types	0.80	41.04	42.45	
Grand Total	2.02	61.95	64.58	

Table 3. Vegetation Communities and Land Cover Types within Facility Location and Survey Buffer -Sites Requiring use of Handtools Only for Nonnative Removal and Native Vegetation Trimming - Facility Locations E-51 and E-54 (Acres)

Vegetation Communities and Land Cover Types	Within Facility Location	Within 100-ft Buffer	Grand Total			
Riparian and Wetlands						
So.Cottonwood-Willow Riparian Forest	1.53	1	1.53			
Disturbed So.Cottonwood-Willow Riparian Forest	6.82	0.13	6.95			
Coastal and Valley Freshwater Marsh	0.81	1	0.81			
Total Riparian and Wetlands	9.15	0.13	9.29			
Uplands						
Eucalyptus Woodland	0.04	0.31	0.36			
Non-native Woodland	1.04	1.80	2.84			
Non-native Grassland	3.81	4.95	8.77			
Total Uplands	4.90	7.06	11.96			
Other Land Cover Types	Other Land Cover Types					
Disturbed Habitat	0.05	0.56	0.60			
Urban / Developed	0.42	18.50	18.92			
Total Other Land Cover Types	0.47	19.06	19.53			
Grand Total	14.52	26.26	40.78			

Habitat Assessment

A habitat assessment was conducted for the 24 new facility locations and 1 expanded facility location. The habitat assessment concluded that of the 25 sites, 11 sites support suitable habitat for LBVI, three sites support suitable habitat for CAGN, two sites are located in CAGN designated critical habitat, and nine sites support suitable habitat for San Diego Ambrosia. See Table 4 below for a description of which facility sites provide suitable habitat and/or designated critical habitat for LBVI, CAGN, and San Diego Ambrosia. For information on Threatened, Endangered, and Special Status Species detected within the Vicinity of the new and expanded facilities as well as suitable nesting habitat refer to the Facility Location Site Forms included as Attachment 2.

Table 4. Suitable Habitat within Facility Locations

Facility Location	Site Name	LBVI	CAGN and/or within its designated critical habitat	San Diego Ambrosia
E-53	Reidy Creek: Rincon to Pleasantwood	Yes	-	Yes
E-54	Reidy Creek - Morning View	Yes	-	Yes
E-55	HARRF	Yes	-	-
E-58	Reidy Creek Golf Course	Yes	-	Yes
E-60	Oak Valley Lane	Yes	-	Yes
H-15	Sierra Linda	-	Yes; Critical Habitat	-
H-16	Concerto and Beethoven	-	Yes	Yes
H-17	Bear Valley Pkwy	Yes		Yes
H-18	Kit Carson Bike Trail	Yes	Yes; Critical Habitat	Yes
H-19	Encino and Amparo	Yes	-	-
H-20	Sunset and Bear Valley	Yes	-	Yes
H-21	Via Rancho Prky and Sunset Drive	Yes	-	-
SM-05	Woodland Pkwy	Yes	-	Yes

Jurisdictional Delineation

A total of 13.15 acres of waters of the U.S. and 16.42 acres of CDFW riparian and/or streambed occur within the Facility locations (Table 5; Figure 2). These jurisdictional waters occur within the San Diego and San Luis Rey-Escondido watersheds. Specific information for each facility location is provided in the Facility Location Site Forms (Attachment 2) along with wetland and OHWM data forms and photographs. Representative OHWM data forms were completed for each type of jurisdictional water (i.e. concrete-lined, roadside drainage, and natural drainage) and not completed for each facility location.

Table 5. Jurisdictional Waters Occurring within the Facility Locations

Waters of the U.S	;	CDFW Waters		
Nonwetland Wetland (Acres) (Acres)		Streambed Riparian (Acres)		
1.09	12.06	1.39	15.03	

Attachments

- 1. Figures
- a. Project Overview Map
- b. Project Mapbook
- 2. Facility Location Site Forms and Data Forms

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Attachment 1 Figures

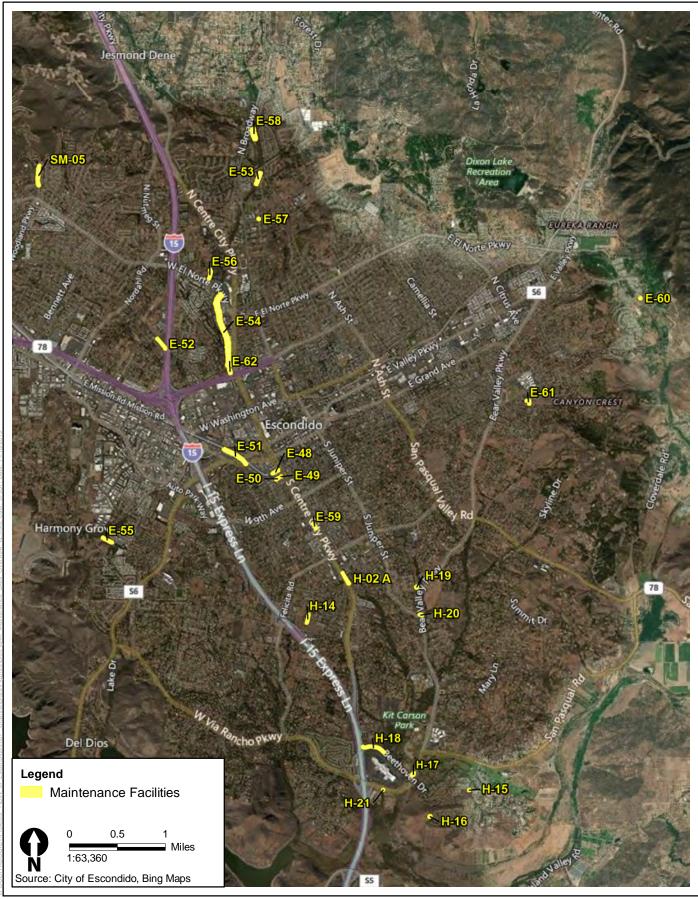
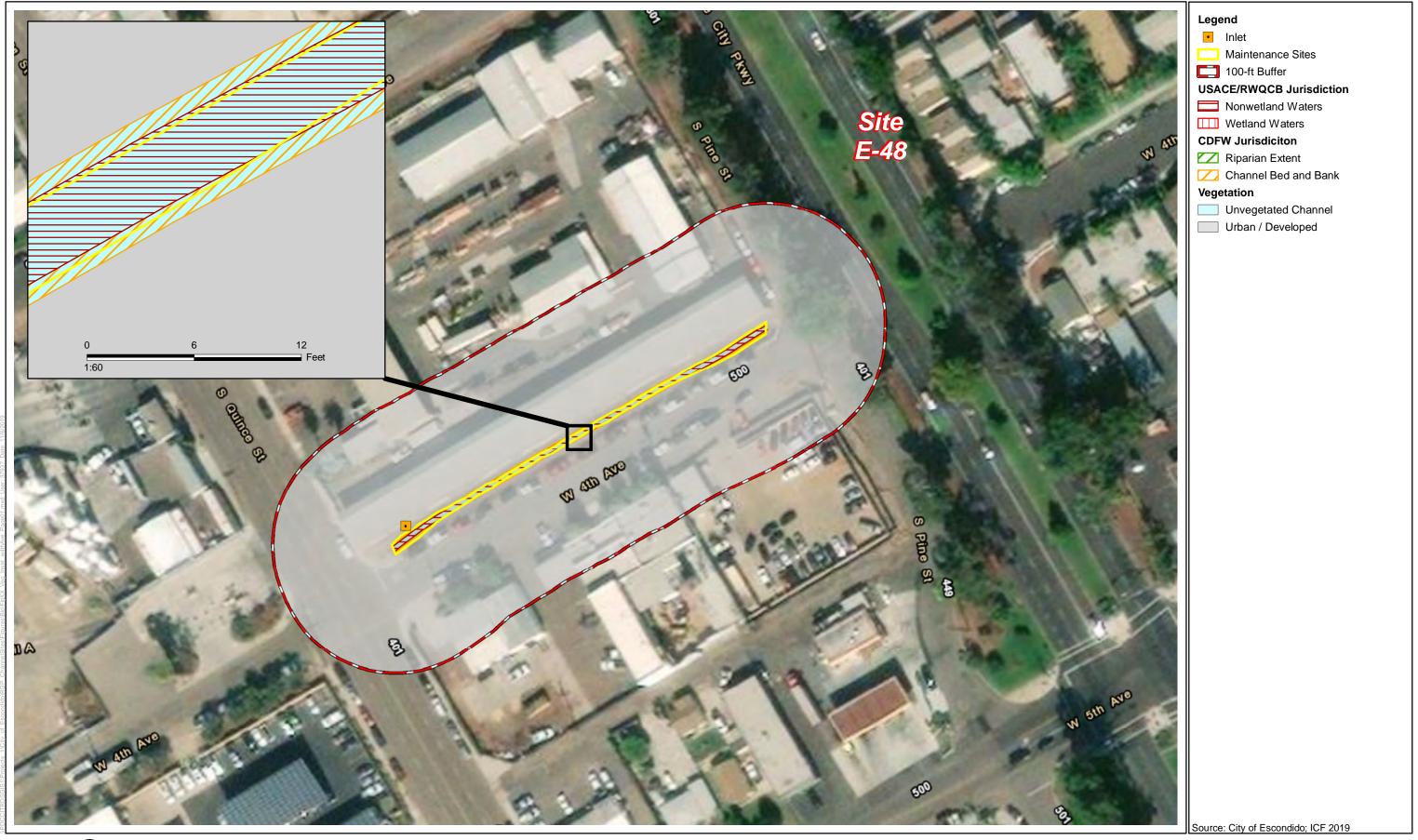




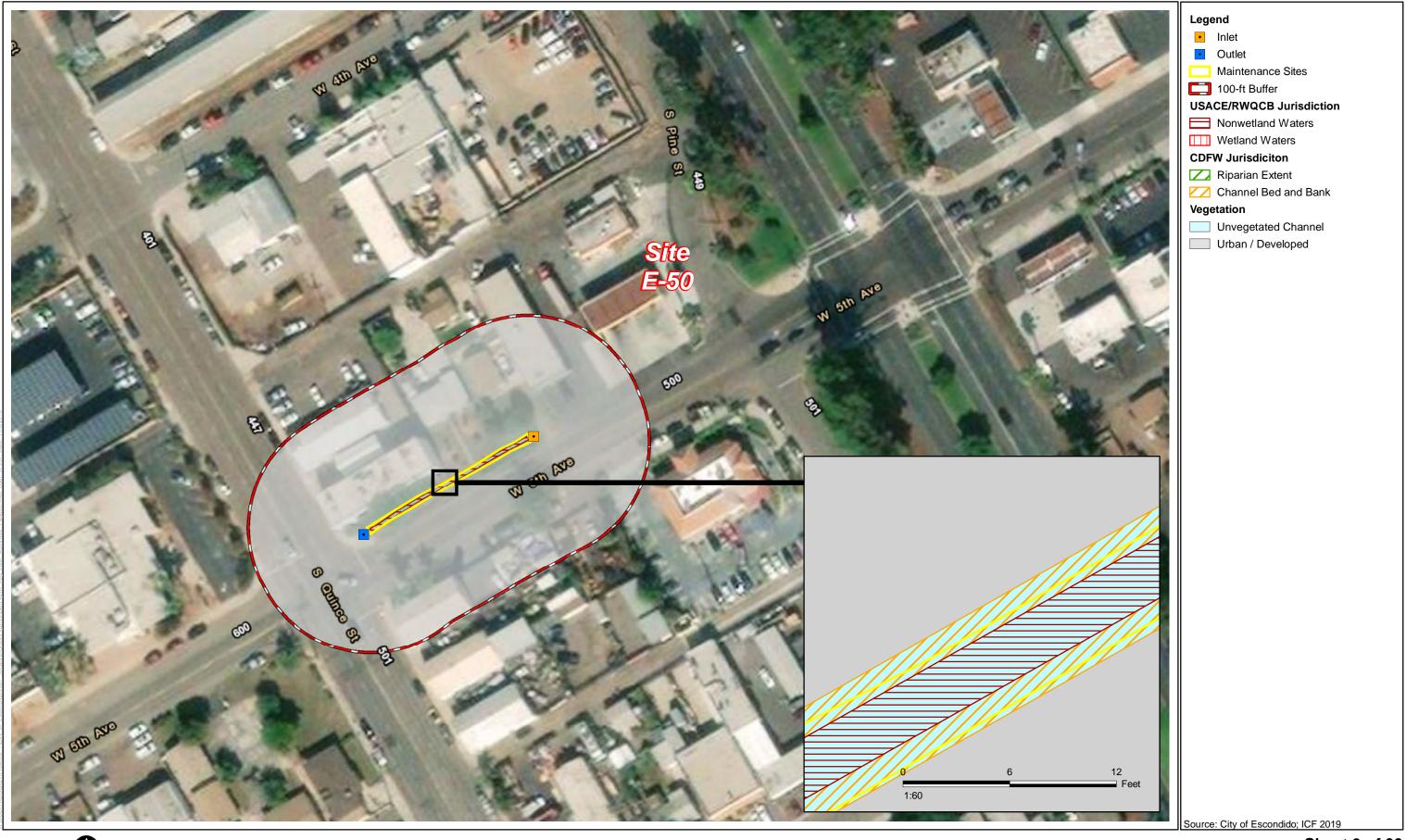
Figure 1
Project Overview
City of Escondido Channel Maintenance Project













Sheet 3 of 39 E-50



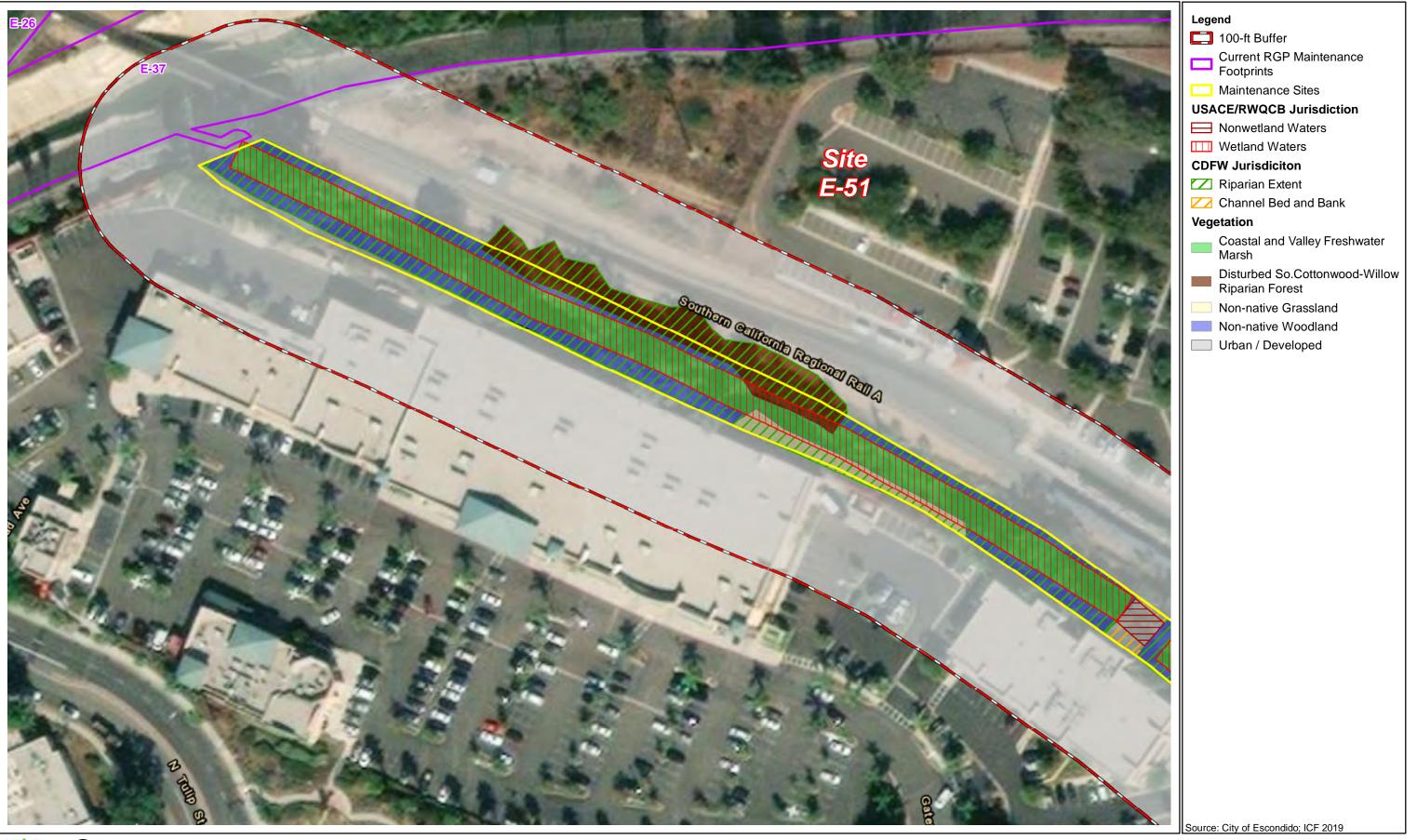




Legend

100-ft Buffer

Overview E-51 800 W Valley **City of Escondido Channel Maintenance Project**









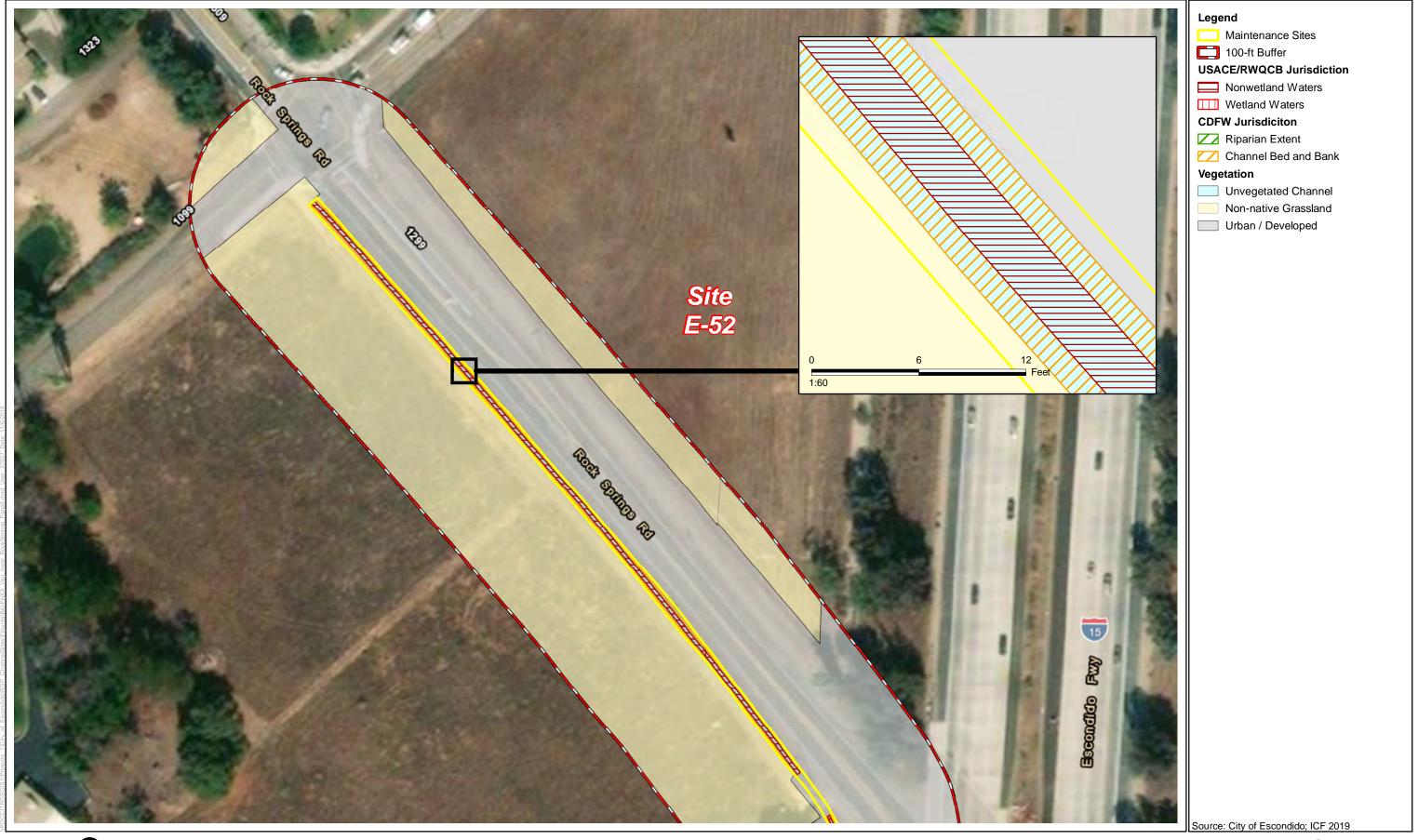






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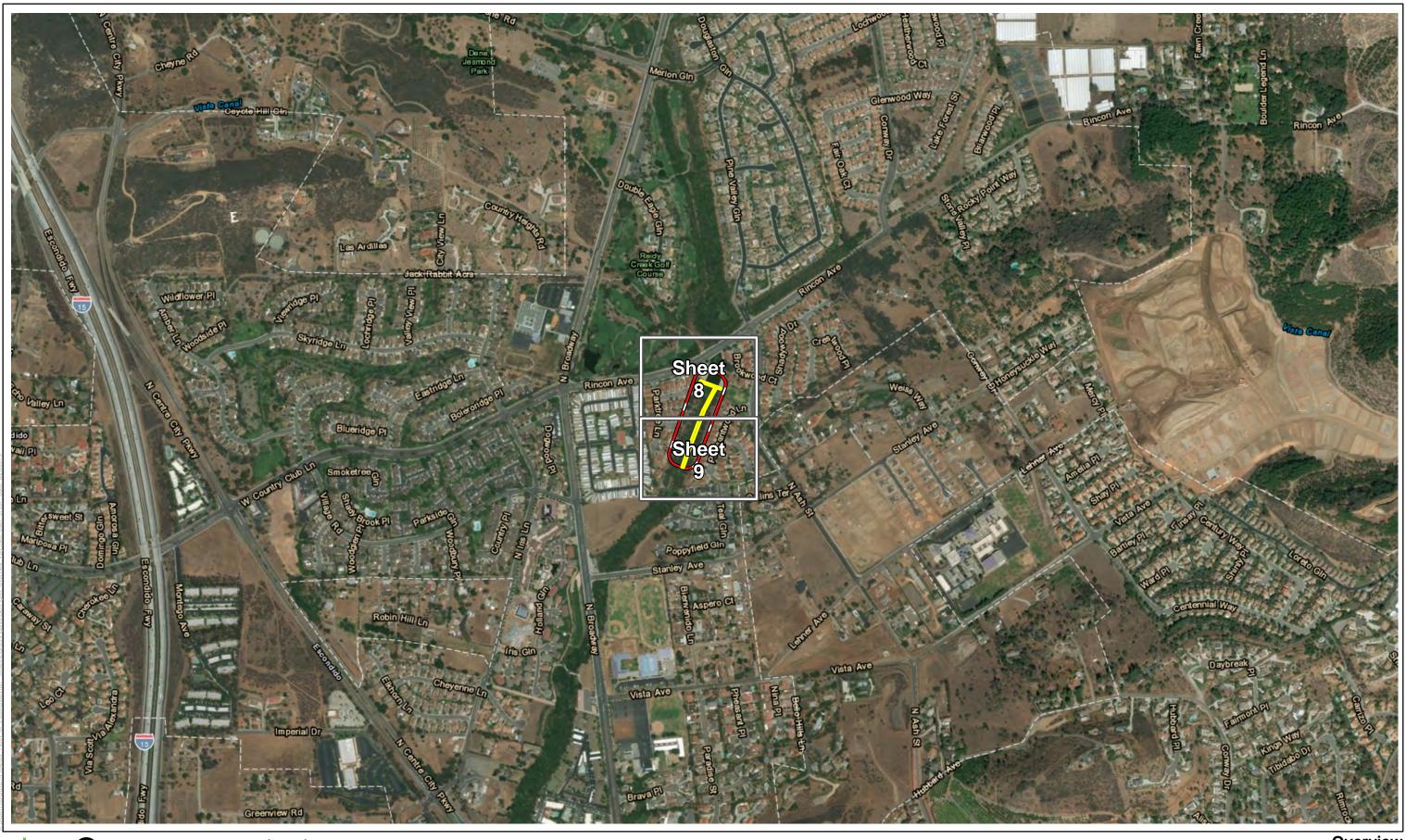
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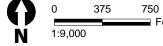


Sheet 6 of 39









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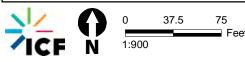
100-ft Buffer

Maintenance Sites Map Sheet Extent









Sheet 9 of 39 E-53



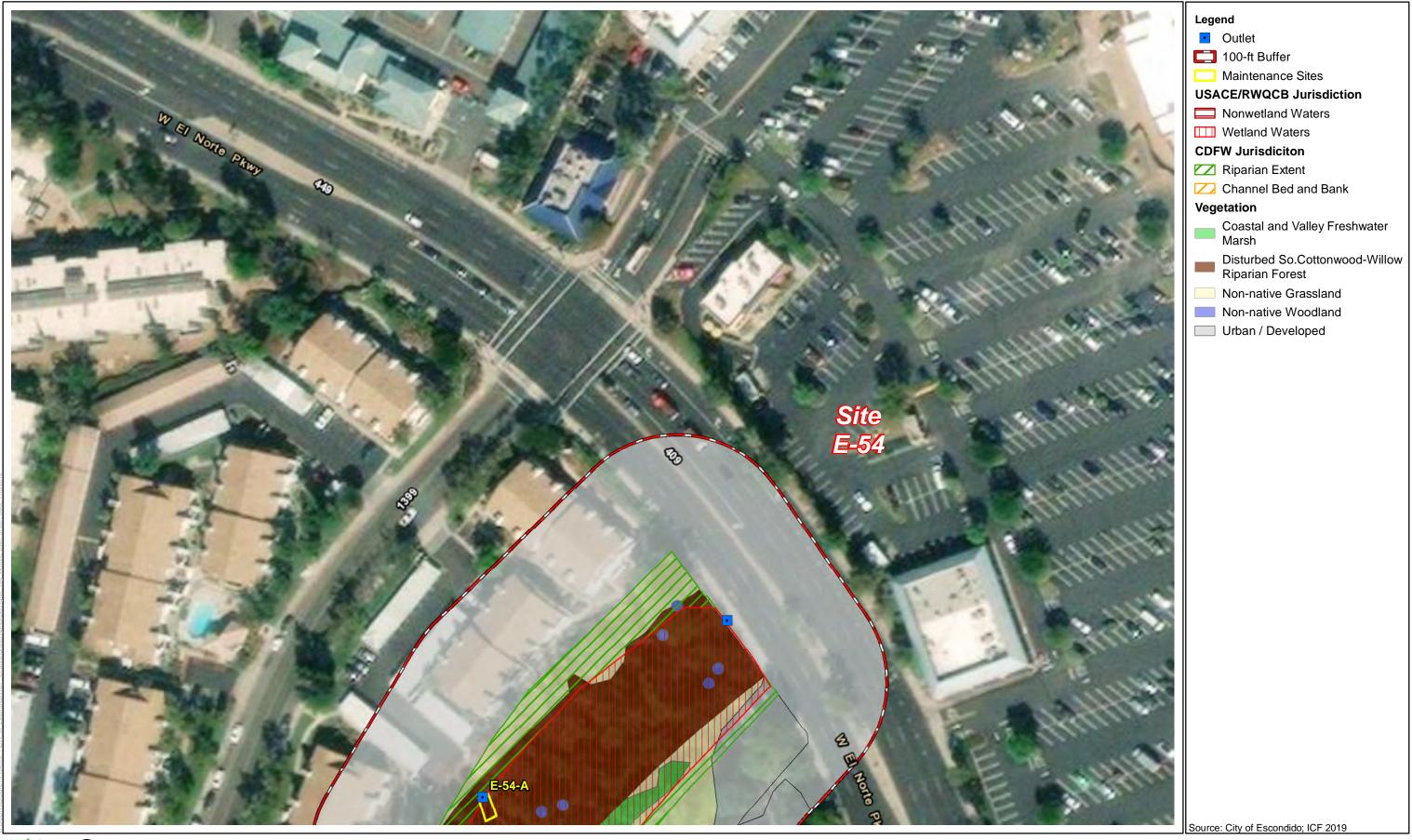


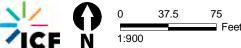


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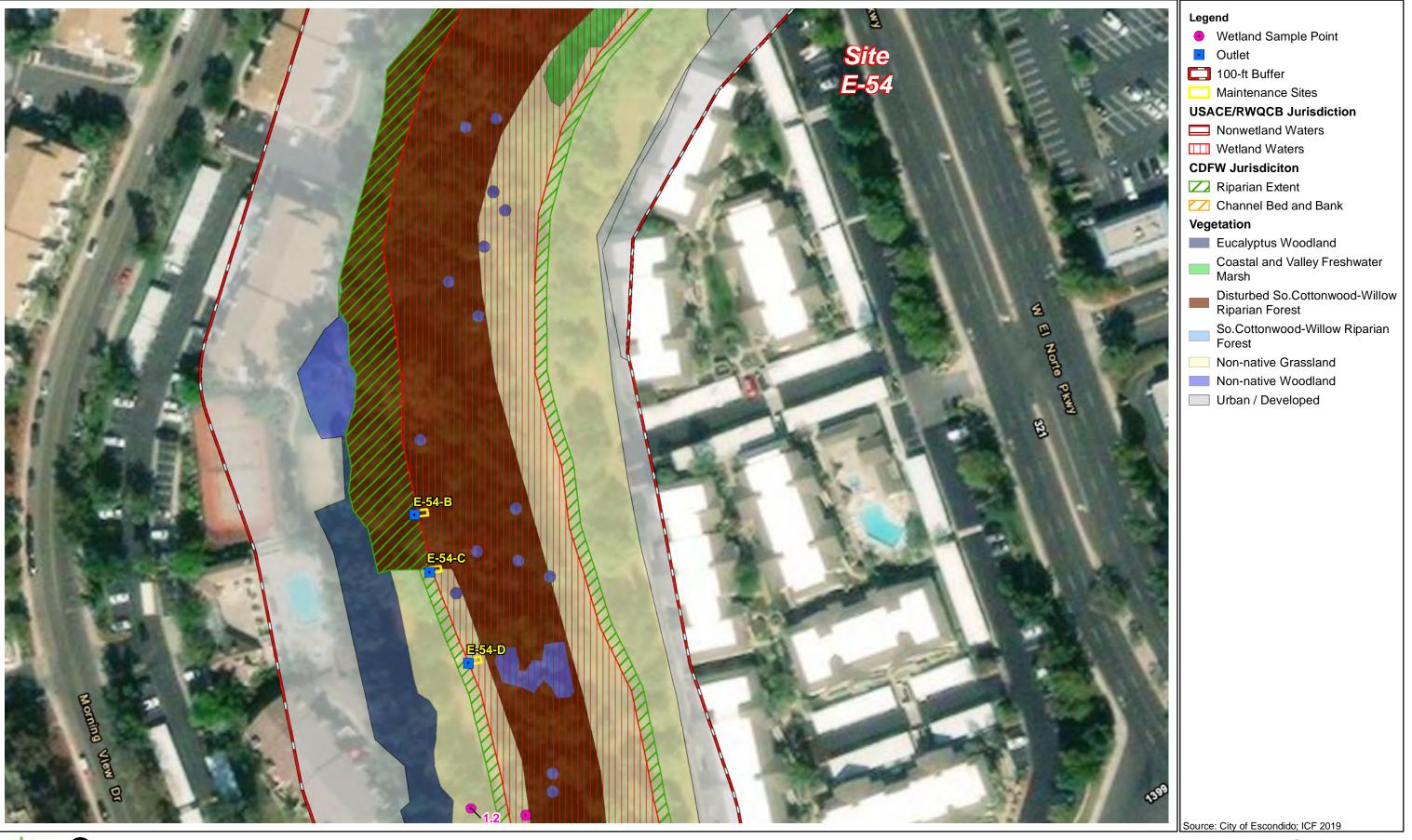
Maintenance Sites Map Sheet Extent 100-ft Buffer

Overview E-54 Reidy Creek - Morning View
City of Escondido Channel Maintenance Project



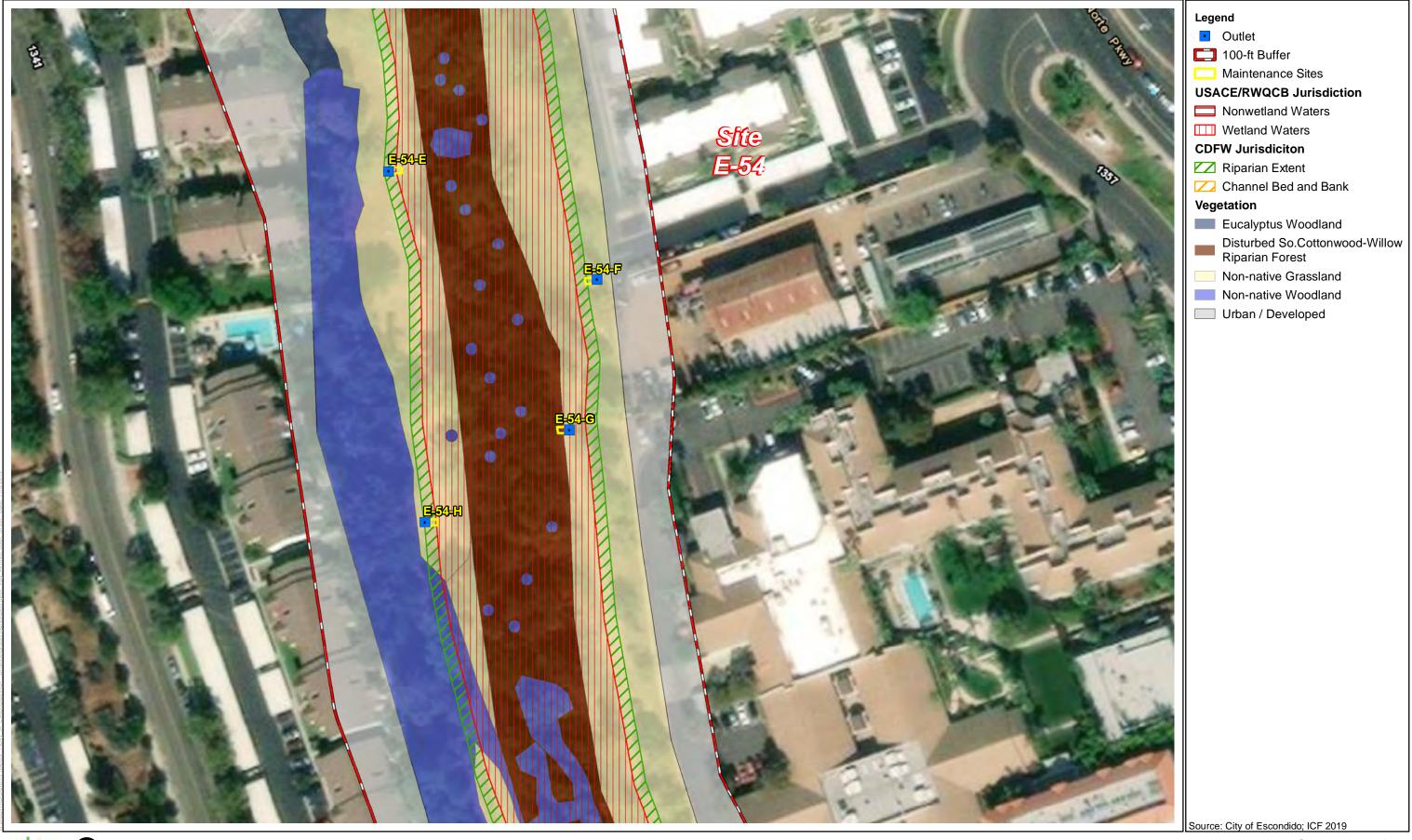


City of Escondido Channel Maintenance Project





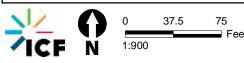
City of Escondido Channel Maintenance Project



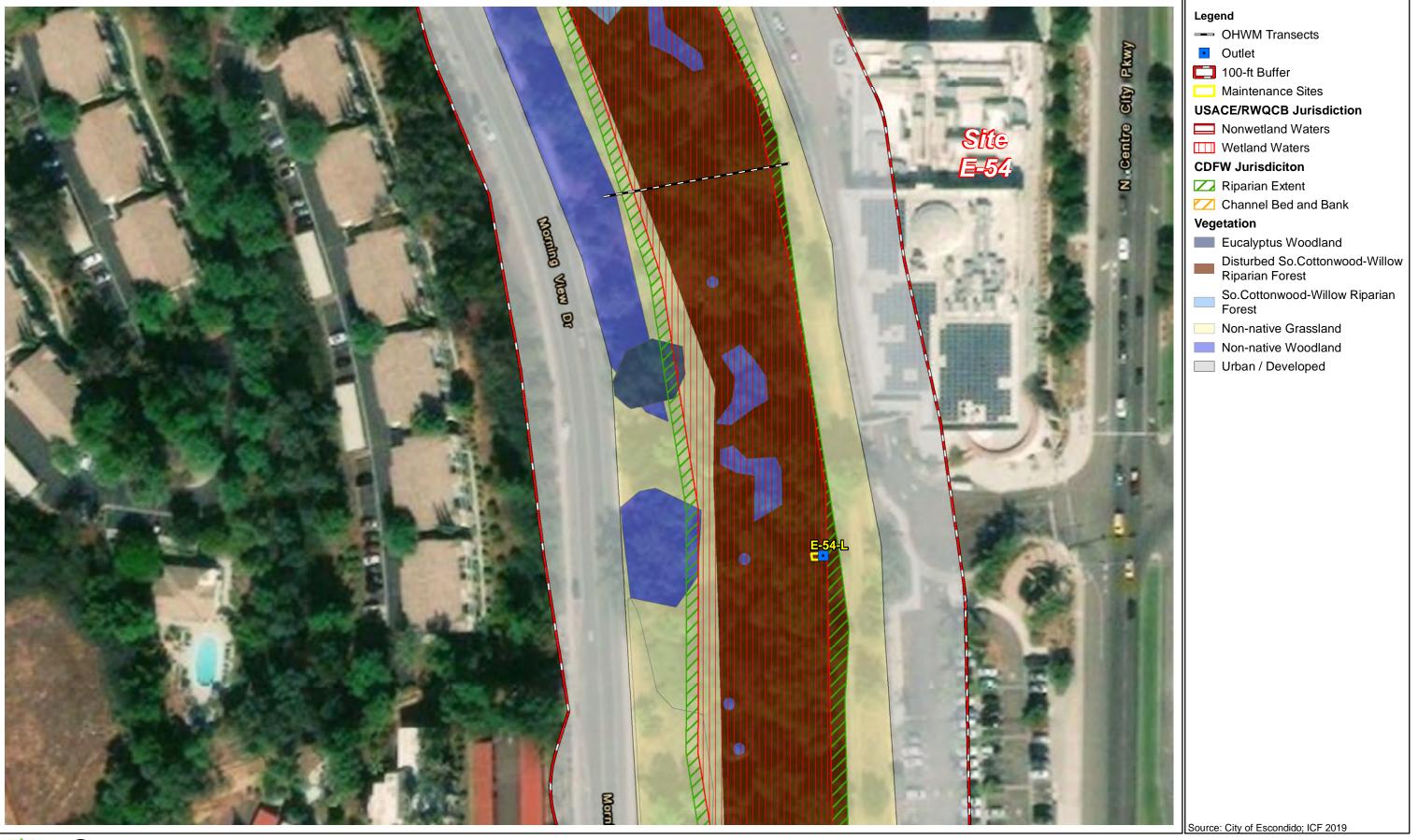


Sheet 12 of 39 E-54

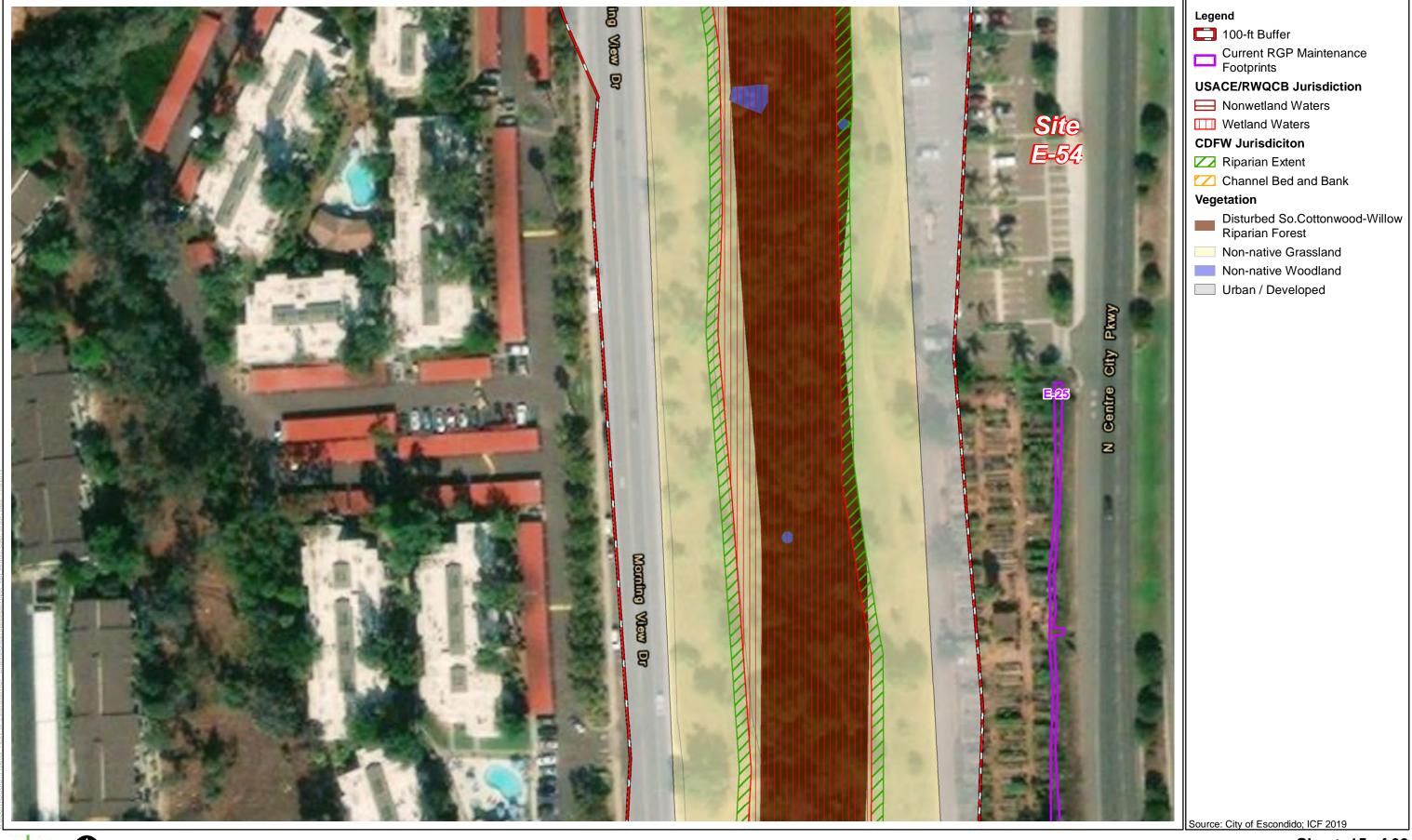




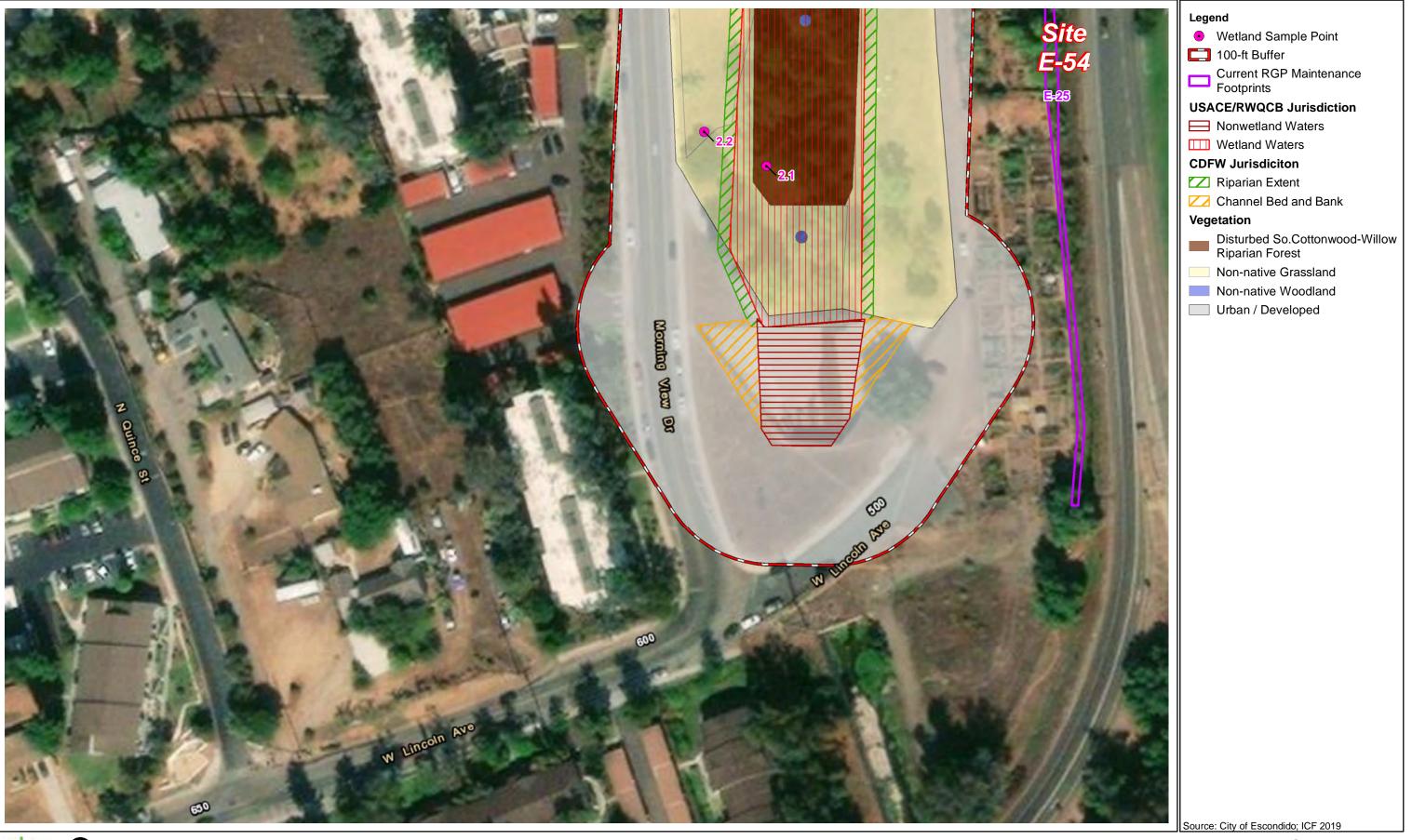
City of Escondido Channel Maintenance Project

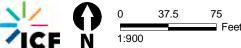








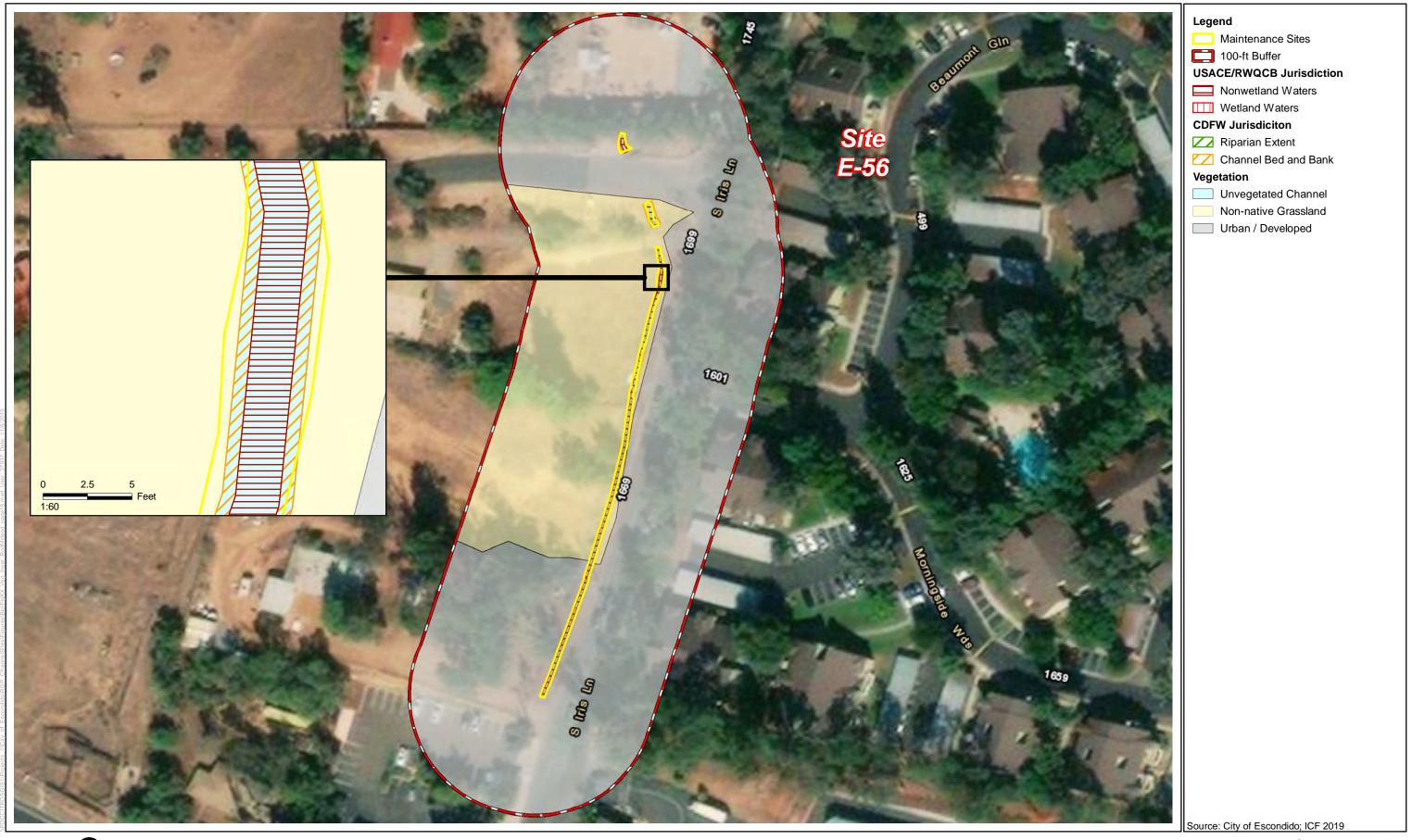




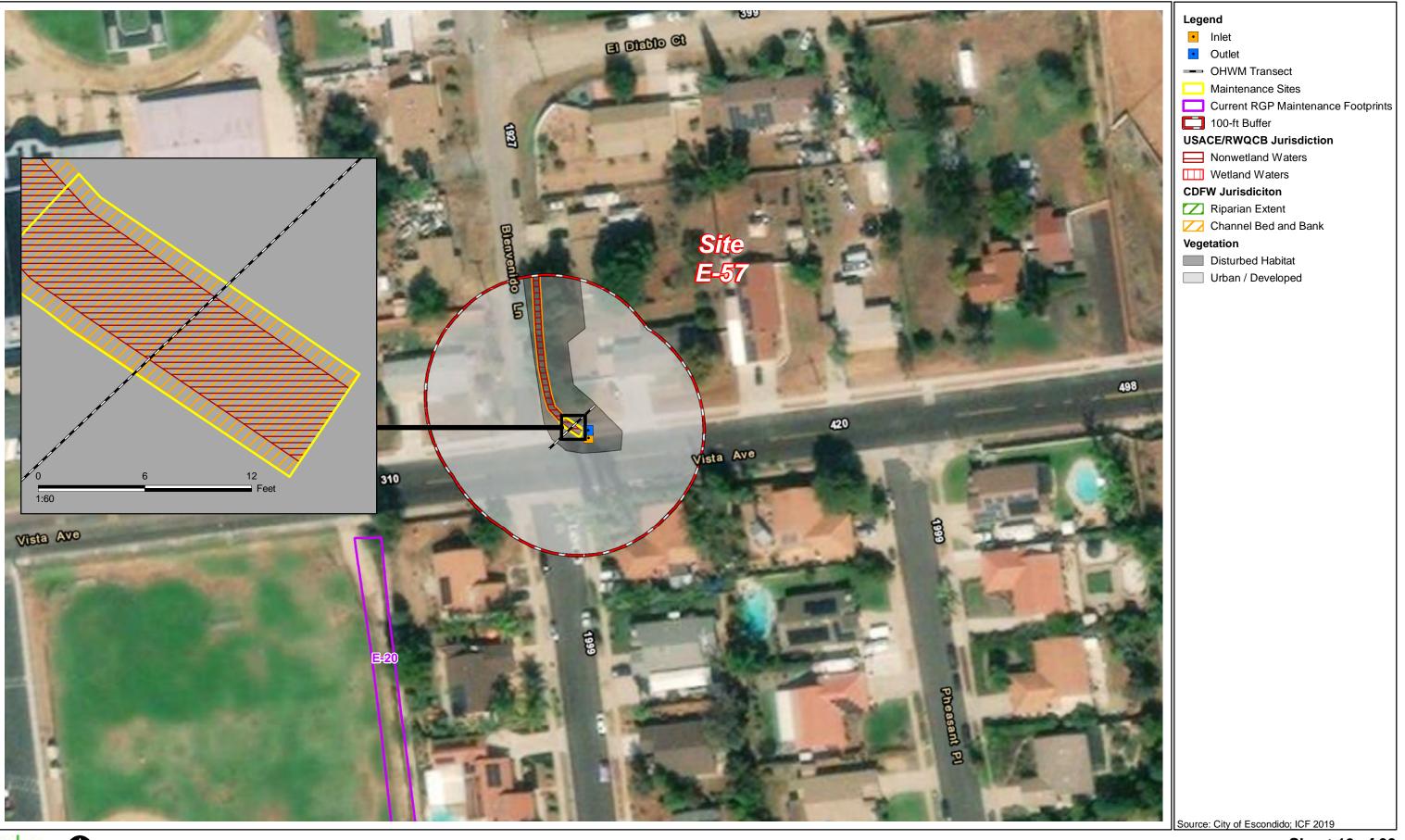




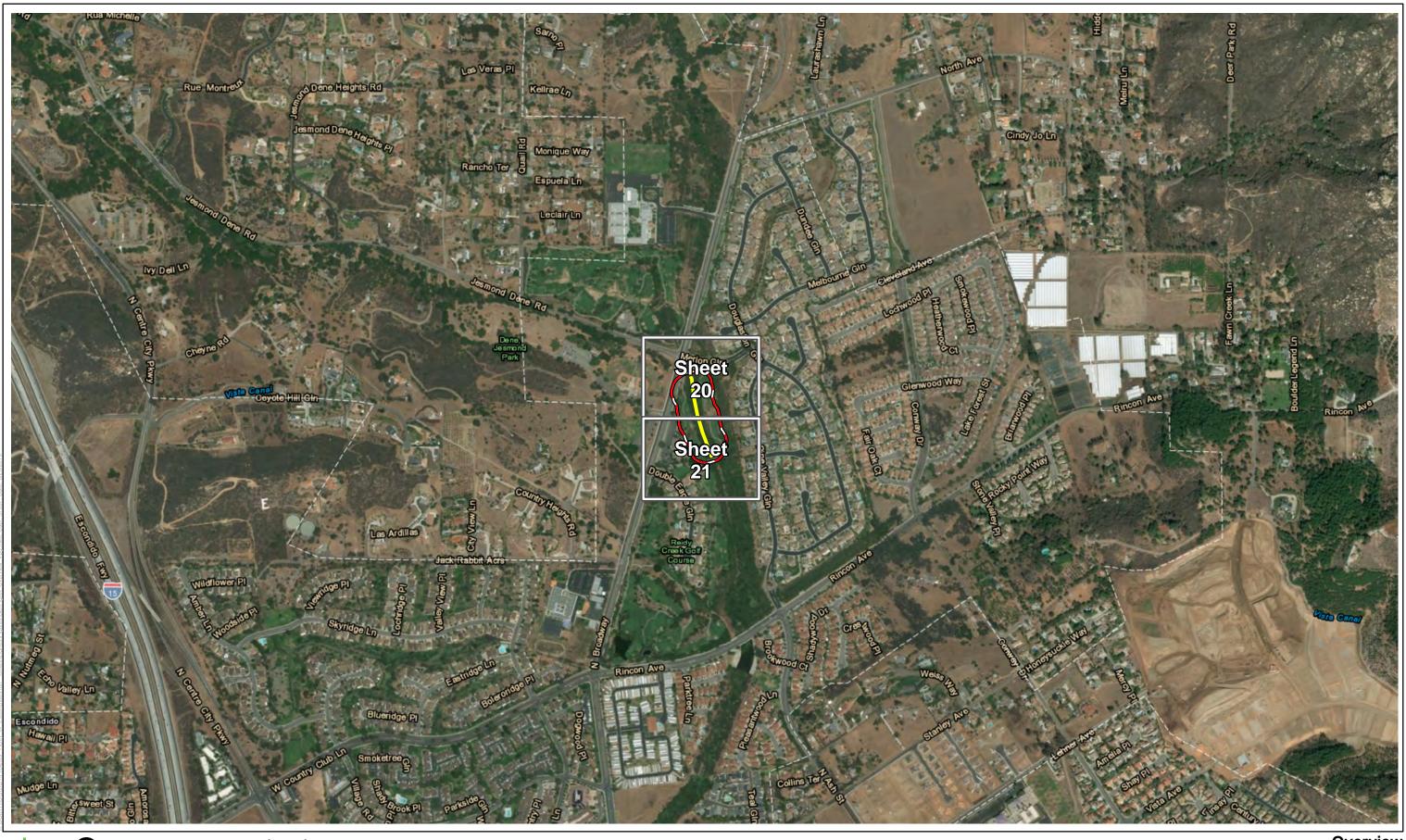
Sheet 17 of 39 E-55 HARRF















Legend

Maintenance Sites Map Sheet Extent 100-ft Buffer

Overview E-58 Reidy Creek Golf Course
City of Escondido Channel Maintenance Project







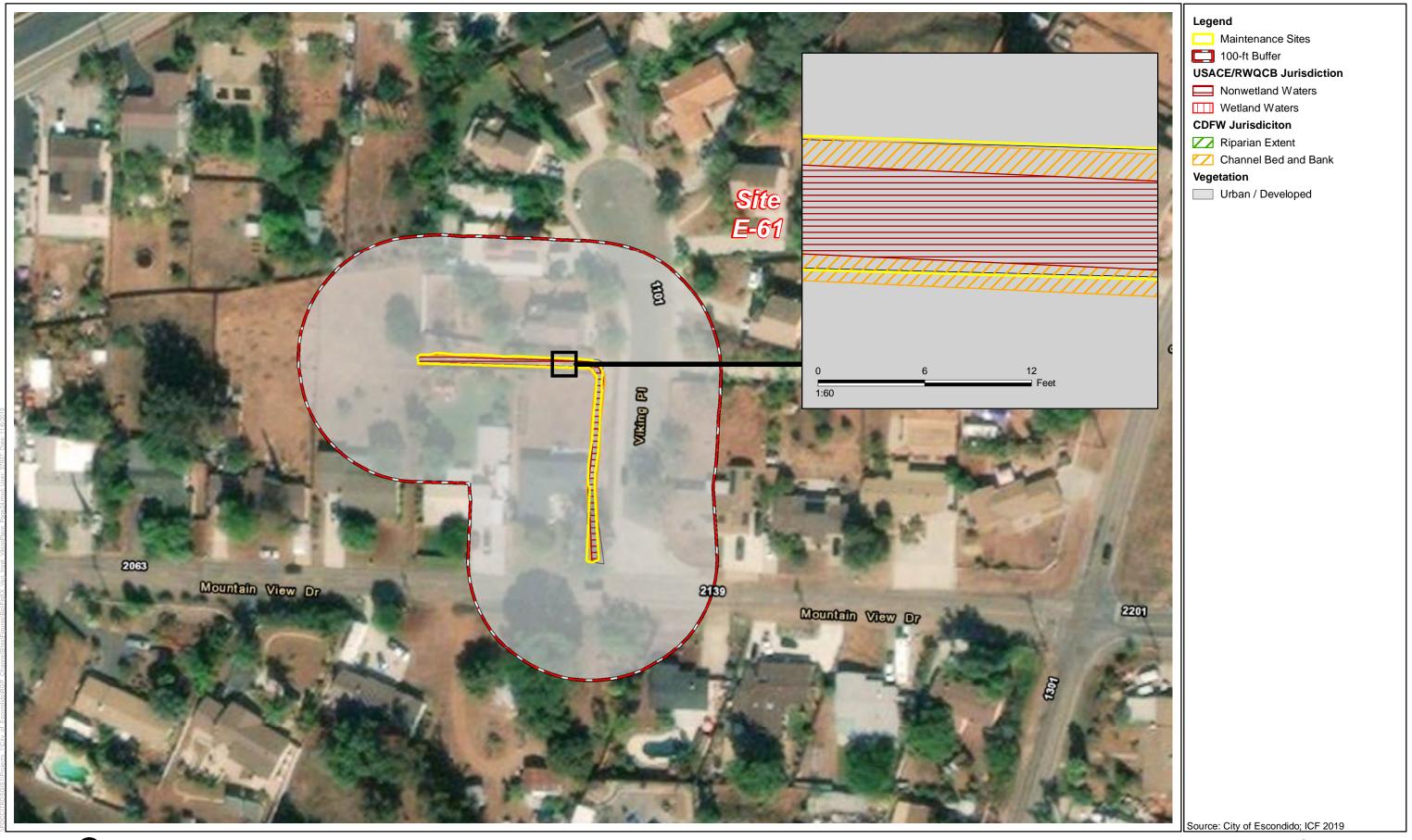




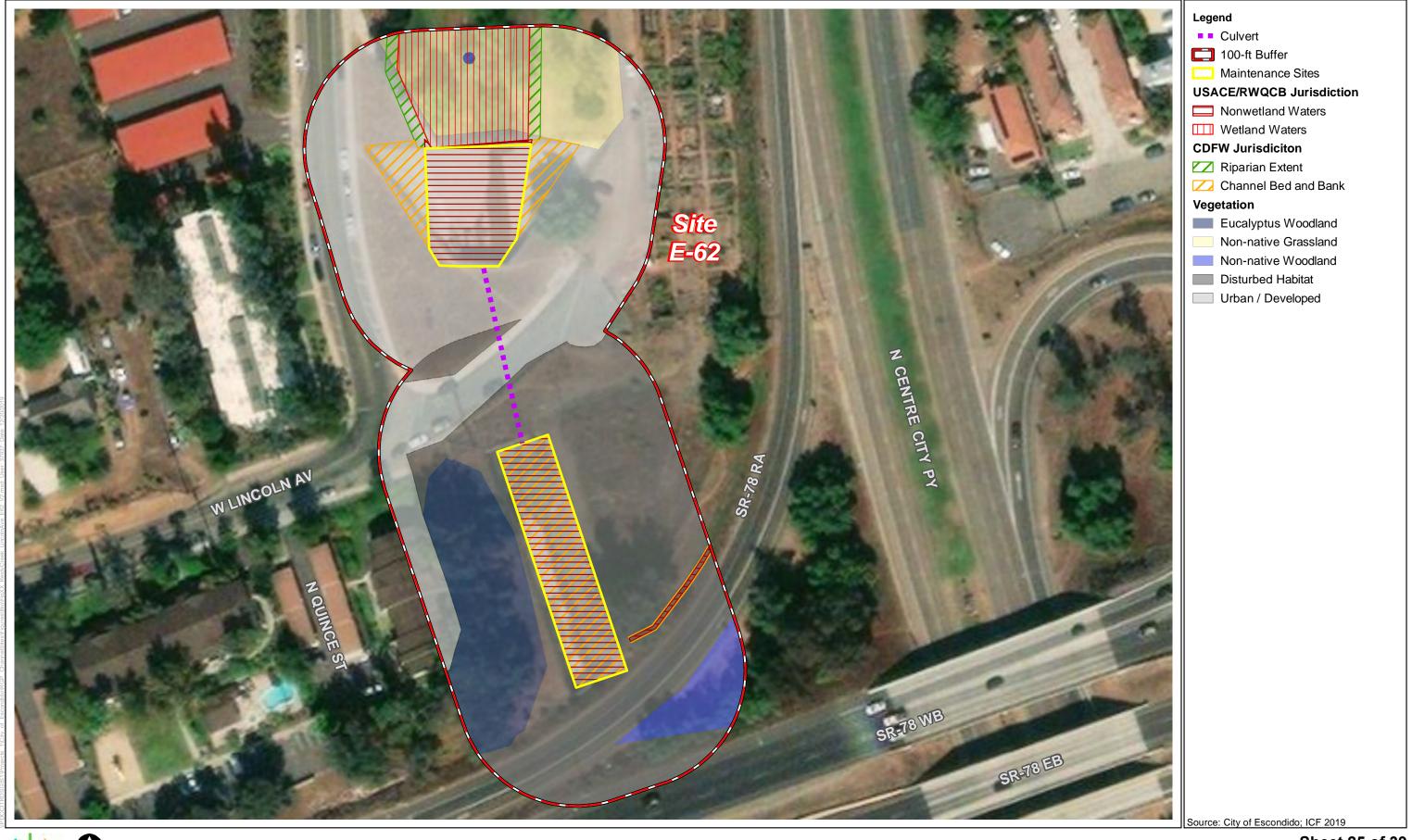
City of Escondido Channel Maintenance Project



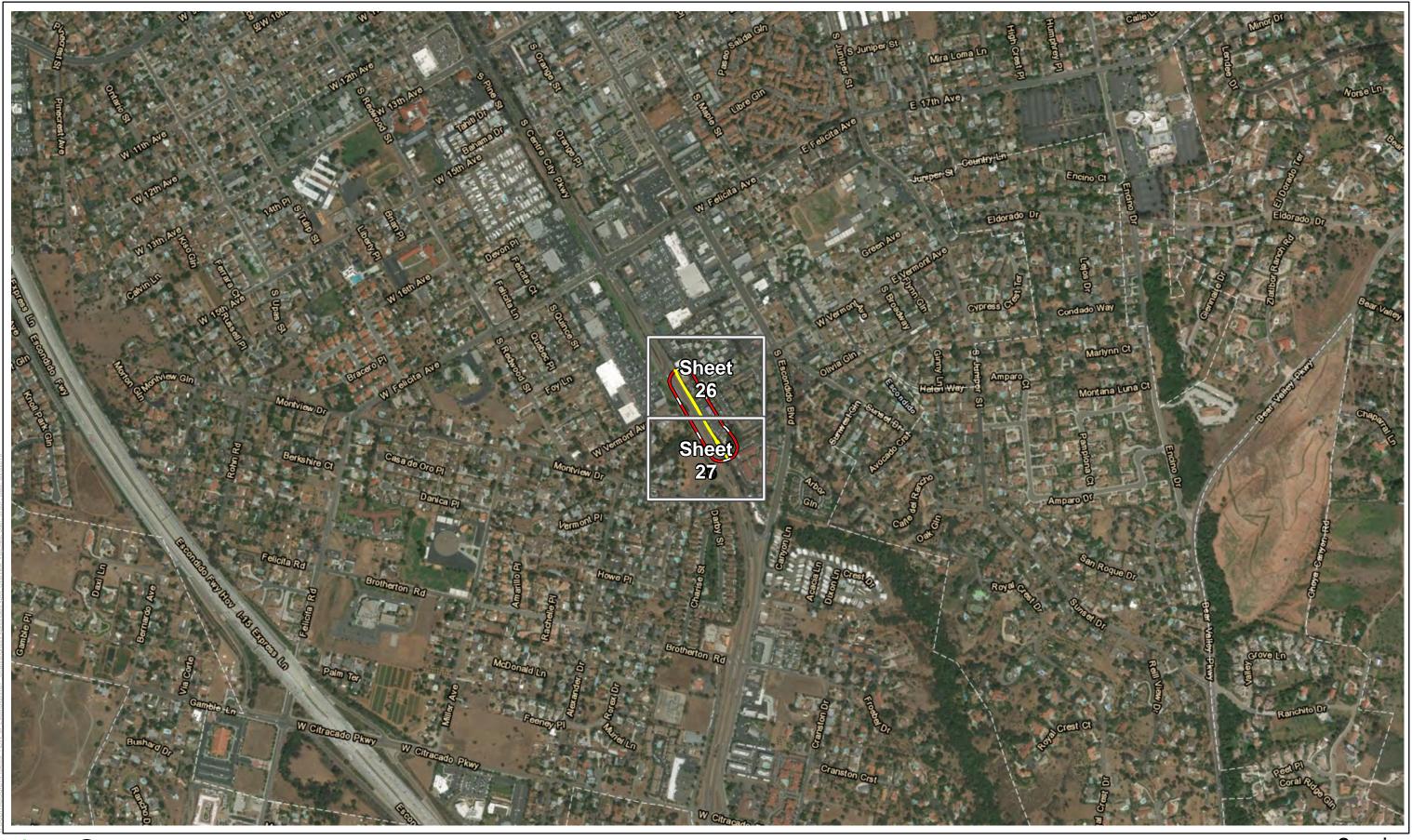












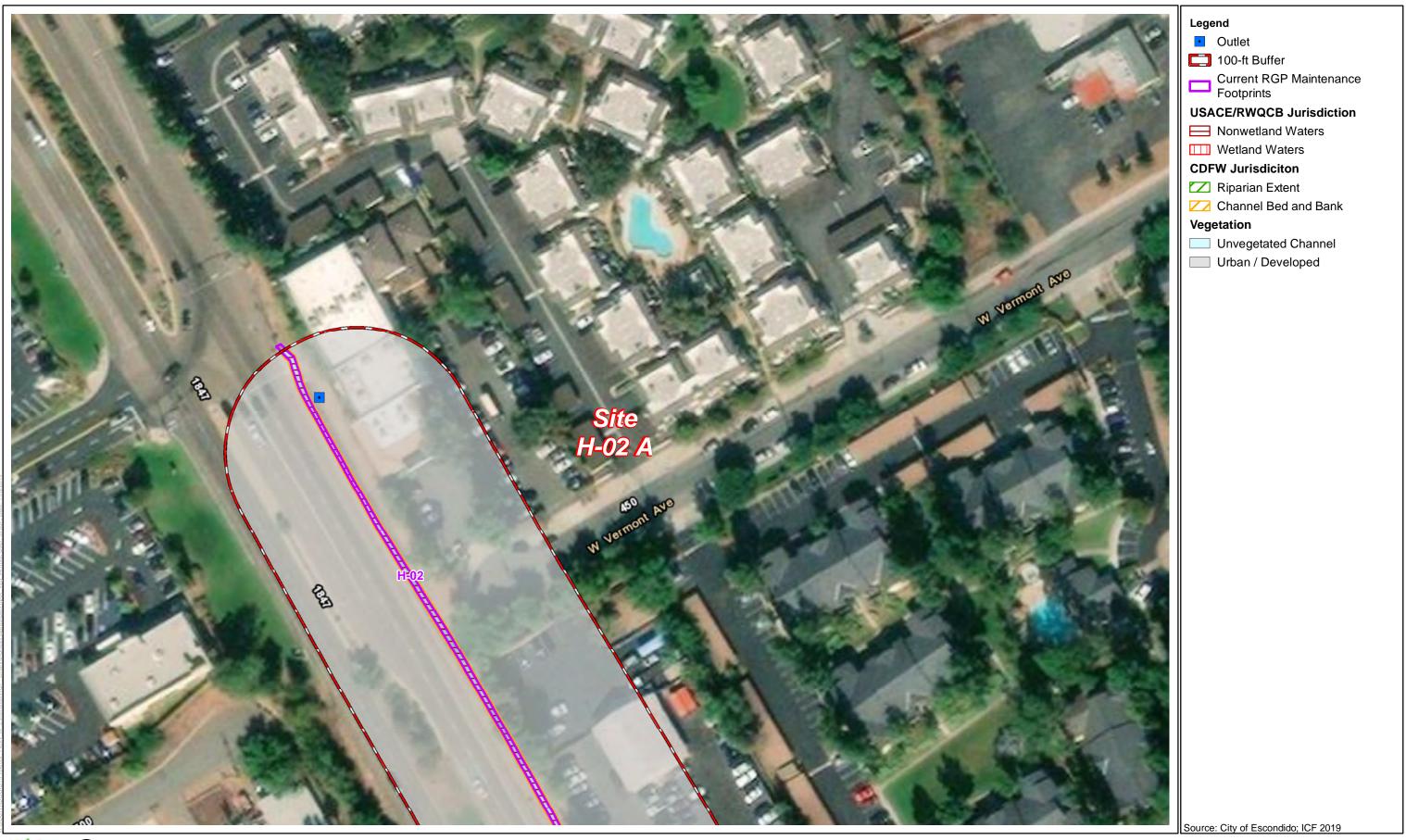




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Maintenance Sites Map Sheet Extent 100-ft Buffer

Overview H-02 A 1840 S Centre City Pkwy
City of Escondido Channel Maintenance Project















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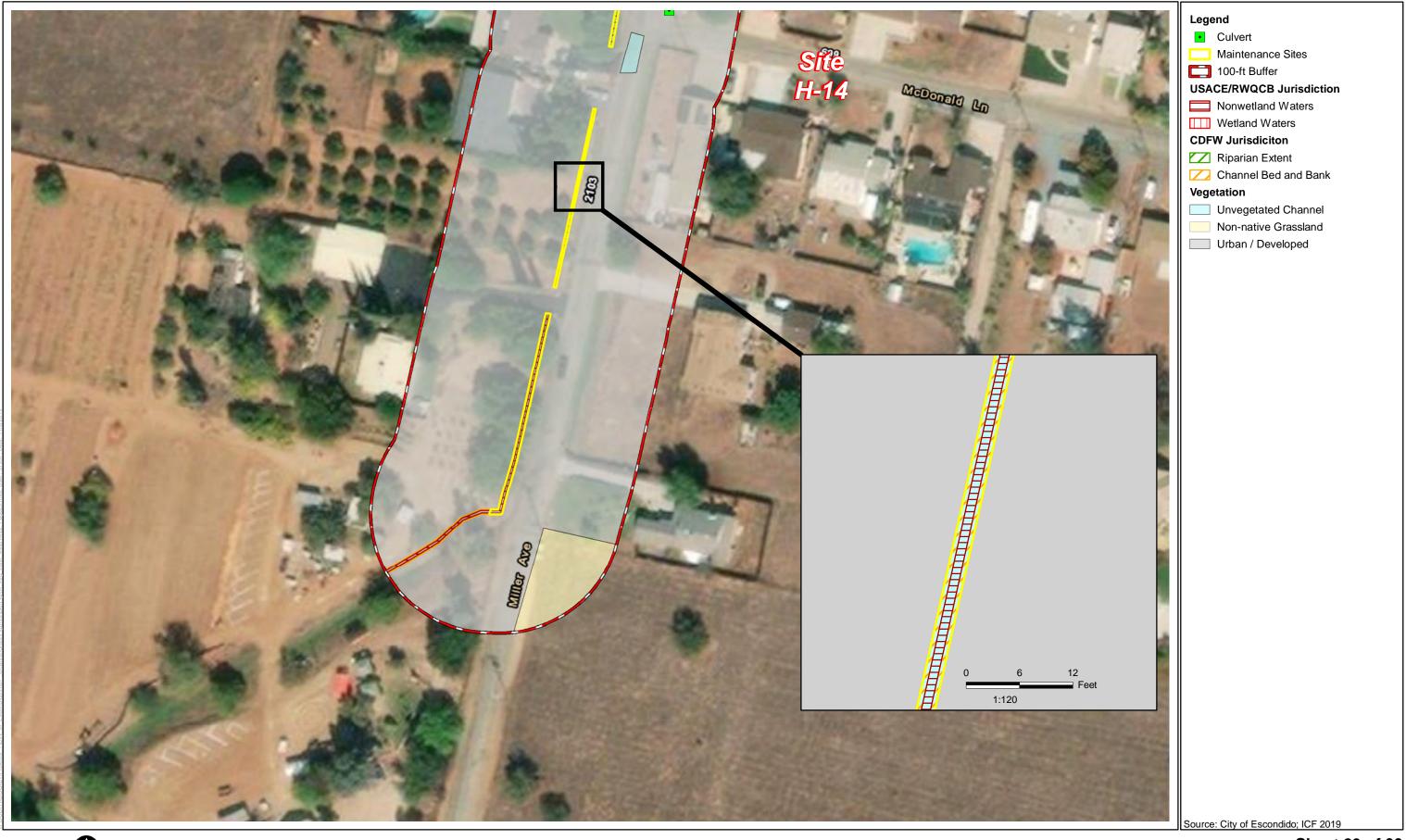
100-ft Buffer

Overview H-14 Miller Ave (2) City of Escondido Channel Maintenance Project



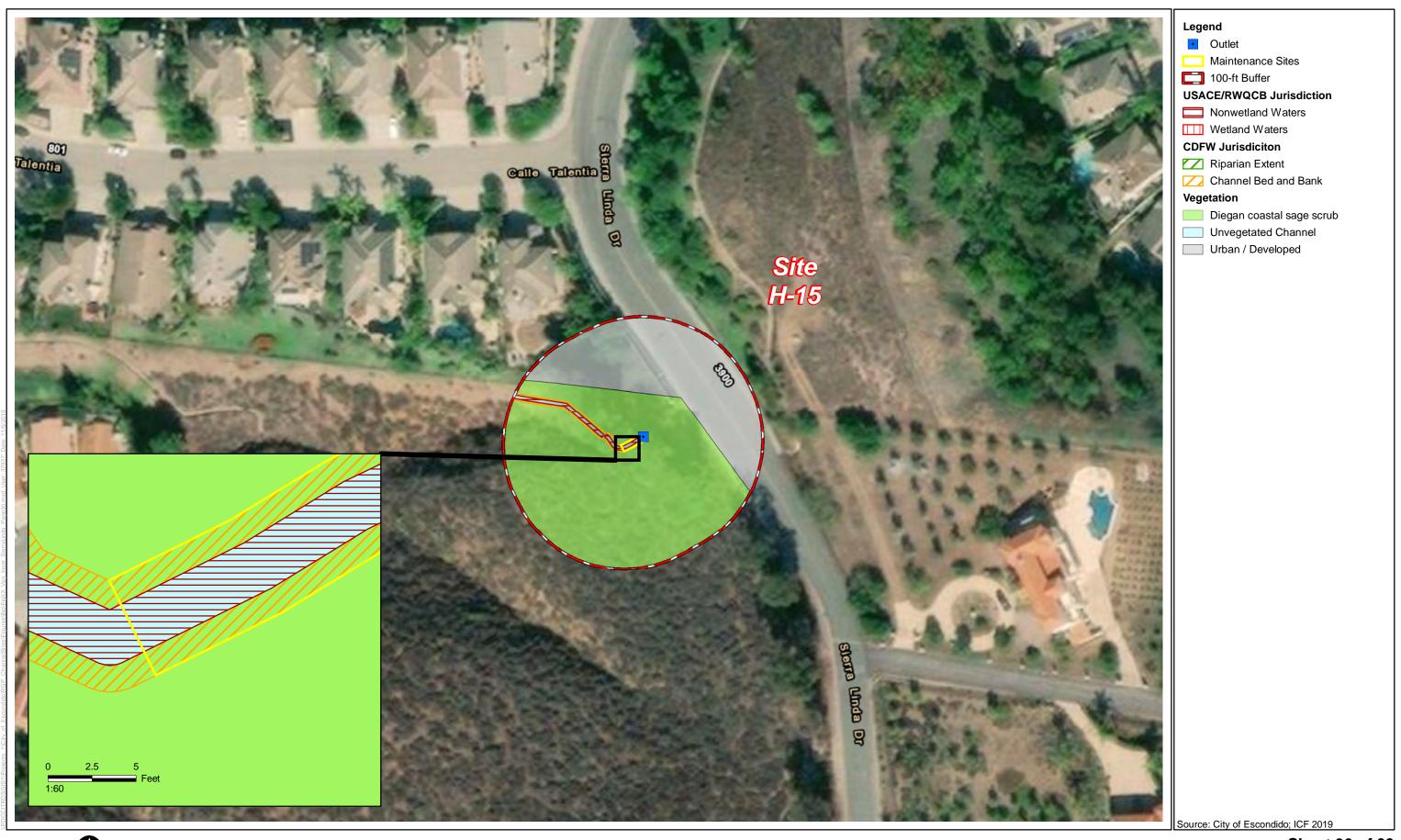


Sheet 28 of 39 H-14





Sheet 29 of 39 H-14





Sheet 30 of 39 H-15 Sierra Linda City of Escondido Channel Maintenance Project

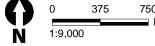




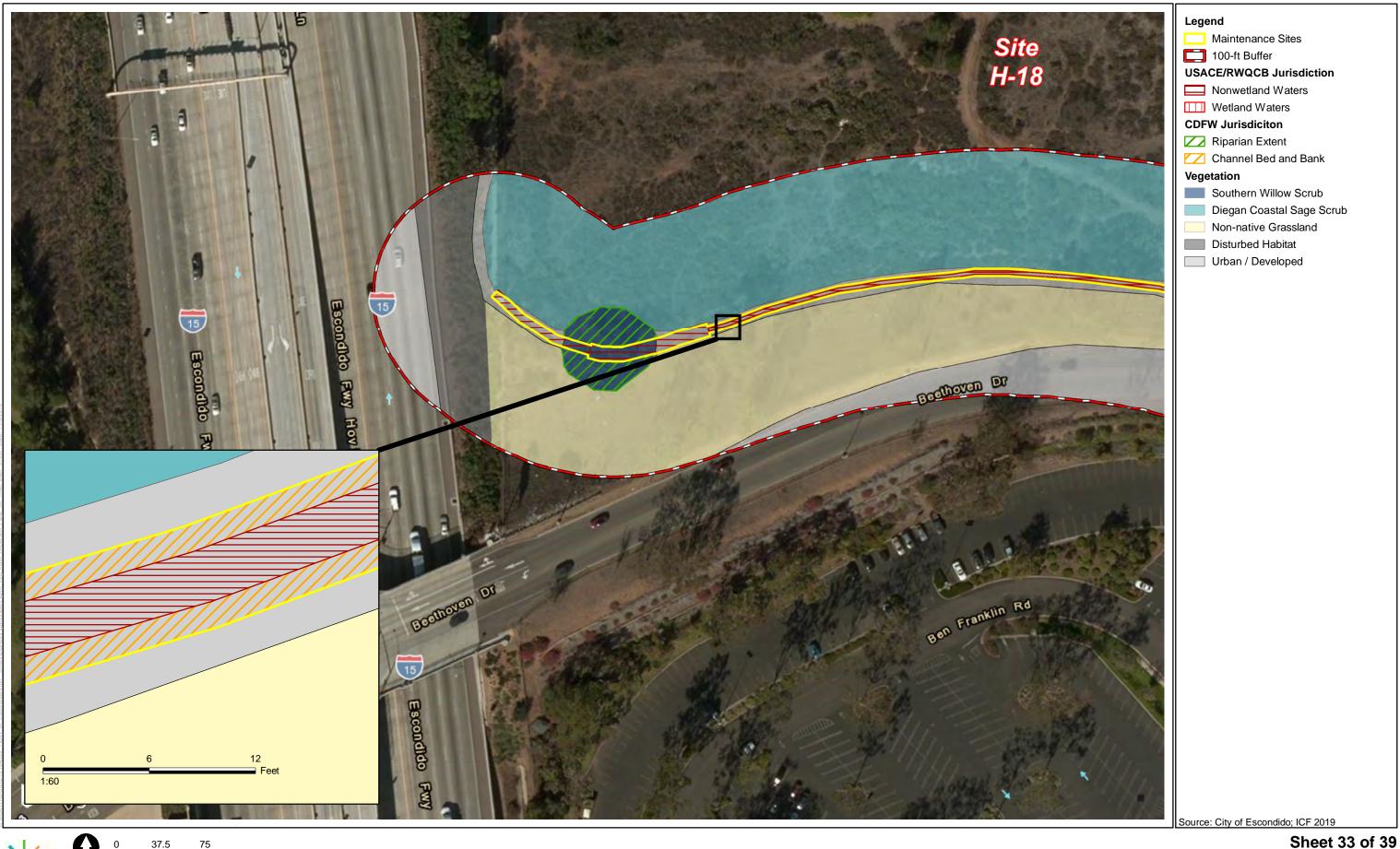








Legend Maintenance Sites Map Sheet Extent 100-ft Buffer



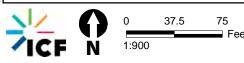






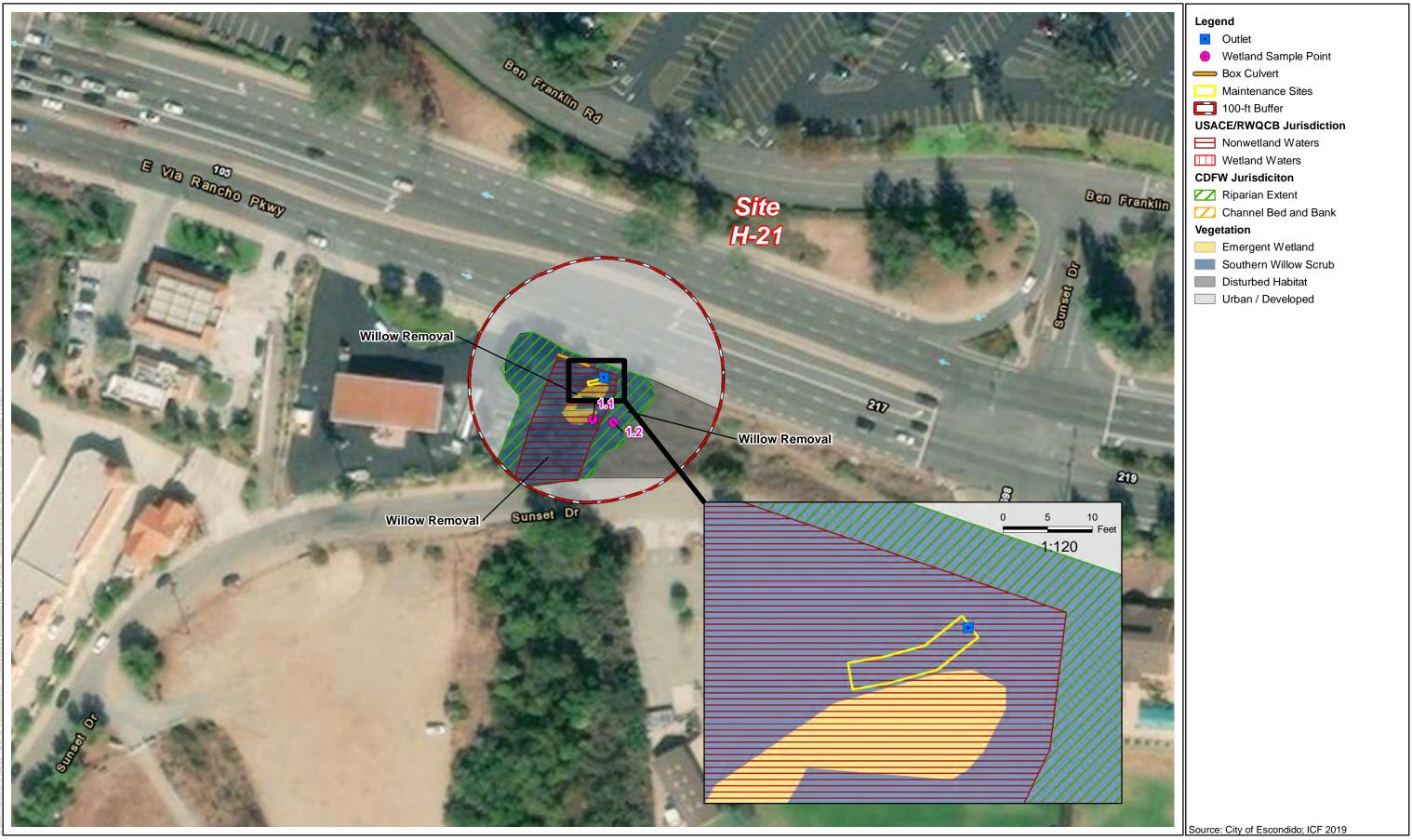




















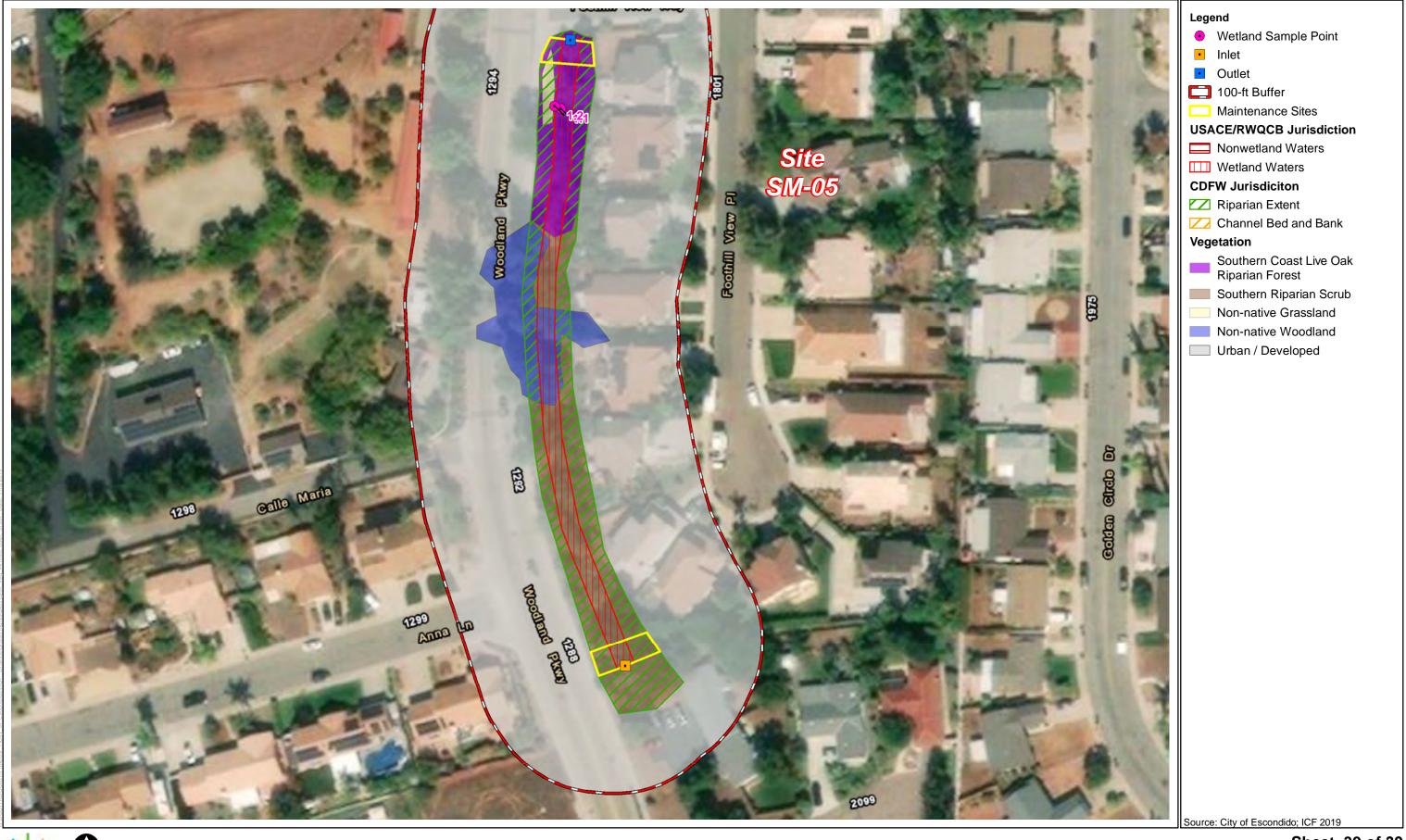
Legend

Maintenance Sites Map Sheet Extent 100-ft Buffer

Overview SM-05 Woodland Parkway
City of Escondido Channel Maintenance Project









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Attachment 2 Facility Location Site Forms

PART I. MAINTENANCE FACILITY INFORMATION															
Facility Name	W 4 th Ave							cility ID	E-48						
Location	West 4 th A		,												
Latitude ¹	33.11597		ongitude ¹ -117.0856664 Maintenance Frequency (y							iency (v	ears)	V			
			-							Frequency (years) Earthen Annually					
Maintenance Facility Type Channel Remove accumulated seding						ad wo		ning Type	Earu	ien					
Proposed Maint Activities	enance	ove accumu pment will be nel for clean	e stage	ed on the s	treet a	and ba	ackhoe or e								
Will work occur	Y 🛚	N				dewate be need	ter Y	ter Y N 🗆							
PART II. SURVEY INFORMATION															
Surveyors			ntes, William	Kohn				ı	Da	ite of Su	ırvey	2/2	6/2019		
Was water in the survey?	e channel a	at the ti	me of the		Y 🛛	N		Hydrolog	у Туре	e ² F	· 🗌 I	□ E		0 🗆	
Nearest Named	Waterbody	y Eso	condido Cre	ek				NWI Inde	x N	ot Class	sified				
NRCS Soils	Placenti	a sand	y loam, 2 to	9 pero	ent slopes										
Section II.a. Su	mmary of	USAC	E/RWQCB/0	CDFW	Waters of	the L	J.S. a	nd State V	Vithin	the Ma	intenance	Facility			
USACE 404/RW	/OCB 401	lurisdic	rtion	Υ	⊠ N	П	LISA	ACE 404 R	egulat	ed Activ	vitv	ΥП	N	\boxtimes	
OOAOL 404/KW	ACOD TO I	Julisaid	Stion	1	Y N USACE 404 Regulated Acti				cu Activ	ity	/ diversion				
												structure			
USACE Nonwetland Waters Present Y N				We					Datap Taken	ooint(s) n N 🖂					
Associated Data	sheet(s)														
Summary of Aquatic Type of Jurisdiction			onal Water	nal Water Habitat De				Description. ³			Acres Delineated within Maintenance Footprint ⁴			Impact Tier⁵	
Habitats	and Wa	aters		U/E					0.032	- 11					
(Waters of the U.S. and State)			TOTAL												
Section II.b. Su	ımmary of	CDFW	/ Waters of	the St	ate Only V	Vithin	the I	Maintenand	ce Fac	ility					
CDFW 1600 Jurisdiction Bey USACE Waters	ond	Y	⊠ N [CDFW Re	gulate	ed Act	tivity			Υ 🛚	N 🗆			
Summary of Aquatic	Type of Ju	urisdictio	nal Water Habitat				t Desc	ription ³		Acres Delineated within Maintenance Footprint ⁴			Impact Tier⁵		
Habitats	Channe	Channel Bank			U/E						0.040			Ш	
(Waters of the State Only)									TOTAL 0.040						
Section II.c. Su	mmary of	Vegeta	ation Comm	nunitie	es and Cov	er Ty	pes V	Vithin and	Adjad	ent to	the Maint	enance Fa	acility		
Acres within Study Area ⁶															
Foot			Maintena Footpri						Dominant/Significant Species						
Riparian and We Unvegetated (0.040)	0.010	<u> </u>	1	0.050	Dr	omus di	iandrus P	romus mo	dritansi	'e	
Subtotal Ripari		tland	0.040		0.010		0.050 Bromus di 0.050				diandrus, Bromus madritensis				
Other Land Cov		uariu	0.040	/	0.070			0.030							
Urban/Develop			0.006	<u> </u>	2.427	7		2.433	N/	<u>'</u> Α					
Subtotal Other I		r Types			2.42			2.433	, 47.						
		3.000													

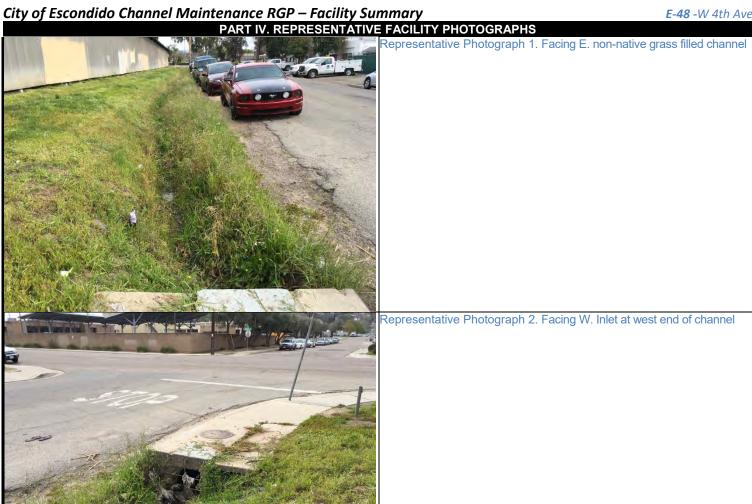
<u> City of Escondido Channel Maintenance</u>			E-48 -W 4th Ave				
Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of	the Maintenance Facility ⁷					
Special status species observed during 2019 field surveys within the Facility Buffer	None						
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A						
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None						
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (<i>Agelaius tricolor</i>) (Coastal California gnatcatcher (<i>Poliopti</i> Least Bell's vireo (<i>Vireo bellii pusillus</i>) (Swainson's hawk (<i>Buteo swainsoni</i>) (Western yellow-billed cuckoo (<i>Coccyzu</i> California black rail (<i>Laterallus jamaicel</i>	ila californica califorica) (FT, SSC) FE, SE) , ST) is americanus occidentalis) (FT, SE)				
Other non-listed special status species historically known to occur within the Facility Buffer	None						
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant (Centromadia parryi s Southern California legless lizard (Anni Orange-throated whiptail (Aspodpscelis Coast horned lizard (Phrynosoma blain Burrowing owl (Athene cunicularia) (SS White-faced ibis (Plagadis chihi) (WL) Pallid bat (Antrozous pallidus) (SSC) Dulzura pocket mouse (Chaetodipus ca Townsend's big-eared bat (Corynorhina Western yellow bat (Lasiurus xanthinus Pocketed free-tailed bat (Nyctinomops Big free-tailed bat (Nyctinomops macro American badger (Taxidea taxus) (SSC)	ella stebbinsi) (SSC) s hyperythra) (SSC) villii) (SSC) C) alifornicus femoralis) (SSC) us townsendii) (SSC) (SSC) femorosaccus) (SSC) tis) (SSC)					
Are species surveys recommended?	Y ☐ N ☒ If Yes, for what species?						
Will work occur in the breeding season (Feb-August)? Y □ N □							
F	ART III. ADDITIONAL NOTES/COMME	NTS					
Feature is a nonwetland water that supported st	anding water at the time of surveys. The	channel is characterized as an unv	regetated				

channel supporting non-native patches of grasses along the channel banks. Vegetation present consisted of Avena sp., Bromus diandrus, Bromus madritensis, chrysanthemum, and hordeum murinum. Sediment deposition and shelving was observed within the channel.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).





Representative Photograph 2. Facing W. Inlet at west end of channel



Representative Photograph 3. Facing E. Culvert at east end of channel

PART I. MAINTENANCE FACILITY INFORMATION																	
Facility Name	W 5 th ar	nd Pine	9	Facility ID E-49													
Location	West 5		·														
Latitude ¹	33.115		Longitude ¹	1 -117.084671 Maintenance Frequency (years) Annually													
										arthen	y (you.	<u> </u>	Aillidally				
Maintenance Facility Type Channel					odimont (and wo		ining Type	Ea	ııııen							
Proposed Maintenance Activities Remove accumulated sediment and weed removal Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation. No dragging of equipment along banks and no equipment in channel.																	
Will work occur when water is in the channel?					Y N												
PART II. SURVEY INFORMATION																	
Surveyors	Lanika	Cerva	ntes, William	Kohn					I	Date o	f Surve	∋y		2/26/	2019		
Was water in the survey?	channel	at the t	ime of the		Y 🛛	N	N ☐ Hydrology Type ² P [□ I		E	⊠ o			
Nearest Named W	Vaterbod	y Es	scondido Cree	ek				NWI Ind	ex	Not cl	assifie	d					
NRCS Soils	Placent	ia sand	dy loam, 2 to 9	9 perce	ent slope	S											
Section II.a. Sum	mary of	USAC	CE/RWQCB/C	DFW	Waters o	of the U	J.S. a	and State I	Nithi	in the	Mainte	enance l	-acili	ity			
USACE 404/RWG	CB 401	.lurisdi	iction	Υ	⊠ N		US	ACF 404 F	Sean	lated A	Activity		Υ		N D	⋜I	
00,102 10 1,1111	(02 101	ouriou			Y N USACE 404 Regulated Activity							Y N M Only Temporary diversion structures are regulated					
USACE Nonwetland Waters Present Y N				Wet	USACE Wetland Waters Present Wetland Waters					it(s)	Y						
Associated Datas	heet(s)											-					
Summary of Aquatic	Type of J	Type of Jurisdictional Water			Habitat Description. ³							Acres Delineated within Maintenance Footprint ⁴			Impact Tier ⁵		
Habitats	Nonwet	Nonwetland Waters			U/E						0.002			П			
(Waters of the U.S. and State)		TOTAL						0.002									
Section II.b. Sum	marv of	f CDFV	V Waters of t	he Sta	te Only	Within	the	Maintenan	ce F	acility							
CDFW 1600 Jurisdiction Beyond USACE Waters Y N CDFW Regulated Activity Y N																	
Summary of Aquatic	Type of J	lurisdict	ctional Water Ha					abitat Description. ³				Acres Delineated within Maintenance Footprint ⁴			Impact Tier ⁵		
Habitats	Channe	el Bank		U/E							0.002			П			
(Waters of the State Only)										TOTAL 0.002							
Section II.c. Sum	nmary of	f Vege	tation Comm	unities	s and Co	ver Ty	pes	Within and	d Ad	jacent	to the	Mainte	nanc	e Fac	ility		
				Acre	s within	Study	Are	a ⁶									
Vegetation Con		s and															
			Maintena					Total			minant/Significant Species						
Riparian and Wet	land		Footpri	IIL	Buff	ier		Total			סמ	ıııınant/	oigni	incant	Speci	# 5	
Unvegetated Channel 0.002					<0.001 0.002 Erodium sp., schismus sp.												
Subtotal Riparia		etland	0.002		<0.0			0.002									
Other Land Cover																	
Urban/Develope			0.001		0.83			0.835		N/A							
Subtotal Other Lan					0.83			0.835									
GI	RAND T	OTAL ⁶	0.003		0.83	34		0.838									

City of Escondido Channel Maintenance		E-49 - W 5th and Pine					
	l Status Species Within the Vicinity of the Maintenance Facility	7					
Special status species observed during 2019 field surveys within the Facility Buffer	None						
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A						
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None						
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (<i>Agelaius tricolor</i>) (, CE) Coastal California gnatcatcher (<i>Polioptila californica califorica</i>) (FT, SSC) Least Bell's vireo (<i>Vireo bellii pusillus</i>) (FE, SE) Swainson's hawk (<i>Buteo swainsoni</i>) (, ST) Western yellow-billed cuckoo (<i>Coccyzus americanus occidentalis</i>) (FT, SE) California black rail (<i>Laterallus jamaicensis coturniculus</i>) (, ST/FP)						
Other non-listed special status species historically known to occur within the Facility Buffer	None						
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant (Centromadia parryi ssp. australis) (CRPR 1B.1) Southern California legless lizard (Anniella stebbinsi) (SSC) Orange-throated whiptail (Aspodpscelis hyperythra) (SSC) Coast horned lizard (Phrynosoma blainvillii) (SSC) Burrowing owl (Athene cunicularia) (SSC) White-faced ibis (Plagadis chihi) (WL) Pallid bat (Antrozous pallidus) (SSC) Dulzura pocket mouse (Chaetodipus californicus femoralis) (SSC) Townsend's big-eared bat (Corynorhinus townsendii) (SSC) Western yellow bat (Lasiurus xanthinus) (SSC) Pocketed free-tailed bat (Nyctinomops femorosaccus) (SSC) Big free-tailed bat (Nyctinomops macrotis) (SSC) American badger (Taxidea taxus) (SSC)						
Are species surveys recommended?	Y N N If Yes, for what species?						
Will work occur in the breeding season (Feb-Au	ıgust)? Y ⊠ N □						
	PART III. ADDITIONAL NOTES/COMMENTS						
channel supporting non-native patches of grass	standing water at the time of surveys. The channel is characterized ses along the channel banks. Short channel that is only daylight for resent consisted of <i>Erodium sp.</i> , <i>schismus sp.</i> , and <i>cynodon dactylo</i> the channel.	approximately 20 feet					

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- $\textbf{2.} \ \ \textbf{Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water}$
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- **4.** Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing E. Culvert

Representative Photograph 2. Facing W. Inlet

			PA	RT I.	MAINTEN	NANCE	FAC	LITY INFO	ORMA	TION					
Facility Name	W 5 th Ave						Fa	cility ID	E-50)					
Location	West 5 th Av	enue						,			<u> </u>				
Latitude ¹	33.114928		ongitude ¹	1	17.085331	1	N 4 4	intonono	- Fragi	uonov (/0.0ro	\	Δn	بالمييم	
				-1	17.00555			aintenance	·		years)	All	nually	/
Maintenance F	Maintenance Facility Type Channel Lining Type Earthen Remove accumulated sediment and weed removal														
Proposed Main Activities	tenance	stag	ed on the	street a	nd ba	ackhoe or					scoop sedir pment in ch				
Will work occur		Y N D If Yes, will dewatering or water diversion be needed?							Y 🖂	N					
					PART II.	SURVE	Y INF	ORMATI	ON						
,	Lanika Cerva			n					Da	ate of S	urvey	,	2/26/2	2019	
Was water in the survey?	water in the channel at the time of the ey?				Y 🛛	N		Hydrolog	ду Тур	e ²	P [] I	□ E	⊠ C) <u> </u>
Nearest Name	d Waterbody	Esc	ondido Cre	ek				NWI Ind	ex N	ot class	sified				
NRCS Soils	Placentia san	dy loa	m, 2 to 9 pe	rcent	slopes										
Section II.a. S	ummarv of l	ISACE	E/RWQCB/0	DFV	/ Waters o	of the U	l.S. ai	nd State I	Nithin	the Ma	inter	nance F	acility		
USACE 404/RV				Y	⊠ N			ACE 404 F					Y Only Temp structures a		
USACE Nonwe Waters Presen		′⊠	N 🗆	W	SACE etland Wa esent	ters	Υ	□ N		Data Take		s)	Y 🗆	N	\boxtimes
Associated Dat	asheet(s)														
Summary of Aquatic Habitat		risdicti	onal Water		Habitat Description ³							Acres Delineated within Maintenance Footprint ⁴		Impact Tier⁵	
(Waters of the U.S. and State)	Nonwetl	and W	aters		U/E TOTAL					L).011). 011		II	
Section II.b. S		DEW	Waters of	tha S	tato Only	Within	tha I	laintanan	co Fac	rility			7.011		
CDFW 1600 Jurisdiction Bey USACE Waters	yond	Y			CDFW F				Ger ac	incy	Y	1	N 🗆		
Summary of Aquatic Habita	Type of Ju	risdicti	onal Water			Habi	itat De	scription ³					lineated withince Footprin		Impact Tier⁵
(Waters of the	Channel	Bank					U/E					(0.019		Ш
State Only)										TOTAL			0.019		
Section II.c. S	ummary of \	/egeta	tion Comm						d Adja	cent to	the l	Mainter	nance Faci	lity	
Vegetation C Cove	ommunities er Types	and	Maintena Footpri	nce	res within 100-F Buf	oot	Area	Total			Don	ninant/S	Significant	Spec	cies
Riparian and V										_					
Unvegetated			0.019		0.003 0.022 Ero				rodium	sp., s	chismu	s sp., and o	cynoa	lon dactylon	
Subtotal Ripa		land	0.019		0.0	03		0.022							
Other Land Co			0.004		A A	60		1 460	l	//					
Urban/Develo	•		0.001		1.4			1.469	N	'A					
Subtotal Other I			0.001		1.4 1.4			1.469 1.490							
	GRAND TO												7		
Section II.d. T				al St	atus Spec	ies Wit	hin t	he Vicinit	y of th	e Main	tenai	ice Fac	cility'		
Special status field surveys w				No	one										

City of Escandida Channel Maintenance RGP - Facility Summary

F-50 - W 5th Ave

Threatened/Endangered species historically known to occur within the Facility Buffer Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer Tricolored blackbird (Agelaius tricolor) (, CE) Coastal California gnatcatcher (Polioptila californica califorica) (FT, SSC) Least Bell's vireo (Vireo bellii pusillus) (FE, SE) Swainson's hawk (Buteo swainson) (, ST)	
Designated Critical Habitat within the Facility Buffer Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer Tricolored blackbird (Agelaius tricolor) (, CE) Coastal California gnatcatcher (Polioptila californica califorica) (FT, SSC) Least Bell's vireo (Vireo bellii pusillus) (FE, SE) Swainson's hawk (Buteo swainsoni) (, ST)	
known to occur within 1.0 mile of the Facility Buffer Coastal California gnatcatcher (<i>Polioptila californica californica</i>) (FT, SSC) Least Bell's vireo (<i>Vireo bellii pusillus</i>) (FE, SE) Swainson's hawk (<i>Buteo swainsoni</i>) (, ST)	
Western yellow-billed cuckoo (<i>Coccyzus americanus occidentalis</i>) (FT, SE) California black rail (<i>Laterallus jamaicensis coturniculus</i>) (, ST/FP)	
Other non-listed special status species historically known to occur within the Facility Buffer None	
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer Southern tarplant (Centromadia parryi ssp. australis) (CRPR 1B.1) Southern California legless lizard (Anniella stebbinsi) (SSC) Orange-throated whiptail (Aspodpscelis hyperythra) (SSC) Coast horned lizard (Phrynosoma blainvillii) (SSC) Burrowing owl (Athene cunicularia) (SSC) White-faced ibis (Plagadis chihi) (WL) Pallid bat (Antrozous pallidus) (SSC) Dulzura pocket mouse (Chaetodipus californicus femoralis) (SSC) Townsend's big-eared bat (Corynorhinus townsendii) (SSC) Western yellow bat (Lasiurus xanthinus) (SSC) Pocketed free-tailed bat (Nyctinomops femorosaccus) (SSC) Big free-tailed bat (Nyctinomops macrotis) (SSC) American badger (Taxidea taxus) (SSC)	
Are species surveys recommended? Y \(\subseteq \text{N} \subseteq \text{If Yes, for what species?} \)	
Will work occur in the breeding season (Feb-August)? Y □ N □	

PART III. ADDITIONAL NOTES/COMMENTS

Feature is a nonwetland water that supported standing water at the downstream portion for the channel at the time of surveys. The channel is characterized as an unvegetated channel supporting non-native patches of grasses along the channel banks. Vegetation present consisted of Erodium sp., schismus sp., and cynodon dactylon. Sediment deposition and shelving was observed within the channel.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing W. Grass filled channel



Representative Photograph 2. Facing W. Outlet



Representative Photograph 3. Facing E. Inlet

			F	PART	I. MAIN	TENAN	CE	FAC	ILITY	/ INFO	DRI	MATI	ON						
Facility Name	e 800 W Vall	еу						Fá	acility	ID	E	-51							
Location	Spruce Str	eet																	
Latitude ¹	33.11869	1	Longitude ¹	-	117.093	295		М	ainter	nance	Fre	eque	ncy (y	ears)			Annu	ally	
Maintenance	Facility Type		Channel					Li	ning 1	Гуре	E	arthe	n						
		Use	of handtoo	ls to r	emove n	onnativ	e ve	geta	ation a	and tr	im r	native	e trees	s/shru	bs, as r	needed	l.		
Proposed Ma Activities	constructed access ramps will be used to access site.										nd								
Will work occur when water is in the channel? Y N If Yes, will dewatering or water diversion be needed? Y N N N N N N N N N N																			
					PART	II. SUF	(VE	Y IN	FORI	MATIC	NC								
Surveyors	Lanika Cer	vante	s, William K	ohn								Date	of Su	ırvey		2/	18/201	19	
Was water in the survey?	the channel	at the	time of		Υ	✓ I	1 [Нус	drolog	ıy T	ype²	P	· [] [⊠ E		0	
	ned Waterbod	d Waterbody Escondido Creek NWI Index Riverine an							nd Fre	eshwate	r Fore	sted/S	Shru	b Wetland					
NRCS Soils	visalia sandy loam, 2 to 5 percent slopes, Placentia sandy loam, 2 to 9 percent slopes																		
Section II.a.	Summary of	USA	CE/RWQCE	3/CDF	W Wate	rs of th	e U	.S. a	and S	tate V	Vith	hin th	пе Ма	intena	ance Fa	cility			
	RWQCB 401			Y		N [Y		l N	1	\boxtimes
USACE 404/RWQCB 401 Jurisdiction Y N USACE 404 Regulated Activity Y N Only Temporary diversion structures are regulated								diversion											
USACE Nonwetland ' Present	Waters	Υ [⊠ N [_	JSACE V Vaters P			Υ	\boxtimes	N			Datap Taken		;) Y	′ 🗵	N	1	
Associated D	atasheet(s)		Wetland	Samp	le Point	1.1 and	1.2												
	Type of Jurisdi	ctiona	Water			Hal	oitat	Desc	ription	.3				Acres Delineated within Maintenance Footprint ⁴			Impact Tier ⁵		
Summary	Wetland wat	ers						V/E							0.	732			
of Aquatic	Wetland wat	ers						V/E							0.	031			Ш
(Waters of				ı			,			Wetla	and	ls Wa	aters			763			-
the U.S.	Nonwetland							V/E V/E								.001 018			II IV
and State)	Nonwetland	vvale	IS				Su			nwet	lan	d Wa	iters			018			
							-						OTAL			781			
	Summary of	CDF	W Waters o	of the	State O	nly Wit	hin	the	Maint	tenan	ce l	Facil	ity						
CDFW 1600 Jurisdiction E USACE Wate			Y 🛭 N				(CDF	W Re	egulate	ed A	Activi	ty	Υ [⊠ N				
	Type of Jurisdi	ctiona	l Water			Hal	bitat	Desc	ription	1.3					cres Deli Iaintenan				Impact Tier⁵
Summary	Riparian Ext							//E								732			I
of Aquatic Habitats	Riparian Ext	ent					\	//E								547		_	Ш
(Waters	Channel Bar	nk					١	<u> </u>	ıbtota	al Rip	aria	an Ex	rtent	1.279 0.002			+	- <u>-</u> 	
of the State	Channel Bar							//E //E								030			IV
Only)	Onamici Dai	ııv							Subto	tal Ci	han	nnel l	Bank			.033			- I V
										J.			TOTAL			311			

Section II.c. Summary of Vegetation Commu	Acre	ypes <i>Within a</i> es within Stud		the Maintenance Facility						
Vegetation Communities and Cover Types		100-Foot Buffer	Total	Dominant/Significant Species						
Riparian and Wetland	-1 0.000	0.400	0.044	Describes for monthly College Indialogic						
Disturbed So. Cottonwood-Willow Riparian Fo		0.132	0.214	Populus fremontii; Salix lasiolepis						
Coastal and Valley Freshwater Marsh	0.732	0.002	0.734	Typha domingensis						
Subtotal Riparian and Wetland	0.814	0.134	0.949							
Jpland	2.400	0.000	0.407	I Manhingtonia naha						
Non-Native Woodland	0.408	0.030	0.437	Eucalyptus ssp., Washingtonia robu						
Non-Native Grassland	0.058	0.005	0.063	Cynodon dactylon						
Subtotal Upland Other Land Cover Types	0.466	0.035	0.500							
Disturbed Habitat	0.003	0.016	0.019							
Urban/Developed	0.077	7.572	7.649							
Subtotal Other Land Cover Types	0.080	7.588	8.18							
GRAND TOTAL ⁶	1.360	7.757	9.117							
				F7						
Special status species observed during 2019 field surveys within the Facility Buffer	None	ithin the vicii	nity of the wallne	enance Facility						
Threatened/Endangered species historically known to occur within the	N/A									
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None									
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Least Bell's vireo (1 Swainson's hawk (1 Western yellow-bill	Coastal California gnatcatcher (<i>Polioptila californica califorica</i>) (FT, SSC) Least Bell's vireo (<i>Vireo bellii pusillus</i>) (FE, SE) Swainson's hawk (<i>Buteo swainsoni</i>) (, ST) Western yellow-billed cuckoo (<i>Coccyzus americanus occidentalis</i>) (FT, SE) California black rail (<i>Laterallus jamaicensis coturniculus</i>) (, ST/FP)								
Other non-listed special status species historically known to occur within the Facility Buffer	None									
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant (Southern California Orange-throated wl Coast horned lizard Burrowing owl (Ath White-faced ibis (P Pallid bat (Antrozot Dulzura pocket mot Townsend's big-ea Western yellow bat Pocketed free-tailed Big free-tailed bat (American badger (**)	a legless lizard hiptail (Aspod) d (Phrynosoma nene cuniculari Plagadis chihi) us pallidus) (S use (Chaetodi red bat (Coryr t (Lasiurus xar d bat (Nyctino (Nyctinomops Taxidea taxus)	(Anniella stebbir pscelis hyperythra a blainvillii) (SSC) ia) (SSC) (WL) SC) ipus californicus f norhinus townsen athinus) (SSC) mops femorosaca macrotis) (SSC)	nsi) (SSC) (a) (SSC) (b) (c) (emoralis) (SSC) (dii) (SSC)						
Are species surveys recommended?	Y 🗆 N 🗵		If Yes, for what species?							
Will work occur in the breeding season (Feb-Au	igust)?			Y						

PART III. ADDITIONAL NOTES/COMMENTS

The channel supports wetland waters that is dominated by Typha domingensis and supports areas of both flowing and ponded water. All wetlands occur within the OHWM of the channel. Lots of wrack and sediment deposition observed within the channel in addition to clear shelving. The downstream segments enters a box culvert that outlets into a short concrete apron before becoming an earthen bottom again. The upstream segment (east of Valley Center Parkway) is dominated by Typha domingensis and Ricinus communis.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- **4.** Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing NW. Coastal and Valley freshwater marsh within portion of channel on west side of Valley Center Parkway.

Representative Photograph 2. Facing SE. Culvert under Valley Center Parkway



Representative Photograph 4. Facing NW. Freshwater marsh and non-native woodland



Representative Photograph 3. Facing E. Coastal and Valley freshwater marsh within channel portion occurring east of Valley Center Parkway

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance R	RGP	City/Count	y:Escondid	o/San Diego	San	npling Date:2	/26/2019	9
Applicant/Owner: City of Escondido				State:CA	San	npling Point:	-51 WS	P 1.1
Investigator(s):Lanika Cervantes; William Kohn		Section, T	ownship, Ra	nge:		_		
Landform (hillslope, terrace, etc.): Drainage		Local relie	ef (concave,	convex, none):conv	/ex	Slo	pe (%):2	
Subregion (LRR):C - Mediterranean California	Lat: 33.	117957		Long:-117.09196	54	 Datu	m:	
Soil Map Unit Name: Visalia sandy loam, 2 to 5 percent	slopes			NWI cla	assification	:Freshwater	Foreste	d/Shr
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes	No ((If no, explai	n in Remaı	·ks.)		
		disturbed?		'Normal Circumstan			No	\bigcirc
		oblematic?		eeded, explain any a	•			
SUMMARY OF FINDINGS - Attach site map si							atures,	etc.
Hydrophytic Vegetation Present? Yes No								
		ls t	he Sampled	Area				
Wetland Hydrology Present? Yes No			hin a Wetlaı		•	No 🔘		
Remarks:Sample point taken within the OHWM of the	e chann	el.						
VEGETATION								
VEGETATION								
	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test				
1.Washingtonia robusta	10	Yes	FACW	Number of Domin That Are OBL, FA				(A)
2.				Total Number of D				`
3.				Species Across A		3	((B)
4.				Percent of Domin	ant Snacia	c		
Total Cover:	10 %			That Are OBL, FA			0.0 %	(A/B)
Sapling/Shrub Stratum 1.Ricinus communis	15	Yes	FACW	Prevalence Index	v worksho	ot:		
2.	13	105	- TACW	Total % Cove		Multiply	v bv:	
3.		-		OBL species	70	x 1 =	70	
4.				FACW species	25	x 2 =	50	
5.				FAC species		x 3 =	0	
Total Cover:	15 %			FACU species		x 4 =	0	
Herb Stratum		**		UPL species	10	x 5 =	50	
1 Typha domingensis	70	Yes	OBL	Column Totals:	105	(A)	170	(B)
2.vinca major 3.	10	No	Not Listed	Prevalence	Index = B/	'A =	1.62	
4.				Hydrophytic Veg			1.02	
5.				X Dominance T				
6.				× Prevalence Ir	ndex is ≤3.	01		
7.				Morphologica				ng
8.						n a separate	,	,
Total Cover:	80 %			Problematic I	Hydrophytic	c Vegetation.	(Explain)	'
Woody Vine Stratum				¹ Indicators of hyd	lric soil an	d wetland by	drology r	nuet
1				be present.	inc son an	a welland ny	arology II	lust
2Total Cover:	%			Hydrophytic				
				Vegetation	0			
% Bare Ground in Herb Stratum 10 % % Cover	ot Riotic (rust	<u>%</u>	Present?	Yes 💿	No C)	
Remarks: Area is dominated by wetland vegetation.								

Sampling Point: E-51 WSI

Llonth	Matrix			ox Feature	00		n the abs		,
Depth (inches)	Color (moist)	%	Color (moist)	<u>x realuit</u> %	Type ¹	Loc ²	Tex	ture	Remarks
)-YR 2/1	95	7.5 4/6		C	M	Loamy/C	lav	
	, 11(2,1		7.5 1/0		. —		<u></u>		
¹ Type: C=Cond	centration, D=Depl	etion, RM	=Reduced Matrix, C	S=Cover	ed or Coate	ed Sand G	rains.	² Location: Pl	_=Pore Lining, M=Matrix.
Hydric Soil Indi	cators: (Applicable	e to all LR	Rs, unless otherwis	e noted.)			Indic	ators for Probl	ematic Hydric Soils:
Histosol (A	.1)		Sandy Red	ox (S5)				1 cm Muck (A9	(LRR C)
Histic Epipe			Stripped M					2 cm Muck (A1	
Black Histic			Loamy Mu					Reduced Vertic	
	Sulfide (A4)	٠١	Loamy Gle					Red Parent Ma	,
	ayers (A5) (LRR C (A9) (LRR D)	•)	Depleted N Redox Dai	•	•			Other (Explain	in Remarks)
	Below Dark Surface	(A11)	Depleted [. ,				
	Surface (A12)	,	Redox De				³ Indio	cators of hydro	phytic vegetation and
Sandy Muc	cky Mineral (S1)		Vernal Poo	ols (F9)					must be present,
	yed Matrix (S4)		.				unle	ess disturbed o	or problematic.
Restrictive Lay	yer (if present):								
Туре:									
Depth (inche	es):						Hydri	c Soil Presen	t? Yes ● No ○
Wetland Hydro	ology Indicators:								
Wetland Hydro	ology Indicators: ors (any one indica	ator is suff							dicators (2 or more required)
Wetland Hydro Primary Indicate Surface Wa	ology Indicators: ors (any one indica ater (A1)	ator is suff	Salt Crus	, ,				Water Ma	rks (B1) (Riverine)
Wetland Hydro Primary Indicate Surface Wa High Water	ors (any one indica ater (A1) r Table (A2)	ator is suff	Salt Crus Biotic Cru	ust (B12)	ton (P12)			Water Ma X Sediment	rks (B1) (Riverine) Deposits (B2) (Riverine)
Wetland Hydro Primary Indicate Surface Wa High Water Saturation	ors (any one indica ater (A1) r Table (A2) (A3)		Salt Crus Biotic Cru Aquatic I	ust (B12) nvertebra				Water Ma X Sediment Drift Depo	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine)
Wetland Hydro Primary Indicate Surface Wa High Water X Saturation Water Mark	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonriveria	ne)	Salt Crus Biotic Cru Aquatic II Hydroger	ust (B12) nvertebra n Sulfide (Odor (C1)	Living Ro		Water Ma X Sediment X Drift Depo X Drainage	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10)
Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering) Deposits (B2) (Nonrivering)	ne) iriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized	ust (B12) nvertebra n Sulfide (Rhizosph	Odor (C1) eres along	•		Water Ma Sediment Drift Depo Drainage Dry-Seas	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2)
Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depose	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Nonrivering Sits (B3) (Nonrivering	ne) iriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence	ust (B12) nvertebrain Sulfide (Rhizosphe of Reduce	Odor (C1) eres along ced Iron (C	•		Water Ma Sediment Drift Depo Drainage Dry-Sease Crayfish E	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8)
Wetland Hydro Primary Indicate Surface Wa High Water X Saturation Water Mark Sediment D Drift Depos Surface So	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Nonrivering) sits (B3) (Nonrivering) Oracks (B6)	ne) riverine) ine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence	ust (B12) nvertebra n Sulfide (Rhizosph e of Reduck k Surface	Odor (C1) eres along ced Iron (C	4)	ots (C3)	Water Ma Sediment Drift Depo Dright Drainage Dry-Seas Crayfish E Saturation	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial Imagery (C9)
Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Nonrivering Sits (B3) (Nonrivering	ne) riverine) ine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc	ust (B12) nvertebra n Sulfide (Rhizosph e of Reduck k Surface	Odor (C1) neres along ced Iron (C neres (C7) ction in Ploy	4)	ots (C3)	Water Ma Sediment Drift Depo Drainage Dry-Seas Crayfish E Saturation Shallow A	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8)
Wetland Hydro Primary Indicate Surface Wa High Water X Saturation Water Mark Sediment D Drift Depos Surface So Inundation	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Nonsits (B3) (Nonrivering Cracks (B6)) Visible on Aerial Inned Leaves (B9)	ne) riverine) ine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc	ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc k Surface on Reduc	Odor (C1) neres along ced Iron (C neres (C7) ction in Ploy	4)	ots (C3)	Water Ma Sediment Drift Depo Drainage Dry-Seas Crayfish E Saturation Shallow A	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3)
Wetland Hydro Primary Indicate Surface Wa High Water X Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain	ors (any one indicators: ors (any one indicator (A1) or Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Nonsits (B3) (Nonrivering Cracks (B6) Visible on Aerial Ir ned Leaves (B9) tions:	ne) ariverine) ine) magery (B	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc	ust (B12) nvertebran Sulfide (Rhizosph of Reduct k Surface on Reduct kplain in F	Odor (C1) neres along ced Iron (C neres (C7) ction in Ploy	4)	ots (C3)	Water Ma Sediment Drift Depo Drainage Dry-Seas Crayfish E Saturation Shallow A	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3)
Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonriverion Deposits (B2) (Nonriverion Cracks (B6) Visible on Aerial Ir ned Leaves (B9) tions: Present?	ne) iriverine) ine) magery (B	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc	ust (B12) nvertebran Sulfide (Rhizosph of Reduct k Surface on Reduct kplain in F	Odor (C1) neres along ced Iron (C neres (C7) ction in Ploy	4)	ots (C3)	Water Ma Sediment Drift Depo Drainage Dry-Seas Crayfish E Saturation Shallow A	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3)
Wetland Hydro Primary Indicate Surface Wat High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain Field Observat Surface Water I Water Table Pro Saturation Pres (includes capilla	cology Indicators: ors (any one indicators (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering (A2) Deposits (B2) (Nonrivering (A2) Deposits (B3) (Nonrivering (A2) Deposits (B3) (Nonrivering (A2) Deposits (B3) (Nonrivering (B3) (Nonrivering (B4)) Deposits (B3) (Nonrivering (B4)) Deposits (B3) (Nonrivering (B4)) Deposits (B3) (Nonrivering (B4)) Deposits (B4) (Nonrivering (B4))	ne) priverine) ine) magery (B	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Thin Muc Tother (Ex No Depth (ii No Depth (ii No Depth (ii	ust (B12) nvertebrar n Sulfide (Rhizosph e of Reduc k Surface on Reduc kplain in F nches): nches):	Odor (C1) peres along ced Iron (C e (C7) etion in Ploy Remarks)	4) wed Soils (ots (C3) (C6)	Water Ma Sediment Drift Depo Dry-Seas Crayfish E Saturatior Shallow A FAC-Neur	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) tral Test (D5)
Wetland Hydro Primary Indicate Surface Wat High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain Field Observat Surface Water I Water Table Pro Saturation Pres (includes capilla	cology Indicators: ors (any one indicators (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering (A2) Deposits (B2) (Nonrivering (A2) Deposits (B3) (Nonrivering (A2) Deposits (B3) (Nonrivering (A2) Deposits (B3) (Nonrivering (B3) (Nonrivering (B4)) Deposits (B3) (Nonrivering (B4)) Deposits (B3) (Nonrivering (B4)) Deposits (B3) (Nonrivering (B4)) Deposits (B4) (Nonrivering (B4))	ne) priverine) ine) magery (B	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Thin Muc Tother (E) No Depth (ii	ust (B12) nvertebrar n Sulfide (Rhizosph e of Reduc k Surface on Reduc kplain in F nches): nches):	Odor (C1) peres along ced Iron (C e (C7) etion in Ploy Remarks)	4) wed Soils (ots (C3) (C6)	Water Ma Sediment Drift Depo Dry-Seas Crayfish E Saturatior Shallow A FAC-Neur	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) tral Test (D5)
Wetland Hydro Primary Indicate Surface Water High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain Field Observat Surface Water I Water Table Pres (includes capillate) Describe Recore	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Nonsits (B3) (Nonrivering) oil Cracks (B6) Visible on Aerial Ir ned Leaves (B9) tions: Present? Present? Seent? Present? Seent? Seent? Are sary fringe) rded Data (stream)	ne) uriverine) ine) magery (B es () es () es () gauge, ma	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Thin Muc Tother (Ex No Depth (ii No Depth (ii No Depth (ii	ust (B12) nvertebrar n Sulfide (Rhizosph e of Reduc k Surface on Reduc kplain in F nches): nches):	Odor (C1) peres along ced Iron (C e (C7) etion in Ploy Remarks)	4) wed Soils (ots (C3) (C6)	Water Ma Sediment Drift Depo Dry-Seas Crayfish E Saturatior Shallow A FAC-Neur	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) tral Test (D5)
Wetland Hydro Primary Indicate Surface Water High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain Field Observat Surface Water I Water Table Pres (includes capillate) Describe Recore	cology Indicators: ors (any one indicators (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering (A2) Deposits (B2) (Nonrivering (A2) Deposits (B3) (Nonrivering (A2) Deposits (B3) (Nonrivering (A2) Deposits (B3) (Nonrivering (B3) (Nonrivering (B4)) Deposits (B3) (Nonrivering (B4)) Deposits (B3) (Nonrivering (B4)) Deposits (B3) (Nonrivering (B4)) Deposits (B4) (Nonrivering (B4))	ne) uriverine) ine) magery (B es () es () es () gauge, ma	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Thin Muc Tother (Ex No Depth (ii No Depth (ii No Depth (ii	ust (B12) nvertebrar n Sulfide (Rhizosph e of Reduc k Surface on Reduc kplain in F nches): nches):	Odor (C1) peres along ced Iron (C e (C7) etion in Ploy Remarks)	4) wed Soils (ots (C3) (C6)	Water Ma Sediment Drift Depo Dry-Seas Crayfish E Saturatior Shallow A FAC-Neur	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) tral Test (D5)
Primary Indicate Surface Water Mark Saturation Water Mark Sediment D Drift Depose Surface So Inundation Water-Stain Field Observat Surface Water I Water Table Pres (includes capillate) Describe Recore	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Nonsits (B3) (Nonrivering) oil Cracks (B6) Visible on Aerial Ir ned Leaves (B9) tions: Present? Present? Seent? Present? Seent? Seent? Are sary fringe) rded Data (stream)	ne) uriverine) ine) magery (B es () es () es () gauge, ma	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Thin Muc Tother (Ex No Depth (ii No Depth (ii No Depth (ii	ust (B12) nvertebrar n Sulfide (Rhizosph e of Reduc k Surface on Reduc kplain in F nches): nches):	Odor (C1) peres along ced Iron (C e (C7) etion in Ploy Remarks)	4) wed Soils (ots (C3) (C6)	Water Ma Sediment Drift Depo Dry-Seas Crayfish E Saturatior Shallow A FAC-Neur	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) tral Test (D5)
Wetland Hydro Primary Indicate Surface Water High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain Field Observat Surface Water I Water Table Pro Saturation Pres (includes capillate) Describe Recore	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Nonsits (B3) (Nonrivering) oil Cracks (B6) Visible on Aerial Ir ned Leaves (B9) tions: Present? Present? Seent? Present? Seent? Seent? Are sary fringe) rded Data (stream)	ne) uriverine) ine) magery (B es () es () es () gauge, ma	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Thin Muc Tother (Ex No Depth (ii No Depth (ii No Depth (ii	ust (B12) nvertebrar n Sulfide (Rhizosph e of Reduc k Surface on Reduc kplain in F nches): nches):	Odor (C1) peres along ced Iron (C e (C7) etion in Ploy Remarks)	4) wed Soils (ots (C3) (C6)	Water Ma Sediment Drift Depo Dry-Seas Crayfish E Saturatior Shallow A FAC-Neur	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) tral Test (D5)
Wetland Hydro Primary Indicate Surface Water High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain Field Observat Surface Water I Water Table Pro Saturation Pres (includes capillate) Describe Recore	ors (any one indicators: ors (any one indicators) ater (A1) r Table (A2) (A3) ks (B1) (Nonrivering Deposits (B2) (Nonsits (B3) (Nonrivering) oil Cracks (B6) Visible on Aerial Ir ned Leaves (B9) tions: Present? Present? Seent? Present? Seent? Seent? Are sary fringe) rded Data (stream)	ne) uriverine) ine) magery (B es () es () es () gauge, ma	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Thin Muc Tother (Ex No Depth (ii No Depth (ii No Depth (ii	ust (B12) nvertebrar n Sulfide (Rhizosph e of Reduc k Surface on Reduc kplain in F nches): nches):	Odor (C1) peres along ced Iron (C e (C7) etion in Ploy Remarks)	4) wed Soils (ots (C3) (C6)	Water Ma Sediment Drift Depo Dry-Seas Crayfish E Saturatior Shallow A FAC-Neur	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) tral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance I	RGP	City/County	Escondid:	o/San Diego	Sam	pling Date: 2/	26/2019)
Applicant/Owner: City of Escondido				State:CA	Sam	pling Point:E-	-51 WSI	P 1.2
Investigator(s):Lanika Cervantes; William Kohn		Section, To	ownship, Ra	nge:		_		
Landform (hillslope, terrace, etc.): hillslope		Local relie	f (concave,	convex, none):conv	ex	Slop	e (%):30)
Subregion (LRR):C - Mediterranean California	Lat: 33.	117934		Long:-117.09201	.5	 Datun	n:	
Soil Map Unit Name: Visalia sandy loam, 2 to 5 percent	slopes			NWI cla	assification:	:Freshwater	Emerge	nt We
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes 🕡	No ((If no, explair	n in Remar	ks.)		
		disturbed?		'Normal Circumstand			No (\circ
		oblematic?		eeded, explain any a				
SUMMARY OF FINDINGS - Attach site map s			`			,	tures,	etc.
	. •			<u> </u>				
		ls ti	ne Sampled	Area				
	•		nin a Wetlar		\circ	No 💿		
Remarks:Sample point taken on hillslope outside of	OHWM.	Approxim	ately 3 fee	t higher in elevati				
VEGETATION								
	Absolute % Cover	Dominant Species?		Dominance Test				
1.Washingtonia robusta	5		FACW	Number of Domina That Are OBL, FA			G	A)
2.				-		2	(-	
3.				Total Number of D Species Across Al		4	(1	в)
4.							(-	_,
Total Cover	5 %			 Percent of Domina That Are OBL, FA 			D % (A	A/B)
Sapling/Shrub Stratum								
1				Total % Cove		et: Multiply	, by	
2				OBL species	1 01.	x 1 =	0	
4.				FACW species	5	x 2 =	10	
5.				FAC species	15	x 3 =	45	
Total Cover:	%			FACU species		x 4 =	0	
Herb Stratum				UPL species	40	x 5 =	200	
1.vinca major	30		Not Listed	Column Totals:	60	(A)	255	(B)
2-oxalis pes-caprae	10		Not Listed	Dravalanca	Inday D/	^	1.25	
3.poa sp.	15	Yes	FAC	Prevalence I Hydrophytic Veg			4.25	
4.				Dominance T				
5.				Prevalence In				
6. 7.				Morphologica			supportin	ıa
8.						n a separate		9
Total Cover:	55 %			Problematic F	lydrophytic	CVegetation ¹	(Explain)	,
Woody Vine Stratum	33 %							
1				¹ Indicators of hyd be present.	ric soil and	d wetland hyd	rology m	nust
2								
Total Cover:	%			Hydrophytic Vegetation				
	of Biotic C		<u>%</u>	Present?	Yes 🔘	No 💿		
Remarks: Hillslope supports a mixture of wetland ar	nd nonwe	etland vege	etation.	•				$\neg \neg$

Sampling Point: E-51 WSI

Profile Description: (Describe to the depth needed to document the indicator or conf	firm the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
0-14 10-YR 3/1 100	Loamy/Clay
	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
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 Redox (S5) Stripped Matrix (S4) 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) Sandy Gleyed Matrix (S4)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if present):	
Type:	
Depth (inches):	Hydric Soil Present? Yes ○ No ●
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required)
Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B2) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living R	
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils	
Water-Stained Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No (Depth (inches):	
Saturation Present? Yes No Depth (inches):	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections)	Vetland Hydrology Present? Yes No s), if available:
Remarks:No hydrology indicators. Sample point taken 3 feet higher in elevation fr	From 1.1.
US Army Corps of Engineers	

Facility Name	Rock Sprin	gs				Facility ID	E-52				
Location	Rock Sprin	gs Road									
Latitude ¹	33.13602	6 L	ongitude ¹	-11	17.105559	Maintenance	Frequency (years)	Annual	ly	
Maintenance	Facility Type	С	Channel			Lining Type	Earthen an	d Concrete			
	, ,,	Remo	ve accum	ulated	sediment and wee						
Proposed Mai Activities	intenance				ed on the street ar						
		chann	nel for clea	n exca	vation. No draggin			-		nel.	
Will work occur when water is in the channel? Y N If Yes, will dewatering or water diversion be needed? PART II. SURVEY INFORMATION										۱ 🗆	
					PART II. SURVEY	/ INFORMATION					
Surveyors	Lanika Cer			n Kohn			Date of S	urvey	2/26/2019)	
Was water in survey?	the channel a	at the tin	ne of the		Y 🛛 N [Hydrolog	y Type ²	P 🗌 I	□ E ⊠	o □	
Nearest Name	ed Waterbod	y Esc	ondido Cre	eek		NWI Inde	Not classi	fied			
NRCS Soils											
Section II.a.	Summary of	USACE	E/RWQCB	/CDFW	/ Waters of the U.	S. and State V	Vithin the M	aintenance l	Facility		
	ACE 404/RWQCB 401 Jurisdiction Y 🖂 N 🔲 USACE 404 Regulated Activity Y 🔲 N 🖂										
	33,192 101110							Only Temporary diversion structures are regulated			
					ACE Wetland aters Present	Y 🔲 N	Data Take	point(s) en	t(s) Y N N Only Temporary diversion structures are regulated		
Associated Datasheet(s)											
, tooodiatou Bt	Summary Type of Jurisdictional Water										
Summary	, ,	ctional W	ater		Habitat I	Description ³			elineated within ance Footprint ⁴	Impact Tier⁵	
Summary of Aquatic Habitats	, ,		ater			Description ³		Maintena		Impact Tier⁵	
Summary of Aquatic Habitats (Waters of	Type of Jurisdi	Waters	ater					Maintena	ance Footprint⁴		
Summary of Aquatic Habitats	Type of Jurisdi	Waters	ater			U/E	TOTA	Maintena	0.043	·	
Summary of Aquatic Habitats (Waters of the U.S. and State)	Type of Jurisdi Nonwetland Nonwetland	Waters Waters		f the S		U/E U/C		Maintena	0.043 0.001	·	
Summary of Aquatic Habitats (Waters of the U.S. and State)	Type of Jurisdi Nonwetland Nonwetland Summary of	Waters Waters		f the S		U/E U/C the Maintenan		Maintena L	0.043 0.001	·	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bous USACE Wate Summary	Type of Jurisdi Nonwetland Nonwetland Summary of	Waters Waters CDFW	<i>Waters</i> of ⊠ N	f the Si	tate Only Within t	U/E U/C the Maintenan		Maintena L Y Acres D	0.043 0.001 0.045	·	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Wate Summary of Aquatic Habitats	Type of Jurisdi Nonwetland Nonwetland Summary of	Waters Waters CDFW Y	<i>Waters</i> of ⊠ N	f the S	tate Only Within to CDFW Regulated	U/E U/C the Maintenant		Maintena L Y Acres D	0.043 0.001 0.045 N	II IV	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Wate Summary of Aquatic Habitats (Waters of	Type of Jurisdi Nonwetland Nonwetland Summary of eyond rs Type of Jurisd	Waters Waters FCDFW Y	<i>Waters</i> of ⊠ N	f the Si	tate Only Within to CDFW Regulated Habitat	U/E U/C the Maintenant Activity Description ³	ce Facility	Maintena L Y Acres D Mainten	N Delineated within nance Footprint ⁴ 0.087 0.003	III	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Waters of Aquatic Habitats	Type of Jurisdi Nonwetland Nonwetland Summary of eyond rs Type of Jurisd	Waters Waters FCDFW Y	<i>Waters</i> of ⊠ N	f the S	tate Only Within to CDFW Regulated Habitat	U/E U/C The Maintenant Activity Description ³		Maintena L Y Acres D Mainten	0.043 0.001 0.045 N	Impact Tier ⁵	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Wate Summary of Aquatic Habitats (Waters of the State Only)	Type of Jurisdi Nonwetland Nonwetland Summary of eyond rs Type of Jurisdi Channel Bar	Waters Waters Waters Y CDFW Y	<i>Waters</i> of ⊠ N		tate Only Within to CDFW Regulated Habitat	U/E U/C The Maintenant Activity Description ³ J/E J/C	ce Facility	Maintena Y Acres D Mainter	N Delineated within nance Footprint ⁴ 0.087 0.003 0.090	Impact Tier ⁵	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Wate Summary of Aquatic Habitats (Waters of the State Only) Section II.c.	Type of Jurisdi Nonwetland Nonwetland Summary of eyond rs Type of Jurisd Channel Bai Channel Bai	Waters Waters Waters Y CDFW Y ictional W nk	<i>Waters</i> of ⊠ N	muniti	CDFW Regulated	U/E U/C The Maintenant Activity Description ³ J/E J/C Des Within and	ce Facility	Maintena Y Acres D Mainter	N Delineated within nance Footprint ⁴ 0.087 0.003 0.090	Impact Tier ⁵	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Water Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation	Type of Jurisdi Nonwetland Nonwetland Summary of eyond rs Type of Jurisdi Channel Bar	Waters Waters Waters Y CDFW Y ictional W nk	Waters of N Atter Mainten	munitic Acr	CDFW Regulated Habitat es and Cover Types within Study	U/E U/C the Maintenant Activity Description J/E J/C Des Within and Area ⁶	ce Facility	Maintena Y Acres D Mainten L O the Mainte	N Delineated within nance Footprint ⁴ 0.087 0.003 0.090 enance Facility	Impact Tier ⁵	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Wate Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation Cov Riparian and	Type of Jurisdi Nonwetland Nonwetland Summary of eyond rs Type of Jurisd Channel Bar Channel Bar Channel Bar Channel Bar Channel Bar Wetland	Waters Waters Waters Y CDFW Y ictional W nk	Waters of N ✓ N dater ation Com	munitic Acr	CDFW Regulated Habitat	U/E U/C The Maintenant Activity Description ³ J/E J/C Des Within and Area ⁶ Total	ce Facility	Maintena Y Acres D Mainten L O the Mainte	N Delineated within nance Footprint ⁴ 0.087 0.003 0.090	Impact Tier ⁵	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Wate Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation Cov Riparian and Unvegetated	Type of Jurisdi Nonwetland Nonwetland Summary of eyond rs Type of Jurisd Channel Bai Channel Bai Channel Bai Channel Bai Channel Bai Wetland d Channel	Waters Waters Waters Y Y Vegeta s and	Waters of N Vater Mainten Footp	munitil Acr	CDFW Regulated Habitat es and Cover Types within Study	U/E U/C The Maintenant Activity Description³ U/E U/C Des Within and Area6 Total 0.087	ce Facility	Maintena Y Acres D Mainten L O the Mainte	N Delineated within nance Footprint ⁴ 0.087 0.003 0.090 enance Facility	Impact Tier ⁵	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Wate Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation Cov Riparian and Unvegetated Subtotal Rip	Type of Jurisdi Nonwetland Nonwetland Summary of eyond rs Type of Jurisd Channel Bar Channel Bar Channel Bar Channel Bar Channel Bar Wetland	Waters Waters Waters Y Y Vegeta s and	Waters of N N Nater Mainten Footp	munitile Acres	CDFW Regulated Habitat es and Cover Types within Study	U/E U/C The Maintenant Activity Description ³ J/E J/C Des Within and Area ⁶ Total	ce Facility	Maintena Y Acres D Mainten L O the Mainte	N Delineated within nance Footprint ⁴ 0.087 0.003 0.090 enance Facility	Impact Tier ⁵	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Wate Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation Con Riparian and Unvegetated Subtotal Rip Upland	Type of Jurisdi Nonwetland Nonwetland Summary of eyond rs Type of Jurisd Channel Bar Channel Bar Channel Bar Channel Bar Wetland d Channel parian and We	Waters Waters Waters Y Y Vegeta s and	Waters of N Atter Mainten Footp 0.08	muniting Acrimance rint	CDFW Regulated Habitat es and Cover Type res within Study A	U/E U/C The Maintenant Activity Description³ J/E J/C Des Within and Area ⁶ Total 0.087 0.087	TOTA	Maintena L Y Acres D Mainten L Dominant	N Delineated within nance Footprint ⁴ 0.087 0.003 0.090 enance Facility	Impact Tier ⁵	
Summary of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction Bousace Wate Summary of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation Cov Riparian and Unvegetated Subtotal Rip	Type of Jurisdi Nonwetland Nonwetland Summary of eyond rs Type of Jurisd Channel Bar Channel Bar Channel Bar Channel Bar Wetland d Channel parian and We	Waters Waters Waters Y CDFW Y ictional W nk nk s and	Waters of N Vater Mainten Footp	munitin Acr	CDFW Regulated Habitat es and Cover Types within Study	U/E U/C The Maintenant Activity Description³ U/E U/C Des Within and Area6 Total 0.087	ce Facility	Maintena L Y Acres D Mainten L Dominant	N Delineated within nance Footprint ⁴ 0.087 0.003 0.090 enance Facility	Impact Tier ⁵	

PART I. MAINTENANCE FACILITY INFORMATION

City of Escondido Channel Maintenance RGP – Facility Summary

E-52 - Rock Springs

Other Land Cover Types									
Urban/Developed	0.029	2.030	2.059						
Subtotal Other Land Cover Types	0.029	2.030	2.059						
GRAND TOTAL ⁶	0.137	4.049	4.186						

SIGNIS TOTAL	
Section II.d. Threatened/Endangered/Specia	l Status Species Within the Vicinity of the Maintenance Facility ⁷
Special status species observed during 2019 field surveys within the Facility Buffer	None
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (Agelaius tricolor) (, CE)
Other non-listed special status species historically known to occur within the Facility Buffer	None
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	None
Are species surveys recommended?	Y N N If Yes, for what species?
Will work occur in the breeding season (Feb-Au	ıgust)? Y ⊠ N □

PART III. ADDITIONAL NOTES/COMMENTS

Channel is a roadside ditch that flows directly adjacent to the road. The channel is unvegetated and supported shelving and sediment deposition. The channel also had flowing water at the time of the survey. The downstream segment of the channel is concrete-lined.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- **4.** Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing E. Concrete-lined channel at downstream end



Representative Photograph 3. Facing N. Blocked outlet

PART I. MAINTENANCE FACILITY INFORMATION																	
Facility Name	e Reidy Cre	ek: Rind	con to Ple	easantwood			Facility I	D	E-53								
Location	Rincon Av	enue															
Latitude ¹	33.16030)5	Longitude	e ¹ -117.	089170	0	Mainten	ance	Frequen	су (у	ears)		Ar	nuall	У	
Maintenance	Facility Type		Channel	•			Lining T	уре	Earthen								
		Mainte	enance a	areas include: 15ft from concrete apron (full bank width) and 10ft wide pilot channel.													
Proposed Ma Activities	aintenance			nulated sedi s needed.	ment a	and herba	aceous veg	etatio	on for pilo	ot cha	anne	el. Han	dwor	k for tri	immir	ng of na	tive
Will work occ	cur when wate	er is in t	he chann		Υ		N 🗵	dive	es, will de rsion be r			or wat	er .	Y [] N	\boxtimes	
				P	ART II.	SURVE	Y INFORM	ATIC	N								
Surveyors	Lanika Ce			am Kohn					Date	of Su	ırvey	1		2/18/	2019		
Was water in the survey?	the channel	at the ti	ime of	Y	\boxtimes	N [Hydi	rolog	y Type ²	P	• [] I	\boxtimes	E		o 🗆	
	ned Waterboo	ly Reic	dy Creek				NWI	Inde	x Fresh	water	For	ested/	Shrul	b Wetla	and		
NRCS Soils	Visalia sand	y loam,	0 to 2 pe	ercent													
Section II.a. Summary of USACE/RWQCB/CDFW Waters of the U.S. and State Within the Maintenance Facility																	
	RWQCB 401				× N		USACE 4						Υ	\boxtimes	N		
USACE Non		Υ [] N	IVI	USACE Wetland Waters Present Y N Dataport Taken			oint(s)									
Associated D			Wetlan	d Sample P			2: OHWM	Data		ancii							
Summary	. ,	ictional V		<u> </u>			Description ³				Δ	Acres De	elinea	ted withi	Acres Delineated within Maintenance Footprint ⁴ Impact Tier ⁵		
						•								.4	impaci		
of Aquatic							V/E				N				t⁴	impact	1101
of Aquatic Habitats (Waters of	Wetland Wa	nters									N		0.38°	1	t⁴	Impact 	
of Aquatic Habitats	Wetland Wa	nters					V/E		Т	OTAL	N		0.38	1 1)1	t ⁴	1	
of Aquatic Habitats (Waters of the U.S. and State)	Wetland Wa	iters Waters	6	of the Stat	e Only		V/E V/C				N		0.38	1 1)1	t ⁴	1	
of Aquatic Habitats (Waters of the U.S. and State)	Wetland Wa Nonwetland Summary o	iters Waters	V Waters			v Within	V/E V/C	enand			Y		0.38	1 1)1	t ⁴	1	
of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction E USACE Water	Wetland Wa Nonwetland Summary o	Waters F CDFW	V Waters			<i>Within</i> FW Reg	V/E V/C the Mainte	enand vity			Y	Acres D	0.38 ⁻ <0.00 0.38 N	1 1)1	nin	IV	
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of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction EUSACE Waters of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation So. Cottons Southern R	Wetland Wallow Nonwetland Summary of Beyond ers Type of Juriso Channel Ballow C	Waters Waters Waters F CDFW Y Stictional V tent Ink Ink F Veget es and G Ripariar	Waters Water Water Cation Co	mmunities Ac Maintenanc Footprint	and Ccres wi	Within FW Reg Habitat Cover Ty ithin Stu 00-Foot Buffer 2.056 0.060	the Mainter ulated Active Description V/E Subtota Subtota Oes Within dy Area 2.4 0.0	al Ch	nannel Ba	ank TOTAL nt to	Y the l	Acres E Mainter	0.38° <0.00 0.388 N N Delinea anance 0.40 <0.0 0.00 0.40 VSigr	ated with Footprin 01 01 02 02 02 02 02 01 01 01 01 002 000 000	ninnt ⁴	Impac	/ ext Tier ⁵
of Aquatic Habitats (Waters of the U.S. and State) Section II.b. CDFW 1600 Jurisdiction EUSACE Waters of Aquatic Habitats (Waters of the State Only) Section II.c. Vegetation So. Cottons Southern R	Wetland Wall Nonwetland Summary of Beyond ers Type of Juriso Channel Ball Channel	Waters Waters Waters F CDFW Y Stictional V tent Ink Ink F Veget es and G Ripariar	Waters Water Water Cation Co	mmunities Ac Maintenanc Footprint	and Ccres wi	Within FW Reg Habitat Cover Ty ithin Stu 00-Foot Buffer 2.056	the Mainter ulated Activities Description V/E Subtota Subtota Oes Within dy Area 1 2.4	al Ch	nannel Ba	ank TOTAL nt to	Y the l	Acres E Mainter	0.38° <0.00 0.388 N N Delinea anance 0.40 <0.0 0.00 0.40 VSigr	ated with Footprin 01 01 02 02 02 ce Fac	ninnt ⁴	Impac	/ et Tier ⁵

City of Escondido Channel Maintenance RGP - Facility Summary Reidy Creek: Rincon to Pleasantwood 0.037 Cynodon dactylon Non-Native Grassland Subtotal Upland 0.001 0.837 0.837 Other **Disturbed Habitat** <0.001 0.709 0.709 < 0.001 0.268 0.27 **Open Water** < 0.001 0.550 0.55 Urban/Developed 0.001 Subtotal Other 1.527 1.53 0.402 4.480 4.881 **GRAND TOTAL⁶** Section II.d. Threatened/Endangered/Special Status Species Within the Vicinity of the Maintenance Facility⁷ Special status species observed during 2019 None field surveys within the Facility Buffer Threatened/Endangered species historically N/A known to occur within the Facility Buffer Threatened/Endangered species having Designated Critical Habitat within the Facility None Buffer Threatened/Endangered species historically known to occur within 1.0 mile of the Facility None Buffer Other non-listed special status species historically known to occur within the Facility None Other non-listed special status species historically known to occur within 1.0 mile of None the Facility Buffer If Yes, for \boxtimes Are species surveys recommended? Ν Least Bell's vireo and San Diego Ambrosia what Will work occur in the breeding season (Feb-August)? \boxtimes Ν П PART III. ADDITIONAL NOTES/COMMENTS Channel supports a low flow channel on the eastern side of the wetland habitat. Course sand within width of OHWM and all wetlands occur within the limits of the OHWM. Urban development occur on either side of the channel. The active floodplain is very flat and shallow slope occurs along the western edge of the channel. Footnotes: 1. Coordinates are based on the centroid of the facility. 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes. 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package. 6. Totals may not add up due to rounding. 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing SW. Facing downstream of channel at Sample Point 1.1.



Representative Photograph 2. Facing N. Riparian forest dominates the channel.



Representative Photograph 3.Facing N. Flowing low flow channel along the eastern edge.



Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: (it of Escondido Project Number:	Town: Escandido State: CA							
Stream: Reidy Creek Investigator(s): L. Cervantes	Photo begin file#: Photo end file#:							
Y / N Do normal circumstances exist on the site?	Location Details:							
Y								
Potential anthropogenic influences on the channel system This segment of reight cre	iem: ek is sucrounded by urban developi	No.						
Houses but the riparian a	ovold.							
Brief site description:	tern edge, active Floodplain very							
Brief site description: Shallow slope along wes flat with gentle transition to pla	nds.							
Checklist of resources (if available):	dete							
Aerial photography								
Topographic maps Period of r								
l <u> </u>	y of recent effective discharges as of flood frequency analysis							
<u></u>	recent shift-adjusted rating							
l ^								
Existing delineation(s) for site most i	recent event exceeding a 5-year event							
Global positioning system (GPS)		1						
Other studies								
Hydrogeomorphic I	·							
Active Floodplain	Low Terrace							
	₩							
	The second secon							
Low-Flow Channels	OHWM Paleo Channel							
Procedure for identifying and characterizing the floor	•							
1. Walk the channel and floodplain within the study area vegetation present at the site.	to get an impression of the geomorphology and							
2. Select a representative cross section across the channel.	-							
3. Determine a point on the cross section that is character	ristic of one of the hydrogeomorphic floodplain un	its.						
a) Record the floodplain unit and GPS position.	to the simple and the comment of the							
b) Describe the sediment texture (using the Wentworth floodplain unit.	i class size) and the vegetation characteristics of the	.6						
c) Identify any indicators present at the location.								
4- Repeat for other points in different hydrogeomorphic	floodplain units across the cross section.							
5- Identify the OHWM and record the indicators. Record	the OHWM position via:							
Mapping on aerial photograph	GPS	İ						
Digitized on computer	Other:							

Wentworth Size Classes

inches	Inches (in) Millimeters (mm					ımı)	Wentworth size class
	0.08	And the state of t		-	256 64		Boulder Cobble Pebble
	0.157 0.079 -	*****	C304//		4 2.00	\$40000 ·	Granule
	0.039	in the second se	distribute.	wat	1.00		Very coarse sand Coarse sand
	0.020	THE PROPERTY AND ADDRESS OF THE PERSON NAMED AS ADDRESS OF THE		um.	0.50	erecutor.	Medium sand
	0.0098	Carrie of the Ca		*****	0.25 0.125	1000000	Fine sand
1/8	0.0025 -	ALI CHILDREN CONTRACTOR CONTRACTO		~—	0,0625	,	Very fine sand Coarse silt
1	0.0012		aucci	***	0.031		Medium silt
	0.00061	2000			0.0156 0.0078		Fine silt
		2000			0.0076		Very fine silt
							Clay



Project ID:	Cross section ID:	Ringon	Date: 🕢	R/G Time	3.*
Cross section drawin	<u>g</u> :	,	į	*	:
	F Terrace	Ofton LE	othum (F	essace W	
<u>OHWM</u>					
GPS point:					
Change in veg		Other:	in bank slope He, Trans	sitions from na within	Eucalytus si
Floodplain unit: [Low-Flow Channel	Active	: Floodplain	☐ Low	Геггасе
GPS point:			•		
Community succession NA	re: <u>fine 51/+</u> % Tree: <u>&</u> %	☐ Mid (l	nerbaceous, sh	_% arubs, saplings) arubs, mature tre	ees)
In dicators: Mudcracks Ripples Drift and/or de Presence of be Benches		Surfac	evelopment ce relief		
Comments:	law supports and bench from	ponded wat	her and	Cattails	ve Floutely

Project ID: Cross section ID:	2:0000 Date: 2/18/19 Time:
Floodplain unit:	Active Floodplain Low Terrace
GPS point:	
Characteristics of the floodplain unit: Average sediment texture: Medium 5/14 Total veg cover: 85 % Tree: 20 % Shr	rub: 20% Herb: 45%
Community successional stage: NA Early (herbaceous & seedlings)	Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Soil development Surface relief Other: Other:
Comments: Gentle slope transition to a of nerbaceas vegetation. Debris + sediment dep	plands no clear bench due to amain plands no clear
Floodplain unit:	☐ Active Floodplain ☐ Low Terrace
GPS point:	
Characteristics of the floodplain unit: Average sediment texture: Coats < 1+ Total veg cover: 5 % Tree: 35 % Sh Community successional stage: NA Early (herbaceous & seedlings)	rub:% Herb:
Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Soil development Surface relief Other: Other: Other:
Comments: Eucalyptus trees clomi as understary.	Other:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance R	GP	City/Count	y:Escondido	o/San Diego	Sam	pling Date: 2/	18/2019	
Applicant/Owner: City of Escondido				State:CA	Sam	oling Point:E-	53 WSF	1.1
Investigator(s):Lanika Cervantes; William Kohn		Section, To	ownship, Rai	nge:				
Landform (hillslope, terrace, etc.): hillslope		Local relie	ef (concave, o	convex, none):conv	ex	Slop	e (%):15	
Subregion (LRR).C - Mediterranean California	Lat: 33.	160676		Long:-117.08916	i8	 Datum	າ:	
Soil Map Unit Name: Visalia sandy loam, 0 to 2 percent s	lopes			NWI cla	assification:	Freshwater 1	Forested	l/Shr
Are climatic / hydrologic conditions on the site typical for this t	ime of ye	ar? Yes	No C	(If no, explain	า in Remark	(s.)		
Are Vegetation Soil or Hydrology sig	nificantly	disturbed?	Are "	Normal Circumstan	ces" presen	it? Yes 💿	No (\supset
Are Vegetation Soil or Hydrology nat	turally pro	oblematic?	(If ne	eded, explain any a	nswers in F	Remarks.)		
SUMMARY OF FINDINGS - Attach site map sh	nowing	samplin	g point lo	cations, transe	ects, imp	ortant fea	tures, e	etc.
Hydrophytic Vegetation Present? Yes No	0							
Hydric Soil Present? Yes No		ls t	he Sampled	Area				
Wetland Hydrology Present? Yes No		with	hin a Wetlar	id? Yes	• ı	No O		
Remarks:Sample point taken owithin OHWM.								
VEGETATION								
	bsolute	Dominant		Dominance Test	worksheet	:		
Tree Stratum (Use scientific names.) 9 1.Salix laseolepis	<u>6 Cover</u> 30	Species? Yes	FACW	Number of Domina			(1	,, l
2.	30	105	TACW	That Are OBL, FA	CW, OF FAC	D: 2	(A	1)
3.				Total Number of D Species Across A		2	(E	2)
4.						_	(L	"
Total Cover:	30 %			Percent of Domina That Are OBL, FA			O % (A	\/B)
Sapling/Shrub Stratum							0 % (7)	(,,,
1				Prevalence Index				
2				Total % Cove	r of:	Multiply		
3				OBL species	20	x 1 =	0	
4				FACW species FAC species	30 92	x 2 = x 3 =	60 276	
5 Total Cover:	%			FACU species	92	x 4 =	0	
Herb Stratum	70			UPL species		x 5 =	0	
1.Distichlis spicata	90	Yes	FAC	Column Totals:	122	(A)	336	(B)
2.Rumex crispus	2	No	FAC			` ,		(-)
3.				Prevalence			2.75	
4.				Hydrophytic Veg				
5				X Dominance T				
6.				X Prevalence InMorphologica			unnortin	_
7						na separate s		ا ا
8.				Problematic H	- lydrophytic	Vegetation ¹ (Explain)	
Total Cover: Woody Vine Stratum	92 %							
1				¹ Indicators of hyd	ric soil and	wetland hyd	rology m	ust
2.				be present.				
Total Cover:	%			Hydrophytic				
% Bare Ground in Herb Stratum 10 % % Cover of	of Biotic C	rust	%	Vegetation Present?	Yes	No 🔘		
Remarks:				[
I .								

SOIL Sampling Point: E-53 WSI

Profile Des	cription: (Describe	to the de	oth needed to do	ocument the	indicator	or confirm	n the absence of	indicators.)
Depth (inches)	Matrix Color (moist)		Color (moist)	edox Feature %	es Type ¹	Loc ²	Texture	Remarks
0-14	10-YR 4/1	90	7.5 YR 4/6		<u>C</u>	<u>M</u>	Loamy/Clay	moist soils
								-
¹ Type: C=0	Concentration, D=Depl	etion, RM	=Reduced Matrix	c, CS=Cover	ed or Coate	ed Sand G	rains. ² Location	on: PL=Pore Lining, M=Matrix.
	Indicators: (Applicabl	-		•				Problematic Hydric Soils:
Histoso		o to an En		Redox (S5)				k (A9) (LRR C)
	pipedon (A2)			d Matrix (S6)				k (A10) (LRR B)
Black H	listic (A3)		Loamy	Mucky Miner	al (F1)		Reduced	Vertic (F18)
	en Sulfide (A4)			Gleyed Matri			=	nt Material (TF2)
	ed Layers (A5) (LRR C	;)		ed Matrix (F3			Other (Ex	plain in Remarks)
	uck (A9) (LRR D) ed Below Dark Surface	. (Λ11)		Dark Surface d Dark Surfa				
	oark Surface (A12)	5 (ATT)		Depressions			³ Indicators of I	hydrophytic vegetation and
I 📖	Mucky Mineral (S1)			Pools (F9)	(1 0)			ology must be present,
	Gleyed Matrix (S4)			- (-/				bed or problematic.
Restrictive	Layer (if present):							-
Type:								
Depth (ii	nches):						Hydric Soil Pr	esent? Yes No
HYDROLO	OGY							
Wetland Hy	drology Indicators:							
Primary Ind	icators (any one indica	ator is suf	ficient)				Seconda	ry Indicators (2 or more required)
Surface	e Water (A1)		Salt C	rust (B11)			☐ Wate	er Marks (B1) (Riverine)
High W	ater Table (A2)		Biotic	Crust (B12)				ment Deposits (B2) (Riverine)
انت ا	ion (A3)			ic Invertebrat				Deposits (B3) (Riverine)
	Marks (B1) (Nonriveri			gen Sulfide (nage Patterns (B10)
	ent Deposits (B2) (Nor		=	ed Rhizosph	_	_	· · · · · ·	Season Water Table (C2)
	eposits (B3) (Nonriver	ine)		nce of Reduc		4)		fish Burrows (C8)
🖳	e Soil Cracks (B6)			Muck Surface		uad Caila (ration Visible on Aerial Imagery (C9)
	tion Visible on Aerial II Stained Leaves (B9)	magery (E	, Ш	it Iron Reduc (Explain in R		vea Solis (low Aquitard (D3)
Field Obse				(Explain in N	terriarks)		× FAC	-Neutral Test (D5)
		es 🔘	No Depth	n (inches):				
Water Table		es (n (inches):				
Saturation I		es 💿		n (inches):	2 inches			
(includes ca	apillary fringe) ecorded Data (stream			`		Wetl	land Hydrology P if available:	resent? Yes No
Remarks:Se	ediment over laid de	own salt	grass.					
JS Army Corr	os of Engineers							

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance RG	SP	City/County	y:Escondido	o/San Diego	Sampl	ling Date: $2/18$	8/2019
Applicant/Owner: City of Escondido				State:CA	Sampl	ing Point:E-5	3 WSP 1.2
Investigator(s):Lanika Cervantes; William Kohn		Section, To	ownship, Rai	nge:			
Landform (hillslope, terrace, etc.): hillslope		Local relie	f (concave, o	convex, none):conv	vex.	Slope	(%):15
Subregion (LRR):C - Mediterranean California L	_at: 33.	160734		Long:-117.08924	15	Datum:	
Soil Map Unit Name: Visalia sandy loam, 0 to 2 percent slo	opes			NWI cla	assification:Fi	reshwater F	orested/Shi
Are climatic / hydrologic conditions on the site typical for this tin	ne of ye	ar? Yes	No C	(If no, explain	n in Remarks	;.)	
Are Vegetation Soil or Hydrology signi	ificantly	disturbed?	Are "	Normal Circumstan	ces" present?	? Yes 💿	No 🔘
Are Vegetation Soil or Hydrology natu	rally pro	oblematic?	(If ne	eded, explain any a	nswers in Re	emarks.)	
SUMMARY OF FINDINGS - Attach site map sho	owing	samplin	g point lo	cations, transe	ects, impo	ortant feati	ures, etc.
Hydrophytic Vegetation Present? Yes No (<u> </u>						
Hydric Soil Present? Yes No		ls ti	he Sampled	Area			
Wetland Hydrology Present? Yes No	•		nin a Wetlan			o	
Remarks:Sample point taken on hillslope outside of OF	HWM.	<u> </u>					
VEGETATION							
	solute Cover	Dominant Species?		Dominance Test			
1.Eucalyptus sp.		Yes	UPL	Number of Domin That Are OBL, FA		0	(A)
2.						v	()
3.				Total Number of E Species Across A		2	(B)
4.				Percent of Domina	ant Species		. ,
Total Cover:	25 %			That Are OBL, FA		0.0	% (A/B)
Sapling/Shrub Stratum				Prevalence Index	v workshoot:		
1				Total % Cove		Multiply b	W.
3.				OBL species		x 1 =	0
4.				FACW species		x 2 =	0
5.				FAC species		x 3 =	0
Total Cover:	%			FACU species		x 4 =	0
Herb Stratum				UPL species	35	x 5 =	175
1.Bromus sp.	10	Yes	Not Listed	Column Totals:	35	(A)	175 (B)
2				Prevalence	Index = B/A	_	5.00
3				Hydrophytic Veg			3.00
5.				Dominance T		,a.o.o.	
6.				Prevalence Ir	ndex is ≤3.0¹		
7.				Morphologica			
8.				l		a separate sh	,
Total Cover:	10 %			Problematic F	Hydrophytic V	'egetation' (E	.xplain)
Woody Vine Stratum	- 70			¹ Indicators of hyd	rio coil and u	watland budge	alogy must
1				be present.	iic soii and v	veliand nyurc	nogy musi
2	%			Hydrophytic			
				Vegetation			
% Bare Ground in Herb Stratum 90 % % Cover of	Biotic C	rust	<u>%</u>	Present?	Yes 🖯	No 💿	
Remarks: mostly Eucalyptus with little understory.							

Sampling Point: E-53 WSI

Depth (inches)			Podo	x Features			n the absence	·
	Matrix Color (moist)	%	Color (moist)		Type ¹	_Loc ²	Texture	Remarks
0-12	10-YR 3/1	100	N/A				Loamy/Clay	drier soils
Hydric Soil I Histoso Histic E Black H	pipedon (A2) listic (A3)		RRs, unless otherwise Sandy Redo Stripped M Loamy Muc	e noted.) ox (S5) atrix (S6) cky Mineral ((F1)	d Sand G	Indicators 1 cm 2 cm Redu	cation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils: Muck (A9) (LRR C) Muck (A10) (LRR B) ced Vertic (F18)
Stratifie 1 cm M Deplete	en Sulfide (A4) d Layers (A5) (LRR C uck (A9) (LRR D) d Below Dark Surface		Depleted M Redox Dari Depleted D	k Surface (F ark Surface	6) (F7)		Other	Parent Material (TF2) (Explain in Remarks)
Sandy I Sandy 0	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)		Redox Dep Vernal Poo	ressions (F8 ls (F9)	3)		wetland l	s of hydrophytic vegetation and nydrology must be present, isturbed or problematic.
	Layer (if present):							
Type: Depth (in	oches).						Undeia Cai	il Present? Yes No •
IVDDOL 6	00V							
Wetland Hy	drology Indicators:	ator is suff	ficient)				Seco	ondary Indicators (2 or more required)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S	rdrology Indicators: cators (any one indicate Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriveriant Deposits (B2) (Nonriveriant Deposits (B3) (Nonriveriant Catalogue (B6) ion Visible on Aerial In Stained Leaves (B9)	ne) riverine) ine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl	` '	or (C1) es along l Iron (C4 7) n in Plow	.)	ots (C3)	endary 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) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indi Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obser	rdrology Indicators: cators (any one indicate Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrivering Deposits (B2) (Nonrivering Soil Cracks (B6) ion Visible on Aerial Instance Leaves (B9) rvations:	ne) ariverine) ine) magery (B	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex	st (B12) vertebrates Sulfide Odo Rhizosphere of Reduced c Surface (Con Reduction	or (C1) es along l Iron (C4 7) n in Plow	.)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hy Primary Indi Surface High W Saturat Water M Sedime Drift De Surface Inundat Water-S Field Obsel	rdrology Indicators: cators (any one indicate Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrivering the Deposits (B2) (Nonrivering the Soil Cracks (B6) ion Visible on Aerial Instalmed Leaves (B9) rvations: ter Present?	ne) iriverine) ine) magery (B	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl	st (B12) vertebrates Sulfide Odd Rhizosphere of Reduced c Surface (Con Reduction plain in Rem	or (C1) es along l Iron (C4 7) n in Plow	.)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	rdrology Indicators: cators (any one indicate Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriveriant Deposits (B2) (Nonriveriant Deposits (B3) (Nonriveriant Cracks (B6) ion Visible on Aerial Instained Leaves (B9) rvations: ter Present? Year	ne) priverine) ine) magery (B	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex No Depth (ir No Depth (ir	st (B12) vertebrates Sulfide Odd Rhizosphere of Reduced c Surface (Con Reduction plain in Rem uches): uches):	or (C1) ss along l Iron (C4 7) n in Plow narks)	ed Soils (ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)

PART I. MAINTENANCE FACILITY INFORMATION										
Facility Name	Reidy Cree	k- Morning Vi	ew		Facility ID	E-54				
Location	Reidy Cree	k/Centre City	Parkway							
Latitude ¹	33.136602	2 Longitu	de ¹ -117.0	94876	Maintenanc	e Frequency (y	rears)	Annually	У	
Maintenance Fa	acility Type	Outlets			Lining Type	Lining Type Earthen				
Remove accumulated sediment at specific outlet locations. Removal of trees/shrubs as needed with handtools. Proposed Maintenance Activities Access from cul-de-sacs or disturbed areas adjacent to the creek. Equipment will be staged on bank and within OHWM to access outlet. outlet and create pilot channel downstream of outlets. Use of both manual and mechanical hand tools only to cut and remove Native trees and shrubs that inhibit flows will be trimmed.							Use of backho	oe or excavato		
Will work occur	when water		nel?	Y 🗆 N	N 🛭 If Y	/es , will dewate ter diversion be		Y 🔲 N		
				RT II. SURVEY	Y INFORMATI	ON				
Surveyors		ervantes and				Date of Su	ırvey	2/18/2019		
Was water in th survey?	e channel a	t the time of th	Y	⊠ N [Hydrolo	gy Type ²	P 🗌 I 🗵	E 🗆 (0 🗆	
Nearest Named	l Waterbody	Reidy Cre	ek		lex Freshwater	Forested/Shr	ub Wetland a	nd Riverine		
NRCS Soils	Grangevil	trangeville fine sandy loam, 0 to 2 percent slopes and Visalia sandy loam, 2 to 5 percent slopes								
Section II.a. Summary of USACE/RWQCB/CDFW Waters of the U.S. and State Within the Maintenance Facility										
USACE 404/RWQCB 401 Jurisdiction Y ⊠ N □ USACE 404 Regulated Activity Y ⊠ N □										
USACE Nonwe Waters Present		Y 🗆 N	USAC Wetlar Preser	E nd Waters	Y 🛭 N	Datap Taken	oint(s)	⊠ N		
Associated Data	asheet(s)	Wetla	nd Sample Po	ints 1.1, 1.2, 2	.1, and 2.2; O	HWM Data She	eet			
Summary of Aquatic	Type of Juri	isdictional Water		Habitat	t Description ³		Acres Delin Maintenand	Impact Tier ⁵		
Habitats	Wetland	d Waters			V/E		0	I		
(Waters of the U.S. and	Wetland	d Waters			V/E	TOTAL	0.011		II	
State)						TOTA	U	.015		
Section II.b. St CDFW 1600 Ju						nce Facility				
Beyond USACE	Waters	Y 🛛	N 🗆		lated Activity		Y 🛭 N	Ц		
Summary of Aquatic		risdictional Wate	er	Habitat	Description ³		Acres Deline Maintenance	e Footprint⁴	Impact Tier⁵	
Habitats	<u> </u>	n Extent			V/E			003	1	
(Waters of the State Only)	Riparia	n Extent			V/E	TOTAL		015 018	II	
Section II.c. Se	ummary of	Vegetation C	ommunities a	and Cover Typ	es Within an	d Adiacent to				
Vegetation Co			Acr	es within Stud				,		
1090	Types	, una 20.5.	Maintenance Footprint	100-Foot Buffer	Total		Dominant/Sig	inificant Sne	riae	
Riparian and W	etland		Тоограни				Dominana e.g	Illinoant ope	0103	
Coastal and V	alley Fresh	water Marsh	-	0.076	0.076	Typha doi	mingensis			
Disturbed So. Riparian Fores	st		0.008	6.725	6.733	Salix lasio	Sparsely vegetated with Populus fremontii and Salix lasiolepis with scattered Palms			
So. Cottonwoo	od-Willow R	iparian Forest	0.003	1.528	1.531	Populus fi	remontii and S	alix lasiolepis		
Subtotal Ripar	rian and We	tland	0.011	8.329	8.340					

Upland		•	•	,
Non-Native Woodland	0.001	2.400	2.401	Washingtonia robusta and ornamentals
Non-Native Grassland	0.007	8.697	8.704	Cynodon dactylon
Subtotal Upland	0.008	11.097	11.105	
Other Land Cover Types				
Disturbed habitat	-	0.585	0.585	
Urban/Developed	-	11.274	11.274	
Subtotal Other Land Cover Types	-	11.859	11.859	
GRAND TOTAL ⁶	0.019	31.643	31.662	
Section II.d. Threatened/Endangered	d/Special Status	Species Withir	the Vicinity o	of the Maintenance Facility

GRAND TOTAL									
Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of the Maintenance Facility								
Special status species observed during 2019 field surveys within the Facility Buffer	None								
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A								
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None								
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (<i>Agelaius tricolor</i>) (, CE) Coastal California gnatcatcher (<i>Polioptila californica califorica</i>) (FT, SSC) Least Bell's vireo (<i>Vireo bellii pusillus</i>) (FE, SE) Swainson's hawk (<i>Buteo swainsoni</i>) (, ST) Western yellow-billed cuckoo (<i>Coccyzus americanus occidentalis</i>) (FT, SE) California black rail (<i>Laterallus jamaicensis coturniculus</i>) (, ST/FP)								
Other non-listed special status species historically known to occur within the Facility Buffer	None								
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant (Centromadia parryi ssp. australis) (CRPR 1B.1) Southern California legless lizard (Anniella stebbinsi) (SSC) Orange-throated whiptail (Aspodpscelis hyperythra) (SSC) Coast horned lizard (Phrynosoma blainvillii) (SSC) Burrowing owl (Athene cunicularia) (SSC) White-faced ibis (Plagadis chihi) (WL) Pallid bat (Antrozous pallidus) (SSC) Dulzura pocket mouse (Chaetodipus californicus femoralis) (SSC) Townsend's big-eared bat (Corynorhinus townsendii) (SSC) Western yellow bat (Lasiurus xanthinus) (SSC) Pocketed free-tailed bat (Nyctinomops femorosaccus) (SSC) Big free-tailed bat (Nyctinomops macrotis) (SSC) American badger (Taxidea taxus) (SSC)								
Are species surveys recommended?	Y N								
Will work occur in the breeding season (Feb-Au	gust)? Y 🖂 N 🗌								

PART III. ADDITIONAL NOTES/COMMENTS

The channel starts at a large box culvert and flows south. Channel is earthen for the full length with large amounts of wrack and sediment deposition observed through the channel. Flowing water within the low-flow channel at the time of the survey. Channel is heavily disturbed, dominated by non-native vegetation and only sparse patches of native tree vegetation present. Additionally, limited understory and urban encampments and trash evident throughout the channel. All wetlands are contained within the OHWM.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing S. near wetland sample points 1.1 and 1.2



Representative Photograph 2. Facing S. Wetland sample point 2



Representative Photograph 3. Facing W. Open outfall that will be maintained



Representative Photograph 4.Facing W. Blocked outfall that will be maintained



Representative Photograph 5. Facing NE. Riparian and emergent wetland.



Representative Photograph 6. Facing NE. Fan palm grove within . drainage

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: City of Escandido	Date: 2/18/19 Time: 2 00 Pm
Project Number: Stream: Reidy Week	Town: Escapido State: (A Photo begin file#: Photo end file#:
Investigator(s):	
Y N Do normal circumstances exist on the site?	Location Details: E-54
Y 🖒 / N 🗌 Is the site significantly disturbed?	Projection: Datum: Coordinates: See Figure
Potential anthropogenic influences on the channel sys	tem:
Encampments and lots of	track in drainable
Brief site description:	dump area as lots of trash. E canopy, mostly herbaceas understary and site.
Usage of monsions and	consol mostly herborens underston
Sparsh regerates continued	red site.
Checklist of resources (if available):	
Aerial photography Dates: Stream gag Gage num	····
Topographic maps Period of a	
	y of recent effective discharges
	s of flood frequency analysis
	recent shift-adjusted rating heights for 2-, 5-, 10-, and 25-year events and the
	recent event exceeding a 5-year event
Global positioning system (GPS)	•
Other studies	
Hydrogeomorphic	Floodplain Units
- Active Floodplain	Low Terrace
Low-Flow Channels	OHWM Paleo Channel
Procedure for identifying and characterizing the floor	
1. Walk the channel and floodplain within the study area	to get an impression of the geomorphology and
vegetation present at the site. 2. Select a representative cross section across the channel.	Draw the cross section and label the floodulain units
3. Determine a point on the cross section that is characte	
a) Record the floodplain unit and GPS position.	, <u>, , , , , , , , , , , , , , , , , , </u>
b) Describe the sediment texture (using the Wentworth	n class size) and the vegetation characteristics of the
floodplain unit. ©) Identify any indicators present at the location.	
4. Repeat for other points in different hydrogeomorphic	floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record	•
Mapping on aerial photograph	GPS
Digitized on computer	Other:

Wentworth Size Classes

		-		, , ,	E CAR CORE		
Inche	s (in)		WW.CommicCom	Mill	imeters (m	m)	Wentworth size class
	10.08 - 2.56 - 0.157 -		allaliana Prantsal	dan.	256 64 4	establish es	Boulder Cobble Boulder Pebble Granule
1/2	0.079 0.039 0.020 0.0098 0.005		distribution of the state of th		2.00 1.00 0.50 0.25 0.125		Very coarse sand Coarse sand Medium sand Fine sand Very fine sand
1/8 — 1/16 1/32 1/64 1/128 —	0.0025 0.0012 0.00061 0.00031 0.00015		Venneo		0.0625 0.031 0.0156 0.0078	,	Coarse silt Medium silt Fine silt Very fine silt
11:20	0.000107	-			0.0039		Clay



ista iri

Project ID: Cross section ID:	54 Date: 2/18/19 Time:	ş *·
Cross section drawing:		
"a"		5
V Loren	oftwar Terrace West	
ELP	Terrace	
	TF	
OHWM		
OIR VV IVI		
GPS point:		100
Indicators:		
Change in average sediment texture	Break in bank slope	
Change in vegetation species	Other:	
Change in vegetation cover	Other:	
	· · · · · · · · · · · · · · · · · · ·	9. 4. 4.
Comments: Slope and char	nge invegerance.	
Comments: Break in slope and char Transition to urban l	andreape	
A dustifice in	•	
Floodplain unit:	☐ Active Floodplain ☐ Low Terrace	1,111
	·	
GPS point:		
Characteristics of the floodplain unit:		aa gald V
A verage sediment texture: The Sanc		Amar A
1 Otal veg cover:% Tree:% Shr	rub:% Herb:%	ALL STATE
Community successional stage:	☐ Mid (herbaceous, shrubs, saplings)	1111
Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)	
Inclicators: Mudcracks	Soil development	aderpés es j
Ripples	☐ Soil development ☐ Surface relief	4.5
Drift and/or debris	Other:	1.0
Presence of bed and bank	Other:	
Benches	Other:	
Comments: the most of this	is stretch of creek, the law flav ing water and is unvegetated.	
1 1. ments flavor	ng water and is unvegetated.	
Channel syll	0	•

Floodplain unit:	E-54 Date: 2/18/19 Time: Active Floodplain Low Terrace	
GPS point:		
Characteristics of the floodplain unit: A verage sediment texture: Medium sar Total veg cover: 80 % Tree: 0 % S Community successional stage: NA Early (herbaceous & seedlings)	Shrub: 6 % Herb: 60% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)	
<u> </u>	7	
Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Soil development Surface relief Other: Other: Other:	+ + 444.
Comments:	not Drainage outlerns and lo	15
*		
CONSECULATION OF OUR	hoposition.	4.1
of debris assetiment	hat. Drainage patterns and lo deposition.	* ' · · ·
GEODIN TYOUSITION	WIN YOUT TO MINIET OUT	
GEODAIN TYOUSITION	deposition. a in slope to uplands but vegetation at other limits	• * •
Gradual transition Clear change in	vegetation at other limits	
Gradual transition Clear change in	WIN YOUT TO MINIET OUT	
Gradual transition Clear change in Floodplain unit: Low-Flow Channel	vegetation at other limits	
Gradual transition Chear change in Floodplain unit: Low-Flow Channel GPS point: Characteristics of the floodplain unit:	Vegetation at offwm limits Active Floodplain Low Terrace	
Characteristics of the floodplain unit: Average sediment texture: Characteristics of the floodplain unit: Average sediment texture: Total veg cover: 55 % Tree: 25 % Community successional stage:	Vegetation at offwm limits Active Floodplain Low Terrace Shrub: 6 % Herb: 30 %	
Gradual transition Chear change in Floodplain unit: Low-Flow Channel GPS point: Characteristics of the floodplain unit: Average sediment texture: Coasse Sans Total veg cover: 55 % Tree: 25 % Community successional stage: NA	Active Floodplain \(\text{Low Terrace} \) \[Shrub: \(\text{\tex{\tex	
Characteristics of the floodplain unit: Average sediment texture: Characteristics of the floodplain unit: Average sediment texture: Total veg cover: 55 % Tree: 25 % Community successional stage:	Vegetation at offwm limits Active Floodplain Low Terrace Shrub: 6 % Herb: 30 %	
Chear change in Change in Low-Flow Channel GPS point: Characteristics of the floodplain unit: Average sediment texture: Coarse soon Total veg cover: 55 % Tree: 25 % Community successional stage: NA Early (herbaceous & seedlings)	Active Floodplain \(\text{Low Terrace} \) \[Shrub: \(\text{\tex{\tex	
Chear change in Chear change i	Active Floodplain Low Terrace Shrub: % Herb: 30 % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other:	

Project/Site: City of Escondido Channel Maintenance F	RGP	City/Count	ty:Escondid	o/San Diego	Samp	oling Date: 2/1	8/2019
Applicant/Owner: City of Escondido				State:CA	Samp	oling Point:E-5	54 WSP 1.1
Investigator(s):Lanika Cervantes; William Kohn		Section, T	ownship, Ra	nge:			
Landform (hillslope, terrace, etc.): drainage		Local relie	ef (concave,	convex, none):conc	ave	Slope	: (%):1
Subregion (LRR):C - Mediterranean California	Lat: 33.	140324		Long:-117.09621	.5	 Datum	
Soil Map Unit Name: Grangeville fine sandy loam, 0 to 2	percent	slopes		NWI cla	ssification:F	 Freshwater F	Forested/Shr
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes (• No ((If no, explair	n in Remark	s.)	
		disturbed?		'Normal Circumstand			No 🔘
		oblematic?		eeded, explain any a			
SUMMARY OF FINDINGS - Attach site map s							ures, etc.
Hydrophytic Vegetation Present? Yes No							
		ls t	he Sampled	l Area			
Wetland Hydrology Present? Yes No			hin a Wetlaı		N	lo 🔘	
Remarks:Sample point taken within OHWM.		·					
VEGETATION							
	Absolute % Cover	Dominant Species?	Indicator	Dominance Test		1	
1.Populus fremontii	20	Yes	FAC	Number of Domina That Are OBL, FA): 4	(A)
2.Washingtonia robusta	15	Yes	FACW	-		· -	(71)
3.			-	 Total Number of D Species Across Al 		4	(B)
4.				-		-	(5)
Total Cover:	35 %			 Percent of Domina That Are OBL, FA 		: 100.0) % (A/B)
Sapling/Shrub Stratum) 70 (7 (D)
1				Prevalence Index			
2				Total % Cove	r of:	Multiply I	
3.				OBL species	1.5	x 1 =	30
4				FACW species FAC species	15 60	x 2 = x 3 =	180
5Total Cover:	%			FACU species	00	x 4 =	0
Herb Stratum	%0			UPL species		x 5 =	0
1.Distichlis spicata	30	Yes	FAC	Column Totals:	75	(A)	210 (B)
2.Rumex crispus	10	Yes	FAC	Column Fotals.	13	(71)	210 (=)
3.				Prevalence I			2.80
4.				Hydrophytic Veg			
5			_	X Dominance To			
6				× Prevalence In			
7				Morphological data in Rei		s (Provide si a separate sl	
8.				Problematic H			,
Total Cover: Woody Vine Stratum	40 %						
1				¹ Indicators of hydi	ric soil and	wetland hydr	ology must
2.				be present.			
Total Cover:	%			Hydrophytic			
% Bare Ground in Herb Stratum 60 % % Cover	of Biotic C	Crust	%	Vegetation Present?	Yes 💿	No 🔘	
Remarks:					. 30 (-)		

Sampling Point: E-54 WSI

Depth			illi lieeu				or commi	n the abse	ence or n	ndicators.)
(inches) C	Matrix Color (moist)	%	Colo	Redox r (moist)	Feature %	es Type¹	_Loc²	Text	ure	Remarks
	YR 3/2		Gley 1	,	5	C	PL	Loamy/Cl		hydrogen odor
	11(3/2		Giey I	2.3/11		<u> </u>	<u> </u>	<u>Edaility/Cl</u>	<u></u>	ny drogen odor
Type: C=Conce	ntration, D=Deple	etion, RM	 =Reduce	ed Matrix, CS	=Cover	ed or Coate	ed Sand G	rains.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil Indica	tors: (Applicable	to all LR	Rs, unle	ss otherwise	noted.)					roblematic Hydric Soils:
Histosol (A1)	`			Sandy Redo	x (S5)					(A9) (LRR C)
Histic Epiped				Stripped Ma	` '					(A10) (LRR B)
Black Histic (Loamy Muc						/ertic (F18)
Hydrogen Su	itide (A4) ers (A5) (LRR C)	`		Loamy Gley Depleted M						t Material (TF2) lain in Remarks)
1 cm Muck (A)		Redox Dark					uiei (⊏xp	nam m Remarks)
	ow Dark Surface	(A11)	H	Depleted Da		. ,				
Thick Dark S		,		Redox Depi		. ,		³ Indica	ators of h	ydrophytic vegetation and
Sandy Mucky	/ Mineral (S1)		П	Vernal Pool	s (F9)			wetla	nd hydro	logy must be present,
Sandy Gleye	d Matrix (S4)							unles	ss disturb	ed or problematic.
Restrictive Layer	r (if present):									
Type:								l	0 " 0	
Depth (inches) Remarks:):							Hydric	Soil Pre	sent? Yes • No O
HYDROLOGY										
4 Y I JK () ()(-										
	ogy Indicators:									
Wetland Hydrolo		tor is suff	icient)						Secondar	v Indicators (2 or more required)
Wetland Hydrolo Primary Indicators	s (any one indica	tor is suff	icient)	Salt Crust	(B11)			<u>S</u>		y Indicators (2 or more required) r Marks (B1) (Riverine)
Wetland Hydrolo Primary Indicators Surface Water	s (any one indica er (A1)	tor is suff	icient)	Salt Crust Biotic Crus	` '			<u>\$</u>	Water	r Marks (B1) (Riverine)
Wetland Hydrold Primary Indicators Surface Wate High Water T	er (A1) Table (A2)	tor is suff	icient)	1	st (B12)	res (B13)			Water Sedin	· · · · · · · · · · · · · · · · · · ·
Wetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A	s (any one indicar er (A1) Table (A2)		icient)	Biotic Crus	st (B12) vertebrat				Water Sedin	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine)
Wetland Hydrold Primary Indicators Surface Water High Water T Saturation (A Water Marks	s (any one indicater (A1) Table (A2) 3)	ne)	icient)	Biotic Crus Aquatic In Hydrogen	st (B12) vertebrat Sulfide (Living Roo		Water Sedin Drift [r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine)
Wetland Hydrolo Primary Indicators X Surface Wate High Water T X Saturation (A Water Marks Sediment De Drift Deposits	s (any one indicater (A1) rable (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering (B3) (Nonrivering (ne) riverine)	icient)	Biotic Crus Aquatic In Hydrogen Oxidized F	st (B12) vertebrat Sulfide (Rhizosph of Reduc	Odor (C1) eres along ced Iron (C	_		Water Sedin Norift Drain	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10)
Wetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (s (any one indicate (A1) Table (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B6))	ne) riverine) ine)		Biotic Crus Aquatic In Hydrogen Oxidized F Presence	st (B12) vertebrat Sulfide (Rhizosph of Reduc	Odor (C1) eres along ced Iron (C- (C7)	4)	ots (C3) [Water Sedin X Drift [Drain Dry-S Crayf	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
Wetland Hydrolo Primary Indicators Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Vi	s (any one indicater (A1) Table (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B4) (B4) (Nonrivering (B4) (B4) (Nonrivering (B4) (Non	ne) riverine) ine)		Biotic Crus Aquatic In Hydrogen Oxidized F Presence Thin Muck Recent Iro	et (B12) vertebrat Sulfide (Rhizosph of Reduc Surface n Reduc	Odor (C1) eres along ced Iron (C- (C7) tion in Ploy	4)	ots (C3) [Water Sedin X Drift [Drain Dry-S Crayf Satur Shall	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)
Wetland Hydrold Primary Indicators Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (I Inundation Vi Water-Staine	er (A1) Table (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering to (B3) (Nonrivering to (B3) (Nonrivering to (B4)	ne) riverine) ine)		Biotic Crus Aquatic In Hydrogen Oxidized F Presence	et (B12) vertebrat Sulfide (Rhizosph of Reduc Surface n Reduc	Odor (C1) eres along ced Iron (C- (C7) tion in Ploy	4)	ots (C3) [Water Sedin X Drift [Drain Dry-S Crayf Satur Shall	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
Wetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil o Inundation Vi Water-Staine Field Observatio	s (any one indicater (A1) Table (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering (B3) (Nonrivering Cracks (B6) (Nonrivering Cracks (B6)) Sible on Aerial Implementation of the control o	ne) riverine) ine) nagery (B	7)	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Thin Muck Recent Iro Other (Exp	st (B12) vertebrat Sulfide (Rhizosph of Reduc Surface n Reduc	Odor (C1) eres along ced Iron (C4 (C7) tion in Plov temarks)	4)	ots (C3) [Water Sedin X Drift [Drain Dry-S Crayf Satur Shall	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)
Wetland Hydrold Primary Indicators Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (I Inundation Vi Water-Staine	s (any one indicate (A1) lable (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering Cracks (B6) sible on Aerial Ind Leaves (B9) lons: leaves (Yes)	ne) riverine) ne) nagery (B	7)	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Thin Muck Recent Iro Other (Exp	st (B12) vertebrat Sulfide (Rhizosph of Reduc Surface n Reduc blain in R	Odor (C1) eres along ced Iron (C- (C7) tion in Ploy	4)	ots (C3) [Water Sedin X Drift [Drain Dry-S Crayf Satur Shall	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)
Wetland Hydrolo Primary Indicators X Surface Water High Water T X Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Viing) Water-Staine Field Observatio Surface Water Presented Presented Presented Presented Inc.	is (any one indicate (A1) is (A2) is (B1) (Nonrivering posits (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B4) (Nonrivering (No	ne) riverine) ne) nagery (B	7)	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Thin Muck Recent Iro Other (Exp	st (B12) vertebrat Sulfide (Rhizosph of Reduc Surface n Reduc olain in R ches): ches):	Odor (C1) eres along ced Iron (C4 (C7) tion in Plov temarks)	4) ved Soils (ots (C3) [[C6) [Water Sedin X Drift I Drain: Dry-S Crayf Satur: Shalld FAC-I	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hydrold Primary Indicators X Surface Water High Water T X Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (I Inundation Vi Water-Staine Field Observatio Surface Water Pres	is (any one indicate (A1) is (A1) is ble (A2) is (B1) (Nonrivering posits (B2) (Nonrivering Cracks (B6) is (B3) (Nonrivering Cracks (B6) is ble on Aerial Implementation of the control of	ne) riverine) ne) nagery (B	7)	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Thin Muck Recent Iro Other (Exp Depth (inc	st (B12) vertebrat Sulfide (Rhizosph of Reduc Surface n Reduc olain in R ches): ches):	Odor (C1) eres along eed Iron (C- (C7) tion in Plov temarks) 1 inch	ved Soils (ots (C3) [C6) [Water Sedin Drift Drain: Dry-S Crayfi Satur: Shalld FAC-I	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)
Wetland Hydrolo Primary Indicators X Surface Water High Water T X Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Vi Water-Staine Field Observatio Surface Water Pres Saturation Preser (includes capillary	is (any one indicater (A1) cable (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering Cracks (B6) sible on Aerial Indicates (B9) cins: esent? Yeent? Ye	ne) riverine) nagery (B	7) No No No Onitoring	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Thin Muck Recent Iro Other (Exp Depth (inc	st (B12) vertebrat Sulfide (Rhizosph of Reduc Surface n Reduc olain in R ches): ches):	Odor (C1) eres along eed Iron (C- (C7) tion in Plov temarks) 1 inch	ved Soils (ots (C3) [C6) [Water Sedin Drift Drain: Dry-S Crayfi Satur: Shalld FAC-I	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hydrolo Primary Indicators X Surface Wate High Water T X Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Vii) Water-Staine Field Observation Surface Water Prowater Table Press Saturation Preser (includes capillary Describe Recorde	is (any one indicater (A1) cable (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering Cracks (B6) sible on Aerial Indicates (B9) cins: esent? Yeent? Ye	ne) riverine) nagery (B	7) No No No Onitoring	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Thin Muck Recent Iro Other (Exp Depth (inc	st (B12) vertebrat Sulfide (Rhizosph of Reduc Surface n Reduc olain in R ches): ches):	Odor (C1) eres along eed Iron (C- (C7) tion in Plov temarks) 1 inch	ved Soils (ots (C3) [C6) [Water Sedin Drift Drain: Dry-S Crayfi Satur: Shalld FAC-I	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hydrolo Primary Indicators X Surface Wate High Water T X Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Vii) Water-Staine Field Observation Surface Water Prowater Table Press Saturation Preser (includes capillary Describe Recorde	is (any one indicater (A1) cable (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering Cracks (B6) sible on Aerial Indicates (B9) cins: esent? Yeent? Ye	ne) riverine) nagery (B	7) No No No Onitoring	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Thin Muck Recent Iro Other (Exp Depth (inc	st (B12) vertebrat Sulfide (Rhizosph of Reduc Surface n Reduc olain in R ches): ches):	Odor (C1) eres along eed Iron (C- (C7) tion in Plov temarks) 1 inch	ved Soils (ots (C3) [C6) [Water Sedin Drift Drain: Dry-S Crayfi Satur: Shalld FAC-I	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Ville) Water-Staine Field Observatio Surface Water Prowulater Table Presertional Control (Includes Capillary Describe Records)	is (any one indicater (A1) cable (A2) 3) (B1) (Nonrivering posits (B2) (Nonrivering Cracks (B6) sible on Aerial Indicates (B9) cins: esent? Yeent? Ye	ne) riverine) nagery (B	7) No No No Onitoring	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Thin Muck Recent Iro Other (Exp Depth (inc	st (B12) vertebrat Sulfide (Rhizosph of Reduc Surface n Reduc olain in R ches): ches):	Odor (C1) eres along eed Iron (C- (C7) tion in Plov temarks) 1 inch	ved Soils (ots (C3) [C6) [Water Sedin Drift Drain: Dry-S Crayfi Satur: Shalld FAC-I	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)

Project/Site: City of Escondido Channel Maintenar	nce RGP	City/County	Escondid	o/San Diego	Sampling [Date: <u>2/18/20</u>	19
Applicant/Owner: City of Escondido				State:CA	Sampling F	Point:E-54 W	'SP 1.2
Investigator(s):Lanika Cervantes; William Kohn		Section, To	wnship, Ra	inge:			
Landform (hillslope, terrace, etc.): hillslope		Local relief	(concave,	convex, none):conv	ex	Slope (%):	15
Subregion (LRR):C - Mediterranean California	Lat: 33.	140339		Long:-117.09636	56	Datum:	
Soil Map Unit Name: Grangeville fine sandy loam, C	to 2 percent	slopes		NWI cla	assification:Fresh	water Fores	ted/Shru
Are climatic / hydrologic conditions on the site typical for	r this time of ye	ear? Yes 💽	No ((If no, explain	n in Remarks.)		
Are Vegetation Soil or Hydrology	significantly	disturbed?	Are	"Normal Circumstand	ces" present? Y	es 💿 N	0 (
Are Vegetation Soil or Hydrology	naturally pr			eeded, explain any a	•		
SUMMARY OF FINDINGS - Attach site ma							s. etc.
			9	,			,
Hydrophytic Vegetation Present? Hydric Soil Present? Yes Yes	No 💿	lo 4h	a Campla	I A ***			
Wetland Hydrology Present?	No (I	ie Sampled in a Wetla		○ No ●	<u> </u>	
Remarks:Sample point taken on hillslope outside		WILL	iii a vvetiai	iiu: 165	O NO G		
VEGETATION							
	Absolute	Dominant		Dominance Test	worksheet:		
Tree Stratum (Use scientific names.)		Species?	Status	Number of Domin		0	(4)
1.Eucalyptus sp.		Yes	UPL	That Are OBL, FA	CW, or FAC:	0	(A)
2				Total Number of D		•	(5)
3.				Species Across A	l Strata:	2	(B)
4	over: 20 %			Percent of Domina		0.0	
Total C Sapling/Shrub Stratum	over: 20 %			That Are OBL, FA	CW, or FAC:	0.0 %	(A/B)
1.				Prevalence Index	worksheet:		
2.				Total % Cove	<u>r of: </u>	Multiply by:	_
3				OBL species	x 1 =		
4				FACW species	x 2 =		
5				FAC species	x 3 =		
Total Co	over: %			FACU species	x 4 =		
1.Cynodon dactylon	10	Yes	Not Listed	UPL species	30 x 5 =	150	
2.				Column Totals:	30 (A)	150) (B)
3.				Prevalence	Index = B/A =	5.00)
4.				Hydrophytic Veg	etation Indicator	rs:	
5.				Dominance T	est is >50%		
6.				Prevalence In			
7.					I Adaptations ¹ (Pr marks or on a ser		
8.					Hydrophytic Veget		
Total Co	over: 10 %			Troblematic r	lydrophlytic veget	lation (Explai	"")
Woody Vine Stratum 1.				¹ Indicators of hyd	ric soil and wetla	and hydrology	must
2				be present.	no con and nona		
Total Co				Hydrophytic			
		S		Vegetation	"		
	over of Biotic (JIUSI	<u>%</u>	Present?	Yes 🖯	No 💿	
Remarks: mostly Eucalyptus with little understo	ry.						

US Army Corps of Engineers

Sampling Point: E-54 WSI

Depth	Matrix				x Feature							
(inches)	Color (moist)	%	Colc	or (moist)	%	Type ¹	Loc ²	Tex	<u>kture</u>		Rema	arks
0-13	10 YR 4/4	100	N/A					Loamy/C	Clay	drier so	oils	
	-											
	-											
Typo: C-C	Concentration, D=Dep	lotion PA	- — — — — — — — — — — — — — — — — — — —	od Matrix C				raine	² l ocatio		ore Lining, M	_Matrix
	<u></u>			· · · · · · · · · · · · · · · · · · ·		ed of Coale	u Sanu Gi				atic Hydric So	
Histoso	Indicators: (Applicab	ie to ali Li	KKS, UNIE	Sandy Redo	•				ators for 1 cm Muc		-	DIIS;
	pipedon (A2)			Stripped M	, ,				2 cm Muc	. , .	,	
_	listic (A3)			Loamy Mu	cky Miner	al (F1)			Reduced	, , ,	,	
	en Sulfide (A4)			Loamy Gle					Red Pare		` ,	
	ed Layers (A5) (LRR (C)		Depleted N	, ,				Other (Ex	plain in R	Remarks)	
	luck (A9) (LRR D) ed Below Dark Surfac	ρ (Δ11)		Redox Dar		. ,						
	Park Surface (A12)	C (ATT)		Redox Dep		. ,		³ Indi	cators of I	hvdrophv	tic vegetation	n and
	Mucky Mineral (S1)			Vernal Poo		()					st be presen	
Sandy	Gleyed Matrix (S4)							unle	ess distur	bed or pr	oblematic.	
estrictive	Layer (if present):											<u> </u>
Туре:												
Depth (ir	nches):							Hydri	ic Soil Pr	esent?	Yes 🔘	No 💿
(DD0)												
•	drology Indicators:		fficient						Soconda	ny Indicat	tors (2 or mo	ro roquirod\
Vetland Hy	drology Indicators:		fficient)	Salt Crue	· (R11)					-	tors (2 or mo	
Vetland Hy rimary Indi	drology Indicators: icators (any one indice water (A1)		fficient)	Salt Crus	` '				Wate	er Marks	(B1) (Riverin	ne)
Vetland Hy Primary Indi Surface High W	ydrology Indicators: icators (any one indicators (A1) water (A1) vater Table (A2)		fficient)	Biotic Cru	st (B12)	es (B13)			Wate	er Marks ment Dep	(B1) (Riverir	ne) Riverine)
Vetland Hy Primary Ind Surface High W	drology Indicators: icators (any one indice water (A1)	ator is su	fficient)	=	st (B12) vertebrat				Wate Sedi	er Marks ment Der Deposits	(B1) (Rivering posits (B2) (Fig. (B3) (Rivering posits (B3))	ne) Riverine)
Vetland Hy rimary Indi Surface High W Saturat Water N	drology Indicators: icators (any one indicate Water (A1) dater Table (A2) ion (A3)	ator is su		Biotic Cru Aquatic Ir Hydrogen	st (B12) vertebrat Sulfide C		Living Roc		Wate Sedi Drift Drair	er Marks ment Dep Deposits nage Patt	(B1) (Riverir	ne) Riverine) ne)
Vetland Hy Primary Indi Surface High W Saturat Water N Sedime	ydrology Indicators: icators (any one indice water (A1) ater Table (A2) ion (A3) Warks (B1) (Nonriver	ator is su ine) nriverine		Biotic Cru Aquatic Ir Hydrogen Oxidized	st (B12) evertebrat Sulfide C Rhizosph	Odor (C1)	•	ots (C3)	Wate Sedi Drift Drair Dry-S	er Marks ment Dep Deposits nage Patt	(B1) (Rivering posits (B2) (Fig. (B3) (Rivering (B10)) (Rivering (B10))	ne) Riverine) ne)
Vetland Hy rimary Indi Surface High W Saturat Water M Sedime Drift De	drology Indicators: icators (any one indicated water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriverent Deposits (B2) (Nonriverent Soil Cracks (B6)	ator is sur ine) nriverine rine))	Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Thin Mucl	st (B12) Evertebrat Sulfide C Rhizospho of Reduce Surface	Odor (C1) eres along ed Iron (C4 (C7)	1)	, ,	Wate Sedi Drift Drain Dry-S	er Marks ment Dep Deposits nage Patt Season V	(B1) (Rivering to (B1)) (Rivering (B2)) (Rivering (B10)) (Rivering (B10)) (Rivering (B10)) (Rivering (C8))	ne) Riverine) ne) C2)
Vetland Hy rimary Ind Surface High W Saturat Water N Sedime Drift De Surface	drology Indicators: icators (any one indicated water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriverent Deposits (B2) (Nonrivered Soil Cracks (B6) tion Visible on Aerial I	ator is sur ine) nriverine rine))	Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Thin Mucl	st (B12) evertebrat Sulfide C Rhizosphe of Reduce Surface on Reduce	Odor (C1) eres along ed Iron (C4 (C7) tion in Plow	1)	, ,	Wate Sedi Drift Drair Dry-S	ment Deposits nage Patt Season Vision Vision Vision Vision Vision Vision Market Part Nation Vision Aquit	(B1) (Rivering (B1) (Rivering (B2) (Rivering (B10) (Rivering (B10)	ne) Riverine) ne) C2)
Vetland Hy rimary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S	drology Indicators: icators (any one indicated water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriver ant Deposits (B2) (Nonriver as Soil Cracks (B6) tion Visible on Aerial I	ator is sur ine) nriverine rine))	Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Thin Mucl	st (B12) evertebrat Sulfide C Rhizosphe of Reduce Surface on Reduce	Odor (C1) eres along ed Iron (C4 (C7) tion in Plow	1)	, ,	Wate Sedi Drift Drair Dry-S	ment Deposits nage Patt Season Vision Vision Vision Vision Vision Vision Market Part Nation Vision Aquit	(B1) (Rivering (B1) (Rivering (B2) (Rivering (B10) (Rivering (B10) (Patterns (B10) (Patterns (C8) (C8) (C8) (C8) (C8)	ne) Riverine) ne) C2)
Vetland Hy Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Water-S	drology Indicators: icators (any one indicators (any one indicators) water (A1) dater Table (A2) dion (A3) Marks (B1) (Nonriver) ent Deposits (B2) (Nonriver) ent Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) rvations:	ine) nriverine rine)) [] B7) [Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Thin Muc Recent Ire Other (Ex	st (B12) evertebrat Sulfide C Rhizosphe of Reduce Surface on Reduce plain in R	Odor (C1) eres along ed Iron (C4 (C7) tion in Plow	1)	, ,	Wate Sedi Drift Drair Dry-S	ment Deposits nage Patt Season Vision Vision Vision Vision Vision Vision Market Part Nation Vision Aquit	(B1) (Rivering (B1) (Rivering (B2) (Rivering (B10) (Rivering (B10)	ne) Riverine) ne) C2)
Primary Indi Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Gurface Water-S Gurface Water-S	drology Indicators: icators (any one indicators) water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) rvations: tter Present?	ine) nriverine rine) magery (l)	Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Thin Muci Recent Ir Other (Ex	st (B12) avertebrat Sulfide C Rhizospho of Reduce Surface on Reduce plain in R	Odor (C1) eres along ed Iron (C4 (C7) tion in Plow	1)	, ,	Wate Sedi Drift Drair Dry-S	ment Deposits nage Patt Season Vision Vision Vision Vision Vision Vision Market Part Nation Vision Aquit	(B1) (Rivering (B1) (Rivering (B2) (Rivering (B10) (Rivering (B10)	ne) Riverine) ne) C2)
Wetland Hy rimary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S ield Obse	drology Indicators: icators (any one indicators (any one indicators) water (A1) dater Table (A2) dion (A3) Marks (B1) (Nonriver) ent Deposits (B2) (Nonriver) ent Deposits (B3) (Nonriver) ent Stained Leaves (B9) rvations: deter Present? Year Present? Year Present? Year Present?	ine) nriverine rine) magery (l	D)	Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Thin Muci Recent Ir Other (Ex	st (B12) evertebrat Sulfide C Rhizosphe of Reduce Surface on Reduce plain in R eches):	Odor (C1) eres along ed Iron (C4 (C7) tion in Plow	1)	, ,	Wate Sedi Drift Drair Dry-S	ment Deposits nage Patt Season Vision Vision Vision Vision Vision Vision Market Part Nation Vision Aquit	(B1) (Rivering (B1) (Rivering (B2) (Rivering (B10) (Rivering (B10)	ne) Riverine) ne) C2)
Wetland Hy rimary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S ield Obse surface Water Table staturation F includes ca	drology Indicators: icators (any one indicators (any one indicators) water (A1) dater Table (A2) dion (A3) Marks (B1) (Nonriver) ent Deposits (B2) (Nonriver) ent Deposits (B3) (Nonriver) ent Stained Leaves (B9) rvations: deter Present? Year Present? Year Present? Year Present?	ine) nriverine rine) magery (l	No (•) No (•) No (•)	Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Thin Muci Recent Ir Other (Ex Depth (ir Depth (ir	st (B12) avertebrat Sulfide C Rhizospho of Reduce Surface on Reduce plain in R aches): aches):	Odor (C1) eres along ed Iron (C4 (C7) tion in Plow emarks)	ved Soils (C6)	Wate Sedi Drift Drair Cray Satu Shal FAC	ment Deposits nage Patt Season V fish Burro ration Vis low Aquit	(B1) (Rivering (B1) (Rivering (B2) (Rivering (B10) (B1	ne) Riverine) ne) C2)
Vetland Hy Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Gurface Wa Vater Table Saturation F Includes ca	drology Indicators: icators (any one indicators) water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriver ant Deposits (B2) (Nonriver and Stained Leaves (B9) rvations: ter Present? Present? quillary fringe)	ine) nriverine rine) magery (les Cores Cor	No (No (No ()	Biotic Cru Aquatic Ir Aquatic Ir Hydrogen Oxidized Presence Thin Muc Recent Ir Other (Ex Depth (ir Depth (ir Depth (ir	st (B12) evertebrat Sulfide C Rhizosphe of Reduce Surface on Reduce plain in R eches): eches): photos, p	Odor (C1) eres along ed Iron (C4 (C7) tion in Plow emarks)	wed Soils (Wetl pections),	C6) and Hyd if availat	Wate Sedi Sedi Drift Drair Cray Satu Shal FAC	ment Deposits nage Patt Season V fish Burro ration Vis low Aquit	(B1) (Rivering (B1) (Rivering (B2) (Rivering (B10) (B1	ne) Riverine) ne) C2) al Imagery (C9
Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Gurface Wa Vater Table Saturation Fincludes ca	drology Indicators: icators (any one indicated and one indicated and one indicated and	ine) nriverine rine) magery (les Cores Cor	No (No (No ()	Biotic Cru Aquatic Ir Aquatic Ir Hydrogen Oxidized Presence Thin Muc Recent Ir Other (Ex Depth (ir Depth (ir Depth (ir	st (B12) evertebrat Sulfide C Rhizosphe of Reduce Surface on Reduce plain in R eches): eches): photos, p	Odor (C1) eres along ed Iron (C4 (C7) tion in Plow emarks)	wed Soils (Wetl pections),	C6) and Hyd if availat	Wate Sedi Sedi Drift Drair Cray Satu Shal FAC	ment Deposits nage Patt Season V fish Burro ration Vis low Aquit	(B1) (Rivering (B1) (Rivering (B2) (Rivering (B10) (B1	ne) Riverine) ne) C2) al Imagery (C9
Vetland Hy Irimary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S ield Obse Surface Wa Vater Table Saturation F ncludes ca	drology Indicators: icators (any one indicated and one indicated and one indicated and	ine) nriverine rine) magery (les Cores Cor	No (No (No ()	Biotic Cru Aquatic Ir Aquatic Ir Hydrogen Oxidized Presence Thin Muc Recent Ir Other (Ex Depth (ir Depth (ir Depth (ir	st (B12) evertebrat Sulfide C Rhizosphe of Reduce Surface on Reduce plain in R eches): eches): photos, p	Odor (C1) eres along ed Iron (C4 (C7) tion in Plow emarks)	wed Soils (Wetl pections),	C6) and Hyd if availat	Wate Sedi Sedi Drift Drair Cray Satu Shal FAC	ment Deposits nage Patt Season V fish Burro ration Vis low Aquit	(B1) (Rivering (B1) (Rivering (B2) (Rivering (B10) (B1	ne) Riverine) ne) C2) al Imagery (C9

Project/Site: City of Escondido Channel Maintenance F	RGP	City/Count	ty:Escondid	o/San Diego	Sam	pling Date:2	/18/2019	9
Applicant/Owner: City of Escondido				State:CA	Sam	pling Point:E	-54 WS	P 2.1
Investigator(s):Lanika Cervantes; William Kohn		Section, T	ownship, Ra	nge:		_		
Landform (hillslope, terrace, etc.): drainage		Local relie	ef (concave,	convex, none):none		Slop	oe (%):1	
Subregion (LRR):C - Mediterranean California	Lat: 33.	132379		Long:-117.09432	0	 Datur	n:	
Soil Map Unit Name: Visalia sandy loam, 2 to 5 percent	slopes			NWI cla	ssification	:Freshwater	Foreste	d/Shrı
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes (• No ((If no, explair	n in Remar	ks.)		
		disturbed?		'Normal Circumstand			No (\circ
	-	oblematic?		eeded, explain any a	•			
SUMMARY OF FINDINGS - Attach site map s						,	atures,	etc.
Hydrophytic Vegetation Present? Yes No								
		ls t	he Sampled	Area				
Wetland Hydrology Present? Yes No		wit	hin a Wetlaı	nd? Yes	•	No 🔘		
Remarks:Sample point taken within OHWM.								
VEGETATION								
	Absolute		Indicator	Dominance Test	workshee	t:		
Tree Stratum (Use scientific names.) 1.Populus fremontii	<u>% Cover</u> 10	Species? Yes	FAC	Number of Domina				,,,
2.Salix laseolepis	$\frac{10}{20}$	Yes	FACW	That Are OBL, FA	CVV, OI FA	C: 3		(A)
3.		103		Total Number of D		5		(B)
4.				Species Across Al	i Siraia.	3		(B)
Total Cover.	: 30 %			Percent of Domina That Are OBL, FA			0 % ((A/B)
Sapling/Shrub Stratum	. 20 70			That Arc OBE, TA	O V V , OI 1 A	0. 00.	0 % (.~/.b)
1				Prevalence Index				
2				Total % Cove	r of:	Multiply		
3				OBL species	20	x 1 =	0 40	
4				FACW species FAC species	20 20	x 2 = x 3 =	60	
5Total Cover:	%			FACU species	10	x 4 =	40	
Herb Stratum	70			UPL species	40	x 5 =	200	
1.cynodon dactylon	40	Yes	Not Listed	Column Totals:	90	(A)	340	(B)
2.Rumex crispus	10	Yes	FAC			. ,		()
3. Melilotus albus	10	Yes	FACU	Prevalence I			3.78	
4.				Hydrophytic Veg				
5				X Dominance To				
6				Prevalence In Morphologica			cupportir	20
7						n a separate		ig
8.	-			Problematic H	lydrophytic	Vegetation ¹	(Explain))
Total Cover:	60 %							
1			-	¹ Indicators of hydrobe present.	ric soil and	d wetland hyd	drology n	nust
2		-						
Total Cover:	%			Hydrophytic Vegetation				
	of Biotic C		%	Present?	Yes 💿	No 🖯		
Remarks: Area supports wetland and nonwetland ve	getation.			•				$\neg \neg$

Sampling Point: E-54 WSI

SOIL

Depth	Matrix (maint)	0/			Feature		1 2	Taust		Remarks	
(inches)	Color (moist)	<u>%</u>		or (moist)		Type ¹	Loc ²	Text			
0-16	10 YR 3/2	95	Gley	1 2.5/N	5	C	PL	Loamy/Cl	ay	hydrogen odor	
										-	
	Concentration, D=Depl	etion, RN	- ∕I=Redu	ced Matrix, CS	=Cover	ed or Coate	ed Sand G	rains.	² Locatio	n: PL=Pore Lining, M=Matrix.	
_	Indicators: (Applicable	e to all L	RRs, unl	_	•					Problematic Hydric Soils:	
Histoso	bl (A1) Epipedon (A2)			Sandy Redox	` '					k (A9) (LRR C)	
_	Histic (A3)			Stripped Ma Loamy Mucl						k (A10) (LRR B) Vertic (F18)	
	en Sulfide (A4)			Loamy Gley						nt Material (TF2)	
	ed Layers (A5) (LRR C	;)		Depleted Ma				□ 0	ther (Ex	plain in Remarks)	
	luck (A9) (LRR D)			Redox Dark		` '					
	ed Below Dark Surface	(A11)	L	Depleted Da		, ,		31	-1(1	on december Conservator Conservat	
	Dark Surface (A12) Mucky Mineral (S1)			Redox Depr		(F8)				nydrophytic vegetation and ology must be present,	
	Gleyed Matrix (S4)			J vernar i ook	5 (1 3)					bed or problematic.	
	Layer (if present):									·	
Type:											
Depth (ir	nches):							Hydric	Soil Pro	esent? Yes No C	
	ydrology Indicators:	ator is su	fficient)						Seconda	ry Indicators (2 or more require	d)
Vetland Hy Primary Ind	ydrology Indicators: icators (any one indica	ator is su	fficient)	Salt Crust	(B11)			<u>S</u>		ry Indicators (2 or more require	<u>d)</u>
Vetland Hy Primary Ind	ydrology Indicators: icators (any one indicate water (A1)	ator is su	fficient)	Salt Crust					Wate	er Marks (B1) (Riverine)	<u>d)</u>
Vetland Hy rimary Ind Surface High W	ydrology Indicators: icators (any one indica	ator is su	fficient)	Salt Crust Biotic Crus Aquatic Inv	t (B12)	es (B13)			Wate	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine)	<u>d)</u>
Vetland Hyrimary Ind Surface High W Saturat	ydrology Indicators: icators (any one indicate water (A1) dater Table (A2)		fficient)	Biotic Crus	t (B12) vertebrat				Wate X Sedi X Drift	er Marks (B1) (Riverine)	<u>d)</u>
rimary Ind Surface High W Saturat Water I	ydrology Indicators: icators (any one indicate water (A1) fater Table (A2) tion (A3)	ne)		Biotic Crus Aquatic Inv	t (B12) vertebrat Sulfide (Odor (C1)	Living Roo		Wate X Sedi X Drift X Drair	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine)	<u>d)</u>
Vetland Hy rimary Ind Surface High W Saturat Water I Sedime	ydrology Indicators: icators (any one indicate water (A1) /ater Table (A2) icion (A3) Marks (B1) (Nonriveri	ne) iriverine		Biotic Crus Aquatic Inv Hydrogen Oxidized R	t (B12) vertebrate Sulfide (hizosphof Reduc	Odor (C1) eres along ced Iron (C4	-		Wate Sedi Drift Drain Dry-3	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)	<u>d)</u>
Vetland Hyrimary Ind Surface High W Saturat Water I Sedime Drift De	ydrology Indicators: icators (any one indicate water (A1) fater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Noriveri es Soil Cracks (B6)	ne) iriverine ine)	[[[] [Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Thin Muck	t (B12) rertebrat Sulfide (hizosph of Reduc	Odor (C1) eres along ced Iron (C4 (C7)	4)	[[[] ots (C3) [[Wate X Sedi X Drift X Drain Dry-8 Cray Satu	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imager	
Primary Ind Surface High W Saturat Water I Sedime Drift De Surface	ydrology Indicators: icators (any one indicate Water (A1) Vater Table (A2) Vation (A3) Warks (B1) (Nonrivering Variant Deposits (B2) (Nonrivering Variant State (B3) (Nonrivering Variant State (B6)	ne) iriverine ine)	[[[] [Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Thin Muck Recent Iron	t (B12) vertebrat Sulfide (hizosph of Reduct Surface n Reduct	Odor (C1) eres along ed Iron (C4 (C7) tion in Ploy	4)	[[[] ots (C3) [[Wate Sedi Drift Drain Dry-3 Cray Satu Shal	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery low Aquitard (D3)	
Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundat	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9)	ne) iriverine ine)	[[[] [Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Thin Muck	t (B12) vertebrat Sulfide (hizosph of Reduct Surface n Reduct	Odor (C1) eres along ed Iron (C4 (C7) tion in Ploy	4)	[[[] ots (C3) [[Wate Sedi Drift Drain Dry-3 Cray Satu Shal	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imager	
Vetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundar Water-3	ydrology Indicators: icators (any one indicate water (A1) /ater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations:	ne) iriverine ine) nagery ([[[] [] [] []	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Thin Muck Recent Iron Other (Exp	t (B12) rertebrar Sulfide (hizosph of Reduc Surface n Reduc lain in R	Odor (C1) eres along ed Iron (C4 (C7) tion in Ploy	4)	[[[] ots (C3) [[Wate Sedi Drift Drain Dry-3 Cray Satu Shal	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery low Aquitard (D3)	
Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundar Water-Sield Obse	ydrology Indicators: icators (any one indicate Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonriverie ent Deposits (B2) (Nonriverie es Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ter Present?	ne) iriverine ine) magery ([[[[[[[Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Thin Muck Recent Iron Other (Exp	t (B12) rertebrat Sulfide (hizosph of Reduc Surface n Reduc lain in R	Odor (C1) eres along ed Iron (C4 (C7) tion in Ploy	4)	[[[] ots (C3) [[Wate Sedi Drift Drain Dry-3 Cray Satu Shal	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery low Aquitard (D3)	
Vetland Hy Irimary Ind Surface High W Saturat Water I Sedime Surface Inundar Water-S ield Obse	ydrology Indicators: icators (any one indicate Water (A1) Vater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Norriveri esposits (B3) (Nonriveri esposits (B3) (Nonriveri esposits (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: iter Present? Ye espresent? Ye especial responsitions (R1) in the responsition (R1) in	ne) priverine ine) magery (l	[Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Thin Muck Recent Iron Other (Exp	t (B12) rertebrat Sulfide (hizosph of Reduc Surface n Reduc lain in R ches): ches):	Odor (C1) eres along ed Iron (C4 (C7) tion in Ploy	4)	[[[] ots (C3) [[Wate Sedi Drift Drain Dry-3 Cray Satu Shal	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery low Aquitard (D3)	
Primary Ind Surface High W Saturat Sedime Drift De Surface Inundar Water-S Geld Obse Surface Water Table Staturation Fincludes ca	ydrology Indicators: icators (any one indicate Water (A1) Vater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Norriveri esposits (B3) (Nonriveri esposits (B3) (Nonriveri esposits (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: iter Present? Ye espresent? Ye especial responsitions (R1) in the responsition (R1) in	ne) uriverine ine) magery (les Coes Coes Coes Coes Coes Coes Coes Co	C	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Thin Muck Recent Iron Other (Exp Depth (inc	t (B12) rertebrar Sulfide (hizosph of Reduc Surface n Reduc lain in R ches): ches): ches):	Odor (C1) eres along eed Iron (C4 (C7) tion in Plov eemarks)	4) ved Soils (Wate Sedi Drift Dry- Cray Satu Shal FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery low Aquitard (D3)	
Vetland Hy Irimary Ind Surface High W Saturat Sedime Drift De Surface Inundar Water-S ield Obse Surface Wa Vater Table Staturation F Includes ca	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) /ater Deposits (B1) (Nonriver /ater Deposits (B3) (Nonriver /ater Deposits (B3) (Nonriver /ater Deposits (B3) (Nonriver /ater Deposits (B4) (Nonriver /ater Deposits (B4) /at	ne) iriverine ine) magery (less Coss Coss Coss Coss Coss Coss Coss C	No	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Thin Muck Recent Iron Other (Exp Depth (inc Depth (inc Depth (inc	t (B12) rertebrar Sulfide (hizosph of Reduce Surface n Reduce lain in R ches): ches):	Odor (C1) eres along ced Iron (C4 (C7) tion in Plov emarks)	4) ved Soils (Wate Sedi Drift Dry- Cray Satu Shal FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imager low Aquitard (D3) -Neutral Test (D5)	
Primary Ind Surface High W Saturat Sedime Drift De Surface Inundat Water-Strield Obse Surface Wa Vater Table Saturation Fincludes ca	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Norriveri es Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ater Present? Present? Present? Present? Present? Present? Present? Present (Stream	ne) iriverine ine) magery (less Coss Coss Coss Coss Coss Coss Coss C	No	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Thin Muck Recent Iron Other (Exp Depth (inc Depth (inc Depth (inc	t (B12) rertebrar Sulfide (hizosph of Reduce Surface n Reduce lain in R ches): ches):	Odor (C1) eres along ced Iron (C4 (C7) tion in Plov emarks)	4) ved Soils (Wate Sedi Drift Dry- Cray Satu Shal FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imager low Aquitard (D3) -Neutral Test (D5)	
Vetland Hy rimary Ind Surface High W Saturat Sedime Drift De Surface Inundar Water-S Water Table Surface Wa Vater Table Saturation F Includes ca Describe Re	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Norriveri es Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ater Present? Present? Present? Present? Present? Present? Present? Present (Stream	ne) iriverine ine) magery (less Coss Coss Coss Coss Coss Coss Coss C	No	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Thin Muck Recent Iron Other (Exp Depth (inc Depth (inc Depth (inc	t (B12) rertebrar Sulfide (hizosph of Reduce Surface n Reduce lain in R ches): ches):	Odor (C1) eres along ced Iron (C4 (C7) tion in Plov emarks)	4) ved Soils (Wate Sedi Drift Dry- Cray Satu Shal FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imager low Aquitard (D3) -Neutral Test (D5)	

Project/Site: City of Escondido Channel Maintenance R	GP	City/Count	Escondid:	o/San Diego	Samp	ling Date: 2/1	8/2019)
Applicant/Owner:City of Escondido				State:CA	Samp	ling Point:E-	54 WSI	P 2.2
Investigator(s):Lanika Cervantes; William Kohn		Section, To	ownship, Ra	nge:				
Landform (hillslope, terrace, etc.): hillslope		Local relie	f (concave,	convex, none):conv	/ex	Slope	e (%):5	
Subregion (LRR):C - Mediterranean California	Lat: 33.	132292		Long:-117.09438	39	 Datum	:	
Soil Map Unit Name: Visalia sandy loam, 2 to 5 percent s	slopes			NWI cla	assification:F	Freshwater I	orestec	d/Shr
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No ((If no, explai	n in Remark	s.)		
Are Vegetation Soil or Hydrology sig	nificantly	disturbed?	Are '	'Normal Circumstan	ces" present	? Yes •	No (\supset
Are Vegetation Soil or Hydrology na	turally pro	oblematic?	(If ne	eded, explain any a	answers in R	emarks.)		
SUMMARY OF FINDINGS - Attach site map sl	howing	samplin	g point lo	ocations, trans	ects, impo	ortant feat	ures,	etc.
Hydrophytic Vegetation Present? Yes No	•							
, , , ,	•	ls ti	ne Sampled	Area				
Wetland Hydrology Present? Yes No	•	witl	nin a Wetlar	nd? Yes	\bigcirc N	lo 💿		
Remarks:Sample point taken on hillslope outside of C	HWM.							
VEGETATION								
	Absolute	Dominant		Dominance Test	worksheet:			
Tree Stratum (Use scientific names.) 1. Ornamental tree (unknown)	<u>% Cover</u> 15	Species? Yes	_Status_ NI	Number of Domin		. 0	,	,,
2.	13		141	That Are OBL, FA	CVV, OI FAC	0	(/	A)
3.				Total Number of I		4	/1	D)
4.				Species Across A		4	(1	B)
Total Cover:	15 %			Percent of Domin That Are OBL, FA		0.0	0/ (/	A/B)
Sapling/Shrub Stratum							% (F	7/0)
1				Prevalence Inde				
2				Total % Cove	er of:	Multiply		
3				OBL species		x 1 =	0	
4				FACW species		x 2 =	0	
5 Total Cover:	0/			FAC species FACU species		x 3 = x 4 =	0	
Herb Stratum	%			UPL species	95	x 5 =	475	
1.Hirshfeldia incana	40	Yes	Not Listed	Column Totals:		(A)	475	(B)
2.Hordeum murinum	20	Yes	Not Listed	. Column Totals.	93	(14)		(5)
3. Erodium sp	15	Yes	Not Listed		Index = B/A		5.00	
4.Bromus diandrus	5	No	Not Listed	Hydrophytic Veg		cators:		
5.				Dominance T				
6				Prevalence Ir		-1 (Day 14)		_
7				Morphologica data in Re		s" (Provide si a separate s		g
8				Problematic I			,	
Total Cover: Woody Vine Stratum	80 %							
1.				¹ Indicators of hyd	Iric soil and	wetland hydr	ology m	ıust
2.				be present.				
Total Cover:	%			Hydrophytic				
% Bare Ground in Herb Stratum 20 % % Cover of	of Biotic C	Crust	%	Vegetation Present?	Yes 〇	No 💿		
Remarks: mostly nonnative weeds along hillslope								
mostly nomitative weeds atong missispe								

Sampling Point: E-54 WSI

Depth Matrix	Pad	ox Features		·
(inches) Color (moist)	% Color (moist)	%Type ¹	Loc ²	Texture Remarks
0-16 10 YR 4/4	100		L	oamy/Clay
Type: C=Concentration, D=Depletion	on, RM=Reduced Matrix, 0	CS=Covered or Coate	d Sand Grai	ns. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwi	se noted.)		Indicators for Problematic Hydric Soils:
Histosol (A1)	Sandy Red	dox (S5)		1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	<u> </u>	Matrix (S6)		2 cm Muck (A10) (LRR B)
Black Histic (A3)	<u> </u>	ucky Mineral (F1)		Reduced Vertic (F18)
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C)		eyed Matrix (F2) Matrix (F3)		Red Parent Material (TF2) Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)		irk Surface (F6)		Unier (Explain in Remarks)
Depleted Below Dark Surface (A		Dark Surface (F7)		
Thick Dark Surface (A12)	· — ·	pressions (F8)		³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Po	ols (F9)		wetland hydrology must be present,
Sandy Gleyed Matrix (S4)				unless disturbed or problematic.
Restrictive Layer (if present):				
Туре:				
Depth (inches):				Hydric Soil Present? Yes ○ No ●
VDD01.00V				
Netland Hydrology Indicators:				
Netland Hydrology Indicators: Primary Indicators (any one indicator				Secondary Indicators (2 or more required)
Vetland Hydrology Indicators: Primary Indicators (any one indicator Surface Water (A1)	Salt Crus	, ,		Water Marks (B1) (Riverine)
Vetland Hydrology Indicators: Primary Indicators (any one indicator Surface Water (A1) High Water Table (A2)	Salt Crus	ust (B12)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crus Biotic Cr	ust (B12) Invertebrates (B13)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Primary Indicators (any one indicators Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crus Biotic Cr Aquatic Hydroge	ust (B12) Invertebrates (B13) n Sulfide Odor (C1)	Living Roots	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriv	Salt Crus Biotic Cr Aquatic Hydroge rerine) Oxidized	ust (B12) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres along	•	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crus Biotic Cr Aquatic Hydroge rerine) Oxidized	ust (B12) Invertebrates (B13) n Sulfide Odor (C1)	•	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) C(C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Vetland Hydrology Indicators: Primary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crus Biotic Cr Aquatic Hydroge rerine) Oxidized Presenc Thin Mu	ust (B12) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) C(C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8)
Vetland Hydrology Indicators: Primary Indicators (any one indicator 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)	Salt Crus Biotic Cr Aquatic Hydroge verine Oxidized Presenc Thin Mug gery (B7) Recent I	ust (B12) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7))	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9
Wetland Hydrology Indicators: Primary Indicators (any one indicator 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 Image Water-Stained Leaves (B9)	Salt Crus Biotic Cr Aquatic Hydroge verine Oxidized Presenc Thin Mug gery (B7) Recent I	ust (B12) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7) ron Reduction in Plow)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator 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 Imag Water-Stained Leaves (B9) Field Observations:	Salt Crus Biotic Cr Aquatic Hydroge Perine Oxidized Thin Mug gery (B7) Recent I Other (E	ust (B12) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7) ron Reduction in Plow)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes (Salt Crus Biotic Cr Aquatic Hydroge Oxidized Presence Thin Mug gery (B7) Recent I Other (E	ust (B12) Invertebrates (B13) In Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7) ron Reduction in Plow xplain in Remarks))	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes (Saturation Present? Yes (Saturation Present? Yes (Sincludes capillary fringe)	Salt Crus Biotic Cr Aquatic Hydroge Oxidized Presenc Thin Mur gery (B7) Recent I Other (E No Depth (No Depth (ust (B12) Invertebrates (B13) In Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7) ron Reduction in Plow xplain in Remarks) inches): inches):	ed Soils (C6	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) C(C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes (Water Table Present?	Salt Crus Biotic Cr Aquatic Hydroge Oxidized Presenc Thin Mur gery (B7) Recent I Other (E No Depth (No Depth (ust (B12) Invertebrates (B13) In Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7) ron Reduction in Plow xplain in Remarks) inches): inches):	ed Soils (C6	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) C(C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes (Water Table Present? Yes (Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gate	Salt Crus Biotic Cr Aquatic Hydroge Oxidized Oxidized Presenc Thin Mul gery (B7) Recent I Other (E	ust (B12) Invertebrates (B13) In Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7) ron Reduction in Plow xxplain in Remarks) inches): inches): inches):	wetlan	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes (Water Table Present? Yes (Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gate	Salt Crus Biotic Cr Aquatic Hydroge Oxidized Oxidized Presenc Thin Mul gery (B7) Recent I Other (E	ust (B12) Invertebrates (B13) In Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7) ron Reduction in Plow xxplain in Remarks) inches): inches): inches):	wetlan	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes (Saturation Present? Yes (Saturation Present? Yes (Includes capillary fringe)	Salt Crus Biotic Cr Aquatic Hydroge Oxidized Oxidized Presenc Thin Mul gery (B7) Recent I Other (E	ust (B12) Invertebrates (B13) In Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7) ron Reduction in Plow xxplain in Remarks) inches): inches): inches):	wetlan	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes (Water Table Present? Yes (Saturation Present? Yes (Sincludes capillary fringe) Describe Recorded Data (stream gate)	Salt Crus Biotic Cr Aquatic Hydroge Oxidized Oxidized Presenc Thin Mul gery (B7) Recent I Other (E	ust (B12) Invertebrates (B13) In Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7) ron Reduction in Plow xxplain in Remarks) inches): inches): inches):	wetlan	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (any one indicators) 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Ves (Saturation Present? Yes (Saturation Present? Yes (Saturation Present) Observible Recorded Data (stream gates)	Salt Crus Biotic Cr Aquatic Hydroge Oxidized Oxidized Presenc Thin Mul gery (B7) Recent I Other (E	ust (B12) Invertebrates (B13) In Sulfide Odor (C1) I Rhizospheres along e of Reduced Iron (C4 ck Surface (C7) ron Reduction in Plow xxplain in Remarks) inches): inches): inches):	wetlan	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)

			PAI	RT I.	MAINTENAN	ICE	FACII	_ITY INFO	ORMA	TION						
Facility Name	HARRF						Fac	cility ID	E-55	;						
Location	Citracad	o Park	way/Avenue	del D	iablo				I							
Latitude ¹	33.105	561 L	Longitude ¹	-11	7.115978		Ма	intenance	Frequ	iency (y	/ears	s)		Aı	nnual	y
Maintenance Facil	ity Type	(Channel				Lin	ing Type	Cond	crete						<u> </u>
	, ,,	Remo	ove accumula	ated s	sediment and	l veg			oncret	e Chan	nel.	Mainte	enand	e of se	ervice	able
Proposed Mainten	ance	struct	ture oment will be	etage	ad on dovolo	nod (aroac	adiacont t	to chai	anol						
Activities			need to have								men	ıt.				
Will work occur wh	on water	ic in th	ho channol?		Υ⊠	N				dewate		or wa	iter ,	Y 🛭	1 N	
Will Work occur wi	ien watei	15 111 11	ne channer:							oe need	led?			· E	7 17	
					PART II. SU	RVE	Y INF	ORMATIC								
,			and William k	Cohn					Da	ite of Su	urve	У		2/26	/2019	
Was water in the c survey?	channel a	t the ti	me of the		Y 🛛	Ν		Hydrolog	у Туре	e ² F	• [I		E	\boxtimes	o 🗆
Nearest Named W	aterbody	Esc	condido Cree	k				NWI Inde	ex Rive	erine						
NRCS Soils Visal	ia sandv	loam.	2 to 5 percen	t slor	oes		I									
Section II.a. Sum						he U						nance		ity		
USACE 404/RWQ	CB 401 .	Jurisdic	ction	Y	⊠ N	╙╽	USA	CE 404 R	egulat	ed Activ	/ity		Y		N	
																/ diversion egulated
USACE Nonwetlar	nd	v M	1 N \square	US	ACE Wetland	d	V [¬		Datap	oint	(s)				
Waters Present		Υ 🛚	N 🗆	Wa	ters Present		Υ [N		Taker		,	Υ		N	
Associated Datash	neet(s)															
Summary of	Type of I	uriodist	ional Water		F	labita	ıt Descr	iption. ³				Acres D	elineat	ted with	in	
Aquatic Habitats												Mainter		ootprir	ıt ⁴	Impact Tier⁵
(Waters of the U.S. and State)	Nonw	etland	Waters				V/C	;					0.10			IV
,	mayı of	CDEM	/ Matera of t	ha Cr	oto Only Wi	4hin	4ho 1/1	ointonon	aa Ead	TOTAL	-		0.10)5		
Section II.b. Sum	mary Oi			ne Si	-				cerac	шц	.,					
Jurisdiction Beyon	d	Y	⊠ N L	J	CDFW Reg	ulate	ed Acti	vity			Y	\bowtie	N	Ш		
USACE Waters	ı					1 - 1 - 14		3								
Summary of	Type of J	urisdict	ional Water		1	наріта	at Desc	ription						ted with		Impact Tier⁵
Aquatic Habitats (Waters of the	Chan	nel Baı	nk				V/C)					0.1			IV
State Only)										TOTAL	-		0.1	07		
Section II.c. Sum	mary of	Vegeta	ation Comm	unitie	es and Cove	r Ty	pes V	ithin and	l Adjad	cent to	the	Maint	enand	ce Fac	ility	
Vegetation Com	-				es within St											
Cover T		Juliu	Maintena Footprii		100-Foot Bi	uffor	_	Total			Don	ninan	t/Cian	ifican	t Sno	ocios
Riparian and Wetl	and		i ootpiii	11	100-1 001 51	unei		Total			DOI	iiiiaii	ı/Əigi	iiicaii	t ope	CICS
Southern Willow	Scrub		-		0.417			0.417		ılix lasic	_		x laev	rigata		
Coast Live Oak \			-		0.285			0.285		iercus a						
So. Cottonwood- Forest	Willow R	iparian	-		0.294			0.294	Po	pulus fi	remo	ontii ar	nd Sal	lix lasi	olepis	
Subtotal Ripariar	n and We	tland	_		0.995			0.995								
Upland																
Non-native Grass	sland		-		0.171			0.171								

City of Escondido Channel Mai	ntenance	RGP – Facility Su	mmary	E-55 - HARRF
Other Land Cover Types	0.114	2.256	2.370	
Urban/Developed Subtotal Other Land Cover Types	0.114	2.256	2.370	
GRAND TOTAL ⁶	0.114	3.422	3.536	
GRAND TOTAL	0.114	VI-TALE	0.000	
Section II.d. Threatened/Endange	red/Specia	l Status Species Witl	hin the Vicinity of	the Maintenance Facility ⁷
Special status species observed dur field surveys within the Facility Buffe		None		
Threatened/Endangered species his known to occur within the Facility Bu		N/A		
Threatened/Endangered species ha Designated Critical Habitat within th Buffer		None		
Threatened/Endangered species his known to occur within 1.0 mile of the Buffer		Tricolored blackbird Coastal California gr		(, CE) ila californica califorica) (FT, SSC)
Other non-listed special status spec historically known to occur within the Buffer		None		
Other non-listed special status spec historically known to occur within 1.0 the Facility Buffer		Summer holly (Coma Western spadefoot (Coastal whiptail (<i>As</i>	arostaphylis divers Spea hammondii) podpscelis tigris ste ed jackrabbit (Lepu	
Are species surveys recommended	?	Y 🛭 N 🗌	If Yes, for what species?	Least Bell's vireo during breeding season
Will work occur in the breeding seas	on (Feb-Au	gust)?		Y 🛭 N 🗆
	F	PART III. ADDITIONA	L NOTES/COMME	NTS
was taken based on water marks pr of grasses. An earthen channel flow	esent appro s into this c as wetland v	oximately 1.5 feet above hannel from outside owaters due to presence	ve the channel bott f the HARRF facilit e of wetland veget	was observed within the channel and the OHWM om. Channel is unvegetated with small patches y. The earthen channel is outside of the ation. There was no access to the buffer area
Footnotes: 1. Coordinates are based on the centroid of the fa 2. Hydrology Types: P = Perennial, I = Intermittent 3. Habitat Descriptions: V = Vegetated, U = Unveged 4. Impact areas are subject to change based on ag 5. The impact tier determines thresholds for O&M included in the permit package. 6. Totals may not add up due to rounding. 7. Sources: California Natural Diversity Database	, E = Ephemeral, etated / E = Eartl ency recommen activities under	hen, C = Concrete dations and/or maintenance do this RGP, and prescribes mitig	ation ratios for permanen	t/repeated impacts. A methodology for determining impact tier is SFWS 2019).



Representative Photograph 1. Facing NW. Concrete drainage channel



Representative Photograph 2. Facing S. Inlet for adjacent natural channel flowing into concrete-lined channel.



Representative Photograph 3. Facing S. Adjacent riparian woodland south of drainage.

				Facility ID E-56															
Facility Name	McLeod Pa	ark						Fa	cility ID		E-56								
	South Iris I																		
Latitude ¹	33.14598	5 L	ongitu	ıde ¹	-11	17.097582		Ма	intenan	ce F	reque	ency (year	s)		А	nnual	ly	
Maintenance Fac	ility Type		Chann	el				Lin	ing Type	Э	Earth	en an	d As	phalt					
Proposed Mainter Activities	nance					sediment ar				e dra	ainage	e ditch	to c	origina	l cont	ours.			
									lf '	Υ Δ9	will :	dewat	erina	g or wa	ater				
Will work occur w	hen water i	s in th	ie chai	nnel?		Υ	N					e need		y Or we	atoi	Υ [] N	I 🛛	
						PART II. S	URVE	Y INF	ORMAT	101	N								
Surveyors La	nika Cerva	ntes a	and Wi	illiam l	Kohn						Dat	e of S	urve	у		2/18	3/2019		
Was water in the survey?	channel at	the tir	ne of t	he		Y 🛚	N		Hydrol	ogy	Туре	2	Р			E	\boxtimes	o 🗆	
Nearest Named V	Vaterbody	Esc	ondid	o Cree	ek				NWI In	dex	Not	classit	ied						
NRCS Soils Vista	a coarse sa	andy lo	oam, 5	5 to 9	perce	nt slopes													
Section II.a. Sun	nmary of U	SACE	E/RWC	QCB/C	DFW	Waters of	f the U	.S. ar	nd State	Wi	ithin <u>t</u>	he Ma	inte	nance	e Faci	lity			
USACE 404/RWC					Υ	⊠ N			CE 404						Υ	\boxtimes	N		
USACE Nonwetla Waters Present	and Y	′ 🛛	N			ACE Wetla		Υ	N	D		Data Take		t(s)	Υ		N	\boxtimes	
Associated Datas	heet(s)																		
Summary of	Type of Juri	sdictio	nal Wat	er			Habitat	Descr	iption ³					Acres I	Delinea	ted witl	nin		5
Aquatic Habitats								U/E						Mainte		Footpri	nt ⁴	Impact T	
(Waters of the	Nonwet	land v	valers					U/E							0.0			Ш	
U.S. and State)												TOTA			0.0	25			
Section II.b. Sun	nmary of C	DFW	Wate	rs of t	the St	ate Only V	Vithin	the M	laintena	nce	e Faci	lity							
CDFW 1600 Jurisdiction Beyor USACE Waters	nd	Y		N [CDFW Re							Υ		N				
Summary of Aquatic	Type of Juri	sdictio	nal Wat	er			Habitat	Desci	ription ³							ated wi Footpi		Impact [*]	Tier ⁵
Habitats (Waters of the	Channe	l Bank	(U/E							0.0	039			
State Only)			_									TOTA	L		0.0	039			
Section II.c. Sun	nmary of V	'egeta	tio <u>n (</u>	Comm	uniti	es and Cov	ver <u>Ty</u>	oes V	Vithin ar	nd A	4 <i>dja</i> ç	ent to	the	Main	tenan	ce <u>Fa</u>	cility		
						es within													
Vegetation Cor Cover		and		intena ootpri		100-Foot	Buffer		Total				Doi	minan	t/Sigı	nificar	nt Spe	cies	
Riparian and Wet	tland							ı									•		
Unvegetated Ch				0.039)	0.004	4		0.042										
Subtotal Riparia	n and Wet	and		0.039)	0.00	4		0.042										
Upland Non-Native Gra	eeland		1	0.001		0.796	6		0.797										
	Subtotal Upi	land		0.001		0.79			0.797										
Other Land Cove		and		0.001		0.19	J		0.131										
Urban/Develope				<0.00	1	2.23	7		2.237										
Subtotal Other Lar	nd Cover T	ypes		<0.00		2.23			2.237										
G	RAND TO	Γ AL ⁶		0.040		3.030	6		3.076										

Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of	the Maintenance Facility ⁷
Special status species observed during 2019 field surveys within the Facility Buffer	None	
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A	
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None	
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (<i>Agelaius tricolor</i>) (Coastal California gnatcatcher (<i>Poliopti</i>	
Other non-listed special status species historically known to occur within the Facility Buffer	None	
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	None	
Are species surveys recommended?	Y N N If Yes, for what species?	
Will work occur in the breeding season (Feb-Au	gust)?	Y 🛭 N 🗆

PART III. ADDITIONAL NOTES/COMMENTS

The majority of the channel is earthen (upstream end) and the downstream most end becomes asphalt-lined. Channel is a roadside ditch that runs along the roads edge and is primarily unvegetated. Channel supported shelving and had flowing water at the time of the survey.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- **4.** Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).

PART IV. REPRESENTATIVE FACILITY PHOTOGRAPHS



Representative Photograph 1. Facing S. Unvegetated channel and inlet



Representative Photograph 3. Facing N. Storm drain at downstream end of channel

PART I. MAINTENANCE FACILITY INFORMATION											
Facility Name	Bienvenid	o and '	Vista			Facility ID	E-57				
Location	Bienvenid	o Lane	and Vista Ave	nue							
Latitude ¹	33.15423	36	Longitude ¹	-11	7.089045	Maintenance	Maintenance Frequency (years) Annually				
Maintenance F	acility Type)	Inlet			Lining Type	Earthen				
		Rei	move accumula	ated s	sediment and wee	d removal					
Activities chann			annel for clean	exca	ed on the street ar vation. ent along banks al				scoop sediment	out of	
Will work occur	when wat	er is in	the channel?		Y N If Yes, will dewatering or water diversion be needed?						
					PART II. SURVEY	INFORMATIO					
,			s and William K	Cohn			Date of Su	urvey	2/18/2019		
Was water in the survey?	ne channel	at the	time of the		Y 🛛 N [Hydrolog	ıy Type ²	P 🗌 I	□ E	o □	
Nearest Name	d Waterbo	dy E	scondido Cree	k		NWI Inde	ex Not classifi	ied			
NRCS Soils	amona sa	ndy loa	am, 2 to 5 perce	ent sle	opes						
Section II.a. S	ummary c	f USA	CE/RWQCB/C	DFW	Waters of the U.	S. and State V	Vithin the Ma	intenance F	acility		
USACE 404/R\	NQCB 40°	Jurisc	diction	Υ	⊠ N □	USACE 404 R	egulated Activ	·			
							Only Temporary diversion structures are regulated				
USACE Nonwe Waters Presen		ΥI	⊠ N □	We	JSACE Netland Waters Y						
Associated Dat	asheet(s)		OHWM Dat	a She	eet						
Summary of Aquatic Habita		of Juriso	dictional Water		Habitat	Description ³		Acres Del Maintenai	Impact Tier⁵		
(Waters of the	No	nwetla	ind Waters	U/E				0.002		II	
U.S. and State)							0.002			
	ummary c	f CDF	W Waters of the	he St	ate Only Within t	he Maintenand	ce Facility				
CDFW 1600 Jurisdiction Bey USACE Waters			Y 🛭 N 🗆		CDFW Regulated	CDFW Regulated Activity			N 🗆		
Summary of Aquatic Habita		of Jurise	dictional Water		Habita	t Description ³		ineated within nce Footprint⁴	Impact Tier⁵		
(Waters of the	Ch	annel	Bank			U/E		0.003	П		
State Only)							TOTAL		0.003		
Section II.c. S	ummary c	of Vege	etation Comm	unitie	es and Cover Typ	es Within and	Adjacent to	the Mainten	ance Facility		
Vegetation Communities and				Acr	es within Study /	Area ⁶					
Cover Types		Maintena Footpri		100-Foot Buffer	Total		Dominant/Significant Sp		cies		
Other Land Co	ver Types		,			· otui	ı		gount ope		
Urban/Develo	ped		-		0.817	0.817					
Disturbed Ha	bitat		0.003		0.145	0.14					
Subtotal Other L	and Cove	r Type	s 0.003	_	0.962	0.965					
GRAND TOTAL ⁶			6 _		0.962	0.965					

City of Escondido Channel Maintenance RGP – Facility Summary

E-57 - Bienvenido and Vista

Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of	the Maintenance Facility ⁷
Special status species observed during 2019	Nega	
field surveys within the Facility Buffer	None	
Threatened/Endangered species historically	****	
known to occur within the Facility Buffer	N/A	
Threatened/Endangered species having		
Designated Critical Habitat within the Facility	None	
Buffer		
Threatened/Endangered species historically	Tricolored blackbird (Agelaius tricolor)	(, CE)
known to occur within 1.0 mile of the Facility	Coastal California gnatcatcher (Poliopti	
Buffer	Least Bell's vireo (Vireo bellii pusillus) (
Other non-listed special status species		
historically known to occur within the Facility	None	
Buffer		
Other non-listed special status species		
historically known to occur within 1.0 mile of	None	
the Facility Buffer	Tions	
the radiity Ballot		
Are species surveys recommended?	Y N N If Yes, for	
The openies salve je resolutionada.	' what species?	

PART III. ADDITIONAL NOTES/COMMENTS

Channel is a small roadside ditch that supported flowing water at the time of the survey. Channel bottom is unvegetated with iceplant and ornamental trees on banks and directly adjacent to channel. Shelving and clear break in slope observed. A OHWM data sheet was completed for this site to be used as a representative transect for earthen roadside ditches.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).

Representative Photograph 1. vegetation

Representative Photograph 1. Facing N. Channel with non-native vegetation

E-57 - Bienvenido and Vista

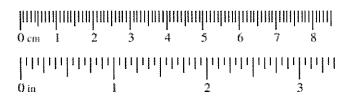


Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: City of Escandido Project Number:	Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Stream:	Photo begin file#: Photo end file#:
Investigator(s): / Cervantes	
Y 📈 / N 🗌 Do normal circumstances exist on the site?	Location Details: E-57
Y / N / Is the site significantly disturbed?	Projection: Datum: Coordinates: Sec Fourt
Potential anthropogenic influences on the channel sys	tem: formulater flows directed into
Highly Organized area	Company of the Section of the Sectio
Brief site description:	eng road. Area surrounded
by housing development o	ing road. Area surrounded not dominated by rennatives.
Checklist of resources (if available):	
Aerial photography	-
Dates: Gage num	
Topographic maps Period of the state of the	42 p. 4
	ry of recent effective discharges ts of flood frequency analysis
	recent shift-adjusted rating
	heights for 2-, 5-, 10-, and 25-year events and the
	recent event exceeding a 5-year event
Global positioning system (GPS)	,
Other studies	
Hydrogeomorphic	Floodplain Units
, Active Floodplain	
Low-Flow Channels	OHWM Paleo Channel
Procedure for identifying and characterizing the floo	in the second of the second
1 - Walk the channel and floodplain within the study area	to get an impression of the geomorphology and
vegetation present at the site.	
2 _ Select a representative cross section across the channel	. Draw the cross section and label the floodplain units.
3 - Determine a point on the cross section that is characte	
a) Record the floodplain unit and GPS position.	
b) Describe the sediment texture (using the Wentwort	h class size) and the vegetation characteristics of the
floodplain unit.	
c) Identify any indicators present at the location.	
4. Repeat for other points in different hydrogeomorphic	
5. Identify the OHWM and record the indicators. Record	
Mapping on aerial photograph	☑ GPS
Digitized on computer	Other:

Wentworth Size Classes

		***	HILL	TU	I UII (SIZ)		1113303	
Inche	s (in)	and the same of th		Mill	imeters (m	m)	Wentworth size cla	SS
• • • • • • • • • • • • • • • • • • • •	10.08	-	******		256		Boulder	
	2.56			-	64	*********	Cobble	Gravel
	0.157			AL PO	4		Pebble Granule	ψ,
***************************************	0.079 -		***************************************	*****	2.00	***************************************	Very coarse sand	
	0.039	200-	S10110+	ow.	1.00	WMIDDE	Coarse sand	
	0.020			***	0 50		Medium sand	Sand
1/2	0,0098			****	0.25	bearare	Fine sand	ທຶ
1/4	0.005		******	ww	0.125	***************************************	Very fine sand	
1/8 —	0.0025			Miller and Control of the Control of	0.0625		Coarse silt	
1/16	0.0012	momen	******		0.031	******	Medium silt	
1/32	0.00061	0.844-	******	***	0.0156	******	Fine silt	Ġ
1/64	0.00031			***	0.0078	34440	Very fine silt	
1/128 —	0.00015				0.0039	********		
							Clay	Mad



Project ID: Cross section ID:	-5 Date: $2/8/19$	Time:
Cross section drawing:		医胆道型
		4 (J. 4873)
yw.	N	
\mathcal{O}	Hwm E	a alexida Alexida
4F	y	
<u>OHWM</u>		
GPS point:		n je aje a k
		:
Indicators: Change in average sediment texture	☐ Break in bank slope	
Change in vegetation species	Other:	
Change in vegetation cover	Other:	davidation medicin
Comments:	αίλοσο.	AA
Comments: Trapezoidal roadside de Clear change in	van atation 4 break in	r slope.
Olear change		
Floodplain unit:	Active Floodplain	Low Terrace
Trootpran unit.	Tion of the companies	
GPS point:		
Characteristics of the floodplain unit:	า เราะสาย สายใหม่หลังสายใหม่	eri (d. 1945), karangin ng Kaballaga. Paganangan pagangan pagan ng Kaballaga.
Average sediment texture: Medium Sand		
Total veg cover: 10 % Tree: 6 % Shr Community successional stage:	ub: <u>0</u> % Herb: <u>15</u> %	
NA	☐ Mid (herbaceous, shrubs, sa	plings)
Early (herbaceous & seedlings)	Late (herbaceous, shrubs, m	ature trees)
Indicators:		
Mudcracks	Soil development	
Ripples	Surface relief	
☐ Drift and/or debris☐ Presence of bed and bank	Other: Other:	
Benches	Other:	
Comments:		
Comments: Flowing water in lo	u flow. Unvegetate	
ૺ ૽૽૽૽૽૽૱૽૽૽૽ૹ૽૽૽૽૱૱૱૽૽૱૱૱૱૱૱૱૱૱૱૱૱૱૱૱૱૱		

Project ID: Cross section ID:		
Floodplain unit: Low-Flow Channel	Active Floodplain Low Terr	ace
GPS point:		
or 5 points		
Characteristics of the floodplain unit:		
Average sediment texture: Coarse sand		
Total veg cover: 6 % Tree: 6 % S	hrub: <u>\O</u> % Herb: <u>(60</u> %	
Community successional stage:	NO ACT (bush a seed of the see	
NA Forly (borbascous & condlings)	Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)	
Early (herbaceous & seedlings)	Late (neroaceous, sinuos, mature trees)	
Indicators:		
Mudcracks	Soil development	
Ripples	Surface relief	
Drift and/or debris	Other:	
Rresence of bed and bank	Other:	
Benches	Other:	
Comments:	ated by iceplant, tumble wer	
Droingge Portterns. Vomin	ated by icepoint itumble wer	0
yield and the second		
or us promos st.		
	,	
Floodplain unit:	,	
Floodplain unit:		
GPS point:		
GPS point: Characteristics of the floodplain unit:	☐ Active Floodplain ☐ Low Ten	
Characteristics of the floodplain unit: Average sediment texture: Coalse 5000	☐ Active Floodplain ☐ Low Ten	
Characteristics of the floodplain unit: Average sediment texture: Coatse some Total veg cover: 5 % Tree: 5 %	☐ Active Floodplain ☐ Low Ten	
Characteristics of the floodplain unit: Average sediment texture: Coalse 5000	☐ Active Floodplain ☐ Low Ten	
Characteristics of the floodplain unit: Average sediment texture:	Active Floodplain Low Ten	
Characteristics of the floodplain unit: Average sediment texture: Coalse Sond Total veg cover: 6 % Tree: 6 % Community successional stage: NA Early (herbaceous & seedlings)	Active Floodplain Low Tender Shrub: \(\sum \) \(\sum \) \(\text{Herb: } \frac{50}{6} \) Mid (herbaceous, shrubs, saplings)	
Characteristics of the floodplain unit: Average sediment texture: Coase Some Total veg cover: 5 % Tree: 5 % Some Tree: 15 % Some Total veg cover: 15 % Tree: 15 % Some Tree:	Active Floodplain Low Tends Shrub: % Herb: % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)	
Characteristics of the floodplain unit: Average sediment texture: Coass 5000 Total veg cover: 5 % Tree: 5 % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks	Active Floodplain \(\sum \) Low Tends Shrub: \(\sum \) \(\sum \) Herb: \(\sum \) \(\sum \) Mid (herbaceous, shrubs, saplings) X Late (herbaceous, shrubs, mature trees) X Soil development	
Characteristics of the floodplain unit: Average sediment texture:	Active Floodplain Low Tends Shrub: \(\subseteq \) % Herb: \(\subseteq \) % Mid (herbaceous, shrubs, saplings) X Late (herbaceous, shrubs, mature trees) X Soil development Surface relief	
Characteristics of the floodplain unit: Average sediment texture: Coalse 5000 Total veg cover: 6 % Tree: 6 % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris	Active Floodplain Low Ten Shrub: % Herb: % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other:	
Characteristics of the floodplain unit: Average sediment texture: Coasse 5000 Total veg cover: 5 % Tree: 5 % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank	Active Floodplain Low Tends Shrub:	
Characteristics of the floodplain unit: Average sediment texture: Coasse 5000 Total veg cover: 5 % Tree: 5 % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Active Floodplain	race
Characteristics of the floodplain unit: Average sediment texture: Coasse 5000 Total veg cover: 5 % Tree: 5 % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Active Floodplain	race
Characteristics of the floodplain unit: Average sediment texture: Coasse 5000 Total veg cover: 5 % Tree: 5 % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Active Floodplain	race
Characteristics of the floodplain unit: Average sediment texture: Coasse 5000 Total veg cover: 5 % Tree: 5 % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Active Floodplain	race
Characteristics of the floodplain unit: Average sediment texture: Coasse 5000 Total veg cover: 5 % Tree: 5 % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Active Floodplain Low Tends Shrub:	race
Characteristics of the floodplain unit: Average sediment texture: Coasse 5000 Total veg cover: 5 % Tree: 5 % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Active Floodplain	race

PART I. MAINTENANCE FACILITY INFORMATION												
Facility Name	Reidy Cree	k Golf	Course		Fa	cility ID	E-58					
Location	North Broad	dway a	and Merion Gle	n								
Latitude ¹	33.166997	7	Longitude ¹	-117.090040	Ma	aintenance	Frequenc	у (ує	ears)	Annual	ly	
Maintenance Fa	acility Type		Channel		Lir	ning Type	Earthen					
Proposed Maint Activities	ed with handtoo ment to be with pilot channel as so routes as sho nent and debris nent and debris	nin channel to clear area to allow access own on figures will b	for pilo for eq be trimi	ot channel. uipment med using	Native veo	getat to a	tion will be	e trimmed using l	handtools I to remove			
Will work occur	when wate	r is in	the channel?	Y 🗆 N	\boxtimes	If Ye	s, will dev	vate	ring or wa	ter Y 🔲 N	7 🛛	
				PART II. SURV	EY INF				u:			
Surveyors	Lanika Cer\	/antes	and William Ko				Date of	f Sui	rvey	2/18/2019)	
Was water in th survey?	e channel a	at the t	ime of the	Y 🛭 N		Hydrolog		Р		⊠ E □	o 🗆	
Nearest Named	d Waterbody	y Re	eidy Creek			NWI Inde	Freshwa	ater	Emergent	t Wetland		
NRCS Soils Vi	salia sandy	loam,	0 to 2 percent	slopes and Ramona	a sand	y loam, 2 to	o 5 percen	t slo	pes			
Section II.a. St	ummary of	USAC	CE/RWQCB/CD	FW Waters of the	U.S. aı	nd State V	Vithin the	Maii	ntenance	Facility		
USACE 404/RV	VQCB 401	Jurisdi	ction	Y 🛭 N 🗆	USA	ACE 404 R	egulated A	ctivi	ty	Y 🛭 N		
USACE Nonwe Waters Present		ΥD	3 N □	USACE Wetland Waters Present						Y 🛭 N		
Associated Data	asheet(s)		Wetland San	nple Points 1.1 and	1.2; O	HWM Data	Sheet					
Summary of	Type of .	Jurisdic	tional Water	Hal	Habitat Description. ³					elineated within ance Footprint ⁴	Impact Tier⁵	
Aquatic Habitat				V/E						0.166	1	
(Waters of the U.S. and State)	Nonwe	tland \	Vaters		U/C TOTAL					0.003	IV	
										0.169		
	ummary of	CDFV	V Waters of the	e State Only Within	n the N	Maintenand	ce Facility					
CDFW 1600 Jurisdiction Bey USACE Waters		`	/ 🛛 N 🗌	CDFW Regula	CDFW Regulated Activity				Υ	N 🗆		
Summary of		Jurisdic	tional Water	На	bitat Des	scription. ³				Delineated within nance Footprint ⁴	Impact Tier ⁵	
Aquatic Habitat (Waters of the	Kipana		ent		V/E					0.166	1	
State Only)	Stream	bed			U/	C	то	TAL		0.003 0.169	IV	
Section II.c. S	ummary of	Vege	tation Commu	nities and Cover T	vpes V	Vithin and			he Mainte			
Vegetation C	-			Acres within Stud								
Cover Types			Maintenand Footprint		100-Foot Buffer Total				Dominant/Significant Species			
Riparian and W												
Coastal and V Marsh	alley Fresh	water	-	0.027		0.027	Typha	don	ningensis			
Emergent We			-	0.118		0.118	Juncu					
Mulefat Scrub			1	0.074		0.074	Racch	aric	salicifolia			

City of Escondido Channel Maintenance RGP – Facility Summary E-58 - Reidy Creek Golf Course So. Cottonwood-willow Riparian 2.345 0.166 2.510 Salix lasiolepis and Populus fremontii Forest Southern Arroyo Willow Riparian 0.218 0.218 Salix lasiolepis **Forest** Southern Riparian Scrub 0.300 0.300 Subtotal Riparian and Wetland 3.082 3.244 0.166 Upland 0.022 0.022 Non-Native Grassland Subtotal Upland 0.022 0.022 Other Land Cover Types 0.003 2.241 2.244 **Urban/ Developed** Subtotal Other Land Cover Type 0.003 2.241 2.244 GRAND TOTAL⁶ 0.169 5.341 5.510 Section II.d. Threatened/Endangered/Special Status Species Within the Vicinity of the Maintenance Facility Special status species observed during 2019 None field surveys within the Facility Buffer Threatened/Endangered species historically N/A known to occur within the Facility Buffer Threatened/Endangered species having Designated Critical Habitat within the Facility None Buffer Threatened/Endangered species historically Coastal California gnatcatcher (Polioptila californica califorica) (FT, SSC) known to occur within 1.0 mile of the Facility Least Bell's vireo (Vireo bellii pusillus) (FE, SE) Other non-listed special status species historically known to occur within the Facility None Buffer Other non-listed special status species Summer holly (Comarostaphylis diversifolia ssp. diversifolia) (CRPR 1B.2) historically known to occur within 1.0 mile of Southern rufous-crowned sparrow (Aimophila ruficeps canescens) (WL) the Facility Buffer If Yes, for what \boxtimes Υ Ν Are species surveys recommended? Least Bell's vireo and San Diego Ambrosia species? Will work occur in the breeding season (Feb-August)? \boxtimes Ν **PART III. ADDITIONAL NOTES/COMMENTS** Channel is within a golf course, therefore receives additional hydrology from the irrigation of the surrounding course. Low flow channel supports flowing water with steep banks on either side of the channel on the upstream end. All wetlands occur within the OHWM, A small wetland basin is located west of this channel. It is outside of the maintenance footprint, however mapped within the buffer area.

E-58 -2

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- **4.** Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).





Representative Photograph 1. Facing NW. Large box culvert outlet at upstream portion of channel.



Representative Photograph 2. Facing N. Smaller outfall entering the maintenance area. This area is also proposed to be cleaned out. A 15-long concrete apron is present.



Representative Photograph 3. Facing S. Looking downstream at channel. Low flow channel near center with wetland riparian habitat on either side.



Representative Photograph 4. Facing N. Looking upstream of channel.



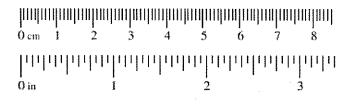
Representative Photograph 5. Facing NE. Wetland basin that is located west of the channel.

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: City of Exandido KGP Project Number: Stream: Reidy Creek	Date: 2/18/19 Time: 8:30 am Town: Escardido State: CA Photo begin file#: Photo end file#:									
Investigator(s): L. Cervantes										
Y / N Do normal circumstances exist on the site?	Location Details: E-58									
Y / N Is the site significantly disturbed?	Projection: Datum: Coordinates: See Frankl									
Potential anthropogenic influences on the channel system: E-58 is boated in a golf course, therefore human usage										
and irrigation affects	this site									
Brief site description: Cottonwood-willow 1	Forest. Low flow has flowing water.									
Confined drainage du	ue to golf course.									
Vegetation maps Soils maps Result Most Rainfall/precipitation maps Gage	ber:									
Hydrogeomorphic	Floodplain Units									
Active Floodplain Low-Flow Channels	OHWM Paleo Channel									
Procedure for identifying and characterizing the floo										
 Walk the channel and floodplain within the study area vegetation present at the site. Select a representative cross section across the channel Determine a point on the cross section that is character a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentwort floodplain unit. c) Identify any indicators present at the location. Repeat for other points in different hydrogeomorphic. Identify the OHWM and record the indicators. Record Mapping on aerial photograph Digitized on computer 	Draw the cross section and label the floodplain units. eristic of one of the hydrogeomorphic floodplain units. h class size) and the vegetation characteristics of the floodplain units across the cross section.									

Wentworth Size Classes

Wentworth Size Classes											
Inche	s (in)			Mili	imeters (m	m)		Wentworth size class			
	10.03	-	*****		256			Boulder	•—-		
	2.56			-	64		4	Cobble	Gravel		
	0.157			****	4	ribbeles	-	Pebble	O		
	0.079 -		·	~~~	2.00		-	Granule			
	0.039		iminir	_	1.00	******	****	Very coarse sand			
NA COMPANY	0.020	dennesis:	descripti	***	0.50	-05-6-07-	-	Coarse sand	ğ		
1/2	0.0098			_	0.25	47,000,00	4	Medium sand	Sand		
1/4	0.005		*******	ىيت	0.125	manoum		Fine sand			
1/8	0.0025 -	200	**********		0.0625	***************************************		Very fine sand Coarse silt			
1/16	0.0012	***************************************	NHHAZO	***	0.031	_	-	Medium siit			
1/32	0.00061	*******	ndiverse	مند	0.0156	*****	-	Fine silt	Š		
1/64	0.00031		_	pana.	0.0078	ACTIONS	-	Very fine silt			
1/128 —	0.00015-		·*************************************	*********	0,0039		\dashv				
								Clay	Mud		



Project ID:	Cross section ID:	38 Date: $4/18/1$	Time:
<u>Cross section drawing</u> :		·	
E Terror	e Johnson /F	offwar. Terrac.	€
OHWM			
GPS point:			
Indicators: Change in average Change in vegetat Change in vegetat	on species ion cover	Break in bank slope Other: Other:	nusimulusionotationistasso
Comments: within outside	oftwm = Catt oftwm = mule Immedial system.	ails, willows, cotton fat, coyote brush, re slope out of other	ward, + wild grape. is acoma in, confined
Floodplain unit:	Low-Flow Channel	Active Floodplain	Low Terrace
GPS point:	Low-Flow Chamber	Active Produptant	Low remace
Characteristics of the flood Average sediment texture: Total veg cover: 60 % Community successional s NA Early (herbaceous	Tree: 6 % Shrul tage:	o: Mid (herbaceous, shrubs Late (herbaceous, shrubs	
Indicators: Mudcracks Ripples Drift and/or debri Presence of bed a Benches Comments:	nd bank	Soil development Surface relief Other: Other: Other: Acattails and stager of which deposition. Drains	standing water. ge patterns

Characteristics of the floodplain unit: Average sediment texture:	Project ID: Cross section ID:	රාහි Date: 2/18/	Time:	
Characteristics of the floodplain unit: Average sediment texture:	Floodplain unit:	Active Floodplain	Low Terrace	
Characteristics of the floodplain unit: Average sediment texture:	GPS point:			
Average sediment texture:	Point	.vv		
Community successional stage: NA	Characteristics of the floodplain unit:			
Community successional stage: NA	Total veg cover: % % Tree: 30 % Shru	b: 🗸 % Herb: (a) %		
Early (herbaceous & seedlings)		Editorial Conservation (Conservation Conservation Conserv		
Indicators: Mudcracks	Transmitted and the second and the s	Account .	·	
Mudcracks Soil development Surface relief	Early (nerbaceous & seedings)	Late (neroaceous, snruos	, mature trees)	. :
Ripples	<u> </u>			. 1
Drift and/or debris Other: Other: Other: Other: Other: Other:				
Presence of bed and bank				A 1
Other: Other: Other: Comments: Active Flood plain Supports mature trees 4 cattails. Debris and sediment deposition throughout Debris of the floodplain unit: Debris and sediment texture: Debris and sediment Debris and sed	Presence of bed and bank	Other:	kalistiniselventamiskisterinis rimeironaironamis	
Floodplain unit:		Other:		
Floodplain unit:	Comments: Shad plain Suppor	ts mature trees	+ cartais.	
Floodplain unit:	ACTIVE TEACHER TO	ant deposition all	walahati	t va f
Characteristics of the floodplain unit: Average sediment texture:	DEDUZ MEN JEG	*	6 .7	
Characteristics of the floodplain unit: Average sediment texture:				
Characteristics of the floodplain unit: Average sediment texture:				
Characteristics of the floodplain unit: Average sediment texture:				
Characteristics of the floodplain unit: Average sediment texture:	Floodplain unit: Low-Flow Channel	Active Floodplain	Low Terrace	
Characteristics of the floodplain unit: Average sediment texture:	GPS point:			is Sense mala ¹ d
Total veg cover: 50 % Tree: 6 % Shrub: 50 % Herb: 6 % Community successional stage: NA	OI 5 point.		:	
Total veg cover: 50 % Tree: 6 % Shrub: 50 % Herb: 6 % Community successional stage: NA	Characteristics of the floodplain unit:		#:	
Community successional stage: NA Mid (herbaceous, shrubs, saplings) Early (herbaceous & seedlings) Late (herbaceous, shrubs, mature trees) Indicators: Mudcracks Soil development Surface relief Drift and/or debris Drift and/or debris Presence of bed and bank Other: Other:	Total veg cover: 50 % Tree: 6% Shri	ub: 50 % Herb: 0 %	***	
□ Early (herbaceous & seedlings) □ Late (herbaceous, shrubs, mature trees) Indicators: □ Soil development □ Ripples □ Surface relief □ Drift and/or debris □ Other: □ Presence of bed and bank □ Other:		A LANGE OF THE PARTY OF THE PAR	**************************************	
Indicators: Mudcracks Soil development Surface relief Drift and/or debris Presence of bed and bank Other:	2000			
☐ Mudcracks ☐ Soil development ☐ Ripples ☐ Surface relief ☐ Drift and/or debris ☐ Other: ☐ Presence of bed and bank ☐ Other:	Early (herbaceous & seedlings)	Late (herbaceous, shrubs	s, mature trees)	Á
Ripples Surface relief Drift and/or debris Other: Presence of bed and bank Other:	Indicators:		44	
Drift and/or debris Presence of bed and bank Other: Other:	- annual and a second a second and a second			
Presence of bed and bank Other:	<u></u> • •			
Benches Other:		Other:		
	Benches	Other:		A 104
Comments: Other: Other: Overidence of flow. Area is 15ft higher in elevation From other limits. Steel slopes	Comments:	by. Area is 154	- higher in el	en in
10 evicence of the sails. Steel slates	10 excence of 1	1: mits. Steel slow	ES	
XIOU OLIMIN MALLO.	XIAM OHUM	Medil and a	ā.	
한 사람들은 사람들이 되었다. 그는 사람들은 사람들이 되었다면 하는 사람들이 얼마나 얼마나 없었다.				

Project/Site: City of Escondido Channel Maintenance R	RGP	City/Coun	ty:Escondid	o/San Diego	Samp	ling Date: 2/1	8/2019
Applicant/Owner:City of Escondido				State:CA	Samp	ling Point:E-5	58 WSP 1.1
Investigator(s):Lanika Cervantes; William Kohn		Section, T	ownship, Ra	nge:			
Landform (hillslope, terrace, etc.): drainage		Local reli	ef (concave,	convex, none):conca	ive	Slope	e (%):2
Subregion (LRR):C - Mediterranean California	Lat:33.1	166846		Long:-117.089945	5	 Datum	:
Soil Map Unit Name: Ramona sandy loam, 2 to 5 percent	slopes			NWI clas	ssification:F	 Treshwater E	Emergent We
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes (• No ((If no, explain	in Remarks	s.)	
		disturbed'		'Normal Circumstance			No 🔘
		oblematic?		eeded, explain any an	swers in Re	emarks.)	
SUMMARY OF FINDINGS - Attach site map sl				. ,		,	ures, etc.
Hydrophytic Vegetation Present? Yes No							
		Ist	the Sampled	l Area			
Wetland Hydrology Present? Yes No			thin a Wetlar		N	o ()	
Remarks:Sample point taken within OHWM.							
VEGETATION							
	Absolute		t Indicator	Dominance Test v	vorksheet:		
Tree Stratum (Use scientific names.) 1.Populus fremontii	% Cover 25	Species? Yes	FAC	Number of Domina That Are OBL, FAC		: 4	(A)
2.Salix laseolepis	20	Yes	FACW	That Ale OBL, FAC	ov, or FAC	. 4	(A)
3.	20	103		Total Number of Do		4	(P)
4.				Species Across All	Strata.	4	(B)
Total Cover:	45 %			 Percent of Dominal That Are OBL, FAC 		100.0) % (A/B)
Sapling/Shrub Stratum	10 70			That Ale OBE, I Ac	7W, 01 1 AO	. 100.0)% (A/b)
1				Prevalence Index			
2				Total % Cover		Multiply I	
3.				OBL species		x 1 =	50
4			-	FACW species		x 2 =	40 120
5 Total Cover:	0/			FAC species FACU species	.0	x 3 = x 4 =	0
Herb Stratum	%			UPL species		x 5 =	0
1.Typha domingensis	50	Yes	OBL	Column Totals:	110	(A)	210 (B)
2.				Column Totals.	110	(^)	210 (5)
3.				Prevalence Ir			1.91
4.				Hydrophytic Vege		cators:	
5.				X Dominance Te			
6				× Prevalence Inc		1.00	
7				Morphological data in Ren		s* (Provide si a separate sl	
8			-	Problematic H		•	*
Total Cover: Woody Vine Stratum	50 %						
1.Rubus ursinus	15	Yes	FAC	¹ Indicators of hydri	ic soil and	wetland hydr	ology must
2.				be present.			
Total Cover:	15 %			Hydrophytic			
% Bare Ground in Herb Stratum 50 % % Cover of	of Biotic C	`rust	%	Vegetation Present?	Yes •	No 🔘	
Remarks:	J. D.O.IO C		/0	. resent:	163 (5)	140 (
Tromano.							
							ļ

SOIL Sampling Point: E-58 WSI

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture 0-10 10-YR 4/2 90 5 YR 4/3 10 C M Loamy/Clay soils very w						
	Remarks					
0-10 10-YR 4/2 90 5 YR 4/3 10 C M Loamy/Clay soils very v						
	vet.					
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Li	ning M-Matrix					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soil (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C						
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR	,					
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18)	_,					
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF	-2)					
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remains)	rks)					
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)						
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Dark Surface (F8) Peday Parassiana (F8)	natation and					
	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,					
Sandy Midcky Milleral (S1) Sandy Gleyed Matrix (S4) wetland hydrology must be wetland hydrology must be unless disturbed or problem	-					
Restrictive Layer (if present):						
Type:						
Depth (inches): Hydric Soil Present? Yes	No ○					
Remarks: Water encountered at 10 inches.	0 1100					
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (any one indicator is sufficient) Secondary Indicators (2	2 or more required)					
Surface Water (A1) Salt Crust (B11) Water Marks (B1)	(Riverine)					
High Water Table (A2) Biotic Crust (B12) Sediment Deposits	(B2) (Riverine)					
Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3)	(Riverine)					
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns	(B10)					
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water	T 11 (OO)					
	Table (C2)					
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (Surface Soil Cracks (B6) Thin Muck Surface (C7) Saturation Visible of						
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (Surface Soil Cracks (B6) Thin Muck Surface (C7) Saturation Visible of Shallow Aquitard (I	C8) on Aerial Imagery (C9) D3)					
Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Recent Iron Reduction in Plowed Soils (C6) Other (Explain in Remarks) FAC-Neutral Test (19)	C8) on Aerial Imagery (C9) D3)					
Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Recent Iron Reduction in Plowed Soils (C6) Shallow Aquitard (I Shallow Aquitard (I Shallow States) Field Observations:	C8) on Aerial Imagery (C9) D3)					
□ Drift Deposits (B3) (Nonriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (□ Surface Soil Cracks (B6) □ Thin Muck Surface (C7) □ Saturation Visible of Inundation Visible on Aerial Imagery (B7) □ Recent Iron Reduction in Plowed Soils (C6) □ Shallow Aquitard (I □ Water-Stained Leaves (B9) □ Other (Explain in Remarks) □ FAC-Neutral Test (I □ Start Test	C8) on Aerial Imagery (C9) D3)					
Drift Deposits (B3) (Nonriverine)	C8) on Aerial Imagery (C9) D3)					
Drift Deposits (B3) (Nonriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (C4) □ Surface Soil Cracks (B6) □ Thin Muck Surface (C7) □ Saturation Visible of Inundation Visible on Aerial Imagery (B7) □ Recent Iron Reduction in Plowed Soils (C6) □ Shallow Aquitard (I0 □ Water-Stained Leaves (B9) □ Other (Explain in Remarks) □ FAC-Neutral Test (Inches Water Present?	C8) on Aerial Imagery (C9) D3) (D5)					
Drift Deposits (B3) (Nonriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (Cay Surface Soil Cracks (B6) □ Thin Muck Surface (C7) □ Saturation Visible of Depth (Inches): □ Inundation Visible on Aerial Imagery (B7) □ Recent Iron Reduction in Plowed Soils (C6) □ Shallow Aquitard (Inches): □ Vater-Stained Leaves (B9) □ Other (Explain in Remarks) □ FAC-Neutral Test (Cay Inches): □ Vater Table Present? □ Yes ○ No ○ Depth (Inches): □ Inches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Vest Onches Saturation Present? □ Yes ○ No ○ Depth (Inches): □ Yes ○ No ○ D	C8) on Aerial Imagery (C9) D3) (D5)					
Drift Deposits (B3) (Nonriverine)	C8) on Aerial Imagery (C9) D3) (D5)					
Drift Deposits (B3) (Nonriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (Cay Surface Soil Cracks (B6) □ Thin Muck Surface (C7) □ Saturation Visible of Saturation Visible of Saturation Visible of Shallow Aquitard (In Water-Stained Leaves (B9) □ Other (Explain in Remarks) □ FAC-Neutral Test (Stellar Table Present?	C8) on Aerial Imagery (C9) D3) (D5)					
Drift Deposits (B3) (Nonriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (Cay Surface Soil Cracks (B6) □ Thin Muck Surface (C7) □ Saturation Visible of Saturation Visible of Saturation Visible of Shallow Aquitard (In Water-Stained Leaves (B9) □ Other (Explain in Remarks) □ FAC-Neutral Test (Stellar Table Present?	C8) on Aerial Imagery (C9) D3) (D5)					
Drift Deposits (B3) (Nonriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (Cay Surface Soil Cracks (B6) □ Thin Muck Surface (C7) □ Saturation Visible of Saturation Visible of Saturation Visible of Shallow Aquitard (In Water-Stained Leaves (B9) □ Other (Explain in Remarks) □ FAC-Neutral Test (Stellar Table Present?	C8) on Aerial Imagery (C9) D3) (D5)					

Project/Site: City of Escondido Channel Maintenance R	RGP	City/Count	y:Escondid	o/San Diego	Sam	pling Date: 2/	18/2019		
Applicant/Owner: City of Escondido				State:CA	Sam	Sampling Point:E-58 WSP 1.2			
Investigator(s):Lanika Cervantes; William Kohn		Section, T	ownship, Ra	nge:					
Landform (hillslope, terrace, etc.): Slope		Local relie	ef (concave,	convex, none):conv	ex	Slop	e (%):30		
Subregion (LRR):C - Mediterranean California	166864		Long:-117.08989)2	 Datum	n:			
Soil Map Unit Name: Visalia sandy loam, 0 to 2 percent	slopes			NWI cla	assification:	Freshwater	Forested/Shr		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No ((If no, explain	n in Remarl	ks.)			
		disturbed?		"Normal Circumstan			No (
		oblematic?		eeded, explain any a					
SUMMARY OF FINDINGS - Attach site map si			,	. ,		,	tures, etc.		
Hydrophytic Vegetation Present? Yes No				· · · · · · · · · · · · · · · · · · ·			·		
	•	ls t	he Sampled	l Area					
Wetland Hydrology Present? Yes No	•		hin a Wetlaı		\circ	No 💿			
Remarks:Sample point taken on hillslope outside of C	DHWM.	<u> </u>							
VEGETATION									
	Absolute % Cover	Dominant Species?	Indicator	Dominance Test					
1.Populus fremontii	10	Yes	FAC	Number of Domin That Are OBL, FA			(A)		
2.Salix laseolepis	10	Yes	FACW	-		0. 3	(71)		
3.				 Total Number of E Species Across A 		5	(B)		
4.				-			(D)		
Total Cover:	20 %			 Percent of Domina That Are OBL, FA) % (A/B)		
Sapling/Shrub Stratum							70 (702)		
1.Baccharis sarathoides	25	Yes	FACU	Prevalence Index					
2.Baccharis salicifolia	10	Yes	FAC	Total % Cove	r of:	Multiply	0		
3				OBL species FACW species	10	x 1 = x 2 =	20		
4				FAC species	20	x 2 = x 3 =	60		
5 Total Cover:	35 %			FACU species	35	x 4 =	140		
Herb Stratum	33 %			UPL species	33	x 5 =	0		
1.Cortaderia selloana	10	Yes	FACU	Column Totals:	65	(A)	220 (B)		
2.						` '	. ,		
3.				Prevalence			3.38		
4.				Hydrophytic Veg					
5				X Dominance T					
6				Prevalence Ir					
7				Morphologica data in Re		ns" (Provide s n a separate s			
8.				Problematic F		•	,		
Total Cover: Woody Vine Stratum	10 %								
1				¹ Indicators of hyd	ric soil and	d wetland hyd	rology must		
2.				be present.					
Total Cover:	%			Hydrophytic					
% Bare Ground in Herb Stratum 80 % % Cover	of Biotic (Crust	%	Vegetation Present?	Yes	No 🔘			
Remarks: Hillslope supports a mixture of wetland an				1 TOGGITE:	. 63 (110			
Timstope supports a mixture of wettand an	ia nonwe	manu veg	CiatiOII.						

SOIL Sampling Point: <u>E-58 WSl</u>

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix	0/		x Features	mo1 1	202	Touture	Domortis	
(inches)	Color (moist)		Color (moist)	<u>% Ty</u>	rpe ¹ L	.OC ²	<u>Texture</u>	Remarks	
0-14	10-YR 3/3	<u>N</u>	J/A				Loamy/Clay	moist soils but no redox.	
¹ Type: C=C	Concentration, D=Dep	etion, RM=	Reduced Matrix, C	S=Covered or 0	Coated S	and Gra	ains. ² Locat	ion: PL=Pore Lining, M=Matrix.	
Histoso Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy I Sandy 0	pipedon (A2) listic (A3) en Sulfide (A4) ed Layers (A5) (LRR Couck (A9) (LRR D) ed Below Dark Surface eark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):	;)	Sandy Redo Stripped M Loamy Mu Loamy Gle Depleted N Redox Dar	ox (S5) latrix (S6) cky Mineral (F1) lyed Matrix (F2) Matrix (F3) k Surface (F6) Dark Surface (F8) pressions (F8)			1 cm Mu 2 cm Mu Reduced Red Par Other (E	r Problematic Hydric Soils: ick (A9) (LRR C) ick (A10) (LRR B) d Vertic (F18) ent Material (TF2) explain in Remarks) If hydrophytic vegetation and drology must be present, urbed or problematic.	
1 1	oches): No redox observed.						Hydric Soil P	resent? Yes No •	
HYDROLC									
1	drology Indicators:						_		
	icators (any one indicators (Ad)	ator is suffic		+ /D44\				ary Indicators (2 or more required) ter Marks (B1) (Riverine)	
	e Water (A1) ater Table (A2)		Salt Crus Biotic Cru	,				, , ,	
	ion (A3)		=	nvertebrates (B1	13)			diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)	
1 ==	Marks (B1) (Nonriveri	ne)	= '	Sulfide Odor (0				ninage Patterns (B10)	
1 🖳	ent Deposits (B2) (Nor	,	= ' '	Rhizospheres a		ng Root	🗀	y-Season Water Table (C2)	
Drift De	posits (B3) (Nonriver	ine)	_	of Reduced Iro			· · · · · ·	ayfish Burrows (C8)	
Surface	e Soil Cracks (B6)		Thin Muc	k Surface (C7)			Sat	turation Visible on Aerial Imagery (C9)	
Inundat	ion Visible on Aerial I	magery (B7) Recent Ir	on Reduction in	Plowed	Soils (C	C6) Sha	allow Aquitard (D3)	
	Stained Leaves (B9)		Other (Ex	plain in Remark	ks)		FA	C-Neutral Test (D5)	
Field Obser		6							
			lo Depth (in	· —					
Water Table			lo Depth (in						
	Present? γ pillary fringe) ecorded Data (stream		Depth (in nitoring well, aerial		us inspec			Present? Yes O No •	
	(======================================	5 5 /	<u> </u>	. //	,	,, -			
Remarks:No	o hydrology indicat	ors observ	ed. Sample Poir	nt approximate	ely 6 fee	t high	er in elevation	from 1.1	
	Remarks:No hydrology indicators observed. Sample Point approximately 6 feet higher in elevation from 1.1								
US Army Corp	os of Engineers								

PART I. MAINTENANCE FACILITY INFORMATION																			
Facility Name	E. Side Cen	entre City Pkwy and 13 th Facility ID E-59																	
Location																			
Latitude ¹	33.107853	L	Longitude ¹ -117.078549 Maintenance Frequency (y							(yea	ırs)			Ar	nnuall	у			
Maintenance Fa	acility Type	(Channel Lining Type Earthen																
Remove accumulated sediment and weed removal																			
Proposed Maintenance Activities Equipment will be staged on the street and backhoe or excavator will be used to scoop sediment out of channel for clean excavation. No dragging of equipment along banks and no equipment in channel.										of									
Will work occur when water is in the channel? Y N If Yes, will deway water diversion by									?	Υ	\triangleright	N]					
				P	ART II.	SURV	ΕY	INF	ORMATIC	DN									
Surveyors	Lanika Cerv	antes a	and William K	ohn						D	ate of S	Surv	ey		2	2/26/	/2019		
Was water in th survey?	ie channel a	t the tir	me of the		Υ] N	\geq		Hydrolog	ју Тур	e ²	Р		[E		0	
Nearest Named	d Waterbody	Esco	ondido Creek						NWI Inde	ex No	t Class	sifie	d						
NRCS Soils	acentia san	dy loar	n, 2 to 9 perce	ent slo	pes					•									
Section II.a. Se	ummary of	USACI	E/RWQCB/CI)FW	Naters	of the	U.S	S. an	d State V	Vithin	the M	aint	enand	e Fac	cility	,			
Section II.a. Summary of USACE/RWQCB/CDFW Waters of the U.S. and State Within the M USACE 404/RWQCB 401 Jurisdiction Y N USACE 404 Regulated Act						tivity	′	Y N M Only Temporary diversion structures are regulated											
USACE Nonwe Waters Present		Υ 🛚	USACE Wetland Waters Present USACE Y N					nt(s)	Y	Y 🗆 N 🖾									
Associated Dat	asheet(s)																		
Summary of Aquatic Habitat		urisdicti	ional Water			Hab	itat	t Description. ³					Acres Delineated within Maintenance Footprint ⁴					lmį	pact Tier⁵
(Waters of the	Nonwet	land W	aters		U/E						0.022					П			
U.S. and State)							۸L		0.0)22									
Section II.b. S	ummary of	CDFW	Waters of th	e Sta	te Only	/ Withir	th	е Ма	aintenan	ce Fa	cility								
CDFW 1600 Jurisdiction Bey USACE Waters		Y	⊠ N □		CDFW	Regula						Y		N]			
Summary of								Acres Delineated within Maintenance Footprint ^{7,8} Impact				pact Tier ⁹							
Aquatic Habitat (Waters of the	Channe	l Bank			U/E						0.035					Ш			
State Only)											TOTA	۸L		0.	035				
Section II.c. S	ummary of	Vegeta	ation Commu	nities	and C	over T	γpe	es W	ithin and	l Adja	cent to	o th	e Mair	tena	nce	Fac	ility		
Venetation C				Acre	s withi	n Stud	у А	rea ⁶											
Vegetation Communities and Cover Types Maintenance Footprint 100-Foot Buffer Total							Do	omina	nt/Si	gnifi	ican	t Spe	cies						
Riparian and W Unvegetated			0.001		0.0	035	T		0.035										
Subtotal Ripa		tland	0.001			035			0.035										
Upland																			
Eucalyptus W	oodland		0.003		0.	147			0.150										
Subtotal Upla	oland 0.003 0.147 0.150																		

Other Land Cover Types				1					
Urban/Developed	0.003	2.039	2.039						
Subtotal Other Land Cover Types	0.003	2.039	2.042						
GRAND TOTAL ⁶	0.041	2.187	2.228						
Section II.d. Threatened/Endanger	ed/Special	Status Species W	ithin the Vicinity of	the Maintenance Facility ⁷					
Special status species observed dur		Nana	-	·					
field surveys within the Facility Buffe		None							
Threatened/Endangered species his known to occur within the Facility Bu	N/A								
Threatened/Endangered species have Designated Critical Habitat within the Buffer	None								
Threatened/Endangered species his known to occur within 1.0 mile of the Buffer	Tricolored blackbird (<i>Agelaius tricolor</i>) (, CE) Coastal California gnatcatcher (<i>Polioptila californica califorica</i>) (FT, SSC) Least Bell's vireo (<i>Vireo bellii pusillus</i>) (FE, SE) Swainson's hawk (<i>Buteo swainsoni</i>) (, ST) Western yellow-billed cuckoo (<i>Coccyzus americanus occidentalis</i>) (FT, SE) California black rail (<i>Laterallus jamaicensis coturniculus</i>) (, ST/FP)								
Other non-listed special status speci historically known to occur within the Buffer		None							
Other non-listed special status speci historically known to occur within 1.0 the Facility Buffer		Southern tarplant (<i>Centromadia parryi</i> ssp. <i>australis</i>) (CRPR 1B.1) Southern California legless izard (<i>Anniella stebbinsi</i>) (SSC) Orange-throated whiptail (<i>Aspodpscelis hyperythra</i>) (SSC) Coast horned lizard (<i>Phrynosoma blainvillii</i>) (SSC) Southern California rufous-crowned sparrow (<i>Aimophila ruficeps canescens</i>) (WL) Bell's sage sparrow (<i>Artemisiospiza belli belli</i>) (WL) Burrowing owl (<i>Athene cunicularia</i>) (SSC) White-faced ibis (<i>Plagadis chihi</i>) (WL) Pallid bat (<i>Antrozous pallidus</i>) (SSC) Dulzura pocket mouse (<i>Chaetodipus californicus femoralis</i>) (SSC) Townsend's big-eared bat (<i>Corynorhinus townsendii</i>) (SSC) Western yellow bat (<i>Lasiurus xanthinus</i>) (SSC) Pocketed free-tailed bat (<i>Nyctinomops femorosaccus</i>) (SSC) Big free-tailed bat (<i>Nyctinomops macrotis</i>) (SSC) American badger (<i>Taxidea taxus</i>) (SSC)							
Are species surveys recommended?		Y 🗆 N 🗵	If Yes, for what species?						
Will work occur in the breeding seas	on (Feb-Au	gust)?	mat opened.	Y N N					
č	•	,	NTC						
Channel is a roadside ditch that supports shelving and wrack throughout. Channel is mostly unvegetated with some patches of nonnative grasses including <i>Bromus diandrus</i> , <i>Erodium sp.</i> , <i>cynodon dactylon</i> , and <i>Lactuca serriola</i> . No water was present during the time of the survey.									
Footnotes: 1. Coordinates are based on the centroid of the facility. 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes. 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package. 6. Totals may not add up due to rounding. 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).									







Representative Photograph 2. Facing NW. Upstream outlet



Representative Photograph 3. Facing SE. Downstream inlet.

			PAR	T I. M	ITNIA	ENANC	E FA	CIL	ITY IN	FOR	RMA	ΓΙΟΝ										
Facility Name	Oak Valley	Lane						Facil	lity ID		E-60											
Location	Oak Valley	Lane																				
Latitude ¹	33.14264	5	Longitude ¹	-117.0)203	59		Mair	ntenan	ice F	requ	ency	(yea	ars)				A	nnu	ally		
Maintenance Fa	acility Type		Outlet					Linin	ід Тур	е	Earth	nen										
Proposed Maint Activities	enance	Trimm	nulated sedime ning of native to ime willow tree	rees/sh	rubs	as need	led v	vith h	nandto	ols.			ly do	owr	nstre	am o	of o	utlet	and	d blo	ockir	g
Will work occur	when wate	r is in t	he channel?		′ ⊵	_			di	ivers	ion b	dewa e ne			or w	ater	Υ		\boxtimes	N		
				P <i>A</i>	RT I	I. SURV	EΥΙ	INFO	RMAT	TION	1											
Surveyors			ntes and Willia	ım Koh	n						Da	te of	Sur	vey				2/26	6/20	19		
Was water in th survey?	e channel a	at the t	ime of the	Y	' [N	\boxtimes	ı	Hydrol	logy	Туре	²	P]	I [Ε		0		
Nearest Named	l Waterbody	y San	Dieguito Cree	k				ı	NWI Ir	ndex	Fres	shwa	ter F	on	d							
NRCS Soils	Escondi	do very	fine sandy loa	am, 15	to 30) percen	t slo	pes			•											
Section II.a. Su	ımmary of	USAC	E/RWQCB/CI	DFW W	aters	s of the	U.S.	. and	l State	e Wit	thin	the I	lain	ten	anc	e Fa	cilit	y				
USACE 404/RV	VQCB 401	Jurisdi	ction	Υ	\boxtimes	N 🗌	U	SAC	E 404	Reg	gulate	ed Ac	tivity	y			nly [·]			ary	⊠ dive gulat	rsion ed
USACE Nonwe Waters Present		Υ] N 🛚	USAC Water		etland esent	Y] N]	Data Tak	apoi en	nt(s	s)	١	1	\boxtimes		N		
Associated Data	asheet(s)		Wetland Sar	nple Po	oint 1	.1 and 1	.2															
Summary of Aquatic	Type of Ju	ırisdicti	onal Water			На	bitat	Descr	ription. ³	1						Delin enanc					Imp	act Tier⁵
Habitats (Waters of the	Wetlar	nd Wat	ers					V/E								0	.016	5				I
U.S. and State)												TOT	٩L			0.	.016	ô				
Section II.b. St	ımmary of	CDFV	V Waters of th	e State	e Onl	ly Withi	n the	e Ma	intena	ance	Fac	ility										
CDFW 1600 Jurisdiction Bey USACE Waters		Y	″ ⊠ N □	С	DFW	/ Regula	ted /	Activ	ity				١	′		N						
Summary of Aquatic	Type of Ju	urisdicti	onal Water			На	bitat	Desci	ription ³							Delin enanc					lmp	act Tier⁵
Habitats (Waters of the	Riparia	an Exte	ent					V/E								0	.01	6				I
State Only)											'	TOT	ΔL			0	.01	6				
Section II.c. St	ummary of	Veget	ation Commu	nities	and	Cover T	уре	s Wi	thin a	nd A	Adjac	ent	to th	ie l	/lain	tena	nce	e Fa	cilit	y		
Vegetation C	ommunitio	e and		Acres	with	in Stud	y Ar	ea ⁶														
	r Types	3 allu	Maintenan Footprin		0-Fc	oot Buff	er		Total				D	om	inaı	nt/Si	gni	ficaı	nt S	pec	ies	
Riparian and W	etland																					
Emergent We	tland		-		0	.196			0.196		Ju	ncus	acu	tus,	Dis	tichli	is s _l	oica	ta			
Southern Willo	ow Scrub		0.016		0	.143			0.159		Sa	lix la	siole	pis								
Cubtotal Dina	rian and We	etland	0.016		0	.340			0.355													

				2 00 Oun runey zun
Upland				
Diegan Coastal Sage Scrub	-	0.017	0.017	Eriogonum fasciculatum
Subtotal Upland	-	0.017	0.017	
Other Land Cover Types				
Urban/Developed	-	0.540	0.540	
Disturbed Habitat	-	0.040	0.040	
Subtotal Other Land Cover Types	-	0.579	0.579	
GRAND TOTAL ⁶	0.016	0.936	0.951	
On the man Hold Thomas to man different and		(-(O	him the Minimit	of the Maintenance Facility 7

Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of	the Maintenance Facility ⁷
Special status species observed during 2019 field surveys within the Facility Buffer	None	
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A	
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None	
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (<i>Agelaius tricolor</i>) (Coastal California gnatcatcher (<i>Poliopti</i> Least Bell's vireo (<i>Vireo bellii pusillus</i>) (ila californica califorica) (FT, SSC)
Other non-listed special status species historically known to occur within the Facility Buffer	None	
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Dulzura pocket mouse (Chaetodipus ca	alifornicus femoralis) (SSC)
Are species surveys recommended?	Y N If Yes, for what species?	Least Bell's vireo during breeding season and San Diego Ambrosia
Will work occur in the breeding season (Feb-Au	gust)?	Y 🛛 N 🗌

PART III. ADDITIONAL NOTES/COMMENTS

Channel starts at an outfall structure, flow indicators such as wrack, sediment deposition, and minor shelving observed. Area tends to sheetflow the area as a clear channel was not observed however the area supports wetland habitat. Within the buffer area there are old irrigation lines and dead Typha that seems to indicate that the downstream area was irrigated frequently in the past, however no current hydrology was observed within that area.

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- **4.** Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing N. Sample Point 1 within the wetland areas just downstream of the outfall structure.



Representative Photograph 2. Facing NW. Outlet in drainage channel.



Representative Photograph 3. Facing N. Willow scrub in drainage channel.



WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance F	RGP	City/Count	y:Escondido	o/San Diego	Sam	pling Date:2	/26/2019	9
Applicant/Owner: City of Escondido				State:CA	Sam	pling Point:	-60 WS	P 1.1
Investigator(s):Lanika Cervantes; William Kohn		Section, To	ownship, Rai	 nge:		_		
Landform (hillslope, terrace, etc.): Drainage		Local relie	ef (concave, o	convex, none):conc	ave	Slo	pe (%):0	
Subregion (LRR):C - Mediterranean California	Lat: 33.	142687		Long:-117.02034	6	Datu	m:	
Soil Map Unit Name: Escondido very fine sandy loam, 1	5 to 30 p	ercent slo	pes	NWI cla	assification	:Freshwater	Pond	
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes	No C	(If no, explain	ո in Remar	ks.)		
Are Vegetation Soil or Hydrology sign	gnificantly	disturbed?	Are "	Normal Circumstand	ces" prese	nt? Yes 💿	No (\circ
Are Vegetation Soil or Hydrology na	aturally pro	oblematic?	(If ne	eded, explain any a	nswers in l	Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	samplin	g point lo	cations, transe	ects, imp	ortant fea	atures,	etc.
Hydrophytic Vegetation Present? Yes (No								
Hydric Soil Present? Yes No		ls t	he Sampled	Area				
			hin a Wetlan	id? Yes	•	No 🔘		
Remarks:Sample point taken near outfall structure wi	ithin the	dense wet	land area.					
VEGETATION								
	Absolute % Cover	Dominant Species?		Dominance Test				
1.Salix laseolepis	50	Yes	FACW	Number of Domina That Are OBL, FA				(A)
2.						0. 3	,	,,,
3.				Total Number of D Species Across Al		4	. ((B)
4.							,	
Total Cover:	50 %			Percent of Domina That Are OBL, FA			.0 % ((A/B)
Sapling/Shrub Stratum	10	W.		Prevalence Index			70 (
1.Baccharis salicifolia	10	Yes	FAC	Total % Cove		et: Multipl [,]	v bv:	
2				OBL species	1 01.	x 1 =	<u>y by.</u>	
4.				FACW species	75	x 2 =	150	
5.				FAC species	10	x 3 =	30	
Total Cover:	10 %			FACU species		x 4 =	0	
Herb Stratum				UPL species	5	x 5 =	25	
1. Juncus acutus	25	Yes	FACW	Column Totals:	90	(A)	205	(B)
2-Heterotheca grandiflora	5	Yes	Not Listed	Prevalence I	Indox - P/	Λ _	2.28	
3.				Hydrophytic Veg			2.20	
4.				X Dominance T				
5. 6.				× Prevalence In				
7.				Morphologica			supportir	ng
8.				l		n a separate	,	
Total Cover:	30 %			Problematic F	lydrophytic	Vegetation ¹	(Explain))
Woody Vine Stratum	30 %			1				
1				¹ Indicators of hyd be present.	ric soil and	d wetland hy	drology n	nust
2.	0.			Hydrophytic				
Total Cover:				Vegetation				
% Bare Ground in Herb Stratum % Cover			<u>%</u>	Present?	Yes 💿	No C)	
Remarks: Area is dominated with wetland vegetation	n. Very f	lat area.						

Sampling Point: <u>E-60 WSl</u>

SOIL

		o the de	pth needed to docum			or confirm	n the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Feature %	es Type ¹	Loc ²	Texture	Remarks
0-4	10-YR 2/1	100	N/A				Loamy/Clay	moist soils
	· — · · · · · · · · · · · · · · · · · ·			1.5				moist sons
4-16	10 YR 4/2	85	5YR 4/6	15	<u>C</u>	<u>M</u>	Loamy/Clay	
¹ Type: C=0	Concentration, D=Depl	etion, RN	M=Reduced Matrix, CS	=Cover	ed or Coate	ed Sand G		cation: PL=Pore Lining, M=Matrix.
l <u> </u>	`	to all L	RRs, unless otherwise	,				for Problematic Hydric Soils:
Histoso	bl (A1) Epipedon (A2)		Sandy Redox Stripped Ma	` '				Muck (A9) (LRR C)
I <u>—</u>	Histic (A3)		Loamy Muck	` '				Muck (A10) (LRR B) ced Vertic (F18)
	en Sulfide (A4)		Loamy Gley					Parent Material (TF2)
	ed Layers (A5) (LRR C)	Depleted Ma					(Explain in Remarks)
	luck (A9) (LRR D)		Redox Dark	Surface	e (F6)			
·	ed Below Dark Surface	(A11)	Depleted Da		. ,		2	
	Dark Surface (A12)		Redox Depr		(F8)			s of hydrophytic vegetation and
· —	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pools	s (F9)				nydrology must be present, sturbed or problematic.
	Layer (if present):						uniess un	starbed of problematic.
Type:	Layer (ii present).							
Depth (ii	nches):						Hydric Soil	I Present? Yes ● No ○
HYDROLO	OGY							
Wetland Hy	ydrology Indicators:							
Primary Ind	icators (any one indica	tor is su	fficient)				Seco	ndary Indicators (2 or more required)
Surface	e Water (A1)		Salt Crust ((B11)				Vater Marks (B1) (Riverine)
High W	ater Table (A2)		Biotic Crus	t (B12)			X	Sediment Deposits (B2) (Riverine)
Saturat	tion (A3)		Aquatic Inv		, ,		X	Orift Deposits (B3) (Riverine)
	Marks (B1) (Nonriveri i		Hydrogen S		, ,			Orainage Patterns (B10)
	ent Deposits (B2) (Non				_	_		Ory-Season Water Table (C2)
	eposits (B3) (Nonriver	ine)	Presence of			4)		Crayfish Burrows (C8)
🖳	e Soil Cracks (B6)	,	Thin Muck					Saturation Visible on Aerial Imagery (C9)
🖳	tion Visible on Aerial Ir	nagery (l	· <u>—</u>			ved Soils (Shallow Aquitard (D3)
Field Obse	Stained Leaves (B9)		Other (Exp	iain in F	temarks)		F	FAC-Neutral Test (D5)
		es 🔘	No Depth (inc	hes).				
Water Table		es (No Depth (inc					
Saturation I		es O	No Depth (inc					
(includes ca	apillary fringe)		nonitoring well, aerial p	· -	previous ins			yy Present? Yes No
		-			-		•	am of outfall. Area is very flat and cating main channel.
US Army Cori	os of Engineers							

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance I	RGP	City/Count	y:Escondido	o/San Diego	Sam	npling Date:2	/26/2019	9
Applicant/Owner: City of Escondido				State:CA	Sam	npling Point:	E-60 WS	P 1.2
Investigator(s):Lanika Cervantes; William Kohn		Section, To	ownship, Rai	 nge:		_		
Landform (hillslope, terrace, etc.): Outerfloodplain		Local relie	ef (concave, o	convex, none):none	e	Slo	pe (%):0	
Subregion (LRR):C - Mediterranean California	Lat: 33.	142756		Long:-117.0203	10	Datu	ım:	
Soil Map Unit Name: Escondido very fine sandy loam, 1	5 to 30 p	ercent slo	pes	NWI cl	assification	:Freshwate	r Pond	
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No C	(If no, explai	n in Remar	·ks.)		
Are Vegetation Soil or Hydrology si	gnificantly	disturbed?	Are "	Normal Circumstan	ices" prese	nt? Yes 💿	No	\circ
Are Vegetation Soil or Hydrology na	aturally pro	oblematic?	(If ne	eded, explain any a	answers in	Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	samplin	g point lo	ocations, trans	ects, imp	oortant fe	atures,	etc.
Hydrophytic Vegetation Present? Yes No								
		ls t	he Sampled	Area				
Wetland Hydrology Present? Yes No			hin a Wetlan			No 💿		
Remarks:Sample point taken approximately 1.5 feet	higher in	elevation	from 1.1.					
VEGETATION								
	Absolute % Cover	Dominant Species?		Dominance Test				
1.Salix laseolepis	10	Yes	FACW	Number of Domin			2	(A)
2.								`
3.				Total Number of I Species Across A		2	2	(B)
4.				Percent of Domin	ant Specie	e		, ,
Total Cover	10 %			That Are OBL, FA			0.0%	A/B)
Sapling/Shrub Stratum				Prevalence Inde	v worksho	ot:		
1				Total % Cove		et. Multipl	y by:	
3.				OBL species	<i>J</i> 1 01.	x 1 =	0	
4.				FACW species	70	x 2 =	140	
5.				FAC species		x 3 =	0	
Total Cover:	%			FACU species		x 4 =	0	
Herb Stratum				UPL species	10	x 5 =	50	
1. Juncus acutus	60	Yes	FACW	Column Totals:	80	(A)	190	(B)
2.Erodium sp.	10	No	Not Listed	Prevalence	Index - B/	Δ –	2.38	
3.				Hydrophytic Veg			2.30	
4.				X Dominance T				
5. 6.				× Prevalence II				
7.				Morphologica			supportir	ng
8.				l		n a separate		
Total Cover:	70 %			Problematic I	Hydrophytic	c Vegetation	(Explain))
Woody Vine Stratum	70 %			1				
1				¹ Indicators of hydbe be present.	dric soil and	d wetland hy	drology n	nust
Z								
Total Cover:	%			Hydrophytic Vegetation		_		
	of Biotic C		<u>%</u>	Present?	Yes	No C)	
Remarks: Area is dominated by juncus but no hydro	logy indi	cators wit	hin this are	ea.			-	

Sampling Point: E-60 WSI

Depth (inches) 0-14			Dod	ox Features		n the absence of i	
	Matrix Color (moist)	%	Color (moist)	%Type	Loc ²	Texture	Remarks
	10-YR 4/3	100 N	/A			Loamy/Clay	
	10 111 1/3					<u> </u>	
¹ Type: C=Co	oncentration, D=Depl	etion, RM=R	Reduced Matrix, C	S=Covered or Coa	— ——— ted Sand Gr	rains. ² Locatio	n: PL=Pore Lining, M=Matrix.
	ndicators: (Applicable						Problematic Hydric Soils:
Histosol		o to an Entre	Sandy Red	•			(A9) (LRR C)
	oipedon (A2)		Stripped M	,			(A10) (LRR B)
Black Hi	stic (A3)		Loamy Mu	cky Mineral (F1)			/ertic (F18)
	en Sulfide (A4)			eyed Matrix (F2)		=	nt Material (TF2)
	d Layers (A5) (LRR C	;)	Depleted N	, ,		Other (Exp	olain in Remarks)
	ick (A9) (LRR D)	(0.4.4)		rk Surface (F6)			
	d Below Dark Surface	e (A11)		Dark Surface (F7)		3Indicators of b	udrophytic vogetation and
	ark Surface (A12) Nucky Mineral (S1)		Vernal Po	pressions (F8)			lydrophytic vegetation and blogy must be present,
	Gleyed Matrix (S4)		veinari o	515 (1 <i>5)</i>			ped or problematic.
	Layer (if present):						, ca e. p. ca. c
Type:	(p. 230114)						
Depth (inc	chas).					Hydric Soil Pre	esent? Yes No •
Domorko: M	o Redox observed	rrithin this	0#00				
Wetland Hyd	drology Indicators:						
Wetland Hyd	drology Indicators: cators (any one indica	ator is suffici					y Indicators (2 or more required)
Wetland Hyd Primary Indic	drology Indicators: cators (any one indica Water (A1)	ator is suffici	Salt Crus	, ,			y Indicators (2 or more required) r Marks (B1) (Riverine)
Wetland Hyder Primary Indicate Surface High Wa	drology Indicators: cators (any one indica Water (A1) ater Table (A2)	ator is suffici	Salt Crus Biotic Cru	ust (B12)		Wate	
Wetland Hyd Primary Indic Surface High Wa Saturatio	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3)		Salt Crus Biotic Cru Aquatic I	ust (B12) nvertebrates (B13)		Wate	r Marks (B1) (Riverine)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri	ne)	Salt Crus Biotic Cru Aquatic II Hydroger	ust (B12) nvertebrates (B13) n Sulfide Odor (C1)		Wate Sedir Drift I	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverint Deposits (B2) (Nor	ne) nriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized	ust (B12) nvertebrates (B13) n Sulfide Odor (C1) Rhizospheres alon	-	Wate Sedir Drift I Drain ots (C3) Dry-S	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2)
Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivering Deposits (B2) (Norrivering Deposits (B3) (Nonrivering Deposits (B3) (Nonrive	ne) nriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence	ust (B12) nvertebrates (B13) n Sulfide Odor (C1) Rhizospheres alon e of Reduced Iron (-	Wate Sedir Drift I Drain ots (C3) Crayl	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverint Deposits (B2) (Norriveriosits (B3) (Nonriveriosits (B6))	ne) nriverine) ine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence	ust (B12) nvertebrates (B13) n Sulfide Odor (C1) Rhizospheres alon e of Reduced Iron (Gk Surface (C7)	C4)	Wate Sedir Drift I Drain ots (C3) Crayt Satur	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) mish Burrows (C8) mation Visible on Aerial Imagery (C9)
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			PAR	T I. MA	INTEN	ANCE	FACI	LITY INF	ORI	MATIC	N						
Facility Name	Viking Plac	e					Fa	cility ID	Е	E-61							
Location	Mountain V	/iew Driv	ve and Viking	Place			•										
Latitude ¹	33.12700	8 L	ongitude ¹	-117.04	40172		Ma	intenanc	ce Fr	requer	ісу (ує	ears)			Anı	nually	/
Maintenance F	acility Type		Channel				Lin	ing Type) C	Concre	te						
Proposed Main	tenance	Remo	ve accumula	ted sedi	ment a	nd veg	jetatio	n within	Con	ncrete (Chann	nel					
Activities	teriance	Equip	ment will be	staged o	n deve	eloped	areas	adjacen	t to d	channe	el.						
Will work occur	when wate	er is in th	ne channel?	Y		N				, will de ion be			r wate	r Y		N	
				PAF	RT II. S	SURVE	Y INF	ORMAT	ION								
,			and William K	ohn						Date	of Su	rvey			2/26/2	2019	
Was water in the survey?	ne channel a	at the tir	ne of the	Y	\boxtimes	Ν		Hydrolo	gy T	Type ²	Р		1		E [⊠ c) [
Nearest Named	d Waterbod	y Esco	ndido Creek	•				NWI Inc	dex	Not cla	assifie	ed					
NRCS Soils	lacentia sar	ndy loan	n, 2 to 9 perce	ent slope	es												
Section II.a. S	ummary of	USACE	E/RWQCB/CI	DFW Wa	ters o	f the U	I.S. ar	nd State	Witi	thin th	e Mai	ntena	ance F	acili	ty		
USACE 404/R\	NQCB 401	Jurisdic	tion	ΥÞ	1 N	П	USA	CE 404	Reg	gulated	Activi	ity	,	Y		N	\boxtimes
				_	-				J	,		,					diversion gulated
USACE Nonwe Waters Present		Y 🛚	N 🗆	USACE Waters			Υ	□ N	\boxtimes		Datapo aken) ,	Y		N	
Associated Dat	asheet(s)		OHWM Data	Sheet													
Summary of Aquatic	Type of Ju	urisdictio	nal Water			Habit	at Desc	cription.3							ed withir potprint		Impact Tier ⁵
Habitats (Waters of the	Nonwe	tland W	aters				U/0	<u> </u>					(0.035	5		IV
U.S. and State)									TC	TAL		(0.035	5		
Section II.b. S	ummary of	CDFW	Waters of th	e State	Only	Within	the M	laintena	nce	Facili	ty						
CDFW 1600 Jurisdiction Bey USACE Waters		Y	⊠ N □	CD	FW R	egulate	d Acti	vity				Υ [⊠ N	N [
Summary of	Type of Ju	urisdictio	nal Water			Habi	tat Des	cription ³							ed withi		Impact Tier⁵
Aquatic Habitats	Channe	el Bank					U/0	C						0.04		_	IV
(Waters of the State Only)										TC	TAL			0.04	7		
Section II.c. S	ummary of	Vegeta	ntion Commu	ınities a	nd Co	ver Ty	pes V	Vithin an	nd A	djacer	nt to t	he M	ainten	nanc	e Faci	lity	
Vegetation C	ommunitio	e and		Acres v	within	Study	Area	3									
	er Types	s allu	Maintenan Footprin		-Floot	Buffe	r	Total			[Domi	nant/S	Signi	ficant	Spec	cies
Upland				-													
Urban/Develo	ped		0.050		2.15			2.209									
	GRAND TO	OTAL ⁶	0.050		2.15	58		2.209									
Section II.d. T				l Status	Speci	ies Wit	hin th	ne Vicini	ity o	of the I	lainte	enand	ce Fac	ility	7		
Special status field surveys w				None													
Threatened/En known to occur	dangered s	pecies h	nistorically	N/A													

City of Escondido Channel Maintenance RGP – Facility Summary

E-61 - Viking Place

	1101 101110, 0 1111111111,	
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None	
Threatened/Endangered species historically	Tricolored blackbird (Agelaius tricolor) (, CE)
known to occur within 1.0 mile of the Facility	Least Bell's vireo (Vireo bellii pusillus) (FE, SÉ)
Buffer		
Other non-listed special status species historically known to occur within the Facility Buffer	None	
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Dulzura pocket mouse (Chaetodipus ca	nlifornicus femoralis) (SSC)
Are species surveys recommended?	Y N N If Yes, for what species?	
Will work occur in the breeding season (Feb-Au	gust)?	Y 🛛 N 🗌

PART III. ADDITIONAL NOTES/COMMENTS

Concrete-lined channel surrounded by urban development. Approximately 4 inches of sediment in some sections of the channel and patchs of *Erodium sp.* and *Avena sp.* OHWM taken approximately 1 foot from bottom of channel based on water staining present.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- $\textbf{6.} \quad \text{Totals may not add up due to rounding}.$
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).

PART IV. REPRESENTATIVE FACILITY PHOTOGRAPHS



Representative Photograph 1. Facing N. Concrete-lined channel

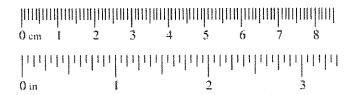


Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: City of Escandido	Date: 2/26/19 Time: 10:00am
Project Number:	Town: Escandido State: CA
Stream: 1 Investigator(s): L. Cervantes	Photo begin file#: Photo end file#:
Y N Do normal circumstances exist on the site?	Location Details: E-61
Y / N / Is the site significantly disturbed?	Projection: Datum: Coordinates: See Figure
Potential anthropogenic influences on the channel system (on crete-lined channels	tem: surrounded by urban development
Brief site description: Concrete channel with s mostly unvegetated with section	ections of a finch sediment. Is of eradium, avena, and malva.
Checklist of resources (if available):	ge data ber:
Hydrogeomorphic	Floodplain Units
, Active Floodplain	Low Terrace
Low-Flow Channels	OHWM Paleo Channel
Procedure for identifying and characterizing the floor	dplain units to assist in identifying the OHWM:
 Walk the channel and floodplain within the study area vegetation present at the site. Select a representative cross section across the channel. Determine a point on the cross section that is characte a) Record the floodplain unit and GPS position. Describe the sediment texture (using the Wentworth floodplain unit. 	to get an impression of the geomorphology and Draw the cross section and label the floodplain units. ristic of one of the hydrogeomorphic floodplain units.
C) Identify any indicators present at the location.	
4. Repeat for other points in different hydrogeomorphic	
5. Identify the OHWM and record the indicators. Record Mapping on aerial photograph	I the OHWM position via: ☑ GPS
Digitized on computer	Other:

Wentworth Size Classes

	Y'		317	101	THE SIZE	~ ~	.1433C3
Inche	ıs (in)		İ	Milli	meters (m	m)	Wentworth size class
Damica and Carlo C	10.08 -				256		Boulder
	2.56			***	64		Cobble 20
- Company of the Comp	0.157			-040-	4	·	manus security resums toutiles whereas also
	0.079 —		*****		2.00		Granule
	0.039 -	-		-	1.00		Very coarse sand
	0.020 -			-	0.50	intellitie	Coarse sand
1/2	0.0098 -	****		A(A4)-	0.25		Medium sand
1/4	0.005 -		WORK	****	0 125	_	Fine sand
1/8	0.0025 -		*******	HOIOWAY	0.0625		Very fine sand
1/16	0.0012 -	_		***	0.031		Coarse silt
1/32	0.00061 -	- Automorphism			0.0156	delicio	Medium silt
1/64	0.00031 -	-			0.0078	******	Fine silt
1/128 —	0.00015-	+			0.0039	×	Very fine silt
4.64.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.		arren (rechibitativiti					Clay



Project ID: Cross section d		<u> </u>	Date. Of O	.6/19 Time:	
C1055 Section d	iawing.				
		Si m Inss	OLD F		
	WFON	o Hum Term			
<u>OHWM</u>				Week control of the c	TOTAL TOTAL
GPS point:					
Change	in average sediment texture in vegetation species in vegetation cover	Othe	ak in bank slope er:		,
Comments:	water channel.	TIMBARA (A	2 Mr. n.	-	
Co	oncrete channel, 187 above chan	nel botter	n based cr	n water ste	an in
	it: \\\\ Low-Flow Chann				
	it: 🛛 Low-Flow Chann				ace
Floodplain un GPS point:	it: \(\square \) Low-Flow Chann	nel 🖾 Acti			ace in the same
Floodplain un GPS point: Characteristics A verage sedime Total veg cover	it: \(\sum \) Low-Flow Chann of the floodplain unit: ent texture: \(\cap \) A \(\cap \) \(\cap \)	nel 🖾 Acti		☐ Low Terra	ace in the same
Floodplain un GPS point: Characteristics A verage sedime Total veg cover Community suc	it: \(\sum \) Low-Flow Chann of the floodplain unit: ent texture: \(\cap \) A \(\cap \) \(\cap \)	nel Acti Acrete 6 Shrub: 9 9	ve Floodplain	☐ Low Terra	ace
Floodplain un GPS point: Characteristics A verage sedime Total veg cover Community suc NA Early (Indicators:	it: \ \ Low-Flow Chann of the floodplain unit: ent texture: \ \ \ A \ Cox : \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	nel 🖾 Acti	ve Floodplain Herb: \5 ' (herbaceous, shree (herbaceous, shr	Low Terra % ubs, saplings)	ace
Floodplain un GPS point: Characteristics A verage sedime Total veg cover Community suc NA NA Early (Inclicators: Muder	it: \(\) Low-Flow Chann of the floodplain unit: ent texture: \(\chi \) A \(\chi \) \(\chi \) \(\shi \) Tree: \(\chi \) \(\chi \) cessional stage: herbaceous & seedlings) acks	nel Acti Acrete 6 Shrub: 9 Mid Late	ve Floodplain Herb: \\ (herbaceous, shree (herbaceous, shree)	Low Terra % ubs, saplings)	ace
Floodplain un GPS point: Characteristics A verage sedime Total veg cover Community suc NA NA Early (Inclicators: Muder Ripple	it: \(\) Low-Flow Chann of the floodplain unit: ent texture: \(\chi \) A \(\chi \) \(\chi \) \(\shi \) Tree: \(\chi \) \(\chi \) cessional stage: herbaceous & seedlings) acks s	nel	ve Floodplain Herb: \\ (herbaceous, shree (herbaceous, shree) development face relief	Low Terra which the second se	ace in the second secon
Floodplain un GPS point: Characteristics A verage sedime Total veg cover Community suc NA NA Early (Inclicators: Muder Ripple	it: \(\) Low-Flow Chann of the floodplain unit: ent texture: \(\chi \) A \(\chi \) \(\chi \) \(\shi \) Tree: \(\chi \) \(\chi \) cessional stage: herbaceous & seedlings) acks s	nel	ve Floodplain Herb: \\ (herbaceous, shree (herbaceous, shree) development face relief	Low Terra which the second se	ace in the second secon
Floodplain un GPS point: Characteristics A verage sedime Total veg cover Community suc NA NA Early (Inclicators: Muder Ripple	it: Described by Low-Flow Channel of the floodplain unit: ent texture: NA CONTree: NA CONTRESSIONAL STATES STATES AND A CONTRESSIONAL STATES STATES AND A CONTRESSIONAL STATES AND A CO	nel	ve Floodplain Herb: \\ (herbaceous, shree (herbaceous, shree) development face relief	Low Terra which the second se	ace in the second secon

oject ID:		E-6 Date: 2/26/19 Time:	·
oodplain unit:	Low-Flow Channel	Active Floodplain Low Terrace	
S point:			
aracteristics of th	ie floodplain unit:		
verage sediment te	exture: Revole		
ommunity success		70 HClo. 50-70	
□ NA	annua Prandlinan	☐ Mid (herbaceous, shrubs, saplings) ☐ Late (herbaceous, shrubs, mature trees)	
☐ Early (nerb	aceous & seedlings)	🖂 Late (nerbaceous, shrubs, mature trees)	-
dicators:		57 G-11 days la manage	
☐ Muderacks ☐ Ripples		Soil development Surface relief	
Drift and/or	r debris		
	f bed and bank	Other: Other:	
Benches		Other:	
loodplain unit:	Low-Flow Channel	☐ Active Floodplain ☐ Low Terrace	
	Low-Flow Channel	☐ Active Floodplain ☐ Low Terrace	
GPS point:		Active Floodplain Low Terrace	
GPS point:	ne floodplain unit:	entropolitica de la composition della compositio	- 1 L
Characteristics of the Average sediment to Total veg cover:	ne floodplain unit: exture:% Tree:% S	sein enskipe ein der in der eine eine eine eine eine eine eine ei	AND THE PERSON NAMED OF TH
Characteristics of the Average sediment to Total veg cover: Community success NA	ne floodplain unit: exture: % Tree:% S sional stage:	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings)	AND THE PERSON NAMED OF TH
Characteristics of the Average sediment to Total veg cover: Community success NA	ne floodplain unit: exture: % Tree:% S sional stage:	setu alkatija sile de ili vietes detuati e Shrub: <u>ka-</u> % Herb: <u>k</u> -%	The second secon
Characteristics of the Average sediment to Total veg cover: Community success NA Early (herburations:	ne floodplain unit: exture:% Tree:% S sional stage: paceous & seedlings)	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)	TO A STATE OF THE
Characteristics of the Average sediment to Total veg cover: Community success NA Early (herboracters)	ne floodplain unit: exture:% Tree:% S sional stage: paceous & seedlings)	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development	AND THE PERSON NAMED OF TH
Characteristics of the Average sediment to Total veg cover: Community success NA Early (herborations: Mudcracks Ripples	ne floodplain unit: exture:% Tree:% S sional stage: paceous & seedlings)	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief	AND THE PERSON NAMED OF TH
Ps point: A verage sediment to Total veg cover: Community success NA Early (herborected) A dicators: Mudcracks Ripples Drift and/o	ne floodplain unit: exture:% Tree:% S sional stage: paceous & seedlings)	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other:	AND THE PERSON NAMED OF TH
Characteristics of the Average sediment to Total veg cover: Community success NA Early (herbordicators: Mudcracks Ripples Drift and/o	ne floodplain unit: exture:% Tree:% S sional stage: paceous & seedlings) or debris f bed and bank	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other:	AND THE PERSON NAMED OF TH
Characteristics of the Average sediment to Total veg cover: Community success NA Early (herborations: Mudcracks Ripples Drift and/o Presence o Benches	ne floodplain unit: exture:% Tree:% S sional stage: paceous & seedlings) or debris f bed and bank	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other: Other:	TO A STATE OF THE
Characteristics of the Average sediment to Total veg cover: Community success NA Early (herbores) Mudcracks Ripples Drift and/o Presence of Benches	ne floodplain unit: exture:% Tree:% S sional stage: paceous & seedlings) or debris f bed and bank	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other: Other:	The second secon
Characteristics of the Average sediment to Total veg cover: Community success NA Early (herbores) Mudcracks Ripples Drift and/o Presence of Benches	ne floodplain unit: exture:% Tree:% S sional stage: paceous & seedlings) or debris f bed and bank	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other:	TO A STATE OF THE
PS point: haracteristics of the Average sediment to Total veg cover: NA Barly (herbotations: Mudcracks Ripples Drift and/o Presence o Benches	ne floodplain unit: exture:% Tree:% S sional stage: paceous & seedlings) or debris f bed and bank	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other: Other:	

PART I. MAINTENANCE FACILITY INFORMATION																			
Facility Name	Reidy Cree	k – Li	incoln A	ve					Fac	cility ID		E-62							
Location	Reidy Cree	k/Lind	coln Av	enue															
Latitude ¹	33.131138	389	Longit	ude ¹	-117.09	9401	11		Ма	intenar	nce F	requency	(ye	ars)			А	nnuall	у
Maintenance Fa	cility Type		Chann	nel					Lini	Lining Type Concrete									
Proposed Mainte Activities	enance				llated sedir										es.				
Will work occur	when water	is in	the cha	nnel?		Υ		N	· [s, will dewa				-	Temp divers		cofferdam or ucture will be
PART II. SURVEY INFORMATION																			
Surveyors	Lanika C	ervan	ntes and	l Kels	ey Dix							Date of	Sur	vey			11/1	1/2019	
Was water in the survey?	e channel a	t the t	time of t	he	Y	\boxtimes] 1	1 [Hydro	logy	Type ²	Р		ı		Е		0 🗆
Nearest Named	Waterbody	R	eidy Cr	eek						NWI I	ndex	Riverine							
NRCS Soils	Visalia sa	ndy	loam,	2 to 5	percent	slope	es		·			_							
Section II.a. Summary of USACE/RWQCB/CDFW Waters of the U.S. and State Within the Maintenance Facility																			
USACE 404/RWQCB 401 Jurisdiction Y						Temporary diversion regulated.						⊠ ersion is							
USACE Nonwet Waters Present		Υ [⊠ N		USACE Wetland Waters Present V □ N □ Taken Y □ Y □ Y □ Y □ Y □ Y □ Y □ Y □ Y □ Y						Υ		N	\boxtimes					
Associated Data	sheet(s)		N/A																
Summary of Aquatic	Type of Juri	sdictio	onal Wate	r			На	bitat	Description ³					Acres Delineated w Maintenance Footp					Impact Tier ⁵
Habitats (Waters of the	Nonwet	and \	Waters						U/C							0.4	40		IV
U.S. and												тот	ΓAL			0.4	40		
State) Section II.b. Su	immary of	CDE	N Wato	rs of	the State (Only	With	in tl	ho M	ainton	anco	- Facility							
CDFW 1600 Jur	isdiction		Y 🛛							Activity		er acmity	,	Υ 🗵	1 [N			
Beyond USACE Summary of	Type of Jui	risdict								ption ³							ted wit		Impact Tier ⁵
Aquatic Habitats	Stream	bed							U/C					IVIA	пепа	0.4	•	int	IV
(Waters of the																			
State Only)												TOTA	λL			0.4	10		
Section II.c. Su	mmary of	Vege	tation	Comn						_	nd A	Adjacent to	o th	ne Ma	inten	nanc	e Fa	cility	
Vegetation Communities and Cover Types					intenance	10	thin S	ot	ly Ar										
Upland					ootprint		Buffe	ŧľ.		Tota	11		ט	omin	ant/S	oign	ıııcar	nt Spe	cies
Non-Native Wo					-		0.11			0.11		Schinus molle							
Eucalyptus Woodland					-		0.36		_	0.36		Eucalyp	tus	sp.					
	Non-native Grassland Subtotal Upland				-		0.37			0.37									

, -,				
Other Land Cover Types	•	•		
Disturbed habitat	-	1.16	1.16	
Urban/Developed	0.40	1.30	1.69	
Subtotal Other Land Cover Types	0.40	2.45	2.85	
GRAND TOTAL ⁶	0.40	3.29	3.69	

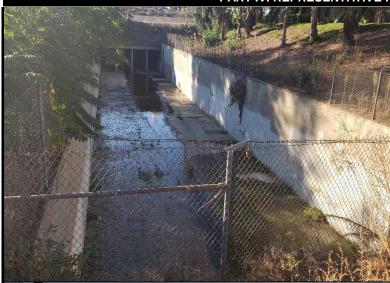
Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of	the Maintenance Facility								
Special status species observed during 2019 field surveys within the Facility Buffer	None									
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A									
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None	None								
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Coastal California gnatcatcher (<i>Poliop</i> Least Bell's vireo (<i>Vireo bellii pusillus</i>) Swainson's hawk (<i>Buteo swainsoni</i>) (-Western yellow-billed cuckoo (<i>Coccyz</i>)	Tricolored blackbird (<i>Agelaius tricolor</i>) (, CE) Coastal California gnatcatcher (<i>Polioptila californica califorica</i>) (FT, SSC) Least Bell's vireo (<i>Vireo bellii pusillus</i>) (FE, SE) Swainson's hawk (<i>Buteo swainsoni</i>) (, ST) Western yellow-billed cuckoo (<i>Coccyzus americanus occidentalis</i>) (FT, SE) California black rail (<i>Laterallus jamaicensis coturniculus</i>) (, ST/FP)								
Other non-listed special status species historically known to occur within the Facility Buffer	None									
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant (Centromadia parryi ssp. australis) (CRPR 1B.1) Southern California legless lizard (Anniella stebbinsi) (SSC) Orange-throated whiptail (Aspodpscelis hyperythra) (SSC) Coast horned lizard (Phrynosoma blainvillii) (SSC) Burrowing owl (Athene cunicularia) (SSC) White-faced ibis (Plagadis chihi) (WL) Pallid bat (Antrozous pallidus) (SSC) Dulzura pocket mouse (Chaetodipus californicus femoralis) (SSC) Townsend's big-eared bat (Corynorhinus townsendii) (SSC) Western yellow bat (Lasiurus xanthinus) (SSC) Pocketed free-tailed bat (Nyctinomops femorosaccus) (SSC) Big free-tailed bat (Nyctinomops macrotis) (SSC) American badger (Taxidea taxus) (SSC)									
Are species surveys recommended?	Y N N If Yes, for what	N/A								
Will work occur in the breeding season (Feb-Au	Y 🛭 N 🗆									

PART III. ADDITIONAL NOTES/COMMENTS

Maintenance area starts at concrete apron north of Lincoln Avenue and then a concrete-lined box channel with vertical walls located south of Lincoln Avenue. Flowing water was present within the channel at the time of the surveys and other than algae no vegetation was present. Access into this site can occur from entering the concrete apron north of Lincoln and entering the box culvert. This is the downstream segment of Reidy Creek.

A small ephemeral drainage occurs in the buffer area. This drainage is natural bottom and unvegetated. It flows into Reidy Creek. No maintenance activities are proposed within this area.

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative photo of the southern section of the maintenance site, a concrete-lined channel.



Representative photo of the adjacent disturbed habitat.



Representative photos of small ephemeral drainage that occurs within the survey buffer. No impacts proposed in this area.

PART I. MAINTENANCE FACILITY INFORMATION																				
Facility Name	1840 S Ce	entre C	ity Pkwy	У				F	acility I	D	H-02	2 A								
Location	1840 Sout	h Cent	tre City	Parkwa	у								1							
Latitude ¹	33.1000	10	Longit	ude ¹	-117.0	40172		N	/laintena	ance	Frequ	iency	(yea	rs)			Α	nnua	lly	
Maintenance Fa	acility Type)	Chann	iel				L	ining Ty	уре	Earth	hen								
			sting R0	GP Site	propose	ed for E	Expans				cumula	ated s	edim	ent a	nd w	eed	rem	oval.		
Proposed Maint Activities	tenance	cha	uipment annel for draggin	clean e	excavati	on.								used	l to so	coop	sed	imen	t out	of
Will work occur	when wat	er is in	the cha	nnel?	Y		N			dive	rsion b	l dewa be nee			water	Y		1	N [
					PA	RT II. S	SURV	EY IN	IFORM.	ATIC	N									
Surveyors	Lanika Ce	rvante	s and W	illiam K	ohn						Da	ate of S	Surve	еу			2/26/2019			
Was water in th survey?	e channel	at the	time of	the	Y	\boxtimes	N		Hydr	rolog	у Туре	e ²	Р		1 [Е	\boxtimes	0	
Nearest Named	l Waterboo	lv Sa	ın Diegu	ito Rive	er				·			class	ified							
	lacentia sa					AC														
		-																		
Section II.a. Su	ummary o	f USA	CE/RW	QCB/CI	DFW W	aters c	of the	U.S.	and Sta	ite V	/ithin	the M	aint	enan	ce Fa	cili	ty			
USACE 404/RWQCB 401 Jurisdiction					Y	□ N □ USACE 404 Regulated Activity					Y N M Only Temporary diversior structures are regulated				version					
USACE Nonwe Waters Present		Υ	, IXI NI III			E Wetl		Υ		N	\boxtimes	Datapoint(s) Taken				,		N	\boxtimes	
Associated Data	asheet(s)																			
Summary of	Туре	of Juriso	dictional V	Vater			Ha	bitat	Description	on. ³		Acres Delineate Maintenance Fo							Im	npact Tier⁵
Aquatic Habitat	Nonv	vetland	d Waters	<u> </u>					V/E				-	Man		090	otp:::	ıı		· II
(Waters of the U.S. and State)												TOTA	L							
Section II.b. St	ummary o	f CDF	W Wate	rs of th	e State	Only	Withir	the	Mainte	nand	e Fac	ilitv ⁷								
CDFW 1600											70 Lat.	7111.5								
Jurisdiction Bey USACE Waters	ond		Υ 🛚	N \square] CI	OFW R	Ū		·				Y							
Summary of		of Juriso	dictional \	Nater			Н	abitat	Descripti	ion³					es Deli ntenar				lr	mpact Tier⁵
Aquatic Habitat (Waters of the	is		rian Ext						V/E							.088				II.
State Only)		Cna	annel Ba	ınk					V/E			TOTA	L			.091 . 17 8				<u>II</u>
Section II.c. Se	ummary c	f Vege	etation	Commu	ınities a	and Co	ver T	/pes	Within	and				e Mai				cility		
					Acres	within	Study	, Aro	36											
	/egetation Communities and Cover Types Maintenanc												5 -			• •	<i>-</i>	1.0		
Riparian and W	/etland			ootprin	it 10	0-Foot	Вите	er	Tota	aı			DC	omina	ant/S	igni	TICAL	ıt Sp	ecies	<u> </u>
Unvegetated (0.090		<0.0	01	0.090												
Subtotal Ripa	rian and W	/etlano	1	0.090		<0.001 0.090														
Upland Non-Native W	loodland		1	0.088	1	0.40	07	1	0.49	95	Fi	ıcalyp	11S S	sn I	Nash	inat	onia	rohus	sta	
INUIT-INALIVE VV	Subtotal Upland 0.088					0.40			0.49			,oury p	.00 3	υp., ι	74311	ii igt	Jilid	, obus	iu,	

Other Land Cover Types				
Urban/developed	0.001	3.630	3.631	
Subtotal Other Land Cover Types	0.001	3.630	3.631	
GRAND TOTAL ⁶	0.179	4.038	4.216	

Section II.d. Threatened/Endangered/Specia	l Status Species Within the Vicinity o	f the Maintenance Facility ⁷								
Special status species observed during 2019 field surveys within the Facility Buffer	None									
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A									
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None									
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (<i>Agelaius tricolor</i>) (, CE) Coastal California gnatcatcher (<i>Polioptila californica califorica</i>) (FT, SSC) Least Bell's vireo (<i>Vireo bellii pusillus</i>) (FE, SE) Swainson's hawk (<i>Buteo swainsoni</i>) (, ST) Western yellow-billed cuckoo (<i>Coccyzus americanus occidentalis</i>) (FT, SE) California black rail (<i>Laterallus jamaicensis coturniculus</i>) (, ST/FP)									
Other non-listed special status species historically known to occur within the Facility Buffer	None									
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	White-faced ibis (<i>Plagadis chihi</i>) (WL) Pallid bat (<i>Antrozous pallidus</i>) (SSC) Dulzura pocket mouse (<i>Chaetodipus o</i> Townsend's big-eared bat (<i>Corynorhir</i> Western yellow bat (<i>Lasiurus xanthinu</i> Pocketed free-tailed bat (<i>Nyctinomops</i> Big free-tailed bat (<i>Nyctinomops macr</i> American badger (<i>Taxidea taxus</i>) (SS	niella stebbinsi) (SSC) is hyperythra) (SSC) is hyperythra) (SSC) nvillii) (SSC) us interparietalis) (SSC) ss brunneicapillus sandiegensis) (SSC) ralifornicus femoralis) (SSC) nus townsendii) (SSC) is) (SSC) if femorosaccus) (SSC) otis) (SSC)								
Are species surveys recommended?	Y N N If Yes, for what species?									
Will work occur in the breeding season (Feb-Au	Y 🛛 N 🗆									

PART III. ADDITIONAL NOTES/COMMENTS

Upstream segment of this channel is a roadside ditch that supports shelving and sediment deposition. No water was observed within this section of channel and channel is dominated with *Bromus diandrus*, *Erodium sp.*, *Malva sp.*, and *Hordeum murinum*. A 4-foot-wide outfall enters the channel and downstream of that outlet the channel supported flowing water and lots of wrack and sediment deposition. Within the channel it was mostly unvegetated supporting palms, *Eucalyptus sp.*, and *Quercus agrifolia*.

- ${\bf 1.}$ Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing S. Channel at upstream end.



Representative Photograph 2. Facing N. Outfall at upstream end of



Representative Photograph 3. Facing S. Inlet at downstream end of channel



Representative Photograph 5. Facing N. Downstream segment of

PART I. MAINTENANCE FACILITY INFORMATION																
Facility Name	Miller Ave							Facility ID		H-14						
	Miller Ave	nue														
Latitude ¹	33.09504		Longitude ¹	-11	7.07935	8		Maintenanc	e F	requency	(ve:	ars)		Д	nnuall	V
			Channel				-			Earthen	,,,,,,	5)		7 (1	auii	<i>J</i>
Maintenance F	aciiity i ype		_	tod -	odim t	and	20-	Lining Type		⊏armen						
		Kei	move accumula	ned s	eaiment	and we	eed	i removal								
Proposed Main Activities	tenance	cha	uipment will be innel for clean of dragging of equ	excav	ation.							e used to	scoo	op sedi	iment	out of
				ирппс			un			, will dewa		ng or wat	er		_	
Will work occur	when wat	er is in	the channel?		Y 🛚	N	__	div	ersi	ion be nee			.01	Υ 🗵	1 N	Ц
					'AKT II.	SURV	ΞY	INFORMATI	ON							
•			d Ryan Layden							Date of S	Surv	rey		2/27	/2019	
Was water in the survey?					Υ] N	\boxtimes				Р	□ I		E		D 🗆
Nearest Named	d Waterboo	dy Sa	n Dieguito Rive	er				NWI Inc	lex	Not class	ified					
NRCS Soils Bonsall sandy loam, 2 to 9 percent slopes																
Section II.a. S			-			of the	<u>U.</u> S	S. and State	Wii	thin the M	lain	ten <u>ance</u>	Faci	lity		
USACE 404/R\				Υ				USACE 404 I					Υ		N	\boxtimes
Solve is introded to realisations.						337 (3L 404)		galated At	a v It		-	и V Tem		diversion		
																egulated
USACE Nonwe	etland			USA	ACE					Data	apoi	nt(s)				
Waters Present Y N N W				Wet	etland Waters Y N N Taken esent							Y		N		
Associated Dat	asheet(s)															
Summary of	Туре	of Juriso	dictional Water			Н	abit	tat Description.	3			Acres Delineated within Maintenance Footprint ⁴			Impact Tier⁵	
Aquatic Habitat (Waters of the		nwetla	nd Waters					U/E			\dashv	0.016			II	
Ù.S. and State)										TOTA	۱L		0.0	16		
Section II.b. S	ummary c	f CDF	W Waters of th	ie Sta	ate Only	Withir	ı th	ne Maintenai	псе	Facility						
CDFW 1600			Y 🗆 N 🗵	ıŢ	CDFW I	Regulat	ed	Activity			Y	′ ⊠	N			
Jurisdiction Bey USACE Waters	e e e e e e e e e e e e e e e e e e e					- 30.31		y				<u> </u>	-	_		
			J			ŀ	labi	itat Description	3			Acres D	elinea	ated wit	hin	=
Summary of Aquatic Habita			dictional Water									Mainter	ance	Footpri		Impact Tier ⁵
(Waters of the		Cl	hannel Bank					U/E)30		II
State Only)										TOTA				30		
Section II.c. S	ummary c	of Vege	etation Commu						d A	Adjacent to	o th	e Mainte	nan	ce Fac	ility	
Vegetation C	ommuniti	es and	Maintenar		es within	n Study	/ A	rea°		_						
Cove	er Types		Footprin		100-Foc	t Buffe	er	Total			D	ominant	/Sigr	nifican	t Spe	cies
Riparian and W										1						
Unvegetated							0.039									
Subtotal Ripa	rian and W	/etland	0.030		0.0	009		0.039								
Upland Nonnative Gra	assland		_	T	0.0)97	Т	0.097		Cynodoi	n da	ctylon				
Normative Gr	Subtotal	Uplano				097		0.097		Cyriodol	7 46	ioty ioi i				
Other Land Co		•			0.0			0.001								
Urban/Develo			-		2.7	731		2.731								
Subtotal Other L	and Cove	r Type:	s -		2.7	731		2.731								
	GRAND 1	OTAL	6 0.030		2.8	337		2.867								

City of Escondido Channel Maintenance			H-14 - Miller Ave						
Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of the	ne Maintenance Facility ⁷							
Special status species observed during 2019 field surveys within the Facility Buffer	None								
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A								
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None								
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (<i>Agelaius tricolor</i>) (, CE) Coastal California gnatcatcher (<i>Polioptila californica califorica</i>) (FT, SSC) Least Bell's vireo (<i>Vireo bellii pusillus</i>) (FE, SE) Swainson's hawk (<i>Buteo swainsoni</i>) (, ST) Western yellow-billed cuckoo (<i>Coccyzus americanus occidentalis</i>) (FE, ST) California black rail (<i>Laterallus jamaicensis coturniculus</i>) (, ST/FP)								
Other non-listed special status species historically known to occur within the Facility Buffer	None								
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant (Centromadia parryi ss Southern California legless lizard (Anniell Orange-throated whiptail (Aspodpscelis & Coast horned lizard (Phrynosoma blainvii Coronado skink (Plestiodon skiltonianus Burrowing owl (Athene cunicularia) (SSC White-faced ibis (Plagadis chihi) (WL) Pallid bat (Antrozous pallidus) (SSC) Coastal cactus wren (Campylorhynchus Dulzura pocket mouse (Chaetodipus calii Townsend's big-eared bat (Corynorhinus Western yellow bat (Lasiurus xanthinus) Pocketed free-tailed bat (Nyctinomops fe Big free-tailed bat (Nyctinomops macrotis American badger (Taxidea taxus) (SSC)	la stebbinsi) (SSC) hyperythra) (SSC) illii) (SSC) interparietalis) (SSC) brunneicapillus sandiegensis) (SS fornicus femoralis) (SSC) townsendii) (SSC) (SSC) emorosaccus) (SSC)	SC)						
Are species surveys recommended?	Y N N If Yes, for what species?								
Will work occur in the breeding season (Feb-Au	gust)?	Y							
F	PART III. ADDITIONAL NOTES/COMMEN	тѕ							
Within the maintenance facility, there is only an buffer area, there is an earthen roadside ditch the		al waters occur within this area. \	Vithin the						

- 1. Coordinates are based on the centroid of the facility.
- $\textbf{2.} \ \ \text{Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water}$
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- **4.** Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing S. Roadside drainage, mostly unvegetated.



Representative Photograph 2. Facing S. Downstream segment of oadside drainage.



Representative Photograph 3. Facing N. Downstream limit of maintenance, facing upstream.

			PAR	RT I. M	AINTEN	IANCE	FAC	LITY INFO	ORM/	ATION				
Facility Name	Sierra Linda	l					Fa	cility ID	H-1	5				
•	Sierra Linda	Drive						,						
Latitude ¹	33.068112	ı	Longitude ¹	-117.0	050255		Ma	intenance	Fred	uency ((years))	Annuall	У
Maintenance Fa	acility Type		Outlet	<u> </u>				ing Type			,			,
			ove accumula	ited sec	diment a	and we								
Proposed Main Activities	tenance	out s	oment will be sediment to unragging of equ	clog ou	ıtlet.							excavato	r will be used	to scoop
Will work occur	when water	is in tl	he channel?		Y 🛛	N		wat	er div	ill dewa ersion			Y 🛭 N	1 🗆
				P/	ART II. S	SURV	EY INF	ORMATIO	ON					
Surveyors	William Kohi	า								Date of S	Survey	′	2/27/2019)
Was water in th survey?	e channel a	channel at the time of the			γ 🗆	N	\boxtimes	Hydrolog	ду Ту	pe ²	Ρ [] [] E 🛛	о П
Nearest Named	l Waterbody	San	Dieguito Rive	r				NWI Inde	ex N	ot class	ified			
NRCS Soils Vi	sta coarse s	andy I	loam, 15 to 30) perce	nt slope	es								
Section II.a. St	ımmarv of l	USAC	E/RWQCB/CI	DEW W	laters c	of the	IIS al	nd State V	Nithi	n the M	lainter	nance Fa	rility	
				1		i ale								_
USACE 404/RWQCB 401 Jurisdiction Y					⊠ N	N USACE 404 Regulated Act					Activity Y N N Only Temporary diversion structures are regulated			
USACE Nonwe Waters Present						nd Waters 🛛 Y 🔲 N 🖾 📗 Taken					s) Y	′ □ N		
Associated Data	asheet(s)													
Summary of Aq		Тур	e of Jurisdiction	al Water			На	Habitat Description ³					eated within e Footprint⁴	Impact Tier ⁵
Habitats (Water U.S. and State)			Nonwetland W	/aters				V/E				0.	.001	II
,				_						TOTA	L 0.001			
Section II.b. St	ummary of (CDFW	/ Waters of th	ne State	e Only	Withir	the N	laintenan	ce Fa	cility				
CDFW 1600 Jurisdiction Bey USACE Waters		Y	⊠ N □	l C	DFW R	Regula	ted Ac	ivity			Y	⊠ N		
		Тур	e of Jurisdiction	nal Water	•		Ha	oitat Descrip	otion. ³				eated within e Footprint⁴	Impact Tier⁵
Summary of Ac Habitats (Wate			Channel Bank					V/E					.001	
State Only)			Channel Bank					V/E					.001	II
										TOTA	\L	0	.003	
Section II.c. S	ummary of	Veget	ation Commu	ınities	and Co	ver T	ypes V	Vithin and	d Adj	acent to	o the l	Maintena	nce Facility	
	Acres within Acres within Maintenance Footprint 100-Foot							6 Total			Dom	ninant/Si	gnificant Spe	ecies
Riparian and W							1		ı			· · · · · · · · · · · · · · · · · · ·	•	
Unvegetated					0.007 0.009									
Subtotal Riparian and Wetland 0.001					0.007			0.009						
Upland Diegan Coastal Sage Scrub 0.001					0.559			0.560 Ar		Artemisia californica, Eriogonum fasciculatum				
Diogail Codol	Subtotal Up	0.001		0.5			0.560				,			

City of Escondido Channel Maintenance RGP - Facility Summary

H-15 - Sierra Linda

Other Land Cover Types							
Urban/Developed	-	0.276	0.276				
Subtotal Other Land Cover Types	-	0.276	0.276				
GRAND TOTAL ⁶	0.003	0.843	0.845				

Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of	the Maintenance Facility ⁷							
Special status species observed during 2019	News								
field surveys within the Facility Buffer	None								
Threatened/Endangered species historically	N1/A								
known to occur within the Facility Buffer	N/A								
Threatened/Endangered species having									
Designated Critical Habitat within the Facility	Coastal California gnatcatcher (Polioptila californica califorica) (FT, SSC)								
Buffer	T: 1 111 11: 1/A /: (: /)	(05)							
Threatened/Endangered species historically	Tricolored blackbird (<i>Agelaius tricolor</i>) (
known to occur within 1.0 mile of the Facility Buffer	Coastal California gnatcatcher (<i>Poliopti</i> Least Bell's vireo (<i>Vireo bellii pusillus</i>) (
Dullel	Swainson's hawk (<i>Buteo swainsoni</i>) (
	Gwaii isoi i s flawk (Duteo swaii isoi i) (, 31)							
Other non-listed special status species									
historically known to occur within the Facility	None								
Buffer									
Other non-listed special status species	Southern tarplant (Centromadia parryi s								
historically known to occur within 1.0 mile of	Smooth tarplant (Centromadia pungens	s ssp. laevis) (CRPR 1B.1)							
the Facility Buffer	Decumbent goldenbush (Isocoma men.								
•	Western spadefoot (Spea hammondii)								
	Orange-throated whiptail (Aspodpscelis								
	Southern rufous-crowned sparrow (Aim								
	Bell's sage sparrow (<i>Artemisiospiza be</i> Coastal cactus wren (<i>Campylorhynchus</i>								
	San Diego black-tailed jackrabbit (<i>Lepu</i>								
	San Diego woodrat (<i>Neotoma lepida in</i>								
	San Diego woodrat (Neotoma lepida III	lermedia) (330)							
	V □ If Yes, for								
Are species surveys recommended?	Y N what species?	Coastal California gnatcatcher year-round							
Will work occur in the breeding season (Feb-Au	gust)?	Y N N							
	5 ,								
		1							

PART III. ADDITIONAL NOTES/COMMENTS

Ephemeral channel starts from and outlet structure. Channel bottom is unvegetated while the banks and surrounding habitat is dominated by coastal sage scrub. Approximately 50 feet downstream of the outfall structure the channel forms a large gully as it travels

- ${\bf 1.}$ Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing W. Channel in Diegan Coastal Sage Scrub



Representative Photograph 2. Facing E. Blocked outfall



Representative Photograph 3. Facing E. Headcut in channel approximately 50 feet downstream.

				PAR	T I. N	/IAINTE	ENANCE	FA	CILITY IN	FOF	RMATION				
Facility Name	Concerto ai	nd Beethoven						Facility ID		H-16					
Location	Concerto G	len ar	and Beethoven Drive												
Latitude ¹	33.064025	5	Longitu	Longitude ¹ -117.057497					Maintenance Frequency (years) Annually					у	
Maintenance F	acility Type		Outlet	•					Lining Typ	e E	arthen				
		Ren	nove acc	cumula	ted se	edimen	t and we	ed i	removal						
Activities out sediment to un				t will be staged on the street or disturbed areas and backhoe or excavator will be used to scoop ent to unclog outlet and create pilot channel. ng of equipment along banks and no equipment in channel.											
Will work occur	when wate	r is in	the char	inel?		Y ⋈ N ☐ If Yes, will dewatering or water diversion be needed?							I 🗆		
					F	PART II	. SURVE	ΕΥΙ	NFORMA	1017	N			_	
Surveyors	William Koh	n and	Ryan L	ayden							Date of Su	urvey		2/27/2019	
Was water in the survey?	ne channel a	t the t	time of th	ne		Υ [N	\boxtimes	Hydro	logy	Type ²	P 🗌 I		E 🛚	o 🗆
Nearest Name	d Waterbody	Sar	n Dieguit	to Rive	r				NWI II	ndex	Freshwate	r Forested	l/Shru	ıb Wetland	
NRCS Soils C	ieneba coar	se sa	ndy loan	n, 15 to	30 p	ercent	slopes								
Section II.a. Summary of USACE/RWQCB/CDFW Waters of the U.S. and State Within the Maintenance Facility															
USACE 404/RWQCB 401 Jurisdiction					Y N USACE 404 Regulate										
USACE Nonwetland Wa Present	aters	ΥΣ	∆ N		USACE Wetland Waters Present Waters Wetland Waters Y N Datapo					ooint(s) Y N D					
Associated Dat	asheet(s)		Wetla	nd San	Sample Point 1.1										
O f A	4: -	Туре	of Jurisdic	tional W	ater	Habitat Description. ³				Acres Delinea Maintenance			Impact Tier⁵		
Summary of Ac Habitats (Wate		Nonv	Nonwetland Waters				V/E				0.003			I	
U.S. and State))								TOTAL			L 0.003			
Section II h S	ummary of	CDE	N Water	s of th	a Sta	ete Onl	v Within	the	Mainten	ance	e Facility				
CDFW 1600 Jurisdiction Bey USACE Waters	yond			N 🗆		State Only Within the Maintenance Facility CDFW Regulated Activity					Y 🛭 N 🗆				
Summary of A	guetie	Туре	of Jurisdictional Water					Habitat Description. ³				Acres I Mainte	Impact Tier⁵		
Summary of Ad Habitats (Wate		Ripar	ian Exte	nt			V/E						0.00	•	1
State Only)											TOTAL		0.00)5	
Section II.c. S	ummary of	Vege	tation C	ommu	nitie	s and (Cover Ty	/pes	s Within a	nd A	Adjacent to	the Maint	tenan	ce Facility	
Vegetation C	communitie	e and			Acres within Study Area ⁶										
	er Types	s allu	Mai	ntenan ootprin		100-Fo	00-Foot Buffer		Total			Dominant/Significant Species			
Riparian and W				0.000			101		0.199						
Southern Rips		Hond		0.009							Acacia				
Subtotal Ripa Upland	nan and We	uand		0.009		0	.191		0.199						
Diegan Coastal Sage Scrub				-		0	.422		0.422		Artemisia	californica	a, Erio	ogonum faso	ciculatum

City of Escondido Channel Maintenance RGP – Facility Summary

H-16 - Concerto and Beethoven

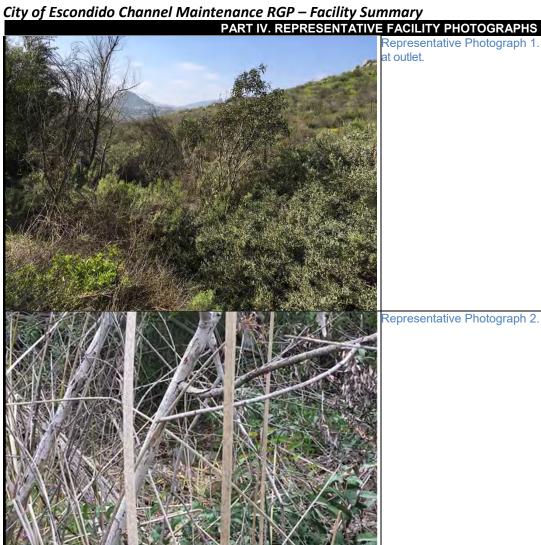
city of Escondido chamici ina	micendince mo	acinty san		TI 10 Concerto una Decimoven
Subtotal Upland	-	0.422	0.422	
Other Land Cover Types				
Urban/Developed	-	0.532	0.532	N/A
Subtotal Other Land Cover Types	-	0.532	0.532	
GRAND TOTAL ⁶	0.009	1.145	1.154	

Section II.d. Threatened/Endangered/Special	Status Species With	in the Vicinity of	the Maintenance Facility ⁷						
Special status species observed during 2019	None								
field surveys within the Facility Buffer	None	NOTE							
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A								
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None								
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	San Diego ambrosia (<i>Ambrosia pumila</i>) (FE,, CRPR 1B.1) Tricolored blackbird (<i>Agelaius tricolor</i>) (, CE) Coastal California gnatcatcher (<i>Polioptila californica califorica</i>) (FT, SSC) Least Bell's vireo (<i>Vireo bellii pusillus</i>) (FE, SE) Swainson's hawk (<i>Buteo swainsoni</i>) (, ST)								
Other non-listed special status species historically known to occur within the Facility Buffer	None								
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant (Ce Western spadefoot (S Orange-throated whip Southern California ru Bell's sage sparrow (A Coastal cactus wren (San Diego desert woo	entromadia parryi s Spea hammondii) (Stail (Aspodpscelis Ifous-crowned spa Artemisiospiza be (Campylorhynchus odrat (Neotoma le	s hyperythra) (SSC) arrow (Aimophila ruficeps canescens) (WL)						
Are species surveys recommended?	Y 🛭 N 🗆	If Yes, for what species?	Coastal California gnatcatcher year-round and San Diego Ambrosia						
Will work occur in the breeding season (Feb-Au	gust)?		Y 🛭 N 🗌						

PART III. ADDITIONAL NOTES/COMMENTS

Channel begins at outfall structure and runs south. Directly downstream of outfall there are *Salix lasiolepis* and *Scirpus californicus*, a wetland sample point was taken in this location and confirmed that the area did not meet the criteria for wetlands. The majority of this channel is unvegetated within the channel bottom and support sage and acacia along the banks.

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- **4.** Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing S. Channel within riparian scrub at outlet.

Representative Photograph 2. Facing N. Outfall

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: City of Escondido Channel Maintenance R	GP	City/Count	y:Escondid	o/San Diego	Sam	npling Date: 2/	/27/2019	9
Applicant/Owner: City of Escondido				State:CA	Sam	pling Point:H	-16 WS	P 1.1
Investigator(s): William Kohn; Ryan Layden		Section, To	ownship, Ra	nge:		_		
Landform (hillslope, terrace, etc.): Drainage		Local relie	ef (concave,	convex, none):concav	ve	Slop	oe (%):2	
Subregion (LRR).C - Mediterranean California	Lat: 33.	064028		Long:-117.057507		 Datur	n:	
Soil Map Unit Name: Cieneba coarse sandy loam, 15 to 3	0 percer	nt slopes,	eroded	NWI class	sification	:N/A		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No ((If no, explain i	n Remar	ks.)		
Are Vegetation Soil or Hydrology sig	nificantly	disturbed?	Are "	Normal Circumstance	s" prese	nt? Yes 💿	No	\circ
Are Vegetation Soil or Hydrology na	turally pro	oblematic?	(If ne	eded, explain any ans	wers in	Remarks.)		
SUMMARY OF FINDINGS - Attach site map sh	nowing	samplin	g point lo	ocations, transec	ts, imp	ortant fea	atures,	etc.
Hydrophytic Vegetation Present? Yes (No								
	•	ls t	he Sampled	Area				
Wetland Hydrology Present? Yes No	•		hin a Wetlar		\circ	No 💿		
Remarks:Sample point taken near outfall structure wh	nere a mi							
				Č				
VEGETATION								
	Absolute	Dominant		Dominance Test w	orkshee	t:		
	% Cover	Species?		Number of Dominan				
1.Salix laseolepis	25	Yes	FACW	That Are OBL, FAC	W, or FA	C: 3		(A)
2				Total Number of Do	minant			
3				Species Across All S	Strata:	5		(B)
4				Percent of Dominan	t Specie	S		
Sapling/Shrub Stratum Total Cover:	25 %			That Are OBL, FAC	W, or FA	C: 60.	0 % (A/B)
1.Baccharis salicifolia	20	Yes	FAC	Prevalence Index v	vorkshe	et:		
2.Malosma laurina	10	Yes	Not Listed	Total % Cover of	of:	Multiply	/ by:	
3.				OBL species	5	x 1 =	5	
4.				FACW species	25	x 2 =	50	
5				FAC species	20	x 3 =	60	
Total Cover:	30 %			FACU species	5	x 4 =	20	
Herb Stratum	_	**		UPL species	10	x 5 =	50	
1. Scirpus californica	5	Yes	OBL	Column Totals:	65	(A)	185	(B)
2				Prevalence Inc	dex = B/	Α =	2.85	
3				Hydrophytic Veget			2.03	
5.				X Dominance Tes				
6.				× Prevalence Inde				
7.				Morphological A			supportir	ng
8.				<u> </u>		n a separate	,	
Total Cover:	5 %			Problematic Hy	drophytic	C Vegetation ¹	(Explain))
Woody Vine Stratum	J %							
1. Toxicodendron diversiloba	5	Yes	FACU	¹ Indicators of hydric be present.	soil and	d wetland hyd	drology n	nust
2								
Total Cover:	5 %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 55 % % Cover of	of Biotic C	Crust	%		Yes •	No 🖯		
Remarks: Area is dominated with wetland vegetation	. Vegeta	ation chan	ges to upla	nd vegetation as dra	inage f	lows downs	tream.	
	5	,	_ 1	<u> </u>	J			

Sampling Point: H-16 WS

SOIL

	Matrix		Pode	ox Features			the absence of in	•
Depth (inches)	Color (moist)	%	Color (moist)		ype ¹	Loc ²	Texture	Remarks
0-12	10-YR 2/1	100 N	T/A				Loamy/Clay	
			, , , ,					
¹ Type: C=C	Concentration, D=Dep	letion, RM=F	Reduced Matrix, C	S=Covered or	Coated S	Sand Gra	ains. ² Location	: PL=Pore Lining, M=Matrix.
	Indicators: (Applicabl	*	· · ·					oblematic Hydric Soils:
Histoso		ic to all Living	Sandy Red	•				(A9) (LRR C)
	Epipedon (A2)		Stripped M	,				(A10) (LRR B)
	Histic (A3)			cky Mineral (F	1)		Reduced Ve	
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix (F2	2)		Red Parent	Material (TF2)
	ed Layers (A5) (LRR C	()	Depleted N	, ,			Other (Expl	ain in Remarks)
	luck (A9) (LRR D)			k Surface (F6)				
	ed Below Dark Surface	e (A11)		Dark Surface (F			3	
	Dark Surface (A12)			oressions (F8)				drophytic vegetation and
\square	Mucky Mineral (S1)		Vernal Poo	ols (F9)				ogy must be present,
	Gleyed Matrix (S4)						uniess disturbe	ed or problematic.
	Layer (if present): ocky bottom							
	<u> </u>						Undria Cail Drea	ent? Yes No 💿
. ,	nches):12 inches	~ .					Hydric Soil Pres	ent? Yes No No area for long durations. May
IVDDOL 6	204							
Wetland Hy	ydrology Indicators:							
Wetland Hy Primary Indi	ydrology Indicators: icators (any one indica	ator is suffici	,	(04)				Indicators (2 or more required)
Wetland Hy Primary Indi Surface	ydrology Indicators: icators (any one indicate water (A1)	ator is suffici	Salt Crus	,			Water	Marks (B1) (Riverine)
Wetland Hy Primary Indi Surface High W	ydrology Indicators: icators (any one indicate water (A1) dater Table (A2)	ator is suffici	Salt Crus	ust (B12)	240)		Water Sedim	Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Wetland Hy Primary Indi Surface High W Saturati	ydrology Indicators: icators (any one indicate water (A1) vater Table (A2) tion (A3)		Salt Crus Biotic Cru Aquatic I	ust (B12) nvertebrates (E			Water Sedim Drift D	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine)
Wetland Hy Primary Indi Surface High W. Saturati Water M	ydrology Indicators: icators (any one indicate water (A1) vater Table (A2) icion (A3) Marks (B1) (Nonriveri	ine)	Salt Crus Biotic Cru Aquatic II Hydroger	ust (B12) nvertebrates (E n Sulfide Odor	(C1)		Water Sedim X Drift D Draina	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10)
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime	ydrology Indicators: icators (any one indicate water (A1) /ater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor	ine) nriverine)	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized	ust (B12) nvertebrates (En Sulfide Odor Rhizospheres	(C1) along Liv	ing Root	Water Sedim X Drift D Draina ts (C3) Dry-Se	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2)
Wetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De	ydrology Indicators: icators (any one indicate water (A1) dater Table (A2) cion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri	ine) nriverine)	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence	ust (B12) nvertebrates (En Sulfide Odor Rhizospheres e of Reduced Ir	(C1) along Liv ron (C4)	ring Roof	Water Sedim X Drift D Draina ts (C3) Dry-Se	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8)
Wetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De Surface	ydrology Indicators: icators (any one indicate water (A1) fater Table (A2) cion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri es Soil Cracks (B6)	ine) nriverine) :ine)	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence	ust (B12) nvertebrates (E n Sulfide Odor Rhizospheres e of Reduced Ir k Surface (C7)	(C1) along Liv ron (C4)		Water Sedim X Drift D Draina ts (C3) Dry-Se Crayfis Satura	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De Surface Inundat	ydrology Indicators: icators (any one indicate Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonriverie ent Deposits (B2) (Nonriverie es Soil Cracks (B6) tion Visible on Aerial In	ine) nriverine) :ine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc	ust (B12) nvertebrates (E n Sulfide Odor Rhizospheres e of Reduced Ir k Surface (C7) on Reduction i	(C1) along Liv ron (C4)) in Plowed		Water Sedim X Drift D Draina ts (C3) Dry-Se Crayfis Satura C6) Shallo	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)
Wetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De Surface Inundat Water-S	ydrology Indicators: icators (any one indicate Water (A1) Vater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9)	ine) nriverine) :ine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc	ust (B12) nvertebrates (E n Sulfide Odor Rhizospheres e of Reduced Ir k Surface (C7)	(C1) along Liv ron (C4)) in Plowed		Water Sedim X Drift D Draina ts (C3) Dry-Se Crayfis Satura C6) Shallo	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
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Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Surface Inundat Water-S Field Obset Surface Water	ydrology Indicators: icators (any one indicate Water (A1) Yater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nonriveri eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: tter Present?	ine) nriverine) rine) magery (B7) es	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Recent Ir Other (Ex	ust (B12) nvertebrates (E n Sulfide Odor Rhizospheres e of Reduced Ir k Surface (C7) on Reduction i kplain in Rema	(C1) along Liv ron (C4)) in Plowed		Water Sedim X Drift D Draina ts (C3) Dry-Se Crayfis Satura C6) Shallo	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)
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Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	ydrology Indicators: icators (any one indicate Water (A1) Vater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ater Present? You	ine) nriverine) rine) magery (B7) es	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Recent Ir Other (Ex	ust (B12) nvertebrates (E n Sulfide Odor Rhizospheres e of Reduced Ir k Surface (C7) on Reduction i kplain in Rema nches): nches):	(C1) along Liv ron (C4)) in Plowed irks)	Soils (C	Water Sedim Drift D Draina ts (C3) Crayfis Satura C6) FAC-N And Hydrology Pre	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) ition (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nonriveri ent Office (B3) (Nonriveri ent Office (B4) ition Visible on Aerial II Stained Leaves (B9) rvations: ter Present? Present? Present? pullary fringe)	ine) nriverine) rine) magery (B7) es	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Recent Ir Other (Ex	ust (B12) nvertebrates (E n Sulfide Odor Rhizospheres e of Reduced Ir k Surface (C7) on Reduction i kplain in Rema nches): nches):	(C1) along Liv ron (C4)) in Plowed irks)	Soils (C	Water Sedim Drift D Draina ts (C3) Crayfis Satura C6) FAC-N And Hydrology Pre	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
Wetland Hy Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial II Stained Leaves (B9) rvations: ater Present? Present? Present? Apillary fringe) ecorded Data (stream	ine) nriverine) rine) magery (B7) es	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Recent Ir Other (Ex	ust (B12) nvertebrates (E n Sulfide Odor Rhizospheres of Reduced Ir k Surface (C7) on Reduction i kplain in Rema nches): nches):	(C1) along Liv ron (C4)) in Plowed irks) pus inspe	Soils (C	Water Sedim Draina ts (C3) Dry-Se Crayfis Satura Shallo FAC-N And Hydrology Pre	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
Wetland Hy Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) ition (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nonriveri ent Office (B3) (Nonriveri ent Office (B4) ition Visible on Aerial II Stained Leaves (B9) rvations: ter Present? Present? Present? pullary fringe)	ine) nriverine) rine) magery (B7) es	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Recent Ir Other (Ex	ust (B12) nvertebrates (E n Sulfide Odor Rhizospheres of Reduced Ir k Surface (C7) on Reduction i kplain in Rema nches): nches):	(C1) along Liv ron (C4)) in Plowed irks) pus inspe	Soils (C	Water Sedim Draina ts (C3) Dry-Se Crayfis Satura Shallo FAC-N And Hydrology Pre	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
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Wetland Hy Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) icion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial II Stained Leaves (B9) rvations: ater Present? Present? Present? Apillary fringe) ecorded Data (stream	ine) nriverine) rine) magery (B7) es	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc Recent Ir Other (Ex	ust (B12) nvertebrates (E n Sulfide Odor Rhizospheres of Reduced Ir k Surface (C7) on Reduction i kplain in Rema nches): nches):	(C1) along Liv ron (C4)) in Plowed irks) pus inspe	Soils (C	Water Sedim Draina ts (C3) Dry-Se Crayfis Satura Shallo FAC-N And Hydrology Pre	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
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				PAR	T I. N	//AINTE	NANC	ΕF	ACI	LITY INF	ORI	MATIC	ON					
Facility Name	Bear Va	alley Pl	ey Pkwy					Fac	cility ID	Н	H-17							
Location	Bear Va	alley Pa	arkwa	rkway								<u>.</u>						
Latitude ¹	33.07	0402	L	Longitude ¹ -117.060563				Ма	intenanc	e Fr	requer	ncy (ye	ears)			Annual	ly	
Maintenance F	acility T	уре	0	outlet					Lin	ing Type	Eai	ırthen						
		F	Remo	ve accumula	ted se	edimen	t and w	eed	l ren	noval								
Proposed Maintenance Activities Equipment will be stated out sediment to unclose No dragging of equipment will be stated to unclose the sediment to u				clog d	outlet.								e or exc	avator	will k	oe used	to scoop	
Will work occur	when v	water is	in th	e channel?		Y	Y ☑ N ☐ If Yes, will dewatering or water diversion be needed?						1 🗆					
					ŀ	PART II. SURVEY INFORMATION												
Surveyors	William	Kohn a	and R	Ryan Layden								Date	of Su	rvey		2/	27/2019)
Was water in the survey?	ne chani	nel at th	he tim	ne of the		Υ [N			Hydrolo	gy T	Type ²	Р		I 🖂	E		o 🗆
Nearest Named	d Water	body	San [Dieguito Rive	r					NWI Ind	lex	Fresh	water	Foreste	d/Shru	ıb W	etland	
NRCS Soils	amona	sandy l	loam,	, 2 to 5 perce	nt slo	pes			·			•						
Section II.a. S	ummar	y of US	SACE	/RWQCB/CL)FW	Waters	of the	U.S	S. ar	nd State	With	hin th	e Mai	ntenand	e Fac	ility		
USACE 404/R\	NOCB 4	401 .lur	isdict	ion	Υ	\boxtimes	N 🗆		LISA	CF 404 F	Seai	ulated	l Activ	itv	Υ		l N	\boxtimes
USACE 404/RWQCB 401 Jurisdiction					N ☐ USACE 404 Regulated A					Only Temporary diversion structures are regulated								
USACE Nonwe Waters Present		Υ		N 🗆		SACE Wetland Y N Datapoin Taken					٠,,	nt(s) Y 🛭 N 🗆						
Associated Dat	asheet((s)		Wetland Sar	nple	Point 1	.1 and	1.2.										
Summary of Aquatic Habitat	T	Type of J	urisdictional Water			Habi			itat D	escription.	3				Delinea			Impact Tier ⁵
(Waters of the		Wetla	etland Waters			V/E			V/E		70711			0.003			Ш	
and State)			SE147		e State Only Within the Maintenance Facility													
CDFW 1600	ummar	y of CL									ice	Facili	ty					
Jurisdiction Bey USACE Waters			Y	⊠ N □		CDFW Regulated Activity						Y 🛛 N 🗌						
Summary of		Type of J	urisdi	ctional Water		Habitat Description ³					Acres Delineated within Maintenance Footprint ⁴			Impact Tier⁵				
Aquatic Habitat (Waters of the	ts	Ripari	ian E	xtent	V/E								0.	0.003		II		
State Only)						TOTAL 0.003												
Section II.c. S	ummar	y of Ve	egeta	tion Commu	nitie	s and (Cover 1	γр	es V	ithin an	d Ad	djace	nt to	he Mair	ntenan	ice F	acility	
Vegetation C	ommur	nities a	nd		Acre	s with	in Stud	ly A	rea	1								
			Maintenan Footprin		100-Foot Buffer				Total		Dominant/Significant Species							
Riparian and W	/etland					1.70.031.24.101												
Emergent We	tland			-		0.	068			0.068		Aner	mopsi	s califori	nica, D	isticl	nlis spic	ata
Southern Arro	oyo Willo	ow Ripa	arian	-		0.711				0.711		Salix	Salix lasiolepis					
Subtotal Rina	rian and	d Motto	nd	0.01		0	81			0.82								

, -,									
Upland									
Non-native grassland	-	0.215	0.215						
Non-Native Woodland	0.013	0.030	0.043						
Subtotal Upland	-	0.21	0.21						
Other Land Cover Types									
Urban/Developed	-	0.677	0.677						
Subtotal Other Land Cover Types	-	0.68	0.68						
GRAND TOTAL ⁶	0.013	1.701	1.714						

Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of	the Maintenance Facility ⁷					
Special status species observed during 2019 field surveys within the Facility Buffer	None						
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A						
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None						
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	San Diego ambrosia (<i>Ambrosia pumila</i>) (FE,, CRPR 1B.1) Tricolored blackbird (Agelaius tricolor) (, CE) Coastal California gnatcatcher (<i>Polioptila californica califorica</i>) (FT, SSC) Least Bell's vireo (<i>Vireo bellii pusillus</i>) (FE, SE) Swainson's hawk (<i>Buteo swainsoni</i>) (, ST)						
Other non-listed special status species historically known to occur within the Facility Buffer	None						
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Decumbent goldenbush (<i>Isocoma mensiesii</i> var. <i>decumbens</i>) (CRPR 1B.2) Southern tarplant (<i>Centromadia parryi</i> ssp. <i>australis</i>) (CRPR 1B.1) Southern California rufous-crowned sparrow (<i>Aimophila ruficeps canescens</i>) (WL) Coastal cactus wren (<i>Campylorhynchus brunneicapillus sandiegensis</i>) (SSC) San Diego desert woodrat (<i>Neotoma lepida intermedia</i>) (SSC) San Diego black-tailed jackrabbit (<i>Lepus californicus bennettii</i>) (SSC)						
Are species surveys recommended?	Y N If Yes, for what species?	Least Bell's vireo during breeding season and San Diego Ambrosia					
Will work occur in the breeding season (Feb-Au	gust)?	Y 🛮 N 🗆					

PART III. ADDITIONAL NOTES/COMMENTS

The maintenance area is an outfall that drains into an unnamed tributary to Santa Ysabel Creek. The channel supports wetland habitat within the OHWM, wetlands are dominated by *Anemopsis californica*, *Scirpus californicus*, and *Salix lasiolepis*. No defined channel or wetland habitat occurs at the outfall structure; wetland sample point 1.2 was taken directly downstream of the outfall structure to confirm no wetlands occur within that area. Additionally, no shelving or OHWM indicators or swale feature occurs downstream of the outfall.

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- $\textbf{4.} \ Impact areas \ are \ subject \ to \ change \ based \ on \ agency \ recommendations \ and/or \ maintenance \ design \ changes.$
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Wetland sample point 1.1 within channel downstream of outfall.



Representative Photograph 2. Facing E. Wetland sample point 1.2 taken at outfall outlet area. No defined channel within this area. Maintenance area.



Representative Photograph 3. Facing E. Outfall

Project/Site: City of Escondido Channel Maintenance F	RGP	City/Count	y:Escondid	o/San Diego	Sampli	ing Date: 2/27	7/2019	
Applicant/Owner: City of Escondido				State:CA	Sampli	ing Point:H-1	7 WSP	1.1
Investigator(s): William Kohn; Ryan Layden		Section, To	ownship, Rai	nge:				
Landform (hillslope, terrace, etc.): Drainage		Local relie	ef (concave, o	convex, none):concav	ve .	Slope	(%):0	
Subregion (LRR):C - Mediterranean California	Lat: 33.	070441		Long:-117.060651		 Datum:		
Soil Map Unit Name: Ramona sandy loam, 2 to 5 percen	t slopes			NWI class	sification:N	/A		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No C	(If no, explain i	n Remarks	.)		
Are Vegetation Soil or Hydrology sign	gnificantly	disturbed?	Are "	Normal Circumstance	s" present?	? Yes 💿	No C)
Are Vegetation Soil or Hydrology na	aturally pro	oblematic?	(If ne	eded, explain any ans	wers in Re	emarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	samplin	g point lo	ocations, transec	ts, impo	rtant featu	ures, e	tc.
Hydrophytic Vegetation Present? Yes (No								
		ls t	he Sampled	Area				
			hin a Wetlan		No	o ()		
Remarks:Sample point taken within willow riparian h	nabitat ar	nd emerge	nt wetland	area.				
VEGETATION								
	Absolute % Cover	Dominant Species?		Dominance Test w				
1.Salix laseolepis	60	Yes	FACW	Number of Dominan That Are OBL, FAC		3	(A)	,
2.						3	(//)	'
3.				Total Number of Do Species Across All S		3	(B)	,
4.						3	(D)	'
Total Cover:	60 %			Percent of Dominan That Are OBL, FAC		100.0	% (A/	B)
Sapling/Shrub Stratum							70 (70)	
1				Prevalence Index v				
2.				Total % Cover of		Multiply b		
3				OBL species		x 1 = x 2 =	40 120	
4 5.				FACW species FAC species		x 2 = x 3 =	0	
Total Cover:	%			FACU species		x 4 =	0	
Herb Stratum	70			UPL species		x 5 =	0	
1.Scirpus californica	30	Yes	OBL	Column Totals:	100 ((A)		(B)
2-Anemopsis californica	10	Yes	OBL		_ ,	` ′		` /
3				Prevalence Inc			1.60	
4				Hydrophytic Veget		cators:		
5.				X Dominance TesX Prevalence Inde				
6				Morphological A		1 (Provide su	nnortina	
7						a separate sh		
8Total Cover:	40			Problematic Hy	drophytic V	egetation ¹ (E	xplain)	
Woody Vine Stratum	40 %							
1				¹ Indicators of hydric	soil and w	vetland hydro	ology mu	st
2				be present.				
Total Cover:	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 60 % % Cover	of Biotic C	Crust	%		Yes	No 🔘		
Remarks: Area is at the edge of riparian and emerger	nt wetlan	d habitat	dominated	ı by wetland vegetati	on.			\dashv

Sampling Point: H-17 WS

SOIL

		to the de	pth needed to docur			or confirn	n the absen	ce of indicat	ors.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹	Loc ²	Texture	į	Remar	·ks
0-5	10YR 3/1	100	N/A				Loamy/Clay	<u> </u>	Ttoma	No
	. ———									
5-16	10 YR 4/2	92	7.5 YR 4/5	8	<u>C</u>	<u>M</u>	Loamy/Clay			
¹ Type: C=C	Concentration, D=Dep	letion, RI	M=Reduced Matrix, CS	S=Cover	ed or Coate	ed Sand G	rains. ² L	ocation: PL=I	Pore Lining, M=	Matrix.
Hydric Soil	Indicators: (Applicab	le to all L	RRs, unless otherwise	noted.)			Indicator	s for Problen	natic Hydric Soi	ls:
Histoso			Sandy Redo	x (S5)				n Muck (A9) (•	
	pipedon (A2)		Stripped Ma					n Muck (A10)		
	listic (A3) en Sulfide (A4)		Loamy Muc				=	uced Vertic (Parent Mate		
	ed Layers (A5) (LRR (C)	Depleted M					er (Explain in	,	
	uck (A9) (LRR D)	,	Redox Dark					` '	,	
L ·	ed Below Dark Surfac	e (A11)	Depleted Da		, ,		2			
	Park Surface (A12)		Redox Dep		(F8)				ytic vegetation	and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pool	IS (F9)				i nydrology m disturbed or p	ust be present,	
	Layer (if present):						uniess	disturbed or p	Dioblematic.	
Type:	Layer (ii present).									
Depth (ir	nches):						Hydric Se	oil Present?	Yes (•)	No 🔘
· `		inahas	Area supports hydi	ria sails			,			
HYDROLO										
	drology Indicators:		· · · · · · · · · · · · · · · · · · ·				0			
	icators (any one indic	ator is su		(D44)			<u>Sec</u>	•	ators (2 or more s (B1) (Riverine	
	e Water (A1)		Salt Crust	. ,					, , ,	,
	ater Table (A2) ion (A3)		Biotic Crus Aquatic In		es (B13)		X		eposits (B2) (Ri ts (B3) (Riverin	
🖳	Marks (B1) (Nonriver	ine)	Hydrogen					Drainage Pa		e)
	ent Deposits (B2) (No				eres along	Living Roo	ots (C3)	_	Water Table (C	(2)
Drift De	posits (B3) (Nonrive	rine)	Presence	of Reduc	ed Iron (C	4)		Crayfish Bui	,	,
	Soil Cracks (B6)		Thin Muck	Surface	(C7)			Saturation V	isible on Aerial	Imagery (C9)
	ion Visible on Aerial I	magery (tion in Plov	ved Soils (C6)	Shallow Aqu	uitard (D3)	
	Stained Leaves (B9)		Other (Exp	olain in R	emarks)		X	FAC-Neutra	l Test (D5)	
Field Obse			N= 6 5 " "	-l \						
		es (No Depth (in	′ —		_				
Water Table		es 🔘	No Depth (in							
	pillary fringe)	es C gauge, r	No Depth (inconitoring well, aerial		revious ins			ogy Present?	? Yes •	No O
Remarks:Se	ediment and drift de	eposits 1	ocated throughout t	he chan	nel. Area	is flat an	d appears to	o pond when	n inundated.	
US Army Corr	s of Engineers									

Project/Site: City of Escondido Channel Maintenance I	RGP	City/County	Escondid:	o/San Diego	Sam	pling Date:2	/27/2019	9
Applicant/Owner: City of Escondido				State:CA	Sam	pling Point:H	-17 WS	SP 1.2
Investigator(s): William Kohn; Ryan Layden		Section, To	ownship, Ra	nge:		_		
Landform (hillslope, terrace, etc.): hillslope		Local relie	f (concave,	convex, none):conv	'ex	Slop	oe (%):2	
Subregion (LRR):C - Mediterranean California	Lat: 33.	070401		Long:-117.06059	98	 Datui	n:	
Soil Map Unit Name: Ramona sandy loam, 2 to 5 percen	t slopes			NWI cla	assification:	:N/A		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No ((If no, explain	n in Remar	ks.)		
Are Vegetation Soil or Hydrology si	gnificantly	disturbed?	Are '	'Normal Circumstan	ces" presei	nt? Yes 💿	No	\circ
Are Vegetation Soil or Hydrology na	aturally pro	oblematic?	(If ne	eeded, explain any a	nswers in f	Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	samplin	g point lo	ocations, transe	ects, imp	ortant fea	atures,	etc.
Hydrophytic Vegetation Present? Yes No	. (
		ls ti	he Sampled	l Area				
Wetland Hydrology Present? Yes No			nin a Wetlar		\bigcirc	No 💿		
Remarks:Sample point taken at outlet of the outfall s	tructure.	Located a	pproximate	ely 2 feet higher in	n elevation	n from 1.1.		
VEGETATION				,				
	Absolute % Cover	Dominant Species?		Dominance Test				
1.	70 00101	_орооюо.	Otatas	Number of Domin That Are OBL, FA			1	(A)
2.				-		0. 0	,	(,,)
3.				 Total Number of E Species Across A 		3		(B)
4.				-				-/
Total Cover	. %			 Percent of Domina That Are OBL, FA) % (A/B)
Sapling/Shrub Stratum	1.5	Van	D. 077	Prevalence Index				
1.Baccharis sarathoides 2.	15	Yes	FACU	Total % Cove		et: Multiply	, by:	
3.				OBL species	1 01.	x 1 =	0	
4.				FACW species		x 2 =	0	
5.				FAC species		x 3 =	0	
Total Cover:	15 %			FACU species	15	x 4 =	60	
Herb Stratum				UPL species	80	x 5 =	400	
1.Cynodon dactylon	75		Not Listed	Column Totals:	95	(A)	460	(B)
2. <u>Hirshfeldia incana</u>	5	Yes	Not Listed	Dravalanaa	Indox D/	Λ	1 0 1	
3.				Prevalence Hydrophytic Veg			4.84	
4				Dominance T				
5				Prevalence Ir				
6. 7.				Morphologica			supportir	na
8.						n a separate		.9
Total Cover:	90			Problematic H	-lydrophytic	Vegetation ¹	(Explain))
Woody Vine Stratum	80 %							
1				¹ Indicators of hyd be present.	ric soil and	d wetland hyd	drology n	nust
2				-				
Total Cover:	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 20 %	of Biotic C	Crust	%	Present?	Yes 🔘	No 🗨		
Remarks: Area is dominated by upland vegetation.								

Sampling Point: H-17 WS

SOIL

	Matrix		Ra	dox Features	3						
Depth (inches)	Color (moist)	%	Color (moist)	<u> %</u>	_Type ¹	Loc ²	Textu	re		Rema	arks
0-8	10YR 2/1	100	N/A				Loamy/Cla	ıv (dry soil	S	
								<u> </u>	<i>y</i>		
			-								
Type: C=C	oncentration, D=Dep	letion, RM	M=Reduced Matrix,	CS=Covered	d or Coate	d Sand Gr	rains.	Location	: PL=Po	re Lining, M	=Matrix.
Hydric Soil I	ndicators: (Applicab	le to all LF	RRs, unless otherw	se noted.)			Indicate	ors for P	roblemat	tic Hydric Sc	oils:
Histosol			Sandy Re					m Muck			
	pipedon (A2)		Stripped	Matrix (S6)			2 c	cm Muck	(A10) (L	RR B)	
	istic (A3)			ucky Minera				educed V			
	en Sulfide (A4)	2)		leyed Matrix	(F2)			ed Parent		` ,	
	d Layers (A5) (LRR (uck (A9) (LRR D)	•)		Matrix (F3) ark Surface ((F6)			her (Expl	ain in Re	emarks)	
	d Below Dark Surfac	e (A11)		Dark Surface							
	ark Surface (A12)	- ()		epressions (F	, ,		³ Indicat	tors of hy	/drophyti	ic vegetation	and
	Mucky Mineral (S1)		Vernal Po		,					t be present	
Sandy C	Sleyed Matrix (S4)						unless	s disturbe	ed or pro	blematic.	
Restrictive	Layer (if present):										
Type:Col	oble/Rock										
Depth (in	ches):8 inches						Hydric S	Soil Pres	sent?	Yes 🔘	No 💿
YDROLO											
Wetland Hy	drology Indicators:										
Wetland Hy	drology Indicators: cators (any one indic		<u> </u>				<u>Se</u>			ors (2 or moi	
Vetland Hy Primary India Surface	drology Indicators: cators (any one indic Water (A1)		Salt Cru	st (B11)				Water	Marks (I	B1) (Riverin	e)
Vetland Hy Primary India Surface High Wa	drology Indicators: cators (any one indic Water (A1) ater Table (A2)		Salt Cru Biotic C	rust (B12)	o (P12)		 	Water Sedim	Marks (Fi	B1) (Riverin osits (B2) (R	le) Riverine)
Vetland Hy Primary India Surface High Wa	drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3)	ator is suf	Salt Cru Biotic C Aquatic	rust (B12) Invertebrate				Water Sedim	Marks (Finent Deposits (B1) (Riverinosits (B2) (Riverinosits (B3) (Riverinosits)	le) Riverine)
Vetland Hy Primary India Surface High Wa Saturati Water M	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriver	ator is suf	Salt Cru Biotic C Aquatic Hydroge	rust (B12) Invertebrate en Sulfide Od	dor (C1)	Living Roo	×	Water Sedim Drift D	Marks (I lent Depo leposits (age Patte	B1) (Riverinosits (B2) (R (B3) (Riverinerns (B10)	civerine)
Vetland Hy Primary India Surface High Wa Saturati Water M Sedimer	drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver nt Deposits (B2) (No	ator is suf ine) nriverine)	Salt Cru Biotic C Aquatic Hydroge Oxidize	rust (B12) Invertebrate en Sulfide Od d Rhizosphe	dor (C1) res along l	•	×	Water Sedim Drift D Draina Dry-Se	Marks (Interpretation of Marks (Interpretation	B1) (Riverin osits (B2) (R (B3) (Riverin erns (B10) dater Table (civerine)
Vetland Hy Primary India Surface High Wa Saturati Water M Sedimen Drift De	drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriver ont Deposits (B2) (No posits (B3) (Nonrive	ator is suf ine) nriverine)	Salt Cru Biotic C Aquatic Hydroge Oxidized Presence	rust (B12) Invertebrate en Sulfide Oc d Rhizosphe ee of Reduce	dor (C1) res along l ed Iron (C4	•	×	Water Sedim Drift D Draina Dry-Se Crayfi	Marks (Bent Deposits (Page Patterson Windows)	B1) (Riverin osits (B2) (R (B3) (Riverin erns (B10) /ater Table (ws (C8)	civerine) ne)
Vetland Hy Primary India Surface High Wa Saturati Water M Sedimed Drift Del Surface	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6)	ator is suf ine) nriverine) rine)	Salt Cru Biotic C Aquatic Hydroge Oxidize Presenc	rust (B12) Invertebrate en Sulfide Od d Rhizosphe	dor (C1) res along l ed Iron (C4 (C7)	.)	ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfi	Marks (Bent Deposits (age Patte eason Wash Burron attion Visi	B1) (Riverinosits (B2) (Riverinosits (B10)) (Ater Table (Ws (C8)) (B)	civerine) ne)
Primary India Surface High Wa Saturati Water N Sedimel Drift Del Surface Inundati	drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriver ont Deposits (B2) (No posits (B3) (Nonrive	ator is suf ine) nriverine) rine)	Salt Cru Biotic C Aquatic Hydroge Oxidize Presence Thin Mu B7) Recent	rust (B12) Invertebrate en Sulfide Od d Rhizosphe ee of Reduce ck Surface (dor (C1) res along led Iron (C4 C7) on in Plow	.)	ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfi Satura	Marks (Bent Deposits (Page Patterson Windows)	B1) (Riverinosits (B2) (Riverinosits (B10)) (Atter Table (Was (C8)) (B) (C8) (B) (C8) (B) (C8) (B) (C9)	civerine) ne)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedimen Drift De Surface Inundati Water-S	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial (stained Leaves (B9)	ator is suf ine) nriverine) rine)	Salt Cru Biotic C Aquatic Hydroge Oxidize Presence Thin Mu B7) Recent	rust (B12) Invertebrate en Sulfide Oc d Rhizosphe e of Reduce ck Surface (Iron Reduction	dor (C1) res along led Iron (C4 C7) on in Plow	.)	ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfi Satura	Marks (Bent Deposits (age Patte eason Wash Burronation Visiow Aquita	B1) (Riverinosits (B2) (Riverinosits (B10)) (Atter Table (Was (C8)) (B) (C8) (B) (C8) (B) (C8) (B) (C9)	civerine) ne)
Primary India Surface High Wa Saturati Water M Sedimer Drift Der Surface Inundati Water-S Field Obser	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial I stained Leaves (B9) vations:	ator is suf ine) nriverine) rine)	Salt Cru Biotic C Aquatic Hydroge Oxidize Presenc Thin Mu Recent Other (E	rust (B12) Invertebrate en Sulfide Oc d Rhizosphe e of Reduce ck Surface (Iron Reduction	dor (C1) res along led Iron (C4 C7) on in Plow	.)	ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfi Satura	Marks (Bent Deposits (age Patte eason Wash Burronation Visiow Aquita	B1) (Riverinosits (B2) (Riverinosits (B10)) (Atter Table (Was (C8)) (B) (C8) (B) (C8) (B) (C8) (B) (C9)	e) Riverine) ne)
Primary India Surface High Wa Saturati Water N Sedimee Drift Dee Surface Inundati Water-S Field Obser	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial Instance Leaves (B9) vations: er Present?	ine) nriverine) rine) magery (E	Salt Cru Biotic C Aquatic Hydroge Oxidize Presenc Thin Mu B7) Recent Other (E	rust (B12) Invertebrate en Sulfide Oc d Rhizosphe ee of Reduce ck Surface (Iron Reduction	dor (C1) res along led Iron (C4 C7) on in Plow	.)	ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfi Satura	Marks (Bent Deposits (age Patte eason Wash Burronation Visiow Aquita	B1) (Riverinosits (B2) (Riverinosits (B10)) (Atter Table (Was (C8)) (B) (C8) (B) (C8) (B) (C8) (B) (C9)	civerine) ne)
Primary India Surface High Wa Saturati Water N Sedimee Drift De Surface Inundati Water-S Field Obser Surface Water Table Saturation P includes cal	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial I stained Leaves (B9) vations: er Present? Present? Y resent? Y resent? Y	ine) nriverine) magery (E	Salt Cru Biotic C Aquatic Hydroge Oxidize Presend Thin Mu B7) Recent Other (E No Depth No Depth No Depth	rust (B12) Invertebrate en Sulfide Oct Reduce ck Surface (Iron Reduction Red	dor (C1) res along l ed Iron (C4 (C7) on in Plow emarks)	ed Soils (ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfi: Satura Shallo FAC-N	Marks (I ent Depo eposits (age Patte eason W sh Burro ation Visi w Aquita Neutral T	B1) (Riverinosits (B2) (Riverinosits (B2) (Riverinosits (B10)) (Atter Table (Ws (C8))) (B10) (B1	civerine) ne)
Primary India Surface High Wa Saturati Water M Sedimel Drift Del Surface Inundati Water-S Field Obser Surface Water Water Table Saturation P (includes cal	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial I stained Leaves (B9) vations: er Present? Present? Y resent?	ine) nriverine) magery (E	Salt Cru Biotic C Aquatic Hydroge Oxidize Presend Thin Mu B7) Recent Other (E No Depth No Depth No Depth	rust (B12) Invertebrate en Sulfide Oct Reduce ck Surface (Iron Reduction Red	dor (C1) res along l ed Iron (C4 (C7) on in Plow emarks)	ed Soils (ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfi: Satura Shallo FAC-N	Marks (I ent Depo eposits (age Patte eason W sh Burro ation Visi w Aquita Neutral T	B1) (Riverinosits (B2) (Riverinosits (B2) (Riverinosits (B10)) (Atter Table (Ws (C8))) (B10) (B1	civerine) ne) C2) I Imagery (C9)
Primary India Surface High Wa Saturati Water M Sedimel Drift Del Surface Inundati Water-S Field Obser Surface Water Water Table Saturation P (includes cal	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial I stained Leaves (B9) vations: er Present? Present? Y resent? Y resent? Y	ine) nriverine) magery (E	Salt Cru Biotic C Aquatic Hydroge Oxidize Presend Thin Mu B7) Recent Other (E No Depth No Depth No Depth	rust (B12) Invertebrate en Sulfide Oct Reduce ck Surface (Iron Reduction Red	dor (C1) res along l ed Iron (C4 (C7) on in Plow emarks)	ed Soils (ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfi: Satura Shallo FAC-N	Marks (I ent Depo eposits (age Patte eason W sh Burro ation Visi w Aquita Neutral T	B1) (Riverinosits (B2) (Riverinosits (B2) (Riverinosits (B10)) (Atter Table (Ws (C8))) (B10) (B1	civerine) ne) C2) I Imagery (C9)
Primary India Surface High Wa Saturati Water M Sedimel Drift Del Surface Inundati Water-S Field Obser Surface Water Table Saturation P (includes cal Describe Re	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial I stained Leaves (B9) vations: er Present? Present? Y resent? Y resent? Y	ine) nriverine) magery (E	Salt Cru Biotic C Aquatic Hydroge Oxidize Presenc Thin Mu B7) Recent Other (E No Depth No Depth No Depth No Depth nonitoring well, aeric	rust (B12) Invertebrate en Sulfide Oct d Rhizosphere of Reduce ck Surface (Iron Reduction explain in Re (inches): (inches): d photos, pro the area is	dor (C1) res along l ed Iron (C4 C7) on in Plow emarks) evious insp	wetlepections),	ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfii Satura Shallo FAC-N	Marks (I lent Depo leposits (age Patte eason W sh Burro ation Visi w Aquita Neutral T	B1) (Riverinosits (B2) (Riverinosits (B2) (Riverinorns (B10) / Atter Table (ws (C8) / Atter (D3) / Est (D5)	No
Primary India Surface High Wa Saturati Water M Sedimel Drift Del Surface Inundati Water-S Field Obser Surface Water Table Saturation P (includes cal Describe Re	drology Indicators: cators (any one indicators (any one indicators) water (A1) ater Table (A2) on (A3) darks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial I stained Leaves (B9) vations: er Present? Present? Y resent? Y resent? y corded Data (stream	ine) nriverine) magery (E	Salt Cru Biotic C Aquatic Hydroge Oxidize Presenc Thin Mu B7) Recent Other (E No Depth No Depth No Depth No Depth nonitoring well, aeric	rust (B12) Invertebrate en Sulfide Oct d Rhizosphere of Reduce ck Surface (Iron Reduction explain in Re (inches): (inches): d photos, pro the area is	dor (C1) res along l ed Iron (C4 C7) on in Plow emarks) evious insp	wetlepections),	ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfii Satura Shallo FAC-N	Marks (I lent Depo leposits (age Patte eason W sh Burro ation Visi w Aquita Neutral T	B1) (Riverinosits (B2) (Riverinosits (B2) (Riverinorns (B10) / Atter Table (ws (C8) / Atter (D3) / Est (D5)	No
Primary India Surface High Wa Saturati Water M Sedimel Drift Del Surface Inundati Water-S Field Obser Surface Water Table Saturation P (includes cal Describe Re	drology Indicators: cators (any one indicators (any one indicators) water (A1) ater Table (A2) on (A3) darks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial I stained Leaves (B9) vations: er Present? Present? Y resent? Y resent? y corded Data (stream	ine) nriverine) magery (E	Salt Cru Biotic C Aquatic Hydroge Oxidize Presenc Thin Mu B7) Recent Other (E No Depth No Depth No Depth No Depth nonitoring well, aeric	rust (B12) Invertebrate en Sulfide Oct d Rhizosphere of Reduce ck Surface (Iron Reduction explain in Re (inches): (inches): d photos, pro the area is	dor (C1) res along l ed Iron (C4 C7) on in Plow emarks) evious insp	wetlepections),	ots (C3)	Water Sedim Drift D Draina Dry-Se Crayfii Satura Shallo FAC-N	Marks (I lent Depo leposits (age Patte eason W sh Burro ation Visi w Aquita Neutral T	B1) (Riverinosits (B2) (Riverinosits (B2) (Riverinorns (B10) / Atter Table (ws (C8) / Atter (D3) / Est (D5)	No

				PART	I. MAI	NTE	NANC	E F/	ACIL	ITY IN	FORI	MATIC	N									
Facility Name	Kit Car	rson Bike	e Trail						Faci	lity ID	Н	I-18										
Location	Beetho	oven Driv	ve							-				- !								
Latitude ¹	33.07	4552	Longitu	de ¹ -	117.06	6806	3		Mair	itenan	ce Fr	equen	су (yea	rs)				Annua	ally		
Maintenance Fa	acility T	Гуре	Channe	el					Linin	ıg Type	e Co	ncrete)									
Proposed Main Activities	tenanc	e Eq A b	move accupation of cuipment/tepobcat will inporary sp	oncrete is mporary drive to tl	s broke spoil p he dov	en a oiles vnstr	nd requ	iires on tr	repa	airs. sturbe	d are	as.			ısh ad	ccum	nulat	ed s	edime	ent (upstr	eam to
Will work occur	when	water is	in the char	nnel?	Y	\boxtimes	N					will de on be i				wate	er \	Y	\boxtimes	N		
					PAF	RT II.	. SURV	ΈΥ	INFC	RMAT	ΓΙΟΝ											
Surveyors	William	n Kohn a	nd Lanika	Cervante	:S							Date	of S	Surv	еу			2/2	6/201	9		
Was water in the survey?	ne chan	nnel at th	e time of th	ne	Y] N	\boxtimes	1	Hydrol	ogy T	ype ²		Р		ı		Е	\boxtimes	0		
Nearest Named	d Water	rbody	San Dieguit	to River					1	NWI In	dex	Riverir	ne									
NRCS Soils	amona	sandy l	oam, 2 to 5	percent	slopes	S																
Section II.a. St	ummar	ry of US	ACE/RWG	CB/CDF	W Wa	ters	of the	U.S	. and	State	With	hin the	е М	aint	enan	ce F	acili	ity				
USACE 404/RV				Υ			N 🗆					ulated					Y Only	☐ / Ter	N npora	ry c		
USACE Nonwe		Y	⊠ N		JSACE Vaters			Y	′ [] N	\boxtimes		ata ake		nt(s)		Y	\boxtimes	N			
Associated Dat	asheet	(s)	Wetla	ind Samp	le Poi	nt 1.	1 and 1	1.2														
Summary of	-	Type of Ju	urisdictional \	Water				Habi	tat De	scriptio	n ³							ed wi			Impac	ct Tier ⁵
Aquatic Habitat		Wetland	Waters						V/	С							.020				-	II
(Waters of the I and State)	U.S. -	Nonwetla	and Water	S					U/	С						0	.099)			ľ	V
ŕ												TO	TΑ	L		C).119	9				
Section II.b. So CDFW 1600 Jurisdiction Bey USACE Waters	yond	ry of CD		rs of the ≀			/ Withi				ance	Facilit	ty	Y	\boxtimes	1	N					
	-	Type of Ju	urisdictional	Water				Habi	tat De	scriptio	n ³							ted w Footp			Impa	ct Tier ⁵
Summary of Aquatic Habitat	ts	Riparian	Extent						V/	Έ						<	0.00)1				I
(Waters of the	<u> </u>	Riparian							V/	C							0.02					Ш
State Only)		Channel	Bank														0.16	9				
Coation II o C		wy of Vo	actation C	`ommuni	ition o	nd C	`avar T		o 14/a	thin a	nd A		AT		. Mai		0.18		oili4u	,		
Section II.c. S					Acre	s wi	thin St	udy		_	IIU A	ujacei	n to) un	e Ivial	nter	Iaiic	e ra	Cility			
	Type	S		Mainter Footp			100-Fo Buffe			Tota	I			Do	omina	ant/S	Sign	ifica	nt Sp	eci	es	
Riparian and W Coastal and Val			March				0.080	1		0.080	n	Typh	na o	lomi	ngen	sis						
					04	\vdash			\perp							OIO .						
Southern Arroyce Southern Willow			an Forest	<0.0		\vdash	0.079		+	0.099		Salix			•							

city of Escondido Chainlei Maint	chance no	Tucinty Juni	mar y	11-10 - Kit Carson Dike Trail
Mulefat Scrub	-	0.066	0.066	Baccharis salicifolia
Subtotal Riparian and Wetland	0.020	1.230	1.250	
Upland				
Diegan Coastal Sage Scrub	-	2.011	2.011	Eriogonum fasciculatum
Eucalyptus Woodland	-	0.315	0.315	Eucalyptus sp.
Non-native Grassland	-	1.199	1.199	
Subtotal Upland	-	3.524	3.524	
Other Land Cover Types				
Urban/Developed	0.185	1.402	1.588	
Disturbed Habitat	-	0.505	0.505	
Subtotal Other Land Cover Types	0.185	1.907	2.093	
GRAND TOTAL ⁶	0.206	6.662	6.868	

Section II.d. Threatened/Endangered/Specia	l Status Species With	nin the Vicinity of	the Maintenance Facility ⁷
Special status species observed during 2019 field surveys within the Facility Buffer	None		
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A		
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	Coastal California gr	natcatcher (<i>Poliopt</i> i	ila californica califorica) (FT, SSC)
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird	(Agelaius tricolor) (natcatcher (Poliopti reo bellii pusillus) (ila californica califorica) (FT, SSC) (FE, SE)
Other non-listed special status species historically known to occur within the Facility Buffer	None		
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant (C Decumbent goldenb Western spadefoot (entromadia parryi s ush (Isocoma men Spea hammondii)	cerrucosus) (CRPR 2B.2 ssp. australis) (CRPR 1B.1) ziesii var. decumbens) (CRPR 1B.2) (SSC) s brunneicapillus sandiegensis) (SSC)
Are species surveys recommended?	Y 🛛 N 🗆	If Yes, for what species?	Least Bell's vireo during breeding season, Coastal California gnatcatcher year-round and San Diego Ambrosia
Will work occur in the breeding season (Feb-Au	gust)?		Y 🛮 N 🗆

PART III. ADDITIONAL NOTES/COMMENTS

Channel is concrete-lined channel that flows along the bike trail and into a riparian area. As the concrete-lined channel enters the riparian habitat, small sections of the concrete has been undermined in both the channel bottom and a section of the western concrete bank has collapsed. Buffer area is within a large floodplain area that support small depressions, but is mostly dominated by higher floodplain habitat. Downstream portion of concrete channel is full of sediment, approximately 1-2 feet in depth.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- **3.** Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- **4.** Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing SE. Concrete-lined channel facing downstream



Representative Photograph 2. Facing NW. Concrete channel at upstream end as it flows under a pedestrian bridge crossing.



Representative Photograph 3. Facing NW. Portions of concrete is broken and in need of repairs.



Representative Photograph 4. Facing NW. Upland habitat immediately adjacent to concrete channel along the western portion of the buffer area.



Representative Photograph 5. Facing SE. Small depressional area supporting freshwater marsh north of the concrete channel. A berm separates this area from the concrete channel.



Representative Photograph 6. Facing E. Higher floodplain habitat located adjacent to the concrete channel at the eastern end the buffer area. Location of Wetland Sample Point 1.2

Project/Site: City of Escondido Channel N	Maintenance RG	P	City/Cou	unty:Escondid	lo/San Diego	Sam	pling Date: 2/	18/2019
Applicant/Owner: City of Escondido					State: CA	Sam	pling Point:H	-18 WSP 1.1
Investigator(s): Lanika Cervantes; William	Kohn		Section,	, Township, Ra	ange:			
Landform (hillslope, terrace, etc.): depression	1		Local re	elief (concave,	convex, none):none	e	Slop	e (%):0
Subregion (LRR):C - Mediterranean Califo	ornia L	at: 33.	073834		Long:-117.06558	38	 Datun	n:
Soil Map Unit Name: Chino silt loam, salin	e, 0 to 2 percent	slope	S		NWI cla	assification:	Freshwater	Forested/Shr
Are climatic / hydrologic conditions on the site	typical for this tim	e of ye	ar? Yes	No ((If no, explain	n in Remar	ks.)	
Are Vegetation Soil or Hydrolog	gy signif	ficantly	disturbe	d? Are	"Normal Circumstan	ces" preser	nt? Yes 💿	No 🔿
Are Vegetation Soil or Hydrological	-		oblematio		eeded, explain any a	nswers in F	Remarks.)	
SUMMARY OF FINDINGS - Attach								tures, etc.
	es (• No (•				·			· · ·
, , , , , , , , , , , , , , , , , , , ,	es No		ls	s the Sample	d Area			
Wetland Hydrology Present? Ye	es No			vithin a Wetla		•	No 🔘	
Remarks:Sample point taken near edge	of depression							
VEGETATION	Ahs	solute	Domina	ant Indicator	Dominance Test	workshee	t:	
Tree Stratum (Use scientific names.)			Species		Number of Domin			
1.Salix laseolepis		20	Yes	FACW	That Are OBL, FA	CW, or FA	C: 3	(A)
2.salix gooddingii		20	Yes	FACW	Total Number of D	Dominant		
3				<u> </u>	Species Across A	ll Strata:	3	(B)
4	Total Cover:	40 %			Percent of Domina			(A/D)
Sapling/Shrub Stratum	Total Cover.	40 /0			That Are OBL, FA			.() % (A/B)
1					Prevalence Index			
2					Total % Cove		Multiply	
3.					OBL species	60	x 1 =	60 80
4				 .	FACW species FAC species	40	x 2 = x 3 =	0
5	Total Cover:	%			FACU species		x 4 =	0
Herb Stratum	Total Gover.	/0			UPL species		x 5 =	0
1. Scirpus californica		60	Yes	OBL	Column Totals:	100	(A)	140 (B)
2					Prevalence	Index = B/	Α =	1.40
3.			-		Hydrophytic Veg			1.40
5.					X Dominance T			
6.					× Prevalence Ir			
7.					Morphologica			
8.					- data in Re - Problematic F		n a separate s	*
Mondy Vine Stratum	Total Cover:	60 %			Floblematic	iyaropriyud	vegetation	"Explaili)
Woody Vine Stratum 1.					¹ Indicators of hyd be present.	Iric soil and	l wetland hyd	rology must
2	Total Carre	0/			Hydrophytic			
0/ Page Convention Hart Circles 40	Total Cover:	% Diatia (S	0/	Vegetation	v- @		
% Bare Ground in Herb Stratum 40 % Remarks:	% Cover of E	Siotic C	rust	<u>%</u>	Present?	Yes •	No O	
Nomano.								

US Army Corps of Engineers

Sampling Point: H-18 WS

SOIL

Profile Des	cription: (Describe t	o the dept	h needed to docur	nent the	indicator	or confirm	the absence of i	ndicators.)
Depth (inches)	Matrix Color (moist)	 .	Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks
			Color (moist)		_ rype ·			
0-6	10-YR 3/2	100					Loamy/Clay	moist soils
6-12	10YR 4/3	_100					Sand	
¹ Type: C=C	Concentration, D=Depl	etion, RM=	Reduced Matrix, CS	S=Covere	d or Coate	 d Sand Gr	rains. ² Location	n: PL=Pore Lining, M=Matrix.
	Indicators: (Applicabl							Problematic Hydric Soils:
Histoso			Sandy Redo	,				(A9) (LRR C)
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck	(A10) (LRR B)
	listic (A3)		Loamy Muc					/ertic (F18)
	en Sulfide (A4)		Loamy Gley		(F2)		=	nt Material (TF2)
	ed Layers (A5) (LRR C	5)	Depleted M	` '	(FO)		Other (Exp	olain in Remarks)
	uck (A9) (LRR D) ed Below Dark Surface	(Δ11)	Redox Dark Depleted D		. ,			
L	Park Surface (A12)	(Д11)	Redox Dep		, ,		³ Indicators of h	ydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Pool		. 0)			logy must be present,
· —	Gleyed Matrix (S4)			,				ped or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (ir	nches):						Hydric Soil Pre	esent? Yes No
Remarks: N	lo redox observed h	owever h	ydrogen sulfide o	dor.				
HYDROLO	OGY							
Wetland Hy	drology Indicators:							
Primary Ind	icators (any one indica	ator is suffic	cient)				Secondar	y Indicators (2 or more required)
Surface	e Water (A1)		Salt Crust	(B11)			Wate	r Marks (B1) (Riverine)
High W	ater Table (A2)		Biotic Crus	st (B12)			Sedin	ment Deposits (B2) (Riverine)
★ Saturat	ion (A3)		Aquatic In	vertebrate	es (B13)		X Drift [Deposits (B3) (Riverine)
Water I	Marks (B1) (Nonriveri	ne)	★ Hydrogen	Sulfide O	dor (C1)		Drain	age Patterns (B10)
	ent Deposits (B2) (Nor		Oxidized F	Rhizosphe	res along	Living Roo	ots (C3) Dry-S	Season Water Table (C2)
1 ==	eposits (B3) (Nonriver	ine)	Presence		,	.)	Crayf	ish Burrows (C8)
	e Soil Cracks (B6)		Thin Muck					ation Visible on Aerial Imagery (C9)
1 ==	tion Visible on Aerial I	nagery (B7				ed Soils (0	, 🗀	ow Aquitard (D3)
	Stained Leaves (B9)		Other (Exp	plain in Re	emarks)		X FAC-	Neutral Test (D5)
Field Obse			In (C) Domath (in	ala a a\.				
		_	lo Depth (in		at arrefo as			
Water Table			lo Depth (in	′ —	at surface	_		
Saturation F (includes ca	Present? Year Present?	es 💿 🕦	lo Depth (in	ches):	at surface	Wetla	and Hydrology Pr	resent? Yes No
	ecorded Data (stream	gauge, mo	nitoring well, aerial	ohotos, pr	evious ins	pections),	if available:	
Remarks:se	veral hydrology inc	licators. a	berm separates tl	nis depre	ssion fro	n concret	te-lined channel.	
US Army Corr	os of Engineers							

Project/Site: City of Escondido Channel Maintenance R	RGP	City/Coun	ty:Escondid	o/San Diego	Sam	pling Date: 2/	18/2019	9
Applicant/Owner: City of Escondido				State:CA	Sam	pling Point:H-	-18 WS	SP 1.2
Investigator(s):Lanika Cervantes; William Kohn		Section, T	ownship, Ra	nge:				
Landform (hillslope, terrace, etc.): outerfloodplain		Local reli	ef (concave,	convex, none):conv	ex	Slop	e (%):1	
Subregion (LRR):C - Mediterranean California	_Lat: 33.	073856		Long:-117.06565	0	 Datum	1:	
Soil Map Unit Name: Chino silt loam, saline, 0 to 2 perce	ent slope	S		NWI cla	ssification	Freshwater	Foreste	d/Shrı
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes (• No ((If no, explair	in Remar	ks.)		
Are Vegetation Soil or Hydrology sig	gnificantly	disturbed	? Are '	'Normal Circumstand	es" presei	nt? Yes 💿	No (\circ
Are Vegetation Soil or Hydrology na	aturally pro	oblematic?	(If ne	eded, explain any a	nswers in f	Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	samplir	ng point lo	ocations, transe	cts, imp	ortant fea	tures,	etc.
Hydrophytic Vegetation Present? Yes (No								
	•	Ist	he Sampled	Area				
Wetland Hydrology Present? Yes No	•		hin a Wetlar		\bigcirc	No 💿		
Remarks:Sample point taken within the outerfloodpla	in that s	urrounds	the concret	e channel and the	depressio	n. Area is 4	feet hig	gher
in elevation from 1.1.								
VEGETATION								
	Absolute	Dominan	Indicator	Dominance Test	workshee	t:		$\overline{}$
	% Cover	Species?		Number of Domina				
1.Salix gooddingii	50	Yes	FACW	That Are OBL, FA	CW, or FA	C: 2	((A)
2.unknown tree (ornamental)	15	Yes	Not Listed	Total Number of D	ominant			
3				Species Across Al	l Strata:	3	((B)
4	(F a)			Percent of Domina				
Sapling/Shrub Stratum Total Cover:	65 %			That Are OBL, FA	CW, or FA	C: 66.7	% ((A/B)
1.				Prevalence Index	workshe	et:		
2.				Total % Cove	r of:	<u>Multiply</u>		
3				OBL species		x 1 =	0	
4				FACW species	50	x 2 =	100	
5.	0/			FAC species FACU species	10	x 3 = x 4 =	30	
Total Cover: Herb Stratum	%			UPL species	15	x 5 =	75	
1.Conium maculatum	10	Yes	FAC	Column Totals:	75	(A)	205	(B)
2.								(-)
3.				Prevalence I			2.73	
4				Hydrophytic Veg				
5				X Dominance ToX Prevalence In				
6				Morphological			upportir	na
7						n a separate s		19
Total Cover:	10		-	Problematic H	lydrophytic	: Vegetation1 (Explain))
Woody Vine Stratum	10 %							
1				¹ Indicators of hydi be present.	ric soil and	d wetland hyd	rology n	nust
2.	0.1		-					
Total Cover:				Hydrophytic Vegetation	_	_		
% Bare Ground in Herb Stratum % Cover	of Biotic C	Crust	<u>%</u>	Present?	Yes 💿	No 🔘		
Remarks:								

Sampling Point: H-18 WS

SOIL

Depth Matrix					n the absence of indicators.)
			x Features	1.22	Tautura
(inches) Color (moist)		olor (moist)	%Type ¹		Remarks
<u>0-7</u> <u>10-YR 3/1</u>					Loamy/Clay
6-12 10YR 4/4	100				Sand
Type: C=Concentration, D=De	pletion, RM=Red	uced Matrix, C	S=Covered or Coa	– ——— ted Sand Gr	rains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicat	· · ·	· · · · · · · · · · · · · · · · · · ·			Indicators for Problematic Hydric Soils:
Histosol (A1)		Sandy Redo	•		1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)		Stripped M	atrix (S6)		2 cm Muck (A10) (LRR B)
Black Histic (A3)			cky Mineral (F1)		Reduced Vertic (F18)
Hydrogen Sulfide (A4)			yed Matrix (F2)		Red Parent Material (TF2)
Stratified Layers (A5) (LRR	C)	Depleted M	, ,		Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Depleted Below Dark Surface	ce (A11)		k Surface (F6) Park Surface (F7)		
Thick Dark Surface (A12)	[ressions (F8)		³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Ī	Vernal Poo			wetland hydrology must be present,
Sandy Gleyed Matrix (S4)					unless disturbed or problematic.
Restrictive Layer (if present):					
Туре:		_			
Depth (inches):					Hydric Soil Present? Yes ○ No ●
HYDROLOGY					
Wetland Hydrology Indicators	:				
Primary Indicators (any one indicators	cator is sufficient))			Secondary Indicators (2 or more required)
	cator is sufficient)) Salt Crust	t (B11)		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Primary Indicators (any one indicators	cator is sufficient)		, ,		
Primary Indicators (any one indicators (A1)	cator is sufficient)	Salt Crust Biotic Cru	, ,		Water Marks (B1) (Riverine)
Primary Indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive)	rine)	Salt Crust Biotic Cru Aquatic In Hydrogen	st (B12) evertebrates (B13) Sulfide Odor (C1)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Primary Indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive) Sediment Deposits (B2) (No	rine) onriverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized	st (B12) overtebrates (B13) Sulfide Odor (C1) Rhizospheres along		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dts (C3) Dry-Season Water Table (C2)
Primary Indicators (any one indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Drift Deposits (B3) (Nonrive	rine) onriverine)	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	st (B12) overtebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Primary Indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Drift Deposits (B3) (Nonrive Surface Soil Cracks (B6)	rine) onriverine) erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl	st (B12) overtebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C & Surface (C7)	C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive) Sediment Deposits (B2) (Nonrive) Drift Deposits (B3) (Nonrive) Surface Soil Cracks (B6) Inundation Visible on Aerial	rine) onriverine) erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Iro	st (B12) avertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C k Surface (C7) on Reduction in Plo	C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (any one indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive) Sediment Deposits (B2) (Nonrive) Drift Deposits (B3) (Nonrive) Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9)	rine) onriverine) erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Iro	st (B12) overtebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C & Surface (C7)	C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (any one indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive (B2)) Sediment Deposits (B2) (Nonrive (B3)) Drift Deposits (B3) (Nonrive (B4)) Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Field Observations:	rine) onriverine) erine) Imagery (B7)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex	st (B12) avertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C) K Surface (C7) on Reduction in Ploplain in Remarks)	C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (any one indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Drift Deposits (B3) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Field Observations: Surface Water Present?	rine) porriverine) erine) Imagery (B7) Yes \(\) No (Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex	st (B12) avertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C k Surface (C7) on Reduction in Plo plain in Remarks) aches):	C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive) Sediment Deposits (B2) (Nonrive) Drift Deposits (B3) (Nonrive) Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Field Observations: Surface Water Present?	rine) porriverine) erine) Imagery (B7) Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex	st (B12) avertebrates (B13) a Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C k Surface (C7) on Reduction in Plo plain in Remarks) aches):	C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive) Sediment Deposits (B2) (Nonrive) Drift Deposits (B3) (Nonrive) Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Field Observations: Surface Water Present?	rine) priverine) Imagery (B7) Yes No (4) Yes No (4) Yes No (4)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex Depth (ir Depth (ir	st (B12) avertebrates (B13) a Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C k Surface (C7) on Reduction in Plo plain in Remarks) aches): aches):	wed Soils (C	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (any one indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive) Sediment Deposits (B2) (Nonrive) Drift Deposits (B3) (Nonrive) Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present?	rine) porriverine) lmagery (B7) Yes No (Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex Depth (ir Depth (ir Depth (ir	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C k Surface (C7) on Reduction in Plo plain in Remarks) nches): nches):	wed Soils (0	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) C6) Shallow Aquitard (D3) FAC-Neutral Test (D5) and Hydrology Present? Yes No if available:
Primary Indicators (any one indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive) Sediment Deposits (B2) (Nonrive) Drift Deposits (B3) (Nonrive) Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present?	rine) porriverine) lmagery (B7) Yes No (Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex Depth (ir Depth (ir Depth (ir	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C k Surface (C7) on Reduction in Plo plain in Remarks) nches): nches):	wed Soils (0	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (any one indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive) Sediment Deposits (B2) (Nonrive) Drift Deposits (B3) (Nonrive) Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present?	rine) porriverine) lmagery (B7) Yes No (Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex Depth (ir Depth (ir Depth (ir	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C k Surface (C7) on Reduction in Plo plain in Remarks) nches): nches):	wed Soils (0	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) C6) Shallow Aquitard (D3) FAC-Neutral Test (D5) and Hydrology Present? Yes No if available:
Primary Indicators (any one indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive) Sediment Deposits (B2) (Nonrive) Drift Deposits (B3) (Nonrive) Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present?	rine) porriverine) lmagery (B7) Yes No (Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex Depth (ir Depth (ir Depth (ir	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C k Surface (C7) on Reduction in Plo plain in Remarks) nches): nches):	wed Soils (0	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) C6) Shallow Aquitard (D3) FAC-Neutral Test (D5) and Hydrology Present? Yes No if available:
Primary Indicators (any one indicators (any one indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive) Sediment Deposits (B2) (Nonrive) Drift Deposits (B3) (Nonrive) Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present?	rine) porriverine) lmagery (B7) Yes No (Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Thin Mucl Recent Irc Other (Ex Depth (ir Depth (ir Depth (ir	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C k Surface (C7) on Reduction in Plo plain in Remarks) nches): nches):	wed Soils (0	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) C6) Shallow Aquitard (D3) FAC-Neutral Test (D5) and Hydrology Present? Yes No if available:

			PA	RT I. M	AINTENANCE	FAC	ILITY INFO	DRMATIO	N				
Facility Name	Encino an	d Ampa	aro			Fa	cility ID	H-19					
Location	Encino Dr	ive and	I Amparo Drive	9			,						
Latitude ¹	33.0989		Longitude ¹		.060170	Ma	aintenance	Freguen	cv (ve	ars)		Annua	llv
Maintenance Fa			Outlet and In			_	ning Type	-	oy (yo			7 tilliaa	,
Maintenance F	acility Type				iment and weed			Earthen					
Proposed Main Activities	tenance	Equip sedin No di	oment will be s nent to unclog ragging of equ	staged of outlet. ipment	on the street or along banks ar ccurring within t	distu	rbed areas equipmen	t in chanr	nel.		tor will b	e used t	to scoop out
Will work occur	when wat	er is in	the channel?		Y 🛛 N	П		es, will de			ter Y	1	_
						V INI		rsion be r	neede	d?			
					ART II. SURVE	Y INI	-ORMAII						
-			l Ryan Layder	1				Date	of Sur	vey	2	/27/2019	9
Was water in the survey?	ne channel	at the	time of the	,	Y 🗌 N	\boxtimes	Hydrolog	y Type ²	Р		⊠ I		o 🗆
Nearest Named	d Waterboo	dy Sai	n Dieguito Riv	er			NWI Inde	ex Riverin	ne				
NRCS Soils	amona sai	ndy loa	m, 2 to 5 perc	ent slop	oes								
Section II.a. S	ummary o	f USA	CE/RWQCB/C	DFW V	Vaters of the U	l.S. a	nd State V	Vithin the	Mair	ntenance	Facility		
USACE 404/RV	NQCB 401	Jurisd	iction	Υ		USA	ACE 404 R	egulated	Activi	ty	Υ [1 N	
USACE Nonwe Waters Present		Υ [□ N 🛛		CE Wetland ers Present	Υ	⊠ N		atapo aken	oint(s)	Y D] N	\boxtimes
Associated Dat	asheet(s)												
Summary of		of Juriso	lictional Water		Н	labitat	Description ⁵	3			elineated		Impact Tier⁵
Aquatic Habitat (Waters of the	Wetla	and Wa	aters				V/E				0.054	-	I
U.S. and State))							то	TAL		0.054		
Section II.b. S	ummary o	f CDF	W Waters of t	he Stat	te Only Within	the N	Naintenan	ce Facilit	v				
CDFW 1600 Jurisdiction Bey USACE Waters	yond		Y 🛭 N 🗆	_	CDFW Regulate					Υ 🛚	N 🗆		
Summary of		of Jurisc	lictional Water		H	Habitat	Description	3			Delineated		Impact Tier ⁵
Aquatic Habitat (Waters of the	Ripa	rian Ex	tent			,	V/E				0.054		I
State Only)								то	TAL		0.054		
Section II.c. S	ummary c	of Vege	tation Comm	unities	and Cover Ty	pes l	Vithin and	l Adjacen	it to t	he Mainte	enance	Facility	
				Δcres	s within Study	Δrea	6						
Vegetation C		es and			within Otday								
Cove	er Types		Maintena Footpri		00-Foot Buffer		Total		г	Dominant	/Signifi	ant Sn	acies
Riparian and W	/etland		Тоогрії		oo-i oot Builei	1	Total			Joinnani	, orginin	Jant Op	50163
Southern willo	ow scrub		0.055		-		0.055	Salix	lasiol	epis, Cort	aderia s	elloana	
Subtotal Ripa	rian and W	/etland	0.055		-		0.055						
Upland					0.000	_	0.000			:6 1:			
Coast live oak			-		0.082		0.082	Quero	cus ag	grifolia			
Othoritorial	Subtotal	•	-		0.082		0.082						
Other Land Co	ver rypes				1 006	1	1 006						

City of Escondido Channel Maintenance RGP – Facility Summary

Encino and Amparo

, -,			····· ,	
Disturbed Habitat	1	0.104	0.104	
Subtotal Other Land Cover Types	1	1.110	1.110	
GRAND TOTAL ⁶	0.055	1.192	1.246	

Section II.d. Threatened/Endangered/Special	Status Species Within the Vicinity of	the Maintenance Facility ⁷
Special status species observed during 2019 field surveys within the Facility Buffer	None	
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A	
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None	
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (<i>Agelaius tricolor</i>) (Coastal California gnatcatcher (<i>Poliopti</i> Least Bell's vireo (<i>Vireo bellii pusillus</i>) (Swainson's hawk (<i>Buteo swainsoni</i>) (Western yellow-billed cuckoo (<i>Coccyzu</i> California black rail (<i>Laterallus jamaice</i>)	ila californica califorica) (FT, SSC) FE, SE) , ST) Is americanus occidentalis) (FT, SE)
Other non-listed special status species historically known to occur within the Facility Buffer	None	
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant (<i>Centromadia parryi</i> southern California legless lizard (<i>Anni</i> Orange-throated whiptail (<i>Aspodpscelis</i> Coast horned lizard (<i>Phrynosoma blain</i> Burrowing owl (<i>Athene cunicularia</i>) (SS Coastal cactus wren (<i>Campylorhynchus</i> White-faced ibis (<i>Plagadis chihi</i>) (WL) Pallid bat (<i>Antrozous pallidus</i>) (SSC) Dulzura pocket mouse (<i>Chaetodipus ca</i> Townsend's big-eared bat (<i>Corynorhinu</i> Western yellow bat (<i>Lasiurus xanthinus</i> Pocketed free-tailed bat (<i>Nyctinomops</i> Big free-tailed bat (<i>Nyctinomops macro</i> American badger (<i>Taxidea taxus</i>) (SSC)	della stebbinsi) (SSC) s hyperythra) (SSC) s hyperythra) (SSC) s brunneicapillus sandiegensis) (SSC) alifornicus femoralis) (SSC) us townsendii) (SSC) s) (SSC) femorosaccus) (SSC) tis) (SSC)
Are species surveys recommended?	Y N If Yes, for what species?	Least Bell's vireo during breeding season
Will work occur in the breeding season (Feb-Au	gust)?	Y 🛛 N 🗆

PART III. ADDITIONAL NOTES/COMMENTS

Area is within a locked gate, therefore assessment completed around the maintenance area where access was available. Wetland basin occurs at outlet structure, the area is dominated by *Salix laseolepis* and some *Cortaderia selloana* at the basin bottom.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- **4.** Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



						PART	I. MAI	INTEN	IANC	ΕF	ACI	LITY I	NFO	RMA	TION									
Facility Name	Sunset	t and B	ear	Valle	еу						Fa	cility I)	H-20)									
Location	Sunset	t Drive	and	Bea	ar Valle	y Pai	rkway									<u> </u>								
Latitude ¹	33.09	94609		Lon	gitude	1	-117.0	59167	,		Ма	aintena	nce	Frequ	iency (yea	rs)			Ar	nnua	ally		
Maintenance F	acility T	Гуре		Cha	annel						Lin	ing Ty	ре	Earthe	en									
			Rem	nove	accun	nulate	ed sedir	ment a	and w	eed	ren	noval												
Proposed Main Activities	tenanc	i	uncl	og o	utlet.		aged o										used	to sco	оор	out s	sedi	mer	nt to	
Will work occur	when	water is	s in	the c	channe	l?	Y		N	[(dive	rsion b	dewa		ng or w ?	ater	Υ	\boxtimes	3	N		
							PAF	RT II.	SURV	/EY	INF	ORM	ATIC	N										
•	William					den								Da	te of S	Surv	еу		1	2/27/	/201	9		
Was water in the survey?	ne chan	nnel at t	the t	time	of the		Υ		N	\boxtimes	1	Hydro	olog	у Туре	e^2	Р		ı		E	\boxtimes	0		
Nearest Name	d Water	rbody	Sar	n Die	guito F	River						NWI	Inde	x Not	classi	fied								
NRCS Soils R	amona	sandy	loai	m, 5	to 9 pe	ercen	t slope:	S			l													
Section II.a. S	ummar	ry of U	SAC	CE/R	WQCE	3/CDI	FW Wa	ters o	of the	U.S	S. aı	nd Sta	te V	/ithin	the M	aint	enanc	e Fac	cilit	V				
USACE 404/R\	WQCB	401 Ju	risdi	ictior	า		Υ 🗵	1 N		Į	JSA	ACE 40)4 R	egulat	ed Act	ivity	′	Υ			N		\boxtimes	
																							divers Julate	
USACE Nonwe Waters Present		Y	Σ	3	N [USACE Waters			,	Y	<u> </u>	N	\boxtimes	Data Take	•	nt(s)	Y			N		\boxtimes	
Associated Dat	asheet	(s)				•									•									
Summary of		Type of .	Juris	dictio	onal Wat	er			Н	labit	at De	escriptio	on. ³				Acres Maint						Impa	ct Tier ⁵
Aquatic Habitat (Waters of the		Nonwe	tlan	d Wa	aters						U	/E						0.0	01					
and State)															TOTA	L		0.0	01					
Section II.b. S	ummaı	ry of C	DFV	V Wa	aters c	of the	State	Only	Withi	n th	ie N	laintei	nanc	e Fac	ility									
CDFW 1600 Jurisdiction Bey USACE Waters			١	' [⊠ N		CD	FW R	tegula	ited	Acti	ivity				Y		N]				
Summary of		Type of .	Juris	dictio	onal Wat	er			ŀ	Habit		escripti	on ³					Delin tenanc					Impa	ıct Tier⁵
Aquatic Habita (Waters of the	IS	Channe	el Ba	ank							U/	Έ						0.0	001					II
State Only)															TOTA	L		0.0	001					
Section II.c. S	ummaı	ry of V	ege	tatio	on Con	nmun	ities a	nd Co	over 1	уре	es V	Vithin	and	Adjad	cent to	the	e Mair	tena	nce	Fac	ility	,		
Vegetation C	ommu	nitios :	and			ļ	Acres v	vithin	Stud	y A	rea ⁶	6												
	er Type		unu	N	Mainte Foot		е	100-F Buf				Tota	ıl			Do	omina	nt/Sig	gnif	ican	t Sr	eci	es	
Riparian and V							1							· ·										
Unvegetated C					0.0	01		0.0				0.01												
Subtotal Ripa	rian an	d Wetla	and		-			0.0)2			0.02	2											
Upland Coast Live Oa	ak Woo	odland			_			0.42	28			0.42	8	Qı	iercus	agr	ifolia							
		tal Upla	and					0.4	20			0.42												

			····· y	o ounset una seur tane,
Other Land Cover Types				
Urban/Developed	-	1.01	1.01	
Subtotal Other Land Cover Types	-	1.01	1.01	
GRAND TOTAL ⁶	0.001	1.456	1.458	

Section II.d. Threatened/Endangered/Specia	I Status Species Within the Vicinity of	the Maintenance Facility ⁷
Special status species observed during 2019	None	-
field surveys within the Facility Buffer Threatened/Endangered species historically	TTOTO	
known to occur within the Facility Buffer	N/A	
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None	
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (Agelaius tricolor) (Coastal California gnatcatcher (Poliopti Least Bell's vireo (Vireo bellii pusillus) (Swainson's hawk (Buteo swainsoni) (, Western yellow-billed cuckoo (Coccyzu California black rail (Laterallus jamaicel	la californica califorica) (FT, SSC) FE, SE) ST) s americanus occidentalis) (FT, SE)
Other non-listed special status species historically known to occur within the Facility Buffer	None	
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern tarplant (Centromadia parryi si Southern California legless lizard (Annio Orange-throated whiptail (Aspodpscelist Coast horned lizard (Phrynosoma blain Burrowing owl (Athene cunicularia) (SS Coastal cactus wren (Campylorhynchust White-faced ibis (Plagadis chihi) (WL) Pallid bat (Antrozous pallidus) (SSC) Dulzura pocket mouse (Chaetodipus cat Townsend's big-eared bat (Corynorhinus Western yellow bat (Lasiurus xanthinus Pocketed free-tailed bat (Nyctinomops macro American badger (Taxidea taxus) (SSC)	ella stebbinsi) (SSC) s hyperythra) (SSC) villii) (SSC) C) s brunneicapillus sandiegensis) (SSC) alifornicus femoralis) (SSC) us townsendii) (SSC) (SSC) femorosaccus) (SSC) tis) (SSC)
Are species surveys recommended?	Y N If Yes, for what species?	Least Bell's vireo during breeding season and San Diego Ambrosia
Will work occur in the breeding season (Feb-Au	gust)?	Y 🛛 N 🗆

PART III. ADDITIONAL NOTES/COMMENTS

Earthen channel supporting ponded water at the time of the surveys. Channel bottom is unvegetated with cobble and shelving observed throughout. Nonnative grass species along banks of the channel and Coast live oak present adjacent to the channel on terrace.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing E. Unvegetated channel at downstream end.



Representative Photograph 2. Facing NW. Channel through Coast live oak woodland



Representative Photograph 3. Facing E. Culvert under Bear Valley Road

			PAR	T I. MAINTENANCE	FACILITY INFO	ORMATIO	N			
Facility Name	Via Ranch	no Park	way and Sunse	t Drive	Facility ID	H-21				
Location	Via Ranch	no Park	way and Sunse	t Drive						
Latitude ¹	33.06798	88	Longitude ¹	-117.065989	Maintenance	Frequenc	су (уе	ars)	Annual	ly
Maintenance Fa	acility Type	е	Outlet		Lining Type	Earthen				
Proposed Main Activities	tenance	One- One flow a Equip	time willow tree willow blocking and has the pote ment will need nent to unclog of	d sediment and weed removal. Willows will access to the site, 2-cential to act as a debruto be within wetlands butlet and create pilot tive shrubs and trees,	be cut at base B willows have I is jam during st to access outle channel to larg	arge brand torm event et area. Ba	ches ts. ackho	that are pe	rpendicular to	the drainage
Will work occur	when wat	ter is in	the channel?	Y 🗆 N		es, will deversion be n		ing or wate d?	r Y 🗆 N	N 🖂
				PART II. SURVE	Y INFORMATION	ON				
Surveyors	Lanika Ce	rvantes	3			Date o	of Sur	vey	2/27/2019)
Was water in th survey?	e channe	at the	time of the	Y N	Hydrolog	y Type ²	Р	I	□	o 🗆
Nearest Named	d Waterbo	dy Sai	n Dieguito River		NWI Inde	ex Not clas	ssifie	d		
NRCS Soils R	amona sa	ndy loa	ım, 5 to 9 percei	nt slopes						
Section II a St	ummary c	f IICA	CE/DWOCB/CE	FW Waters of the U	S and State I	Nithin tho	Mair	ntonanco E	acility	
USACE 404/RV				Y 🛭 N 🗆	USACE 404 R			ty	Y ☐ N Only Temporar structures are i	
USACE Nonwe Waters Present		Y	⊠ N 🗆	USACE Wetland Waters Present	Y 🔲 N		atapo aken	oint(s)	Y	\boxtimes
Associated Data	asheet(s)									
Summary of		of Jurisc	dictional Water	Ha	bitat Description ³				neated within	Impact Tier⁵
Aquatic Habitat (Waters of the	Wetl	and Wa	aters		V/E			0.	.001	I
Ù.S. and State)						TOT	TAL	0	.001	
Section II.b. St	ummary o	of CDF	W Waters of th	e State Only Within	the Maintenan	ce Facility	/			
CDFW 1600 Jurisdiction Bey USACE Waters		,	Y 🛭 N 🗆	CDFW Regulate	d Activity		,	Y 🛛 N	I 🗆	
Summary of		of Jurisc	dictional Water	На	abitat Description ³				lineated within ance Footprint ⁴	Impact Tier⁵
Aquatic Habitat (Waters of the	Ripa	rian Ex	tent		V/E			(0.001	
State Only)						то	TAL		0.001	
Section II.c. S	ummary c	of Vege	etation Commu	nities and Cover Ty	pes Within and	l Adjacent	t to t	he Mainten	ance Facility	
Vegetation C	ommuniti	es and		Acres within Study	Area ⁶					
	r Types		Maintenan Footprint		Total			Dominant/S	ignificant Sp	ecies
Riparian and W			•			,				
Emergent We			-	0.015	0.015				: Eleocharis sp	L.
Southern Wille			0.001	0.235	0.236	Salix	lasio	lepis		
Subtotal Ripa	rian and V	Vetland	0.001	0.249	0.250					

Other Land Cover Types		-	-	
Urban/Developed	-	0.428	0.428	
Disturbed Habitat	-	0.110	0.110	
Subtotal Other Land Cover Types	-	0.538	0.538	
GRAND TOTAL ⁶	0.001	0.787	0.788	

Section II.d. Threatened/Endangered/Specia	l Status Species Within the Vicinity of	the Maintenance Facility ⁷
Special status species observed during 2019 field surveys within the Facility Buffer	None	
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A	
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None	
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	Tricolored blackbird (<i>Agelaius tricolor</i>) (Least Bell's vireo (<i>Vireo bellii pusillus</i>) (Swainson's hawk (<i>Buteo swainsoni</i>) (FE, SÉ) , ST) is americanus occidentalis) (FE, ST)
Other non-listed special status species historically known to occur within the Facility Buffer	None	
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	Southern California legless lizard (Anni Orange-throated whiptail (Aspodpscelis Coast horned lizard (Phrynosoma blain Burrowing owl (Athene cunicularia) (SS White-faced ibis (Plagadis chihi) (WL) Pallid bat (Antrozous pallidus) (SSC) Coastal cactus wren (Campylorhynchus Dulzura pocket mouse (Chaetodipus ca Townsend's big-eared bat (Corynorhinus Western yellow bat (Lasiurus xanthinus Pocketed free-tailed bat (Nyctinomops Big free-tailed bat (Nyctinomops macro American badger (Taxidea taxus) (SSC)	s hyperythra) (SSC) villii) (SSC) s brunneicapillus sandiegensis) (SSC) alifornicus femoralis) (SSC) us townsendii) (SSC) s) (SSC) femorosaccus) (SSC) tis) (SSC)
Are species surveys recommended?	Y N If Yes, for what species?	Least Bell's vireo during breeding season
Will work occur in the breeding season (Feb-Au	igust)?	Y 🛛 N 🗆

PART III. ADDITIONAL NOTES/COMMENTS

Earthen channel supporting water at time of survey. Main channel that supports wide wetland floodplain dominated by southern willow scrub and emergent wetland. Small outfall enters site east of main channel, this outfall needs maintenance. In addition, three willows have branches that are growing perpendicular to flow and occur over the main channel, creating a dam effect when large storms occur.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



Representative Photograph 1. Facing N. Outfall within wetlands that will oe maintained.



Representative Photograph 2. Facing N. Main channel and willows growing perpendicular to channel flows. This tree will need to be cut down to avoid debris jams.



Representative Photograph 3. Facing W. Existing access road to the site that will need vegetation trimming and a willow tree removal for access.

Project/Site: City of Escondido RGP		City/Coun	ty:Escondid	o/San Diego	San	npling Date:5	/8/19	
Applicant/Owner: Via Rancho/Sunset				State:CA	San	npling Point:1	.1	
Investigator(s):L.Cervantes		Section, T	Township, Ra	nge:Undefined		_		
Landform (hillslope, terrace, etc.): Active Floodplain		Local reli	ef (concave,	convex, none):none		Slo	pe (%):0	
Subregion (LRR):C - Mediterranean California	Lat: 33.	067967		Long:-117.06588	31	 Datu	m:NAD 1	1963
Soil Map Unit Name: Chino Silt Loam				NWI cla	assification	:Freshwater	Forested	l/Shr
Are climatic / hydrologic conditions on the site typical for this	time of ve	ear? Yes (• No (
		disturbed		'Normal Circumstan			No (
		oblematic?		eeded, explain any a				
SUMMARY OF FINDINGS - Attach site map si				. ,		,	atures, e	etc.
			311					
		le f	the Sampled	Area				
			thin a Wetlar		•	No O		
Remarks:Flowing water was observed within the low	flow po							
	-							
VEGETATION								
	Absolute		t Indicator	Dominance Test	workshee	et:		
<u>Tree Stratum</u> (Use scientific names.) 1. Salix laevigata	% Cover 30	Species? Yes	FACW	Number of Domin			(1	۸)
2.Salix lasiolepis	$\frac{30}{20}$	Yes	FACW	That Are OBL, FA	CVV, OI FA	.C: 4	ļ (A	1)
3.Washingtonia sp.	$\frac{20}{10}$	No	FAC	Total Number of D		5	· /E	٥١
4.		- 110		Species Across A	ii Sirata.	5	(B	٥)
Total Cover:	60 %		.	Percent of Domina That Are OBL, FA			0 0 (4	\ /D\
Sapling/Shrub Stratum	. 00 /0			That Ale Obc, FA	CVV, OI FA	ic. 80	.0 % (A	4/B)
1.Baccharis sarothroides	2	Yes	FACU	Prevalence Index	k workshe	et:		
2			_	Total % Cove		Multipl		
3				OBL species	65	x 1 =	65	
4				FACW species	50	x 2 =	100	
5	2 %			FACIL species	10	x 3 =	30	
Total Cover: Herb Stratum	2 %			FACU species UPL species	2	x 4 = x 5 =	8	
1.Anemopsis californica	40	Yes	OBL		107		0	(D)
2.Eleocharis palustris	25	Yes	OBL	Column Totals:	127	(A)	203	(B)
3.			-	Prevalence	Index = B/	/A =	1.60	
4.				Hydrophytic Veg	etation In	dicators:		
5.				X Dominance T	est is >50°	%		
6.				× Prevalence Ir				
7				Morphologica		ons¹ (Provide on a separate		g
8				Problematic H		•	,	
Total Cover: Woody Vine Stratum	65 %				iyaropiiya	o vogotation	(Explain)	
1				¹ Indicators of hyd	lric soil an	d wetland hv	drology m	ust
2.				be present.				
Total Cover:	%			Hydrophytic				
				Vegetation	w 6		•	
% Bare Ground in Herb Stratum % Cover			<u>%</u>	Present?	Yes 💿	No C	<i></i>	
Remarks: The sample area is dominated with OBL a	nd FAC	W vegetat	tion.					

SOIL Sampling Point: 1.1

	scription: (Describe	to the dep				or confirm	n the abs	sence of in	dicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Feature %	sType1	Loc ²	Tex	ture	Rem	arks
0-6	10 YR 2/2	100					Sandy	<u> </u>	-	
6-18	10 YR 4/2		7.5 YR 4/6	5	\overline{C}	PL	Sandy			
	- 10 11(4/2		7.5 11 4/0			- I L	Ballay			
	-									
	-									
¹ Type: C=C	Concentration, D=Dep	etion, RM=	=Reduced Matrix, CS	=Covere	ed or Coat	ed Sand G	rains.	² Location:	PL=Pore Lining, M	l=Matrix.
Histoso Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick E Sandy Sandy	Indicators: (Applicable of (A1) Epipedon (A2) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) (LRR C) Huck (A9) (LRR D) Hed Below Dark Surface Hoark Surface (A12) Hucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):	;)	Rs, unless otherwise Sandy Redox Stripped Ma Loamy Muci Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr Vernal Pools	trix (S6) ky Miner ed Matri atrix (F3) Surface ark Surfa essions	al (F1) x (F2) (F6) ce (F7)		3India weti	1 cm Muck (2 cm Muck (Reduced Ve Red Parent Other (Expla- cators of hydiand hydrolc	children (A9) (LRR C) (A9) (LRR B) ertic (F18) Material (TF2) ain in Remarks) drophytic vegetation gy must be present d or problematic.	n and
Type:	, ,									
Depth (ir	nches):						Hvdri	c Soil Pres	ent? Yes •	No 🔘
	Redox was observed	with the	sample area meet	s deple	ted matri	x	, ,			
HYDROLO	OGY									
Wetland Hy	ydrology Indicators:									
Primary Ind	icators (any one indic	ator is suffi	cient)					Secondary	Indicators (2 or mo	re required)
l	e Water (A1)		Salt Crust						Marks (B1) (Riveri i	
l <u> </u>	ater Table (A2)		Biotic Crus						ent Deposits (B2) (I	
	tion (A3)	,	Aquatic Inv					=	eposits (B3) (River	ne)
	Marks (B1) (Nonriveri		Hydrogen			Living Do	oto (C2)		ge Patterns (B10)	(00)
=	ent Deposits (B2) (No reposits (B3) (Nonrive r		Oxidized R		-	_	ois (C3)		ason Water Table (h Burrows (C8)	(C2)
	e Soil Cracks (B6)	iiie)	Thin Muck			4)		<u> </u>	tion Visible on Aeria	al Imageny (C9)
	tion Visible on Aerial I	magery (B				wed Soils ((C6)	_	w Aquitard (D3)	ar imagery (C3)
1 ==	Stained Leaves (B9)	-3-7(Other (Exp			((/		eutral Test (D5)	
Field Obse	rvations:							<u> </u>	, ,	
Surface Wa	iter Present? Y	es 🔘	No Depth (inc	ches):						
Water Table	e Present? Y	es 🔘	No Depth (inc	ches):						
	Present? Y apillary fringe) ecorded Data (stream		No Depth (ind		rovious in		-		sent? Yes 💿	No O
Programe K	oodiaca Dala (Silediii	gauge, III	Amoning wen, aenal p	,,,οιοδ, μ	TOVIOUS III	.pcc.10115),	, 11 avallal	ло.		
Remarks:T	wo secondary wetla	nd hydro	logy ware observe	d with 1	ha campl	a araa Ti	he wetle	nde ara ale	so located within	the OHWM
	bundant racks were	•			ine sampi	c arca. 11	ne wetia	nus arc ars	so located within	the Offww.
	WOIL	220 1000	arong and not							
LIS Army Corr	os of Engineers									

Project/Site: City of Escondido RGP		City/Cou	unty:Escondic	lo/San Diego	San	npling Date:	5/8/19	
Applicant/Owner: Via Rancho/Sunset				State: CA	San	npling Point	:1.2	
Investigator(s): L. Cervantes		Section,	, Township, Ra	ange: Undefined				
Landform (hillslope, terrace, etc.): Outer floodplain		Local re	elief (concave,	convex, none):conv	/ex	SI	lope (%):2	
Subregion (LRR):C - Mediterranean California	Lat: 33.	.067960	ı	Long:-117.06582	24	Dat	tum:NAD	1963
Soil Map Unit Name: Chino Silt Loam				NWI cla	assification	:Emergent	Wetland	
Are climatic / hydrologic conditions on the site typical for	this time of ye	ear? Yes	No ((If no, explain	n in Rema	rks.)		
Are Vegetation Soil or Hydrology	significantly	disturbe	ed? Are	"Normal Circumstan	ces" prese	nt? Yes	No (\circ
Are Vegetation Soil or Hydrology	naturally pro	oblematio	c? (If n	eeded, explain any a	nswers in	Remarks.)		
SUMMARY OF FINDINGS - Attach site ma	p showing	samp	lina point l	ocations, transe	ects. im	portant fo	eatures.	etc.
			31					
Hydrophytic Vegetation Present? Yes (a) Hydric Soil Present? Yes (a)	No (a tha Campla	d A.c.o				
Wetland Hydrology Present? Yes	No (s the Sample vithin a Wetla		\bigcirc	No 💿		
Remarks:The sample point was approximately 1 f						NO (
	· ·							
VEGETATION	A I I (-	D	at ladrata	I Daniel Trad				
Tree Stratum (Use scientific names.)	Absolute % Cover		ant Indicator s? Status	Number of Domin				
1.Salix laevigata	25	Yes	FACW	That Are OBL, FA			3 ((A)
2.Salix lasiolepis	15	Yes	FACW	Total Number of D	Ominant			
3.				Species Across A			4 ((B)
4				Percent of Domina	ant Specie	S		
Total Co	over: 40 %			That Are OBL, FA			5.0 %	(A/B)
1.				Prevalence Index	x workshe	et:		
2.		-		Total % Cove			ply by:	
3.				OBL species	5	x 1 =	5	
4.				FACW species	40	x 2 =	80	
5.				FAC species		x 3 =	0	
Total Co	over: %			FACU species	3	x 4 =	12	
Herb Stratum	10	Yes	New Line d	UPL species	10	x 5 =	50	
1.Hirschfeldia incana 2.Anemopsis californica	$-\frac{10}{5}$	Yes	Not Listed OBL	_ Column Totals:	58	(A)	147	(B)
3. Ambrosia psilostachya	$-\frac{3}{3}$	$\frac{1 \text{ cs}}{\text{No}}$	FACU	Prevalence	Index = B	/A =	2.53	
4.		-110		Hydrophytic Veg	etation In	dicators:		
5.				X Dominance T	est is >50°	%		
6.				× Prevalence Ir				
7.				Morphologica		ons¹ (Provid on a separat		ng
8.				- Problematic H		•	•	١
Total Co	over: 18 %			- I Toblematic i	тушторттуш	c vegetation	i (Explairi)	,
Woody Vine Stratum 1.				¹ Indicators of hyd	lric soil an	d wetland h	ydrology n	nust
2				be present.			,	
Total Co				Hydrophytic				
	over of Biotic (0/	Vegetation Present?	Yes 💿	No ($\overline{}$	
			<u>%</u>					
Remarks: The sample area is dominated with FA		getation	and the herb	aceous vegetation	observed	ı within th	e sample	area
is mixed with upland and wetland vege	zialion.							

SOIL

Sampling Point: 1.2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

(inches) 0-14			Redox Features			
0-14	Color (moist)	%	Color (moist) % Type ¹ Lo	oc² Tex	ture	Remarks
	10 YR 3/2	100		Loamy (Clay	
		· — —				
¹ Type: C=Co	oncentration, D=Depl	letion, RM=R	educed Matrix, CS=Covered or Coated Sa	and Grains.	² Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators: (Applicabl	le to all LRRs.	unless otherwise noted.)	Indic	ators for Problem	natic Hydric Soils:
Histosol			Sandy Redox (S5)		1 cm Muck (A9) (LRR C)
Histic Ep	pipedon (A2)		Stripped Matrix (S6)	<u> </u>	2 cm Muck (A10)	(LRR B)
Black Hi	istic (A3)		Loamy Mucky Mineral (F1)		Reduced Vertic (I	F18)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Red Parent Mate	` '
	d Layers (A5) (LRR C	()	Depleted Matrix (F3)		Other (Explain in	Remarks)
	uck (A9) (LRR D)	(* (4)	Redox Dark Surface (F6)			
	d Below Dark Surface	e (A11)	Depleted Dark Surface (F7)	3		
	ark Surface (A12)		Redox Depressions (F8)			ytic vegetation and
	Mucky Mineral (S1)		Vernal Pools (F9)		land hydrology m ess disturbed or p	•
	Gleyed Matrix (S4)			unie	ess disturbed or p	problematic.
	Layer (if present):					
Type:						w CC
Depth (inc			bserved within the sample area.	Hydri	c Soil Present?	Yes No No
IYDROLO	GV.					
	01					
	drology Indicators:					
Wetland Hy		ator is sufficie	nt)		Secondary Indica	ators (2 or more required)
Wetland Hyderimary Indic	drology Indicators: cators (any one indicators) Water (A1)	ator is sufficie	Salt Crust (B11)			ators (2 or more required) s (B1) (Riverine)
Wetland Hyderimary Indic	drology Indicators: cators (any one indica	ator is sufficie			Water Marks	
Wetland Hyderimary Indic	drology Indicators: cators (any one indica Water (A1) ater Table (A2)	ator is sufficie	Salt Crust (B11)		Water Marks Sediment De	s (B1) (Riverine)
Wetland Hyd Primary Indic Surface High Wa Saturatio	drology Indicators: cators (any one indica Water (A1) ater Table (A2)		Salt Crust (B11) Biotic Crust (B12)		Water Marks Sediment De	eposits (B2) (Riverine) (s (B3) (Riverine)
Wetland Hyder Primary Indice Surface High Wa Saturation Water M	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3)	ine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	ng Roots (C3)	Water Marks Sediment Do Drift Deposit Drainage Pa	eposits (B2) (Riverine) ss (B3) (Riverine)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriveri	ine) nriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	ng Roots (C3)	Water Marks Sediment Do Drift Deposit Drainage Pa	eposits (B2) (Riverine) as (B3) (Riverine) as (B3) (Riverine) atterns (B10) Water Table (C2)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverint Deposits (B2) (Nor	ine) nriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin	ng Roots (C3)	Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish But	eposits (B2) (Riverine) as (B3) (Riverine) as (B3) (Riverine) atterns (B10) Water Table (C2)
Wetland Hyderimary Indice Surface High Wa Saturatio Water M Sedimer Drift Dep Surface	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverient Deposits (B2) (Norriverient)	ine) nriverine) 'ine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4)		Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish But	eposits (B2) (Riverine) eposits (B2) (Riverine) es (B3) (Riverine) etterns (B10) Water Table (C2) erows (C8) fisible on Aerial Imagery (C9)
Wetland Hydeling Primary Indice Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverient Deposits (B2) (Norriver) posits (B3) (Nonriver) Soil Cracks (B6)	ine) nriverine) 'ine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Thin Muck Surface (C7)		Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish But Saturation V	s (B1) (Riverine) eposits (B2) (Riverine) es (B3) (Riverine) etterns (B10) Water Table (C2) errows (C8) Sisible on Aerial Imagery (C9) etterns (D3)
Wetland Hydeling Primary Indice Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriverient Deposits (B2) (Norposits (B3) (Nonriversoil Cracks (B6)) on Visible on Aerial Instained Leaves (B9)	ine) nriverine) 'ine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Thin Muck Surface (C7) Recent Iron Reduction in Plowed S		Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish But Saturation V Shallow Aqu	eposits (B2) (Riverine) es (B3) (Riverine) es (B3) (Riverine) es (B3) (Riverine) es (B4)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverint Deposits (B2) (Norriver) posits (B3) (Nonriver) Soil Cracks (B6) on Visible on Aerial Instained Leaves (B9) vations:	ine) nriverine) rine) magery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Thin Muck Surface (C7) Recent Iron Reduction in Plowed S		Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish But Saturation V Shallow Aqu	eposits (B2) (Riverine) es (B3) (Riverine) es (B3) (Riverine) es (B3) (Riverine) es (B4)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S Field Observariance	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverint Deposits (B2) (Norriverint Deposits (B3) (Norriverint Deposits (B6)) on Visible on Aerial Installed Leaves (B9) vations: er Present?	ine) nriverine) rine) magery (B7) es	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Thin Muck Surface (C7) Recent Iron Reduction in Plowed S Other (Explain in Remarks)		Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish But Saturation V Shallow Aqu	eposits (B2) (Riverine) es (B3) (Riverine) es (B3) (Riverine) es (B3) (Riverine) es (B4)
Wetland Hydelians Indicate Surface Surface Water M Sedimer Drift Dep Surface Inundati Water-S Field Observators	drology Indicators: cators (any one indicators (any one indicators) Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverient Deposits (B2) (Norriversoil Cracks (B6) on Visible on Aerial Installed Leaves (B9) vations: er Present? Yea	ine) nriverine) rine) magery (B7) es \(\) No es \(\) No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Thin Muck Surface (C7) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Depth (inches):	Soils (C6)	Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish But Saturation V Shallow Aqu FAC-Neutra	eposits (B2) (Riverine) eposits (B2) (Riverine) es (B3) (Riverine) etterns (B10) Water Table (C2) erows (C8) fisible on Aerial Imagery (C9) ettern (D3) ettern (D5)
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PART I. MAINTENANCE FACILITY INFORMATION									
Facility Name	Woodland	d Parkw	<i>r</i> ay		Facility ID	SM-05			
Location	Woodland	d Parkw	ay and Foothill	View Way			•		
Latitude ¹	33.1596	18	Longitude ¹	-117.128832	Maintenance	Frequency	(years)	Annual	у
Maintenance Fa	acility Typ	е	Outlet and Inle	t	Lining Type	Earthen		•	
Proposed Maintenance Activities			oment will be sta and outlets. ragging of equip te tree trimming	d sediment and weed aged on the street and oment along banks an as needed to allow ed Il be used to remove d	d backhoe or ex d no equipment quipment acces	cavator will in channel.	be used to s	coop out sedime	
Will work occur when water is in the channel? Y ☑ N ☐ If Yes, will dewatering or water diversion be needed? Y ☑ N ☐									· 🗆
				PART II. SURVE					
Surveyors	Lanika Ce	ervantes	and William Ko	ohn		Date of	Survey	2/26/2019	
Was water in th survey?	e channe	l at the	time of the	Y 🛭 N [Hydrolog	y Type ²	P	⊠ E □	o 🗆
Nearest Named	l Waterbo	dy Sai	n Marcos Creek		NWI Inde	x Not class	sified		
NRCS Soils La	as Posas	fine san	ndy loam, 9 to 1	5 percent slopes; Las	Posas stony fin	e sandy loa	ım, 30 to 65 p	percent slopes	
Coation II o Cu	, ma ma a vi , ,	A LICA	CE/DWOCD/CD	NEW Waters of the U	C and Ctata M	lithin the N	lointananaa	Facility.	
Section II.a. Summary of USACE/RWQCB/CDFW Waters of the U.S. and State Within the Maintenance Facility USACE 404/RWQCB 401 Jurisdiction Y N USACE 404 Regulated Activity Only Temporary diversing structures are regulated.							/ diversion		
USACE Nonwe Waters Present		Υ [□ N 🖾	USACE Wetland Waters Present	tland Waters Y N D Taken Y N D				
Associated Data	asheet(s)		Wetland San	nple Points 1.1 and 1.	2				
Summary of		e of Juris	sdictional Water	Hal	Habitat Description ³			elineated within	Impact Tier⁵
Aquatic Habitat (Waters of the I		tland W	/aters		V/E			0.028	
and State)						TOTA	L 0.028		
Section II.b. St	ummary o	of CDF	W Waters of the	e State Only Within t	the Maintenand	ce Facility			
CDFW 1600 Jurisdiction Bey USACE Waters	ond		Y ⊠ N □	CDFW Regulate		·	Y 🛚	N 🗆	
Summary of		e of Juris	sdictional Water	Hal	bitat Description ³			Acres Delineated within Maintenance Footprint ⁴	
Aquatic Habitat (Waters of the	TXIP	arian E			V/E			0.077	1
State Only)	Rip	arian E	xtent		V/E			0.001	II
						TOTA		0.078	
Vegetation C					Area ⁶	Adjacent t		nance Facility Significant Spe	ecies
Riparian and W		. D: .		T	0.404	0 " '			
Southern Arro Forest		•		0.146	0.164	Salix las			
Southern Ripa	arian Scru	b	0.025	0.301	0.325	Eucalyp	tus sp., Sami	bucus sp., Salix	lasiolepis

city of Escondido chamici wie	militario moi	r acrity sa		Sivi 05 Woodiana i dikway
Subtotal Riparian and Wetland	0.043	0.447	0.489	
Upland				
Southern Coast Live Oak Riparian Forest	0.035	0.248	0.283	Quercus agrifolia
Non-Native Grassland	0.001	0.011	0.012	
Non-Native Woodland	-	0.296	0.296	Schinus terebinthifolia
Subtotal Upland	0.036	0.556	0.592	
Other				
Urban/ Developed	-	5.69	5.69	
Subtotal Other	-	5.69	5.69	
GRAND TOTAL ⁶	0.079	6.689	6.768	

Section II.d. Threatened/Endangered/Special Status Species Within the Vicinity of the Maintenance Facility ⁷								
Special status species observed during 2019 field surveys within the Facility Buffer	None							
Threatened/Endangered species historically known to occur within the Facility Buffer	N/A							
Threatened/Endangered species having Designated Critical Habitat within the Facility Buffer	None							
Threatened/Endangered species historically known to occur within 1.0 mile of the Facility Buffer	San Diego button-celery (<i>Eryngium aristulatum</i> var. <i>parishii</i>) (FE, SE, CRPR 1B.1) Spreading navarretia (<i>Navarretia fossalis</i>) (FT,, CRPR 1B.1)							
Other non-listed special status species historically known to occur within the Facility Buffer	None							
Other non-listed special status species historically known to occur within 1.0 mile of the Facility Buffer	San Diego thorn-mint (<i>Acanthomintha ilicifolia</i>) CRPR 1B.2) Rainbow manzanita (<i>Arctostaphylos rainbowensis</i>) (CRPR 1B.1) Summer holly (<i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i>) (CRPR 1B.2) Parry's tetracoccus (<i>Tetracoccus dioicus</i>) (CRPR 1B.2) Western spadefoot (<i>Spea hammondii</i>) (SSC)							
Are species surveys recommended?	Y N If Yes, for what species?	Least Bell's vireo during breeding season and San Diego Ambroisa						
Will work occur in the breeding season (Feb-Au	gust)?	Y 🛛 N 🗌						

PART III. ADDITIONAL NOTES/COMMENTS

Channel begins at outfall structure and supported ponded water at the time of the survey. Shelving was evident throughout and wrack, sediment deposition, and drainage patterns were also observed. Wetlands occur within the OHWM. Channel is dominated by *Vitis californica and Salix lasiolepis* with lots of organic debris within channel bottom. North of the upstream outfall structure there is no jurisdictional drainage, this area is a toe of slope dominated by coast live oak.

Footnotes:

- 1. Coordinates are based on the centroid of the facility.
- 2. Hydrology Types: P = Perennial, I = Intermittent, E = Ephemeral, O = Open Water
- 3. Habitat Descriptions: V = Vegetated, U = Unvegetated / E = Earthen, C = Concrete
- 4. Impact areas are subject to change based on agency recommendations and/or maintenance design changes.
- 5. The impact tier determines thresholds for O&M activities under this RGP, and prescribes mitigation ratios for permanent/repeated impacts. A methodology for determining impact tier is included in the permit package.
- 6. Totals may not add up due to rounding.
- 7. Sources: California Natural Diversity Database (CNDDB) (CDFW 2019) and U.S. Fish and Wildlife Critical Habitat Data (USFWS 2019).



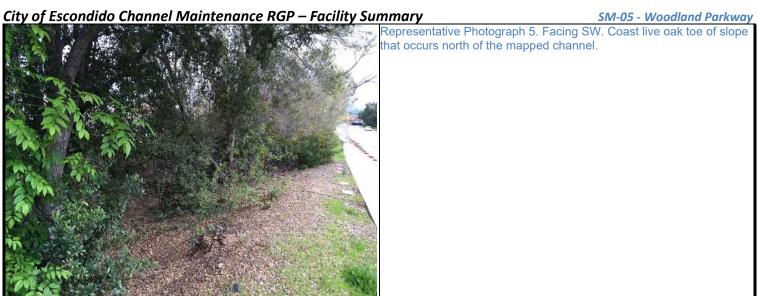
Representative Photograph 1. Facing E. Sample Point 1.1 within channel bottom.



Representative Photograph 3. Facing E. Channel bottom dominated by Vitis and Salix.



Representative Photograph 4. Facing SW. Downstream segment of the channel.



Project/Site: City of Escondido Channel Maintenance R	RGP	City/Count	y:Escondid	o/San Diego	Sam	npling Date:2/	/26/201	9
Applicant/Owner: City of Escondido			State: CA		Sam	Sampling Point:SM-05 WSP 1.		
Investigator(s):Lanika Cervantes; William Kohn		Section, T	ownship, Ra	nge:				
Landform (hillslope, terrace, etc.): drainage		Local relie	ef (concave,	convex, none):conc	ave	Slop	oe (%):3	
Subregion (LRR):C - Mediterranean California	_Lat: 33.	160289		Long:-117.12878	8	 Datur	n:	
Soil Map Unit Name: Las Posas fine sandy loam, 9 to 15	percent	slopes, er	oded	NWI cla	ssification	:N/A		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No ((If no, explain	in Remar	ks.)		
Are Vegetation Soil or Hydrology sig	gnificantly	disturbed?	Are	"Normal Circumstand	es" prese	nt? Yes •	No	\bigcirc
Are Vegetation Soil or Hydrology na	aturally pro	oblematic?	(If ne	eeded, explain any a	nswers in	Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	samplir	g point lo	ocations, transe	cts, im	oortant fea	atures,	etc.
Hydrophytic Vegetation Present? Yes No								
		ls t	he Sampled	I Area				
, 3,		wit	hin a Wetlaı	nd? Yes	•	No 🔘		
Remarks:Sample point taken within the drainage.								
VEGETATION								
	Absolute	Dominant Species?	Indicator	Dominance Test				
Tree Stratum (Use scientific names.) 1.Salix lasiolepis	% Cover_	Yes	FACW	Number of Domina That Are OBL, FA				(A)
2.				- Illat Ale OBL, PA	CVV, OI I'A	.0. 3		(A)
3.				 Total Number of D Species Across Al 		4		(B)
4.								
Total Cover:	15 %			 Percent of Domina That Are OBL, FA 			0 %	(A/B)
Sapling/Shrub Stratum							U 70 ((700)
1				Prevalence Index				
2				Total % Cove	r of:	Multiply		.
3				OBL species	25	x 1 =	0 70	
4				FACW species FAC species	35 15	x 2 = x 3 =	45	
5 Total Cover:	%			FACU species	13	x 4 =	0	
Herb Stratum	70			UPL species	5	x 5 =	25	
1.Cyperus involucratus	20	Yes	FACW	Column Totals:	55	(A)	140	(B)
2.Bromus diandrus	5	Yes	Not Listed					(-)
3.				Prevalence I			2.55	
4.				Hydrophytic Veg				
5				X Dominance To				
6				X Prevalence In Morphological			aupporti	na
7						n a separate		ig
8.				Problematic H	lydrophytic	Vegetation ¹	(Explain	.)
Total Cover: Woody Vine Stratum	25 %							
1.Vitis girdiana	15	Yes	FAC	¹ Indicators of hydi	ric soil and	d wetland hyd	rology r	nust
2.				be present.				
Total Cover:	15 %			Hydrophytic				
% Bare Ground in Herb Stratum 75 % % Cover	of Biotic C	Crust	%	Vegetation Present?	Yes 💿	No 〇		
Remarks: Area is sparsely vegetated but is dominated								
in the spanning regulated out is definition	_ = = ; ; ; ; ; ;							

Sampling Point: SM-05 W

SOIL

Depth	Matrix				ox Feature							
(inches)	Color (moist)	%	_ Cold	or (moist)	%	Type ¹	Loc ²	Text	ure		Rema	·ks
0-12	7.5 YR 4/2	90	Gley 1	2.5/N	10	C	PL	Loamy/Cl	ay	wet soils	S	
							-					
Type: C=C	Concentration, D=Dep	letion, RN	M=Reduc	ed Matrix, C	S=Cover	ed or Coate	ed Sand G	rains.	² Location	n: PL=Por	e Lining, M=	:Matrix.
Hydric Soil	Indicators: (Applicab	le to all L	RRs, unle	ess otherwis	e noted.)			Indica	tors for P	roblemati	ic Hydric Soi	ls:
Histoso				Sandy Red	` '					(A9) (LR	,	
	Epipedon (A2)			Stripped M	` '					(A10) (L	,	
	listic (A3) en Sulfide (A4)			Loamy Mu Loamy Gle						ertic (F18) t Material		
	ed Layers (A5) (LRR (S)	×	Depleted N						lain in Re	` '	
1 cm M	luck (A9) (LRR D)			Redox Da		. ,						
	ed Below Dark Surfac	e (A11)		Depleted [. ,		3				
	Oark Surface (A12) Mucky Mineral (S1)			Redox Dep Vernal Poo		(F8)					c vegetation t be present,	and
	Gleyed Matrix (S4)			veillai Fü)IS (I-9)				,	ed or pro		
_	Layer (if present):								30 0.010.0			
Type:	,											
Depth (ir	nches):							Hydric	Soil Pre	sent?	Yes 💿	No 🔘
Remarks:												
-	drology Indicators:		fficient						Cocondon	. Indicate	ro (2 or more	o required)
Wetland Hy	ydrology Indicators: icators (any one indic		fficient)	Solt Crus	+ (B11)			<u>\$</u>			rs (2 or more	
Wetland Hy Primary Ind	ydrology Indicators: icators (any one indic e Water (A1)		fficient)	Salt Crus	` ′				Water	r Marks (E	31) (Riverin	e)
Wetland Hy Primary Ind Surface High W	ydrology Indicators: icators (any one indic water (A1) fater Table (A2)		fficient)	Biotic Cru	ust (B12)	res (B13)			Water Sedim	Marks (E	B1) (Riverino osits (B2) (R	e) (verine)
Wetland Hy Primary Ind Surface High W Saturat	ydrology Indicators: icators (any one indic e Water (A1)	ator is su	fficient)	≓	ust (B12) nvertebra				Water Sedin	r Marks (E nent Depo Deposits (31) (Riverin	e) verine)
Vetland Hy Primary Ind Surface High W Saturat Water I	drology Indicators: icators (any one indicate Water (A1) dater Table (A2) ion (A3)	ator is su		Biotic Cru Aquatic II Hydroger	ust (B12) nvertebra n Sulfide (Living Ro		Water Sedim Drift D	Marks (Enent Depo Deposits (age Patte	B1) (Rivering posits (B2) (Ri B3) (Riverin	e) (verine) e)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime	drology Indicators: icators (any one indicators) water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver) eposits (B3) (Nonriver)	ator is su ine) nriverine		Biotic Cru Aquatic II Hydroger Oxidized Presence	ust (B12) nvertebrain Sulfide (Rhizosphe of Reduce	Odor (C1) eres along ced Iron (C	-		Water Sedim Drift Draina Dry-S Crayfi	r Marks (Enent Depo Deposits (Page Patte Peason Walsh	B31) (Rivering posits (B2) (Ri B3) (Rivering rns (B10) ater Table (Co ws (C8)	verine) e)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De	drology Indicators: icators (any one indicated water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriverent Deposits (B2) (Nonrivered Soil Cracks (B6)	ator is su ine) nriverine rine)) [Biotic Cru Aquatic II Hydroger Oxidized Presence	ust (B12) nvertebra n Sulfide (Rhizosph of Reduck k Surface	Odor (C1) eres along ced Iron (C- (C7)	4)	[] [] ots (C3)	Water Sedim Drift E Draina Dry-S Crayfi	r Marks (Enent Depo Deposits (age Patte eason Waish Burrov ation Visit	B1) (Rivering points (B2) (Rivering (B10) atter Table (Cws (C8) pole on Aerial	verine) e)
Primary Ind Surface High W Saturat Water I Sedime Drift De Surface	drology Indicators: icators (any one indicated water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriver ant Deposits (B2) (Nonriver as Soil Cracks (B6) tion Visible on Aerial I	ator is su ine) nriverine rine)) [Biotic Cru Aquatic II Hydroger Oxidized Presence Thin Muc	ust (B12) nvertebra n Sulfide (Rhizosph of Reduc k Surface on Reduc	Odor (C1) eres along ced Iron (C- (C7) tion in Ploy	4)	[] [] ots (C3)	Water Sedin Drift E Dry-S Crayfi Satura	r Marks (Enent Deposits (Deposits (D	B31) (Rivering parts) (verine) e)
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Project/Site: City of Escondido Channel Maintenance	RGP	City/Count	y:Escondid	lo/San Diego	Sam	Sampling Date: <u>2/26/2019</u>		
Applicant/Owner:City of Escondido				State: CA	Sam	pling Point:SI	M-05 WS	SP 1.
Investigator(s):Lanika Cervantes; William Kohn		Section, T	ownship, Ra	ange:				
Landform (hillslope, terrace, etc.): hillslope		Local relie	ef (concave,	convex, none):conv	vex.	Slop	e (%):35	
Subregion (LRR):C - Mediterranean California	Lat: 33.	160295		Long:-117.12880)5	Datun	n:	
Soil Map Unit Name: Las Posas fine sandy loam, 9 to 15	5 percent	slopes, er	oded	NWI cla	assification	:N/A		
Are climatic / hydrologic conditions on the site typical for this	s time of ye	ear? Yes (No ((If no, explai	n in Remar	 ks.)		
Are Vegetation Soil or Hydrology s	ignificantly	disturbed?	Are	"Normal Circumstan	ces" prese	nt? Yes 💿	No ()
Are Vegetation Soil or Hydrology n	aturally pr	oblematic?	(If n	eeded, explain any a	nswers in	Remarks.)		
SUMMARY OF FINDINGS - Attach site map s							itures, e	tc.
	o (•)			<u> </u>				
	o 📵	le t	he Sampled	1 Area				
	0 (hin a Wetla		\bigcirc	No 💿		
Remarks:Sample point taken on channel bank approx								
VEGETATION								
Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?		Dominance Test				
1.	76 COVEL	<u>Species :</u>	Status	Number of Domin That Are OBL, FA			(A)
2.	-			- That Are OBL, I A	CVV, OI I A		(^,	,
3.				Total Number of D Species Across A		3	(B	.)
4.				-			(D)	,
Total Cover	r: %			Percent of Dominion That Are OBL, FA			3 % (A/	/B)
Sapling/Shrub Stratum	~	3 7					70 (
1.Quercus agrifolia	5	Yes	Not Listed	Prevalence Index Total % Cove			, by	
2				OBL species	i OI.	$\frac{\text{Multiply}}{\text{x 1}}$	0	
4.				FACW species		x 2 =	0	
5.		-		FAC species	10	x 3 =	30	
Total Cover	: 5 %			FACU species	10	x 4 =	0	
Herb Stratum	- 70			UPL species	30	x 5 =	150	
1.Bromus diandrus	25	Yes	Not Listed	Column Totals:	40	(A)		(B)
2.				Prevalence	Indox - P/	Λ _	4.50	
3				Hydrophytic Veg			4.30	
4.				Dominance T				
5 6.				Prevalence Ir				
6 7.						ns¹ (Provide s	supportina	
8.				data in Re	marks or o	n a separate	sheet)	
Total Cover	25 %			Problematic I	-lydrophytic	Vegetation ¹	(Explain)	
Woody Vine Stratum	25 %							
1. Vitis girdiana	10	Yes	FAC	¹ Indicators of hydbe be present.	lric soil and	d wetland hyd	Irology mu	ıst
2				-				
Total Cover	: 10 %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum75 %	of Biotic (Crust	%	Present?	Yes 🔘	No 💿		
Remarks: Steep hillslope dominated by upland vege	tation.							

							Sampli	ng Point: SM-05 W
Profile Des	scription: (Describe to	the depth	needed to docu	ment the indicator	or confir	m the absence	of indicators.)	
Depth	Matrix			ox Features				
(inches)	Color (moist)	<u></u>	Color (moist)	%Type ¹	Loc ²	Texture		Remarks
0-14	7.5 YR 4/4	100 N	/A			Loamy/Clay	dry soils	
					-			
1								
Type: C=0	Concentration, D=Deplet	tion, RM=F	Reduced Matrix, C	S=Covered or Coate	ed Sand G		cation: PL=Pore Li	
	Indicators: (Applicable	to all LRRs					for Problematic H	
Histoso			Sandy Red	` '			Muck (A9) (LRR C	
	Epipedon (A2)		Stripped M	` '			Muck (A10) (LRR	B)
	Histic (A3)			cky Mineral (F1)			ced Vertic (F18)	
	gen Sulfide (A4)			eyed Matrix (F2)			arent Material (TF	,
	ed Layers (A5) (LRR C)		Depleted N	, ,		Other	(Explain in Rema	rks)
	fluck (A9) (LRR D) ed Below Dark Surface ((Δ11)		k Surface (F6) Dark Surface (F7)				
	Dark Surface (A12)	(// 11)		oressions (F8)		3Indicators	of hydrophytic ve	agetation and
	Mucky Mineral (S1)		Vernal Poo	` '			ydrology must be	•
_	Gleyed Matrix (S4)		vomari oc	510 (1 0)			sturbed or probler	•
	Layer (if present):							
Resulctive								
	- Luyer (p. 666111).							
Type:						Hydric Soi	Present? Ves	No 🔎
Type: Depth (i	nches):	d soils dr	ving than those	observed within t	he wetla	Hydric Soi	Present? Yes	No 🖲
Type: Depth (i		d soils dr	ying than those	observed within the	he wetla	-	Present? Yes	No No
Type: Depth (i	nches):	d soils dr	ying than those	observed within the	he wetla	-	Present? Yes	s ○ No ●
Type: Depth (i	nches):	d soils dr	ying than those	observed within the	he wetla	-	Present? Yes	s ○ No •
Type: Depth (i	nches):	d soils dr	ying than those	observed within the	he wetla	-	Present? Yes	s ○ No •
Type: Depth (i	nches):	d soils dr	ying than those	observed within the	he wetla	-	Present? Yes	s No •
Type: Depth (i	nches):	d soils dr	ying than those	observed within the	he wetla	-	Present? Yes	s ○ No ●
Type: Depth (i	nches):	d soils dr	ying than those	observed within the	he wetla	-	Present? Yes	s ○ No ●
Type: Depth (i Remarks:]	nches): No redox observed an	d soils dr	ying than those	observed within the	he wetla	-	Present? Yes	s ○ No ●
Type: Depth (i Remarks:]	nches): No redox observed an	d soils dr	ying than those	observed within the	he wetla	-	Present? Yes	s ○ No ●
Type:	nches): No redox observed an	d soils dr	ying than those	observed within the	he wetla	-	Present? Yes	No (•
Type:	nches):No redox observed an			observed within the	he wetla	nd area.		No (•)
Type:	nches):				he wetla	nd area.		2 or more required)
Type:	nches):		ent)	t (B11)	he wetla	nd area.	ndary Indicators (2	2 or more required) (Riverine)
Type:	DGY ydrology Indicators: dicators (any one indicators water (A1)		ent) Salt Crus Biotic Cru	t (B11)	he wetla	seco	ndary Indicators (2 Vater Marks (B1)	2 or more required) (Riverine) (S (B2) (Riverine)
Type:	DGY ydrology Indicators: dicators (any one indicators water (A1) //ater Table (A2)	or is suffici	ent) Salt Crus Biotic Cru Aquatic Ir	t (B11) ust (B12)	he wetla	Seco	ndary Indicators (2 Vater Marks (B1) Sediment Deposits	2 or more required) (Riverine) s (B2) (Riverine) (Riverine)
Type:	DGY ydrology Indicators: dicators (any one indicators (Water (A1)) //ater Table (A2) tion (A3)	or is suffici	ent) Salt Crus Biotic Cru Aquatic Ir	t (B11) ust (B12) nvertebrates (B13)		Seco	ndary Indicators (2 Vater Marks (B1) Sediment Deposits Orift Deposits (B3)	2 or more required) (Riverine) (B2) (Riverine) (Riverine) (Riverine) (B10)
Type:	DGY ydrology Indicators: dicators (any one indicators (any one ind	or is suffici e) iverine)	ent) Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ust (B12) nvertebrates (B13) n Sulfide Odor (C1)	Living Ro	Seco	ndary Indicators (2 Vater Marks (B1) Sediment Deposits Orift Deposits (B3) Orainage Patterns	2 or more required) (Riverine) (B(B2) (Riverine) (Riverine) (Riverine) (B10) Table (C2)
Type:	DGY ydrology Indicators: dicators (any one indicators (any one indicators (a Water (A1) / Ater Table (A2) tion (A3) Marks (B1) (Nonrivering ent Deposits (B2) (Nonrivering ent Deposits (B	or is suffici e) iverine)	ent) Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) ust (B12) nvertebrates (B13) n Sulfide Odor (C1) Rhizospheres along	Living Ro	Second S	ndary Indicators (2 Vater Marks (B1) Sediment Deposits Orift Deposits (B3) Orainage Patterns Ory-Season Water Crayfish Burrows (2 or more required) (Riverine) s (B2) (Riverine) (Riverine) (B10) Table (C2)
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Type:	DGY ydrology Indicators: dicators (any one indicators (any one indicators (any one indicators) (A2) tion (A3) Marks (B1) (Nonrivering (Poposits (B3) (Nonrivering (Poposits (B3) (Nonrivering (Poposits (B6)))	or is suffici e) iverine) ne)	ent) Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Thin Muc	t (B11) ust (B12) nvertebrates (B13) n Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C4)	Living Ro	Second area. Second Signature of Signature	ndary Indicators (2 Vater Marks (B1) Sediment Deposits Orift Deposits (B3) Orainage Patterns Ory-Season Water Crayfish Burrows (2 or more required) (Riverine) (Riverine) (Riverine) (B10) Table (C2) (C8) on Aerial Imagery (CD3)

US Army Corps of Engineers

Water Table Present?

(includes capillary fringe)

Saturation Present?

Yes 〇

Yes 〇

No 💿

No 💿

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Depth (inches):

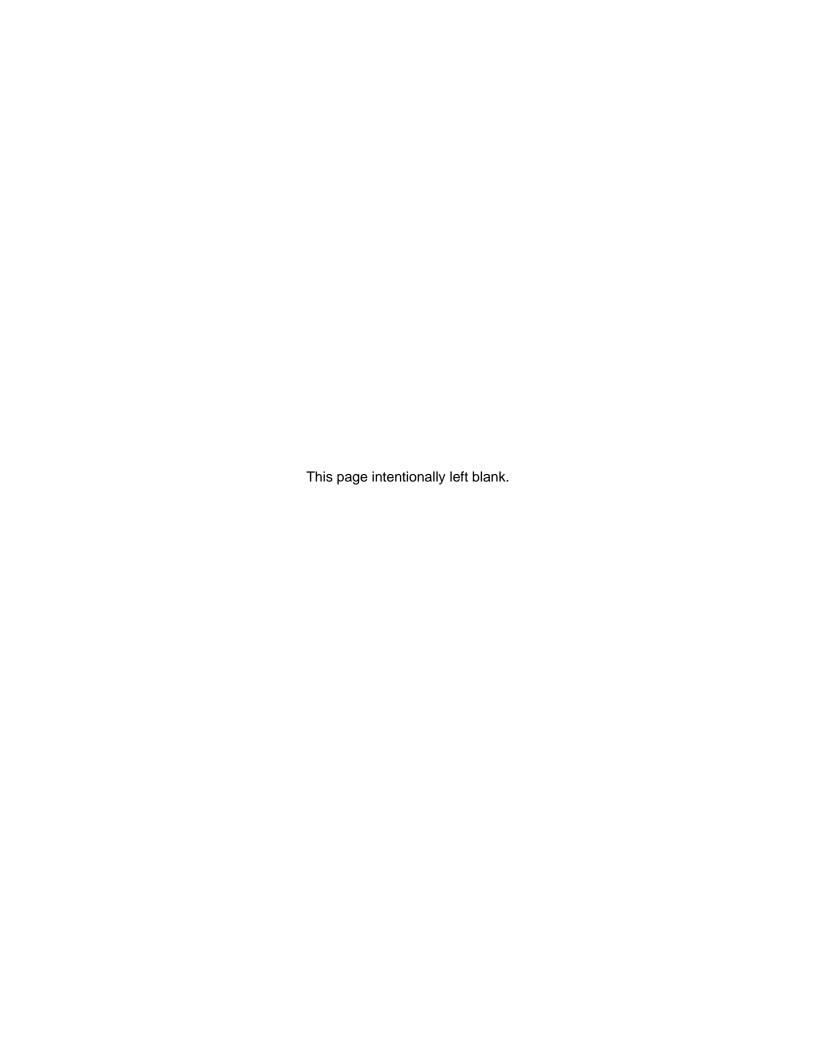
Depth (inches):

Remarks:No hydrology indicators observed within this area. Sample point taken 3 feet higher in elevation from 1.1.

No .

Wetland Hydrology Present? Yes

APPENDIX D. CULTURAL RESOURCES TECHNICAL REPORT



ESCONDIDO RGP 94 CHANNEL MAINTENANCE PROGRAM CULTURAL RESOURCES INVENTORY, CITY OF ESCONDIDO, SAN DIEGO COUNTY, CALIFORNIA

PREPARED FOR:

City of Escondido 210 North Broadway Escondido, California 92025

PREPARED BY:

ICF 525 B Street, Suite 1700 San Diego, CA 92101 Contact: Patrick McGinnis 858.444.3913

OCTOBER 2020





NATIONAL ARCHAEOLOGICAL DATABASE INFORMATION

Author(s): Patrick McGinnis, MA, RPA

Nara Cox, BA

Karen Crawford, MA, RPA

Consulting Firm: ICF

525 B Street, Suite 1700 San Diego, CA 92101

858.444.3913

Client: City of Escondido

Report Date: October 2020

Report Title: Escondido RGP 94 Channel Maintenance Program Cultural Resources

Inventory, City of Escondido, San Diego County, California.

Type of Study: Cultural Resources Inventory

New Sites: ICF-ESC94-P-001

Updated Sites: CA-SDI-572, CA-SDI-6726 CA-SDI-6727, CA-SDI-8220, CA-SDI-12601,

P-37-015577, P-37-017871, P-37-30889

USGS Quadrangle: San Marcos, Valley Center, and Escondido, California; 7.5-minute series

(1:24,000)

Acreage: Study area 361 acres

Keywords: Inventory; California Register of Historical Resources

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City of Escondido Contents

Acronyms and Abbreviations

Acronym Definition

AB 52 Assembly Bill 52

amsl above mean sea level

APE Area of Potential Effects

BMPs **Best Management Practices**

ВP before present

CCR California Code of Regulations

CDFW California Department of Fish and Wildlife

Channel Maintenance Project RGP 94 Renewal or RGP 94 Renewal

94 – Channel Maintenance Program

City City of Escondido

CRHR California Register of Historical Resources

FLPMA Federal Land Policy Management Act

MS4 Municipal Separate Storm Sewer System

NAHC Native American Heritage Commission

NHPA National Historic Preservation Act

NRHP National Register of Historic Places

PRC Public Resources Code

RGP Regional General Permit

SCIC South Coastal Information Center

SDCWA San Diego County Water Authority

SHPO State Historic Preservation Officer

USGS U.S. Geological Survey

VID Vista Irrigation District

WoS waters of the State

WoUS waters of the U.S.

Executive Summary

The City of Escondido (City) is applying for mitigation for the renewal of the City of Escondido's Regional General Permit (RGP) 94 – Channel Maintenance Program (Channel Maintenance Project RGP 94 Renewal or RGP 94 Renewal). The City owns and operates Municipal Separate Storm Sewer System (MS4) infrastructure, including facilities that manage drainages within the city and in flood control channels. The Channel Maintenance Project RGP 94 was approved by State and Federal permitting authorities in 2015 to perform operations and maintenance activities at 63 storm water facilities. As the current Channel Maintenance Project RGP 94 permits expire in May 2020, the City is seeking to renew and amend the permit to include 24 additional maintenance locations and one expanded maintenance location, along with additional mitigation for associated impacts. Additionally, the City will seek separate permitting for two one-time improvement projects.

Work performed in these facilities and on associated roads has the potential to cause impacts to significant historic resources. ICF was contracted to conduct an archaeological survey of the facilities in support of the permit process. A records search was conducted in May and June 2019, at the South Coastal Information Center (SCIC). The records search indicates that 92 cultural resources are located within a 0.5-mile radius of the study area, eight of which intersect with project facilities and the 50-foot survey buffer: a prehistoric lithic scatter (P-37-000572); a prehistoric habitation site (P-37-008280); prehistoric bedrock milling sites and associated artifacts (P-37-006726; P-74-6727; and P-37-012601); a prehistoric isolated mano and flake (P-37-015577); a historic residence (P-37-017871); and a historic flume (P-37-030889).

ICF archaeologists conducted a pedestrian survey of the 361-acre survey area in October and November 2019. The survey area consisted of each facility location and a 50-buffer. During the field surveys, none of the eight previously recorded archaeological resources were relocated during the pedestrian surveys. One new prehistoric bedrock milling site, ICF-ESC94-P-001, was identified. However, several of the facilities could not be surveyed adequately due to poor visibility. It is recommended that a qualified archaeologist monitor the initial maintenance activities at these facilities. Based upon the results of initial ground disturbance, the monitor would be able to determine if the potential for subsurface disturbance warrants further monitoring. Monitoring requirements will be included in the Monitoring and Discovery Plan, along with measures to address any cultural discoveries during project-related activities. Once the areas have been inspected by an archaeologist and monitoring has been completed, documentation will be prepared confirming that there is no further need to monitor future maintenance activities at the same facility locations.

Project Description

The proposed project is within the City of Escondido, San Diego County, California. The project site is mapped within the Escondido, California, U.S. Geological Survey (USGS) 7.5-minute topographic map quadrangle (Figure 1 and 2).

The Channel Maintenance Project RGP 94 was approved by State and Federal permitting authorities in 2015 to perform operations and maintenance activities at 63 storm water facilities. As the current Channel Maintenance Project RGP 94 permits expire in May 2020, the City is seeking to renew and amend the permit to include 24 additional maintenance locations and one expanded maintenance locations, along with additional mitigation for associated impacts (see Table 1, to follow). The amended permit would allow the City to conduct Operations and Management (O&M) activities at 87 existing concrete and earthen storm water facilities. These activities would impact functions and services of non-wetland and wetland waters of the U.S. (WoUS) and waters of the State (WoS), as well as California Department of Fish and Wildlife (CDFW) riparian habitat and streambed.

Work activities will be conducted approximately annually or biannually as needed and as staff and budget allocations allow at each location. Most work activities at each site will be conducted and completed within 2-5 days.

Stream Diversions and BMPS

Stream diversions and Best Management Practices (BMPs) will be implemented for all facility locations during maintenance activities. If water is present during the time of the maintenance activity, flows/ponded water will be dammed by the installation of either gravel or sediment bags. Due to the varying channel widths, implementation of a coffer dam is not possible at all locations. Therefore, work within wetted portion of some channels may be needed. If work is conducted within the wetted portion of a channel, the City will employ a series of check dams downstream of the maintenance location to reduce flow velocities and allow any suspended particulates to settle out of the water column. Additionally, a pump diversion system may be used when appropriate.

If streams are dry, BMPs in the form of straw wattles will be used to prevent sediment or debris from entering downstream waters.

Staging and Access

Equipment staging and stockpiling of spoils will not occur within the limits of jurisdictional waters. Equipment will be staged on existing developed surface roads, lots, or disturbed habitat, when feasible. Sediment, debris, and vegetative material will be removed from the immediate area, stockpiled within surface roads, lots, or disturbed habitat, and then moved off-site to City Public Works facilities. Spoils will be disposed of appropriately or reused for other projects throughout the City, where appropriate.

New Project Activities to be Included in RGP

As part of the amendment, the City would like to request that additional project activities be added and covered under the renewed RGP 94 for all facility locations included in the RGP (i.e., both new facility locations and the current facility locations already included). These new project activities are further described below.

Repairs/Maintenance of Existing Hardscaped Structures

The City proposes to include the repairs of existing concrete aprons and/or concrete-lined drainages as part of the RGP. Repairs will include minor repairs to segments of concrete-lined channels or riprap-lined segments that will not result in the modification of the character, size, or scope of the original fill design. Additionally, these repairs will be limited to either current or new RGP sites. Larger drainages, such as Indian Wells or Escondido Creek, would not be included/covered.

Only one facility location, H-18 Kit Carson Bike Trail, currently is noted as needing repairs to a segment of its Concrete Channel. However, the City would like the ability to complete these types of repairs to any hardscape facility included in the RGP.

In addition to the RGP Area of Potential Effects (APE) discussed above, the City is also proposing two one-time improvement projects that will occur at two facility locations that are currently maintained as part of RGP 94. These projects will be permitted separate from RGP 94. The specific activities proposed at these sites are further described below.

H-02A - 1840 S Centre City Parkway

The maintenance of this facility is already included as a current site, and an expanded area is proposed under the RGP renewal. In addition to the proposed annual maintenance, the City would also like to concrete-line the roadside drainage portion of this facility because this portion of the roadside channel erodes severely every year.

E-47 – Fleetwood Street

The maintenance of this facility is already included as a current RGP site. In addition to the proposed annual maintenance, the City is also proposing the following one-time work activities:

- Repair the existing concrete apron.
- Expand the current RGP site by dredging/removing old material directly upstream of the concrete apron and adding up to 10 feet of rip rap.
- Replace an existing 18-inch diameter reinforced concrete pipeline (RCP) that runs beneath the concrete apron, parallel to the drainage, which would result in temporary impacts associated with trenching the pipeline alignment to uncover the existing pipeline and complete the replacement activities. All temporary impacts will be restored to pre-construction contours.
- The maintenance footprint for E-47 will then be extended to include both the concrete apron and the added riprap area for maintenance work under the RGP in subsequent years.

Cultural Resources Inventory Report

Introduction

The City is requesting the extension of the existing RGP 94 permit for the City of Escondido's Regional General Permit 94 – Channel Maintenance Program and the amendment of this permit to add an additional 24 facility locations, expand a current facility location (already included in the RGP), and include additional work activities.

The project description and work proposed at the existing 63 facility locations currently authorized under RGP 94 will remain the same. The overall project description for all new facility locations is provided below, under *Project Description*.

The types of facilities that will be added as new facilities under RGP 94 include:

- Earthen streams/creeks and storm water channels with hydrologic regimes ranging from ephemeral to perennial.
- Concrete bottom channels with hydrologic regimes of ephemeral and intermittent.
- Culverts and their associated inlets and outlets.
- A storm water basin.

The following work activities will be conducted at the facility locations:

- Accumulated sediment and herbaceous vegetation within Concrete Channels and earthen streams/creeks will be excavated to allow for positive flow.
- Culvert inlets and outlets will be excavated and cleared within a specified radius.
- Nonnative trees will be removed within specified facility locations.
- One-time native tree removal to gain access and/or allow for positive flows will occur at specific
 facility locations (either cut at stump, leaving root in place, or root and all removal depending
 upon its location).
- Native shrub and tree cover that inhibits positive flow and creates debris jams will be trimmed.
- Accumulated sediment and vegetation within a basin will be excavated.
- Repairs of concrete to original design conditions (if approved).

In support of this permit, ICF conducted an archaeological survey of the 24 new facilities, two onetime improvements at existing facilities, and the proposed mitigation site, and prepared a technical report. An intensive pedestrian survey was conducted in October and November 2019.

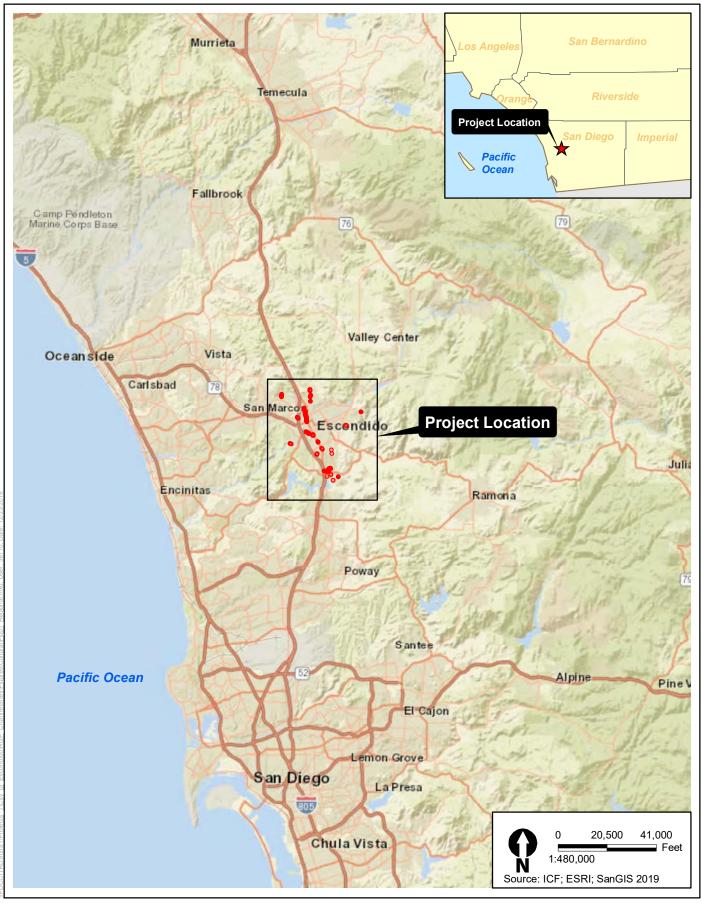
Area of Potential Effects

The APE includes the 24 added facilities, one expanded facility, two improvement areas, and the proposed mitigation site and a 50-foot buffer and associated roads that could be impacted by project activities.

Table 1. Project Site Locations and Proposed Activities

Facility ID	Site Name	Maintenance footprint	Maintenance Activities	Lining Type
E-48	W 4th Ave	Full site	Remove accumulated sediment and weed removal	Earthen ditch
E-49	W 5th and Pine	Full site	Remove accumulated sediment and weed removal	Earthen ditch
E-50	W 5th Ave	Full site	Remove accumulated sediment and weed removal	Earthen ditch
E-51	800 W Valley	Earthen segment – handwork only	Removal of nonnative vegetation; trimming of native trees/shrubs as needed	Earthen ditch
E-52	Rock Springs	Full site	Remove accumulated sediment and weed removal	Earthen ditch and concrete
E-53	Reidy Creek – Rincon to Pleasantwood	15ft from concrete apron (full bank width) 10ft wide pilot channel	Remove accumulated sediment and herbaceous vegetation for pilot channel	Earthen ditch
E-54	Reidy Creek – Morning View	Varies Handwork/Tree Removal for full site	At outlets – Remove accumulated sediment Handwork – Removal of nonnative vegetation; trimming of native trees/shrubs as needed	Earthen ditch
E-55	HARRF	Full site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	Concrete
E-56	McLeod Park	Full site	Remove accumulated sediment and weed removal	Asphalt
E-57	Bienvenido and Vista	20 feet from headwall x full bank width	Remove accumulated sediment and weed removal	Earthen ditch
E-58	Reidy Creek Golf Course	10 feet total wide pilot channel	Remove accumulated sediment and herbaceous vegetation for pilot channel Handwork - trimming of native trees/shrubs as needed	Earthen ditch
E-59	E Side CCP and 13th	Full site	Remove accumulated sediment and weed removal	Earthen ditch
E-60	Oak Valley Lane	20ft radius from headwall	Remove accumulated sediment and herbaceous vegetation	Earthen ditch
E-61	Viking Place	Full site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	Concrete
E-62	Reidy Creek – Lincoln Ave	Full site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	Concrete
H-14	Miller Ave	Full site	Remove accumulated sediment and weed removal	Asphalt and Earthen
H-15	Sierra Linda	20 feet from headwall	Remove accumulated sediment and weed removal	Earthen ditch

Facility ID	Site Name	Maintenance footprint	Maintenance Activities	Lining Type
Н-16	Concerto and Beethoven	Access to outlet and 20 feet from headwall	Remove accumulated sediment and weed removal	Earthen ditch
H-17	Bear Valley Pkwy	20 feet from headwall x 5 feet wide	Remove accumulated sediment and weed removal	Earthen ditch
H-18	Kit Carson Bike Trail	Full site Concrete Channel	Remove accumulated sediment and vegetation within Concrete Channel	Concrete
H-19	Encino and Amparo	Full site	Remove accumulated sediment and weed removal	Earthen ditch
H-20	Sunset and Bear Valley	30 feet from headwall	Remove accumulated sediment and weed removal	Earthen ditch
H-21	Via Rancho Pkwy and Sunset Dr	15 feet x 3 feet wide from small outlet.	Removal of 3–4 willow trees	Earthen ditch
SM-05	Woodland Pkwy	20ft from each headwall x width of bank	Remove accumulated sediment and weed removal Remove dead vegetation/debris throughout entire drainage	Earthen ditch
Proposed Ext	ension of Existing Site			
H-02 A	1840 S Centre City Pkwy	Current RGP Site proposed for expansion	Remove accumulated sediment and weed removal	Earthen ditch
Proposed one	-time improvement projec	ts		
H-02 A	1840 S Centre City Pkwy	Segment proposed for concrete-lining or hardening	Earthen ditch will be concrete-lined	Earthen ditch
E-47	Fleetwood Street	Replacement of an existing pipeline	Replacement of an existing pipeline, addition of 10 linear feet of riprap, and replacement of concrete apron	Earthen ditch
Mitigation Sit	te to Compensate for Impa	cts from Projects above		
Kit Carson Park Downstream		Full area will be enhanced	Enhancement would include removal of nonnative vegetation. Rehabilitation areas will require planting and seeding of native vegetation.	Earthen ditch





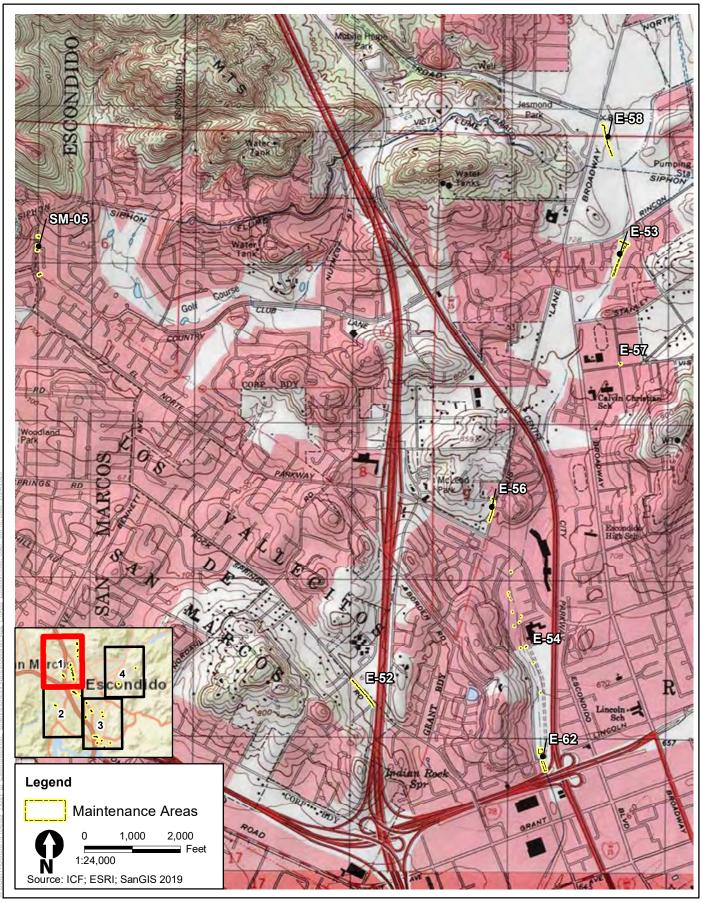




Figure 2, Sheet 1
Project Location
Escondido RGP 94 Channel Maintenance

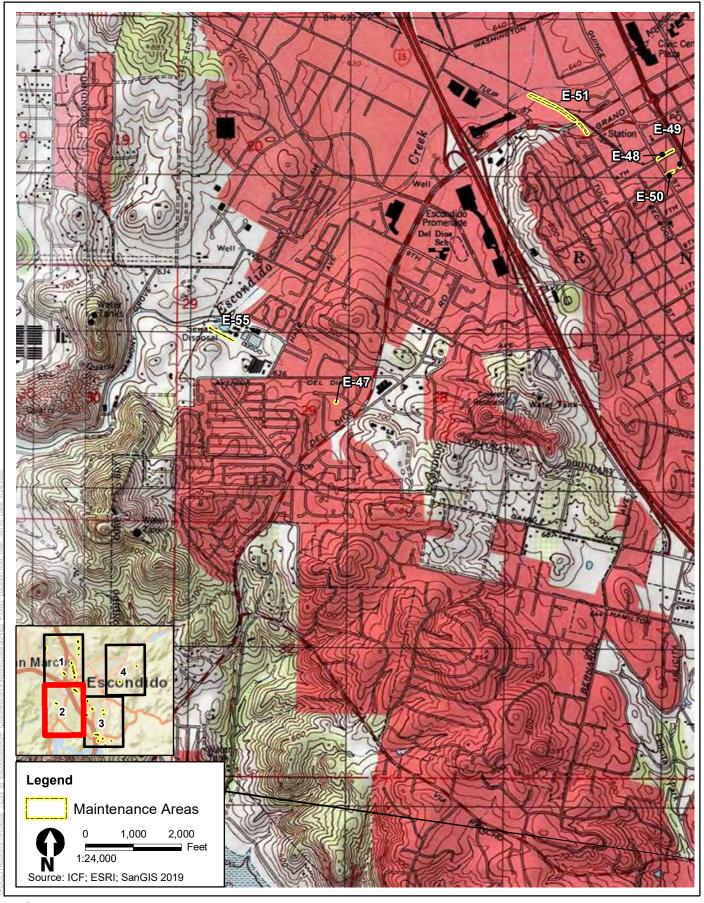




Figure 2, Sheet 2
Project Location
Escondido RGP 94 Channel Maintenance

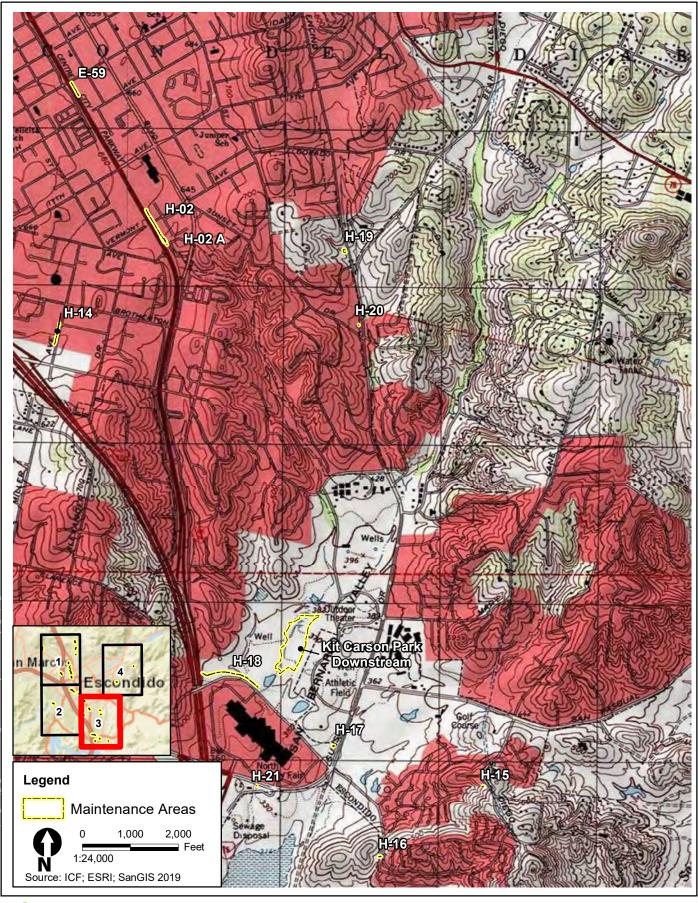




Figure 2, Sheet 3
Project Location
Escondido RGP 94 Channel Maintenance

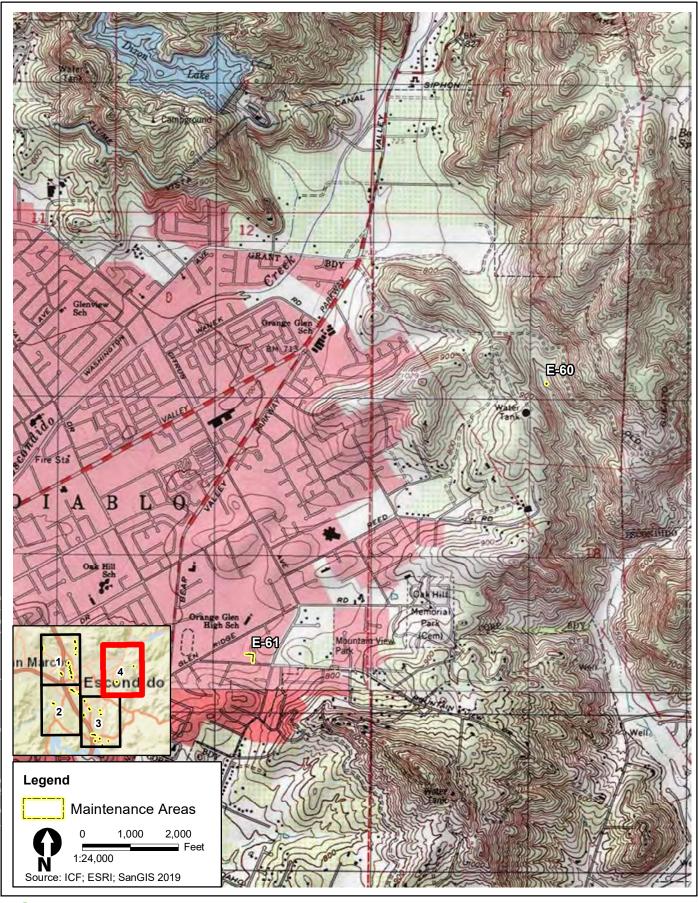




Figure 2, Sheet 4
Project Location
Escondido RGP 94 Channel Maintenance

Project Setting

Regulatory Setting

Federal Regulations

Antiquities Act of 1906, Title 16 United States Code Sections 431–433

This Act establishes criminal penalties for unauthorized destruction or appropriation of "any historic or prehistoric ruin or monument, or any object of antiquity" on Federal land.

National Historic Preservation Act, Title 16 United States Code Section 470 et seq.

Among the provisions of Section 101 of the National Historic Preservation Act (NHPA), a State Historic Preservation Program was established in each state and a State Historic Preservation Officer (SHPO) was given the responsibility to consult with the appropriate federal agencies in accordance with the NHPA regarding:

- i. Federal undertakings that may affect historic properties; and
- ii. the content and sufficiency of any plans developed to protect, manage, or to reduce or mitigate harm to such properties;

Section 106 of the NHPA requires federal agencies to:

take into account the effect of their undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register. The head of any such Federal agency shall afford the Advisory Council on Historic Preservation...a reasonable opportunity to comment with regard to such undertaking.

Archaeological Resources Protection Act of 1979, Title 16 United States Code Section 470aa-470mm

This Act provides protection of archaeological resources from vandalism and unauthorized collecting on Federal land.

Executive Order 11593 of May 13, 1971, 36 Federal Register 8921

This Executive Order focuses on the protection and enhancement of the cultural environment. It outlines responsibilities of the Federal agencies and Secretary of the Interior with regard to cultural resources.

Archaeology and Historic Preservation: Secretary of Interior's Standards and **Guidelines 48 FR 44716-42**

This document establishes standards and guidelines regarding professional qualification requirements for archaeological and historic preservation professionals, technical report format and content, and standards for resource evaluation required by the State Historic Preservation Officer.

Federal Land Policy Management Act of 1976 43 United States Code Section 1701 etseq.

The Federal Land Policy Management Act (FLPMA) declares that it is the policy of the United States that public lands be managed so as to protect historical and archaeological resources, and that the Secretary of Interior will establish rules and regulations regarding resource protection on public lands.

Native American Graves Protection and Repatriation Act, Title 25 United States Code Sections 3001–3013

This law provides for ownership of Native American graves and grave goods on Federal lands.

American Indian Religious Freedom Act, Title 42 United States Code Section 1996

This measure establishes a national policy to protect the right of Native Americans and other indigenous groups to exercise their traditional religions. Federal agencies issuing permits are required to comply with this Act if Native Americans identify issues regarding their right to exercise traditional religious practices.

CEQA and Cultural Resources

The California Environmental Quality Act (CEQA), which requires public agencies to evaluate the implications of their project(s) on the environment, includes significant historical resources as part of the environment. Public agencies must treat any cultural resource as significant, unless the preponderance of evidence demonstrates that it is not historically or culturally significant (California Code of Regulations [CCR] Title 14, Section 15064.5). A historical resource is considered significant if it meets the definition of a historical resource or a unique archaeological resource, as defined below.

Historical Resources

The term *historical resource* includes, but is not limited to, any object, building, structure, site, area, place, record, or manuscript that is historically or archaeologically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California, per Public Resources Code (PRC) Section 5020.1(j). Historical resources may be designated as such through three different processes:

- 1. Official designation or recognition by a local government, pursuant to local ordinance or resolution per PRC Section 5020.1(k).
- 2. A local survey conducted. pursuant to PRC Section 5024.1(g).
- 3. Listing in, or eligibility for listing in, the National Register of Historic Places (NRHP), per PRC Section 5024.1(d)(1).

The process for identifying historical resources is typically accomplished by applying the criteria for listing in the California Register of Historical Resources (CRHR), per CCR Title 14 Section 4852, which states that a historical resource must be significant at the local, state, or national level under one or more of the following four criteria:

1. It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.

- 2. It is associated with the lives of persons important in our past.
- 3. It embodies the distinctive characteristics of a type, period, region, or method of construction; represents the work of a master; or possesses high artistic values.
- 4. It has yielded, or may be likely to yield, information important in prehistory or history.

To be considered a historical resource for the purpose of CEQA, the resource must also have integrity, which is the authenticity of a resource's physical identity, evidenced by the survival of characteristics that existed during the resource's period of significance. Resources, therefore, must retain enough of their historic character or appearance to be recognizable as historical resources and convey the reasons for their significance. Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. It must also be judged with reference to the particular criteria under which the resource is eligible for listing in the CRHR, per CCR Title 14 Section 4852(c).

Unique Archaeological Resources

A unique archaeological resource is defined in PRC Section 21083.2 as an archaeological artifact, object, or site, about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is high probability that it meets the following criteria:

- Contains information needed to answer important scientific research questions and for which there is a demonstrable public interest.
- Has a special and particular quality, such as being the oldest of its type or the best available example of its type.
- Is directly associated with a scientifically recognized important prehistoric or historic event or

In most situations, resources that meet the definition of a unique archaeological resource also meet the definition of historical resource. As a result, it is current professional practice to evaluate cultural resources for significance according to their eligibility for listing in the CRHR. For the purposes of this CEOA cultural resources study, a resource is considered significant if it meets the CRHR eligibility (significance and integrity) criteria. Individual resource recommendations of eligibility are provided in this report.

Even without a formal determination of significance and nomination for listing in the CRHR, the lead agency can determine that a resource is potentially eligible for such listing to aid in determining whether a significant impact would occur. The fact that a resource is not listed in the CRHR, or has not been determined eligible for such listing, and not included in a local register of historic resources does not preclude an agency from determining that a resource may be a historical resource for the purposes of CEQA.

Thresholds of Significance

According to CEQA, a project that causes a substantial adverse change in the significance of a historical resource or a unique archaeological resource has a significant effect on the environment

(CCR Title 14 § 15064.5; PRC Section 21083.2). CEQA defines substantial adverse change as follows (CCR Title 14 § 15064.5(b)):

Physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of the historical resource would be materially impaired.

- Demolition or material alteration in an adverse manner those physical characteristics of a historical resource that convey its historical significance and justify its inclusion in, or eligibility for inclusion in, the CRHR.
- Demolition or material alteration in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources, pursuant to Section 5020.1(k) of the PRC, or its identification in a historical resource survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant.
- Demolition or material alteration in an adverse manner those physical characteristics of a historical resource that convey its historical significance and justify its eligibility for inclusion in the CRHR, as determined by the lead agency.

Local Regulations and Guidelines

City of Escondido

The City of Escondido Municipal Code Article 40, Sections 33-790 through 33-807 are related to the preservation of cultural resources. The articles are designed to:

- Protect, enhance, and perpetuate historical resources, sites, and districts that represent or reflect elements of the City's cultural, social, economic, political, and architectural history for the public health, safety, and welfare of the people of the City.
- Safeguard the City's historical heritage as embodied and reflected in its historical resources, sites, and historical districts.
- Stabilize and improve property values.
- Foster civic pride in the character and accomplishments of the past.
- Strengthen the City's economy by protecting and enhancing the City's attractions to residents, tourists, and visitors and serve as a support and stimulus to business and industry.
- Enhance the visual character of the City by encouraging the preservation of unique and established architectural traditions.
- Promote the use of historical landmarks and districts for the education, pleasure, and welfare of the people of the City.
- Permit historical and archaeological sites to be identified, documented, and recorded by written and photographic means and allow an opportunity for preservation of historical and archaeological sites.

The City has established a nine-member Historic Preservation Commission to assist and advise the mayor and council in all matters relating to historic preservation in the city. The City also maintains a local register of historic resources. Additionally, the municipal code outlines the procedures and

criteria for designation or rescinding of local landmark and historic districts status, incentives for preserving historical resources, and permitting procedures. The City of Escondido General Plan (2012) does not refer to specific policies or procedures for cultural resources but does state the benefits of conservation of cultural resources.

Discovery of Human Remains

With respect to the potential discovery of human remains, Sections 7050.5(b) and (c) of the California Health and Human Safety Code state the following:

- a. 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 § 27460) of Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27491 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner, and cause of any death and the recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation, or his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code. The coroner shall make his or her determination within 2 working days from the time the person responsible for the excavation, or his or her authorized representative, notifies the coroner of the discovery or recognition of the human remains.
- b. If the coroner determines that the remains are not subject to his or her authority and recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, he or she will contact by telephone, within 24 hours, the Native American Heritage Commission (NAHC) (California Health and Human Safety Code Section 7050.5).

Of note to cultural resources is Subsection (c), which requires the coroner to contact the NAHC within 24 hours if discovered human remains are thought to be of Native American origin. After notification, NAHC will follow the procedures outlined in PRC Section 5097.98, which include notification of the most likely descendants, if possible, and the recommendations for treatment of the remains. Also, willful possession of Native American human remains or artifacts taken from a grave or cairn is a felony under state law (PRC § 5097.99).

Environmental Setting

Natural Setting

The Proposed project straddles the boundary between the San Diego Coastal Plain and the Peninsular Ranges. Temperatures in the region are mild, with highs averaging 77.5 degrees Fahrenheit in the summer and lows nearing 50 degrees Fahrenheit in the winter. Average rainfall is approximately 15 inches per year (U.S. Climate Data 2019).

The study area, which is in the Mediterranean climate zone, ranges in elevation from 600 feet above mean sea level (amsl), to 800 feet amsl. Numerous faults cross the area. The Proposed Project and associated components are situated along the boundary between the San Diego Coastal Plain and the

Peninsular Ranges. Along the coastal plain, the Mesozoic basement rocks of the Jurassic-Cretaceous Santiago Peak Volcanics and the Cretaceous Peninsular Ranges Batholith are non-conformably overlain by a layered sequence of sedimentary rocks of late Cretaceous Eocene, Oligocene, Miocene, Pliocene, and Pleistocene age (McComas et al. 2017). The dominant vegetation community within the study area is characterized by coastal sage scrub and chaparral (i.e., sumac, buckwheat, Cleveland sage, lavender, rosemary, thistle, mustard, and grasses). Large mammals in the vicinity include mountain lion, mule deer, coyote, and bobcat. Small animals include rabbits, squirrels, rats, and mice. Reptiles, such as snakes and lizards, and many different bird species are also present(ICF 2017).

Cultural Setting

Prehistoric Context

The study area is in the foothills of northern San Diego County. Numerous cultural chronologies have been developed for this region (Bettinger and Taylor 1974; Warren 1980; Warren and Crabtree 1986). The setting provided below summarizes some of these chronologies into an overview of regional cultural trends over time. This setting divides the pre-contact cultural sequence into three periods. These periods are analytical constructs and do not necessarily reflect Native American views.

Paleo-Indian Period

Scholarly theory suggests that the earliest human occupants of North America were highly mobile terrestrial hunters. Paleo-Indian cultures (e.g., Clovis, Folsom, Llano) dating to this period are often marked by archaeological assemblages of bone and stone technology. Over the last few decades, several North American archaeological sites and sets of human remains have been documented in various contexts that date to this Paleo-Indian Period (e.g., Erlandson et al. 2007). These discoveries have required researchers to reconsider the migratory and land use strategies of early people within the Americas. Within California, Paleo-Indian assemblages are characterized by a wide but sparse distribution of isolated tools and caches dated to between 12,000 and 10,000 years before present (BP) (Meltzer 2004; Dillon 2002:115; Byerly and Roberson 2015). The Clovis complex is the only cultural complex that has been confidently dated to this period. Clovis sites are identified by large fluted projectile points and are assumed to have been occupied by the relatively small populations of highly mobile groups that lived in small, temporary camps near permanent water sources. Although no Paleo-Indian sites have been documented in the APE and vicinity, the absence of sites does not negate the possible presence of human occupants during this period.

Archaic Period

Within the coastal plains of Southern California, a technological shift toward processing small, hard seeds from plants associated with scrub and shrub plant communities with ground stone tools, such as manos and metates, began to appear around 7500 BP. This period is referred to as the Millingstone Period for the abundant ground stone tools found at sites dating from this time until roughly 1500 BP. Groups continued to travel and follow game and plant resources as they became seasonally available (Moratto 1984).

Late Prehistoric Period

Starting at around 1500 BP, the archaeological record reflects the emergence of the cultural patterns attributed to Shoshonean peoples, who moved into southern California from the Great Basin and either assimilated with existing populations or displaced them. In the Late Prehistoric Period, the study area was occupied by the Gabrieliño (also referred to as Tongva or Kizh), who were probably well known by the Juaneno who lived in adjacent areas to the south and appear to have developed land use patterns around the intensive exploitation of a range of local resources and established semi-permanent camps and villages (Bean and Smith 1978a). Archaeological sites attributed to the Gabrieliño and Juaneno are characterized by a range of artifact types, including mortars and pestles, manos and metates, flaked stone tools, small projectile points, ceramics, basketry and woven textiles, and cremation sites.

Ethnographic Context

The Proposed Project is located within the geographic boundaries of both the Luiseño and the Kumeyaay/Ipai. The Kumeyaay were divided linguistically by dialects spoken by people called Ipai in the north and Tipai in south, but culturally the two groups were largely the same. The Shoshonean inhabitants of northern San Diego County were called Luiseños by Franciscan friars, who named the San Luis Rey River and established the San Luis Rey Mission in the heart of Luiseño territory. Their territory encompassed an area from roughly Agua Hedionda on the coast, east to Lake Henshaw, north into Riverside County, and west through San Juan Capistrano to the coast (Bean and Shipek 1978).

The Luiseño shared boundaries with the Gabrieliño and Serrano to the west and northwest, the Cahuilla from the deserts to the east, the Cupeño to the southeast, and the Kumeyaay/ Ipai to the south. All but the Kumeyaay/Ipai are linguistically similar to the Luiseño, belonging to the Takic subfamily of Uto-Aztecan (Bean and Shipek 1978). The Yuman Kumeyaay/Ipai have a different language and cultural background, but shared certain similarities in social structure, and some Ipai incorporated Luiseño religious practices.

The Luiseño were divided into several autonomous lineages or kin groups. The lineage represented the basic political unit among most southern California Indians. According to Bean and Shipek (1978), each Luiseño lineage possessed a permanent base camp, or village, in the San Luis Rey Valley and another in the mountain region for the exploitation of acorns, although this mobility pattern may apply only to the ethnohistoric present.

Acorns were the single most important food source used by the Luiseño. Their villages were usually located near water, which was necessary for leaching acorn meal. Seeds from grasses, manzanita, sage, sunflowers, lemonade berry, chia, and other plants were also used, along with various wild greens and fruits. Deer, small game, and birds were hunted, and fish and marine foods were eaten. Generally, women collected the plant resources, and the men hunted, but there was no rigid sexual division of labor (Bean and Shipek 1978).

Houses were arranged in the village without apparent pattern. The houses in primary villages were conical structures with excavated floors and central hearths and were covered with tule bundles. Domestic implements included wooden utensils, baskets, and ceramic cooking and storage vessels.

Hunting implements consisted of the bow and arrow, curved throwing sticks, nets, and snares. Shell and bone hooks, as well as nets, were used for fishing. Lithic resources of quartz and metavolcanics,

as well as some cherts, were available locally in some areas. Exotic materials, such as obsidian and steatite, were acquired through trade.

The Kumeyaay/Ipai who inhabited the northern part of San Diego County are the direct descendants of the early Yuman speaking hunter-gatherers of the Late Prehistoric Period. The Kumeyaay in general appear to have had considerable variability in in the level of social organization and settlement (Luomala 1978). The Kumeyaay were organized into patrilineal, patrilocal lineages that claimed prescribed territories, but did not own the resources in general (Shipek 1982).

The Kumeyaay occupied bipolar villages during the year and would occupy residential bases in the foothills/mountains during the summer and the lower elevations in the winter, with numerous campsites throughout, as they exploited seasonally available resources (Carrico 2008), Acorns were the most important staple of the diet, as indicated by the presence of numerous large habitation sites near the locations of abundant oaks and bedrock suitable for milling. Grass seeds, sages, berries, wild greens, and fruits were eaten. Houses, usually only built for the winter, were conical structures covered with tule bundles or willow and had excavated floors and central hearths (Spier 1923). Houses and campsites are believed to have been relatively dispersed, with no formal layout or discrete boundaries for structures or campsites. In addition to stone tools, the Kumeyaay utilized pottery and basketry. Religious activities were practiced with the assistance of shaman and a cimul (Shipek 1991).

Spanish explorers first encountered coastal Luiseño villages and Kumeyaay villages to the south in 1769, when they established the Mission San Diego de Alcalá near the mouth of the San Diego River and later established Mission San Luis Rey de Francia in 1798, 4 miles inland from the mouth of the river. The missions "recruited" the Luiseño and Kumeyaay to use as laborers and convert them to Catholicism. The inland Luiseño and Ipai were not heavily affected by Spanish influence until 1816, when outposts of the missions were established 20 miles farther inland, at Pala and Santa Ysabel (Sparkman 1908).

At the time of contact, Luiseño population estimates ranged from 5,000 to as many as 10,000 individuals. Missionization, along with the introduction of European diseases, greatly reduced the Luiseño population. Most villagers, however, continued to maintain many of their aboriginal customs and simply adopted the agricultural and animal husbandry practices learned from the Spaniards. The Kumeyaay were generally resistant to Spanish attempts to coerce them into the Euro-American culture, but the change in location of the mission enabled the priests to gain more converts. As the Spanish gained influence many of the Kumeyaay became resentful, which culminated in the sacking and burning of Mission San Diego de Alcalá in 1775 (Carrico 2008).

By the early 1820s, California came under Mexico's rule, and, in 1834, the missions were secularized, resulting in a political imbalance that caused Native American uprisings against the Mexican rancheros. Many Native Americans left the missions and ranchos and returned to their original village settlements.

When California became a sovereign state in 1849, local Native Americans were recruited more heavily as laborers and experienced even harsher treatment. Conflicts between Native Americans and encroaching Anglos finally led to the establishment of reservations for some Luiseño and Kumeyaay populations. The reservation system interrupted Native American social organization and settlement patterns, yet many aspects of the original cultures persist today. Certain rituals and religious practices are maintained, and traditional games, songs, and dances continue, as does the use of foods such as acorns, yucca, and wild game.

Historic Context

Spanish and Mexican Periods

Over the course of approximately 5 decades, beginning in 1769, Spanish Franciscan missionaries, military officials and soldiers, and civilian colonists created a chain of 21 missions, four presidios, and three pueblos across coastal Alta California. Native American control of the southern California region ended, in the political view of western nations, with Spanish colonization of the area. De facto Native American control of the majority of the population of California did not end until several decades later.

These developments occurred as the Spanish attempted to solidify their claims to California through colonization by Euro-Americans and subjugation of the Native American inhabitants to their culture and control. None of the Spanish missions or mission-associated institutions (i.e., estancias [ranch outposts] or asistencias [small-scale missions lacking a resident priest]) that were found farther inland were established in the vicinity of the study area during the Spanish period. The closest missions were those at San Diego, established in 1769, and San Luis Rey, established in 1798, which are approximately 30 and 15 miles away from the study area, respectively (Englehardt 1921).

By 1810, many of Spain's New World colonies were openly dissatisfied with colonial rule, and independence movements spread throughout the empire. By 1821, Mexico had achieved its independence, but continued many Spanish traditions. The Mexican government began distributing large land grants as rewards to those who had supported independence to help settle the sparsely populated region of Alta California. Unfortunately, little changed for the Native American population during this time. The project area was part the Rincon del Diablo land grant (12, 653 acres) on the east that was owned by Juan Bautista Alvarado. The Alvarados were descended from Juan Bautista Alvarado, Sr., a soldier with the Portola expedition of 1769 that established the missions in Alta California. Rincon del Diablo was granted in 1843 by Governor Manuel Micheltorena. Alvarado built an adobe and raised cattle on the property. Euro-American control of California was firmly established by the end of the Garra uprising in the early 1850s (Phillips 1975).

American Period

California became part of the United States in 1848 as part of the conditions of the Treaty of Guadalupe Hidalgo, which ended the war between the United States and Mexico that began in 1846 and saw battles in Los Angeles during 1846 and 1847. Two years later, California became the Union's 31st state. Property ownership among Californios granted lands under Mexican rule became a matter of considerable legal wrangling. After California became a state, it was subsequently divided into 27 counties, including San Diego County. After the war with Mexico ended in 1848, the study area and vicinity remained sparsely populated. Soon after American control was established (1848-present), gold was discovered in California. The tremendous influx of American and Europeans that resulted quickly drowned out much of the Spanish and Mexican cultural influences and eliminated the last vestiges of de facto Native American control. Because of land claim disputes, few Mexican ranchos remained intact. In addition, the homestead system increased American settlement beyond the coastal plain.

Both Juan Bautista Alvarado and his wife had passed away by the early 1850s, and their remaining children sold their interests first to Judge Oliver S. Witherby between 1855 and 1866 and later to the Wolfskill Brothers. The land changed hands over the years until finally a group of land speculators

from Stockton purchased it in 1883 and began viticultural pursuits in the valley. Churches, schools, and the Escondido Hotel would be constructed in a short time. In 1886, a 12,000-acre tract was purchased by a group of investors that formed the Escondido Land and Town Company, which platted the city of Escondido and lobbied for construction of a railroad connection to the coast. The railroad was completed in late 1887, and the first freight was shipped from the Santa Fe depot at the west end of Grand Avenue in early 1888. During this time, most of Escondido was agricultural land and would not be developed until well into the twentieth century. Land promotions during the land boom in San Diego County in the late 1880s brought new settlers to the area. By the 1890s the boom had failed, and although growth had slowed considerably during the 1890s, settlers continued to arrive in the back country, establishing small farms and ranches throughout the area. This migration took a sharp decline with the onset of the Depression during the 1930s, as many of the rural farmers abandoned their farms and moved to urban areas. The number of people living on farms fell 63 percent during the 1930s, while San Diego County's overall population increased by 38 percent (Van Wormer and Walter 2011). Nevertheless, farming and ranching continued to be the major focus of Escondido's economy until the 1960s.

History of Water Supply Development

The following is taken directly from Jow and Dolan's 2012 Archaeological Survey Report for the Escondido Regional General Permit Project, City of Escondido, San Diego County, California. The Escondido Irrigation District was formed in the late nineteenth century to supplement local agricultural water supplies. The Escondido Canal was constructed to bring water from the San Luis Rey River basin, and the original Lake Wohlford dam was constructed to store this supply. In the early twentieth century, the Escondido Mutual Water Company (Escondido Mutual) was formed to improve these existing facilities and, by 1914, the City had constructed several public wells (three near Beech and Valley Boulevard and three near Rose and Washington), a reservoir on Park Hill, and a 12-mile water distribution system to accommodate the growing population. In 1923, the San Diego County Water Company constructed Lake Henshaw by damming the San Luis Rey River. Rather than build a completely independent system, the company jointly funded certain improvements with Escondido Mutual to transmit the water from Lake Henshaw to Lake Wohlford, and then to the service area of what is now Vista. This resulted in a dual-agency water supply arrangement that persists to the present day. In 1945, the present Vista Irrigation District (VID) acquired the interest of the older San Diego County Water Company. The jointly owned supply was inadequate by the 1950s, and a well field was constructed to deliver groundwater into Lake Henshaw.

Meanwhile, in the 1940s, abundant supplies of water became available with the construction of the Colorado River Aqueduct, and the San Diego County Water Authority (SDCWA) began delivering the imported supplies to San Diego County. Only public agencies were permitted access to this water; therefore, the City of Escondido could obtain this water directly, but the Escondido Mutual Company could not. As a result, in 1954, the Rincon del Diablo Municipal Water District was formed and began to supply water within its area, particularly the portion of that area near the new aqueduct.

In 1970, the City of Escondido acquired the Escondido Mutual Water Company. The City and Escondido Mutual systems were joined, and the new City system shares with VID the local water supply delivery system and obtains imported water, as well. Rincon provides water derived solely from the SDCWA aqueduct within its historic service area. Under the present arrangement, the City and VID have jointly undertaken major improvements to the water supply system, including the construction of Dixon Lake and a major treatment plant. Since 1969, however, ownership of water

derived from the San Luis Rey River has been disputed by members of the Rincon and La Jolla tribes. [Update: A settlement agreement was completed in 2015].

Methods

The effort to identify cultural resources in the study area included records searches of previous cultural resources studies and recorded resources and pedestrian surveys. Additional background research and a literature review were also performed to characterize the physical environment, prehistory, ethnography, and history of the study area vicinity. The results of the background research and literature review are provided in the Results section, below.

Background research and field studies were conducted in compliance with CEQA, as amended (PRC § 21000 et seq.), pursuant to the Guidelines for Implementation of the California Environmental Quality Act (CCR Title 14 § 15000 et seq.) and Section 106 of the NHPA.

Records Search

A records search was conducted at the South Coastal Information Center (SCIC) in May and June of 2019, using a 0.5-mile buffer around each of the facility locations. The records search indicates that 92 cultural resources are located within a 0.5-mile radius of the study area, eight of which intersect with project facilities and the 50-foot survey buffer. The eight resources include a prehistoric lithic scatter (P-37-000572), a prehistoric habitation site (P-37-008280), prehistoric bedrock milling sites and associated artifacts (P-37-006726, P-74-6727, and P-37-012601), a prehistoric isolated mano and flake (P-37-015577), a historic residence (P-37-017871), and a historic flume (P-37-030889). The results of this records search are provided below along with in depth descriptions of the resources that intersect with the facilities and 50-buffer (see Appendix A, *Record Search Results*).

Table 2. Records Search Result for the APE and a One-Half Mile Buffer

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-000152	CA-SDI- 000152	Treganza, n.d.; Chase and Sutton, 1978	Prehistoric campsite including midden and milling feature.	Site	Outside	E-54
P-37-000154	CA-SDI- 000154	Treganza, n.d.	Prehistoric site (specifics not provided)	Site	Outside	E-47
P-37-000564	CA-SDI- 000564	True, n.d.	Prehistoric milling feature	Site	Outside	H-16
P-37-000565	CA-SDI- 000565	True, n.d.	Prehistoric lithic scatter	Site	Outside	H-16
P-37-000566	CA-SDI- 000566	True, n.d.	Prehistoric lithic scatter, midden soil, and boulder outcrop	Site	Outside	Н-16
P-37-000572	CA-SDI- 000572	True, n.d.	Prehistoric lithic scatter	Site	Intersects	H-16 Not relocated very disturbed
P-37-000573	CA-SDI- 000573	True, n.d.	Prehistoric lithic scatter	Site	Outside	H-16
P-37-001036	CA-SDI- 001036	True, 1962	Prehistoric site including a bedrock milling feature and a lithic scatter	Site	Outside	E-54
P-37-001046	CA-SDI- 001046	True, 1962; Buysse, 1994	Prehistoric milling feature	Site	Outside	E-60
P-37-001047	CA-SDI- 001047	True, 1962; Buysse, 1994	Prehistoric lithic scatter	Site	Outside	E-60
P-37-001049	CA-SDI- 001049	True, 1962; Wade et al, 1985	Prehistoric milling features and subsurface artifacts.	Site	Outside	E-57
P-37-001050	CA-SDI- 001050	True, 1962	Prehistoric lithic scatter	Site	Outside	E-53
P-37-001057	CA-SDI- 001057	True, 1962	Prehistoric village site	Site	Outside	E-53
P-37-004943	CA-SDI- 004943	Eckhardt, 1977	Prehistoric milling feature	Site	Outside	E-58

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-004944	CA-SDI- 004944	Eckhardt, 1977	Prehistoric artifact scatter and midden	Site	Outside	E-58
P-37-004960	CA-SDI- 004960	Carrico, 1978	Prehistoric lithic scatter	Site	Outside	H-16
P-37-004961	CA-SDI- 004961	Carrico, 1978	Prehistoric milling complex over two loci	Site	Outside	H-16
P-37-004962	CA-SDI- 004962	Carrico, 1978	Prehistoric milling feature	Site	Outside	H-16
P-37-004963	CA-SDI- 004963	Smith and Pierson, 1981	Prehistoric lithic scatter	Site	Outside	H-16
P-37-004967	CA-SDI- 004967	Carrico, 1978	Prehistoric rock enclosures on crest of Mule Hill	Site	Outside	H-16
P-37-005088	CA-SDI- 005088	Thesken, 1983; Chase and Collins, 1987	Prehistoric village site including milling features, midden, and artifacts over 6 loci.	Site	Outside	Н-18
P-37-005088	CA-SDI- 005088	Thesken, 1983; Chace and Collins, 1987	Prehistoric village site including milling features, midden, and artifacts over 6 loci.	Site	Outside	Н-18
P-37-005210	CA-SDI- 005210	Chace, 1977; Chase, 1979; James et al, 1991	Prehistoric habitation site over two loci. Locus B includes a historic component.	Site	Outside	E-52
P-37-005355	CA-SDI- 005355	VanCamp, 1977	Prehistoric lithic scatter	Site	Outside	SM-05
P-37-005367	CA-SDI- 005367	Norwood, 1977	Prehistoric shell fragment	Isolate	Outside	SM-05
P-37-005368	CA-SDI- 005368	Norwood, 1977	Historic bridge	Built Environment	Outside	SM-05
P-37-006726	CA-SDI- 006726	Bickford, 1978	Prehistoric milling complex over two loci	Site	Intersects	E-54

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-006727	CA-SDI- 006727	Bickford, 1978	Prehistoric milling complex and artifact scatter over three loci	Site	Intersects	E-54
P-37-006728	CA-SDI- 006728	Bickford, 1978	Prehistoric milling feature	Site	Outside	E-54
P-37-006729	CA-SDI- 006729	Bickford, 1978	Prehistoric milling feature and lithic scatter	Site	Outside	E-54
P-37-007785	CA-SDI- 007785	Laylander, 1980	Prehistoric milling complex	Site	Outside	E-54
P-37-007871	CA-SDI- 007871	Underwood and Shackley, 1980	Prehistoric milling feature, midden, and historic component	Site	Outside	E-55
P-37-008280	CA-SDI- 008280	Knutson,1976; Linehan and Strudwick, 1991; James et al, 1992; Bowden-Renna and York, 1996; Morgan and Clowery 2010; Stropes, 2016	Prehistoric component of village complex. Historic structural remains are also present	Site	Intersects	E-55 Portion with APE developed and paved over
P-37-008305	CA-SDI- 008305	Thelen, 1977; Chace, 1980	Prehistoric lithic artifacts scatter- collected	Site	Outside	E-47
P-37-008698	CA-SDI- 008698	Gardner, 1981; Apple, 1982	Prehistoric milling complex and subsurface artifacts over 3 loci	Site	Outside	Н-18
P-37-008699	CA-SDI- 008699	Gardner, 1981; Apple, 1982	Prehistoric milling complex	Site	Outside	H-18
P-37-008700	CA-SDI- 008700	Gardner, 1981; Apple, 1982	Prehistoric milling complex and subsurface artifacts	Site	Outside	H-18
P-37-008749	CA-SDI- 008749		Tribal Land- Contact SCIC	Site	Outside	H-16
P-37-008776	CA-SDI- 008776	Smith and Pierson, 1981	Prehistoric milling features and subsurface artifacts	Site	Outside	Н-16

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-009828	CA-SDI- 009828	Chase, 1983	Prehistoric milling features	Site	Outside	E-54
P-37-009829	CA-SDI- 009829	Chase, 1983	Prehistoric milling feature	Site	Outside	E-54
P-37-009830	CA-SDI- 009830	Chase, 1983	Prehistoric milling feature	Site	Outside	E-54
P-37-010882	CA-SDI- 010882	Hector and Haynal, 1987	Prehistoric milling features	Site	Outside	H-18
P-37-011466	CA-SDI- 011466	Serr and Shackley, 1989; Pigniolo, 1999; Manchen and DeCarlo, 2015	Prehistoric milling features and one hammerstone, and a historic road alignment and painted sign.	Site	Outside	Н-16
P-37-012209	CA-SDI- 012209	Lenker, 1978; Linehan and Strudwick, 1991; Underwod et al., 2001; Morgan and Clowery, 2010; Stropes, 2016; Accardy, 2018	Prehistoric component of village complex including extensive milling, subsurface artifacts, and a pictograph. Historic road, reservoir, machinery, and structures also present.	Site	Outside	E-55
P-37-012459	CA-SDI- 012459	Linehan and Strudwick, 1991	Prehistoric milling feature and a mano	Site	Outside	E-47
P-37-012460	CA-SDI- 012460	Linehan and Strudwick, 1991	Prehistoric milling feature	Site	Outside	E-55
P-37-012461	CA-SDI- 012461	Linehan and Strudwick, 1991	Prehistoric milling feature	Site	Outside	E-55
P-37-012546	CA-SDI- 012546	Glenn et al, 1991	Prehistoric milling features and an artifact scatter. Historic mortared rock features and historic artifact scatter	Site	Outside	E-58
P-37-012597	CA-SDI- 012597	Bibb, 1992	Historic site of Rancho San Bernardo adobe ranch house, historic artifact scatter	Site	Outside	Н-18

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-012597	CA-SDI- 012597	Bibb, 1992	Historic site of Rancho San Bernardo adobe ranch house, historic artifact scatter	Site	Outside	Н-27
P-37-012601	CA-SDI- 012601	Smith, 1992	Prehistoric milling features and subsurface artifacts	Site	Intersects	E-55
P-37-012649	CA-SDI- 012649	Unknown, n.d.; Lorrey, 1992; Pigniolo, 1999	Site of historic battle of Mule Hill, 1846. Many historical artifacts recovered. Prehistoric component incudes 1 flake and a possible pictograph.	Site	Outside	Н-16
P-37-012650	CA-SDI- 012650	Lorrey, 1992; Lorrey, 1993	Historic Zena Sikes adobe building.	Site	Outside	H-21
P-37-012919	CA-SDI- 012919	Robbins-Wade et al., 1992; Ashkar and Hilton, 2000; Piek and DeCarlo, 2015	Historic domestic refuse deposit	Site		Н-19
P-37-012920	CA-SDI- 012920	Robbins-Wade et al., 1992; Piek and DeCarlo, 2015	Historic domestic refuse deposit	Site		Н-19
P-37-013477	CA-SDI- 013477	Buysse, 1994	Prehistoric milling feature	Site	Outside	E-60
P-37-013482	CA-SDI- 013482		Prehistoric milling feature	Site	Outside	E-60
P-37-015577		James et al., 1996	Prehistoric isolated mano fragment and flake	Isolate	Intersects	E-51
P-37-015892		Case, 1997	Prehistoric isolated core	Isolate	Outside	H-16
P-37-015893		Case, 1997	Prehistoric isolated portable stone mortar	Isolate	Outside	Н-16
P-37-017871		Marsh, 1983	Private residence, built 1938	Built Environment	Intersects	E-50 adjacent
P-37-018732		Leary, 1983	Private residence, built 1938	Built Environment	Outside	E-61
P-37-018745		Leary, 1983	Private residence, built ~1930	Built Environment	Outside	E-54

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-018899		Leary, 1983	Private residence, built ~1930	Built Environment	Outside	E-54
P-37-019064		Pigniolo and Dietler, 2000	Historic Escondido Gravity Float Line, Built 1932	Built Environment	Outside	E-61
P-37-019112	CA-SDI- 015843	James and Briggs, 2000	Prehistoric artifact scatter	Site	Outside	H-29
P-37-019202	CA-SDI- 015882	Pigniolo, 1999	Prehistoric milling features and a surface artifact scatter	Site	Outside	H-24
P-37-019317		Leary, 1983	Private residence, built ~1920	Built Environment	Outside	E-54
P-37-019437		Leary, 1983	Private residence, built ~1890	Built Environment	Outside	E-55
P-37-019518		Leary, 1983	Private residence, built 1920s	Built Environment	Outside	E-54
P-37-019519		Leary, 1983	Private residence, built ~1930	Built Environment	Outside	E-54
P-37-019520		Leary, 1983	Private residence, built ~1890	Built Environment	Outside	E-54
P-37-019622		Leary, 1983	Private residence, built 1930s	Built Environment	Outside	E-54
P-37-019623		Leary, 1983	Private residence, built ~1930	Built Environment	Outside	E-54
P-37-019624		Leary, 1983	Private residence, built \sim 1930	Built Environment	Outside	E-54
P-37-019625		Leary, 1983	Private residence, built 1930s	Built Environment	Outside	E-54
P-37-023913		Unknown, n.d.	Historic Zena Sikes Adobe San Diego Historic Landmark Register form	Built Environment	Outside	Н-21
P-37-024169		McLean and Michalsky, 2001	Escondido Mutual Water Company Collection Point	Site	Outside	Multiple
P-37-024458		Underwood and Fitzsimmons, 2001	Historic isolated farming equipment	Isolate	Outside	E-55
P-37-028555	CA-SDI- 018585	Unknown, 1970	Battle of Mule Hill San Diego Historic Landmark (#452) Register form	Site	Outside	H-21
P-37-029808		Solis, 2008	Prehistoric isolated mano	Isolate	Outside	H-21
P-37-030889		Van Wormer, 2009; Piek and DeCarlo, 2015	Vista Irrigation District Bench Flumes and Siphon built in the 1920s	Built Environment	Intersects	E-58

Primary	Trinomial	Recorders, date	Description	Type: Site/Built Environment/Isolate	Intersects survey buffer or outside	Work Location
P-37-030889		Van Wormer, 2009; Piek and DeCarlo, 2015	Vista Irrigation District Bench Flumes and Siphon built in the 1920s	Built Environment	Outside	SM-05
P-37-030889		Van Wormer, 2009; Piek and DeCarlo, 2015	Vista Irrigation District Bench Flumes and Siphon built in the 1920s	Site	Intersects	E-58
P-37-032539	CA-SDI- 020662	Rodgers, n.d., Gallegos and Trampier, 1997 and 2012	Prehistoric milling features and a surface artifact scatter	Site	Outside	E-47
P-37-033269	CA-SDI- 020941	Lenker, 1978; Stropes; 2013	Prehistoric subsurface surface artifacts	Site	Outside	E-55
P-37-035581		Stringer-Bowsher, 2012	Historic residential complex	Built Environment	Outside	H-19
P-37-035623	CA-SDI- 021808	Daniels, 2016	Prehistoric milling features	Site	Outside	H-19
P-37-035866	CA-SDI- 021873	Smolik et al, 2015	Adobe brick manufacturing site including an adobe brick making machine in operation from 1949-1971. 15 features over 4 loci	Site	Outside	H-17
P-37-036603		Davidson, 2017	Quince Street Warehouse Complex	Built Environment	Outside	E-51
P-37-037734	CA-SDI- 022477	Piek and DeCarlo, 2015	Historic structure foundation	Site	Outside	Н-19

Note: Gray shading denotes resources that intersect with the cultural resources survey area. Note: Gray shading denotes resources that intersect with the cultural resources survey area.

P-37-000572/CA-SDI-572

This prehistoric resource is lithic scatter of flakes, manos, and a hammerstone, first recorded by Delbert True in the early 1950s, before the area was developed. No updates to the original record have been submitted. The site has not been evaluated for its potential eligibility to the CRHR or NRHP.

P-37-006726/CA-SDI-6726

This prehistoric archaeological site was recorded in 1978 as one of series of bedrock milling locations in the area. The site was reported of consisting of two bedrock milling features with a total of seven milling elements, including six mortars and one slick. No artifacts were recorded at the time. The site has not been evaluated for eligibility to the CRHR or NRHP.

P-37-006727/CA-SDI-6727

This prehistoric archaeological site was recorded in 1978 as one of series of bedrock milling locations in the area. The site was reported of consisting of three bedrock milling features with a total of 11 milling elements, including one mortar and 10 slicks. A stone pestle was observed on the ground surface. When the site was recorded, it was noted that it was in eminent danger of being destroyed by development of a shopping center. The site has not been evaluated for eligibility to the CRHR or NRHP.

P-37-008280/CA-SDI-8280

This resource is a prehistoric habitation site and probably part of a larger village complex, but also includes a historical component. Site constituents include bedrock milling features, lithic waste, groundstone, pictographs and historical foundation, and building remains. The site is very large and related to site CA-SDI-12,209, which was recorded just to the north. The site has been affected by development of a wastewater treatment facility and surrounding industrial/business parks, but much of the site remains undeveloped, although not undisturbed. The portion of the site recorded within the current study area is within an area that has been developed and is mostly paved over. The site was previously evaluated through test excavation and found to be eligible for the CRHR and NRHP, although it was noted that not all portions of the site contribute to its significance.

P-37-012601/CA-SDI-12,601

This archaeological site is a prehistoric bedrock milling site with associated sparse lithic artifacts. The site was identified as containing three bedrock milling features with seven slicks. In 1992, the site was tested with the excavation of eight shovel test probes and a single 1 x 1-meter test unit. A total of 10 flakes were recovered during significance testing of the site. The site has previously been determined to be ineligible for NRHP through the Section 106 process, but was not evaluated for the CRHR.

P-37-015577

P-37-015577 is a prehistoric isolate resource consisting of single, secondary porphyritic metavolcanic flake and a granitic mano fragment. The artifacts were in 1996 within a disturbed

setting within the Atchison, Topeka, and Santa Fe Railway right-of-way. As an isolate, the resource is not eligible for the CRHR or NRHP.

P-37-017871

This built environment cultural resource is a private residence built in 1938. The house was recorded in 1983, and the builder and architect of the structure are unknown. The structure appears to have been demolished since the time it was recorded.

P-37-030889

This built environment cultural resource is the Vista Irrigation flume and siphons constructed in the 1920s. The water system was built using a combination of gunite bench flumes along various ridges and connecting steel and concrete siphons to convey water across canyons and valleys between the ridges where the flumes are located. The system was originally a little over 12 miles long and carried water from Vista/San Marcos to Escondido. The resource was previously evaluated in 2009 and considered to be eligible for both the CRHR and the NRHP, but SHPO concurrence for this determination is unknown.

Native American Contact and Outreach

ICF submitted a request to the NAHC for information in the Sacred Lands File database on May 21, 2019, in order to acquire more information about potential cultural resources within the APE and vicinity. A response from the NAHC was received on June 5, 2019. The NAHC indicated that no traditional cultural places are located within the APE that may be affected by the proposed project. Additionally, the NAHC provided a list of 31 Native American tribes and individuals to contact about the proposed project and requested follow-up phone calls. Letters were sent to the Native American tribes and individuals on October 28, 2019. Responses were received from the Viejas Band of Kumeyaay Indians, who recommended contacting the San Pasqual Band of Mission Indians, and from the San Pasqual Band of Mission Indians, who requested additional maps of the earthen facilities and monitoring by Native Americans for work in the vicinity of recorded archaeological sites. A follow up letter was sent to the San Pasqual Tribe with updated project maps and earthen berm locations on January 8, 2020. The Rincon Band of Luiseno Indians considers the project to be within the Tribe's specific area of historic interest. The Pala Band of Mission Indians considers the Project outside their Traditional Use Area and requested Native American monitors be present for survey and ground-disturbing activities. All the tribes requested to be kept in the information loop in case of project changes and have copies of reports sent to them. Copies of Native American contact correspondence can be found in Appendix C, Native American Consultation.

The City of Escondido received responses to consult under Assembly Bill 52 (Chapter 532, Statutes 2014) (AB 52) from the Rincon Band of Luiseno Indians and the San Luis Rey Band of Mission Indians. The Rincon Band requested tribal monitoring at a number of facilities at a meeting in June of 2020. The San Luis Rey Band also requested the presence of tribal monitors for ground disturbing activities at a number of facilities via email in September 2020.

Results

Pedestrian Survey

ICF archaeologists conducted a pedestrian survey of the 361-acre survey area in October and November 2019. The survey area consisted of each facility location and a 50-buffer. The archaeologists examined the ground surface within each survey area for the presence of prehistoric artifacts and features, prehistoric milling surfaces on exposed bedrock, and historic artifacts and features. Visibility ranged from good in road shoulders to extremely poor in areas with dense vegetation. Vegetation within the APE consisted of agricultural land, native and non-native grasses, disturbed native chaparral, and landscaped residential yards and roadsides. For this survey, visibility was characterized as good to excellent if 75 percent or more of the ground was visible, fair to good if 25-75 percent was visible, and poor to fair if 5-25 percent of the ground was visible. The archaeologists took notes and photographs of the project survey area and all identified cultural resources (See Photos 1 and 2, to follow).

During the field surveys, none of the eight previously recorded archaeological resources were relocated. One new prehistoric bedrock milling site, ICF-ESC94-P-001, was identified. For the most part, this appears to be due to environmental conditions that have occurred since the resources were originally recorded. Some of the resources appear to have been buried or eroded away, destroyed by later development, or were inaccessible because of dense vegetation. Discrepancies may also be due to sites being recorded prior to the common use of Geographic Information Systems (GIS) in site recording, resulting in the original recorded locations being off or erroneously mapped (Table 3, to follow) (Figure 3, Cultural Survey Results, in Appendix B [Confidential]).

Detailed Project Report forms were updated for sites identified in the APE and are in attached Appendix D.



Photo 1. E-54 Reidy Creek and Centre City Parkway Overview



Photo 2. Overview at RGP 94 Kit Carson Downstream Mitigation Area

Table 3. Cultural Resources Identified within the APE and Survey Results

Site/Isolate Designation	Project Component	Description	NRHP/CRHR Status	Relocated/Observations
P-37-000572/CA-SDI-572	Kit Carson Mitigation Area	Prehistoric lithic scatter	Unevaluated	Not relocated; very disturbed and appears destroyed
P-37-004963/CA-SDI-4963	Н-16	Prehistoric lithic scatter	Unevaluated	Not relocated; possibly mismapped and disturbed
P-37-006726/CA-SDI-6726	E-54	Bedrock milling site	Unevaluated	Not relocated; boulder outcrops observed but have been mostly buried by soil
P-37-006727/CA-SDI-6727	E-54	Bedrock milling site	Unevaluated	Not relocated; boulder outcrops and placed boulders observed, but have been mostly buried by soil
P-37-008280/CA-SDI-8280	E-55	Large prehistoric habitation site with historical remains	Eligible, but portion within APE destroyed through previous development	Not relocated; portion within APE is developed and partially paved over
P-37-012601/CA-SDI-12601	E-55	Prehistoric milling features and subsurface artifacts	Not eligible	Not relocated in APE
P-37-015577	E-51	Prehistoric isolate	Not eligible	Not relocated
P-37-017871	E-50	Historical residence	Not eligible	Appears demolished
P-37-30889	E-58	Vista Irrigation District Bench Flumes and Siphon built in the 1920s	Recommended eligible	Not relocated due to being subterranean in this area
ICF-ESC94-P-001	None, possible mitigation area since removed from current project.	Bedrock milling site not previously recorded.	Unevaluated	New site identified during survey; more milling may be present; additional bedrock was buried or covered in dense vegetation

Conclusions

None of the previously recorded cultural resources were identified, and one previously unidentified cultural resource was located within the APE. A variety of reasons is possible for this result. Many of the locations were overgrown with vegetation that hindered visibility and access to areas where sites were previously recorded. In some cases, bedrock was identified where bedrock milling was recorded; however, the bedrock is either buried or eroded, and milling surfaces were not relocated. Additionally, some areas have been developed since the resources were originally recorded, and the sites may have been destroyed or paved and developed over. Many of the site records are relatively old, and the location information on some of the forms may be incorrect and misplotted.

Recommendations

ICF conducted a pedestrian survey to identify cultural resources in the APE. The field efforts identified one new archaeological site, but no evidence of the previously recorded cultural resources within the APE. However, several of the facilities could not be adequately surveyed due to poor visibility. It is recommended that the initial maintenance activities at these facilities (Table 4, to follow) are monitored by a qualified archaeologist. Based upon the results of initial ground disturbance, the monitor would be able to determine if the potential for subsurface disturbance warrants further monitoring.

Table 4. Facilities Recommended for Archaeological Monitoring

	Rationale for Archaeological Monitoring
E-54	Previously recorded resource nearby.
E-55	Previously recorded resource nearby.
E-58	Dense vegetation. Previously recorded resource nearby.
E-60	Dense vegetation. Previously recorded resources nearby.
H-19	Lack of access.
H-16	Dense vegetation precluded relocating previously recorded site in APE.
SM-05	Monitor due to limited visibility and recorded resources nearby.

Due to concerns expressed by the Native American community, additional consultation(s) is recommended prior to implementation of routine maintenance activities slated for the earthen-lined facilities. Native American monitoring is recommended for during the first maintenance activity that involves ground disturbing activities at the following earthen facilities: E-53, E-54, E-55, E-56, E-58, E-60, H-15, H-16, H-17, H-18, H-19, H-20, H-21, SM-05, and HAARF. Monitoring requirements will be included in the Monitoring and Discovery Plan, along with measures to address any cultural discoveries during project-related activities. Once the areas have been inspected by an archaeologist and monitoring has been completed, documentation will be prepared confirming that there is no further need to monitor future maintenance activities at the same facility locations.

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City of Escondido References Cited

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Appendix A Record Search Results

Appendix A- Record Search Results
Record Search Maps and Site Forms constitute over 800 pages and are on file at ICF, 525 B Street, Suite 1700, San Diego, CA . In order to reduce paperwork and digital space the information will be made available upon request by the City of Escondido



South Coastal Information Center San Diego State University 5500 Campanile Drive San Diego, CA 92182-5320 Office: (619) 594-5682 www.scic.org scic@mail.sdsu.edu

CALIFORNIA HISTORICAL RESOURCES INFORMATION SYSTEM CLIENT IN-HOUSE RECORDS SEARCH

Company:

ICF

Company Representative:

Nara Cox

Date:

5/22/2019

Project Identification:

Escondido Creek 59.19

Search Radius:

1/4 mile

Historical Resources:

SELF

Trinomial and Primary site maps have been reviewed. All sites within the project boundaries and the specified radius of the project area have been plotted. Copies of the site record forms have been included for all recorded sites.

Previous Survey Report Boundaries:

SELF

Project boundary maps have been reviewed. National Archaeological Database (NADB) citations for reports within the project boundaries and within the specified radius of the project area have been included.

Historic Addresses:

SELF

A map and database of historic properties (formerly Geofinder) has been included.

Historic Maps:

SELF

The historic maps on file at the South Coastal Information Center have been reviewed, and copies have been included.

Copies:

272

Hours:

3

Etce Lins = 33 Lines



South Coastal Information Center San Diego State University 5500 Campanile Drive San Diego, CA 92182-5320 Office: (619) 594-5682 www.scic.org scic@mail.sdsu.edu

CALIFORNIA HISTORICAL RESOURCES INFORMATION SYSTEM CLIENT IN-HOUSE RECORDS SEARCH

Company:

ICF

Company Representative: Nara Cox

Date:

6/3/2019

Project Identification:

Escondido Creek RGP94

Search Radius:

1/4 mile

Historical Resources:

SELF

Trinomial and Primary site maps have been reviewed. All sites within the project boundaries and the specified radius of the project area have been plotted. Copies of the site record forms have been included for all recorded sites.

Previous Survey Report Boundaries:

SELF

Project boundary maps have been reviewed. National Archaeological Database (NADB) citations for reports within the project boundaries and within the specified radius of the project area have been included.

Historic Addresses:

SELF

A map and database of historic properties (formerly Geofinder) has been included.

Historic Maps:

SELF

The historic maps on file at the South Coastal Information Center have been reviewed, and copies have been included.

Copies:

596

Hours:

Excel lines = 141 Lines

Appendix B Figure 3 Cultural Survey Results (CONFIDENTIAL)

Appendix C Native American Consultation

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION

1550 Harbor Blvd, Suite 100 West Sacramento, CA 95501 (916) 373-3710 (916) 373-5471 – Fax nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project:		
County:		
Township:	Range:	
Company/Firm	/Agency:	
Contact Person	ı:	
Street Address	:	
City:		
	Extension:	
Г		
Email:		
Project Descrip		
Project Loc	cation Map is attached	

SLF&Contactsform: rev: 05/07/14

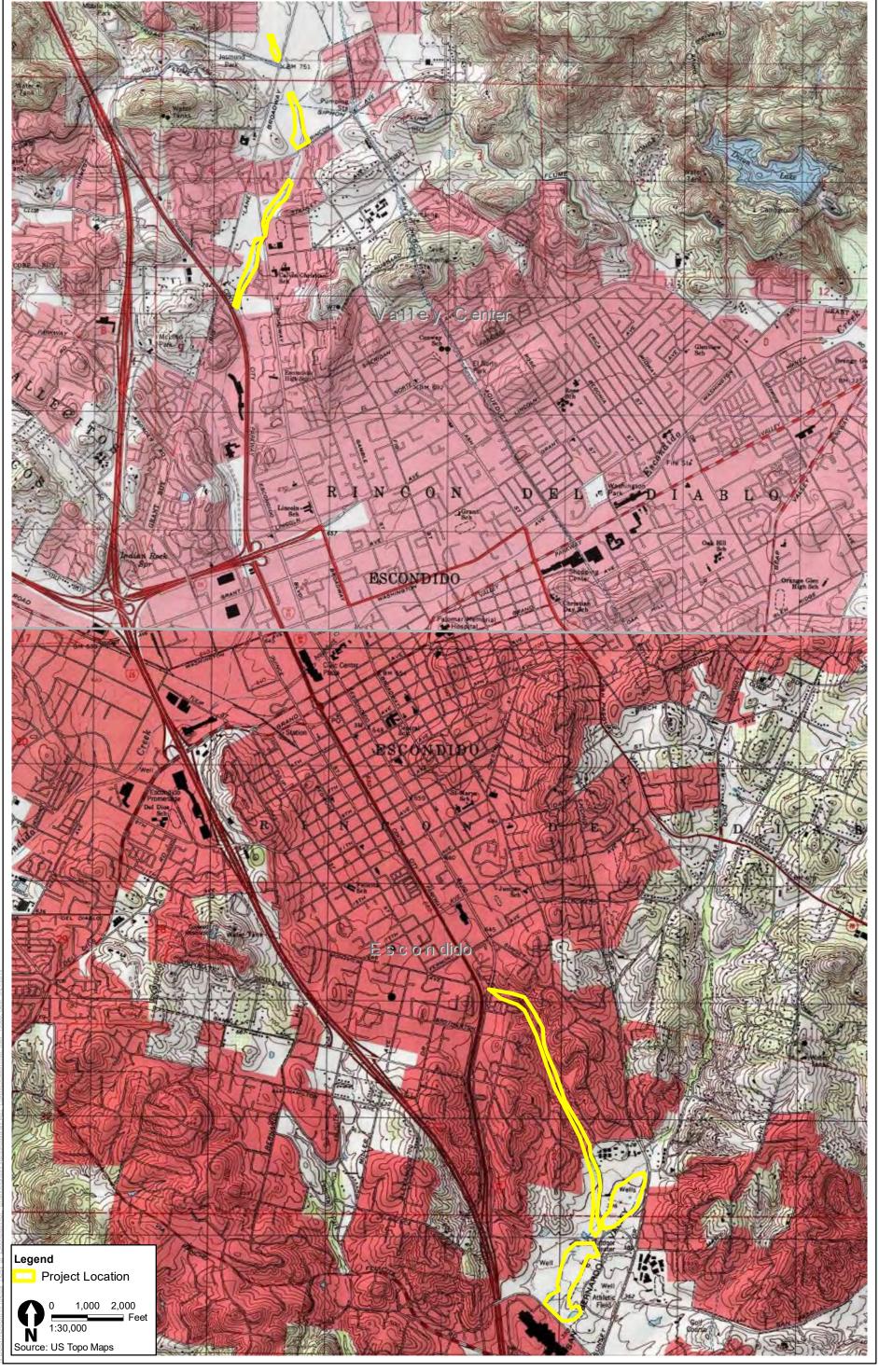


Figure 1
Project Location

STATE OF CALIFORNIA Gavin Newsom, Governor

NATIVE AMERICAN HERITAGE COMMISSION Cultural and Environmental Department 1550 Harbor Blvd., Suite 100 West Sacramento, CA 95691

Phone: (916) 373-3710 Email: nahc@nahc.ca.gov Website: http://www.nahc.ca.gov

Twitter: @CA_NAHC

June 5, 2019

Patrick McGinnis ICF

VIA Email to: Patrick.mcginnis@icf.com

RE: City of Escondido RGP 94 Channel Maintenance Program Project, San Diego County

Dear Mr. McGinnis:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were <u>negative</u>. However, the absence of specific site information in the SLF 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.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. 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. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: steven.quinn@nahc.ca.gov.

Sincerely,

Steven Quinn

Associate Governmental Program Analyst

Attachment



Native American Heritage Commission Native American Contact List San Diego County 6/5/2019

Agua Caliente Band of Cahuilla Indians

Jeff Grubbe, Chairperson 5401 Dinah Shore Drive Palm Springs, CA, 92264

Phone: (760) 699 - 6800 Fax: (760) 699-6919 Cahuilla

Cahuilla

Diegueno

Diegueno

Diegueno

Diegueno

Agua Caliente Band of Cahuilla Indians

Patricia Garcia-Plotkin, Director

5401 Dinah Shore Drive Palm Springs, CA, 92264

Phone: (760) 699 - 6907 Fax: (760) 699-6924

ACBCI-THPO@aguacaliente.net

Barona Group of the Capitan Grande

Edwin Romero, Chairperson 1095 Barona Road

Lakeside, CA, 92040 Phone: (619) 443 - 6612 Fax: (619) 443-0681

Fax: (619) 443-0681 cloyd@barona-nsn.gov

Campo Band of Diegueno Mission Indians

Ralph Goff, Chairperson 36190 Church Road, Suite 1

Campo, CA, 91906 Phone: (619) 478 - 9046 Fax: (619) 478-5818 rgoff@campo-nsn.gov

Ewiiaapaayp Tribe

Robert Pinto, Chairperson

4054 Willows Road Alpine, CA, 91901

Phone: (619) 445 - 6315 Fax: (619) 445-9126 wmicklin@leaningrock.net

Ewiiaapaayp Tribe

Michael Garcia, Vice Chairperson

4054 Willows Road Alpine, CA, 91901

Phone: (619) 445 - 6315 Fax: (619) 445-9126 michaelg@leaningrock.net lipay Nation of Santa Ysabel

Clint Linton, Director of Cultural

Resources P.O. Box 507

Santa Ysabel, CA, 92070 Phone: (760) 803 - 5694 cjlinton73@aol.com

lipay Nation of Santa Ysabel

Virgil Perez, Chairperson P.O. Box 130

Santa Ysabel, CA, 92070 Phone: (760) 765 - 0845

Fax: (760) 765-0320

Inaja-Cosmit Band of Indians

Rebecca Osuna, Chairperson 2005 S. Escondido Blvd.

Escondido, CA, 92025 Phone: (760) 737 - 7628 Fax: (760) 747-8568

Jamul Indian Village

Erica Pinto, Chairperson P.O. Box 612

Jamul, CA, 91935 Phone: (619) 669 - 4785

Fax: (619) 669-4817 epinto@jiv-nsn.gov

Kwaaymii Laguna Band of

Mission Indians
Carmen Lucas,

P.O. Box 775 Kwaaymii Pine Valley, CA, 91962 Diegueno

Phone: (619) 709 - 4207

La Jolla Band of Luiseno Indians

Fred Nelson, Chairperson 22000 Highway 76

Pauma Valley, CA, 92061 Phone: (760) 742 - 3771 Luiseno

Diegueno

Diegueno

Diegueno

Diegueno

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 Resource Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed City of Escondido RGP 94 Channel Maintenance Program Project, San Diego County.

Native American Heritage Commission Native American Contact List San Diego County 6/5/2019

La Posta Band of Diegueno Mission Indians

Javaughn Miller, Tribal Administrator 8 Crestwood Road

Crestwood Road Diegueno

Boulevard, CA, 91905 Phone: (619) 478 - 2113 Fax: (619) 478-2125 jmiller@LPtribe.net

La Posta Band of Diegueno Mission Indians

Gwendolyn Parada, Chairperson

8 Crestwood Road Diegueno

Boulevard, CA, 91905 Phone: (619) 478 - 2113 Fax: (619) 478-2125 LP13boots@aol.com

Manzanita Band of Kumeyaay Nation

Angela Elliott Santos, Chairperson

P.O. Box 1302 Diegueno

Boulevard, CA, 91905 Phone: (619) 766 - 4930 Fax: (619) 766-4957

Mesa Grande Band of Diegueno Mission Indians

Michael Linton, Chairperson

P.O Box 270 Diegueno

Cupeno

Luiseno

Santa Ysabel, CA, 92070 Phone: (760) 782 - 3818 Fax: (760) 782-9092

mesagrandeband@msn.com

Pala Band of Mission Indians

Shasta Gaughen, Tribal Historic Preservation Officer

PMB 50, 35008 Pala Temecula

Rd.

Pala, CA, 92059

Phone: (760) 891 - 3515 Fax: (760) 742-3189 sgaughen@palatribe.com

Pauma Band of Luiseno Indians

Temet Aguilar, Chairperson

P.O. Box 369

Luiseno

Pauma Valley, CA, 92061 Phone: (760) 742 - 1289 Fax: (760) 742-3422 bennaecalac@aol.com

Pechanga Band of Luiseno Indians

Paul Macarro, Cultural Resources

Coordinator

P.O. Box 1477 Luiseno

Temecula, CA, 92593 Phone: (951) 770 - 6306 Fax: (951) 506-9491

pmacarro@pechanga-nsn.gov

Pechanga Band of Luiseno Indians

Mark Macarro, Chairperson

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Temecula, CA, 92593 Phone: (951) 770 - 6000 Fax: (951) 695-1778

epreston@pechanga-nsn.gov

Rincon Band of Luiseno Indians

Bo Mazzetti, Chairperson

One Government Center Lane Luiseno

Valley Center, CA, 92082 Phone: (760) 749 - 1051 Fax: (760) 749-5144 bomazzetti@aol.com

Rincon Band of Luiseno Indians

Jim McPherson, Tribal Historic

Preservation Officer

One Government Center Lane Luiseno

Valley Center, CA, 92082 Phone: (760) 749 - 1051 Fax: (760) 749-5144 vwhipple@rincontribe.org

San Luis Rey Band of Mission Indians

indians

1889 Sunset Drive Vista, CA, 92081

Phone: (760) 724 - 8505 Fax: (760) 724-2172

cjmojado@slrmissionindians.org

Luiseno

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 Resource Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed City of Escondido RGP 94 Channel Maintenance Program Project, San Diego County.

Native American Heritage Commission Native American Contact List San Diego County 6/5/2019

San Luis Rey Band of Mission Indians

Luiseno

Diegueno

Diegueno

Cahuilla

Luiseno

Cahuilla

Luiseno

San Luis Rey, Tribal Council 1889 Sunset Drive

Vista, CA, 92081

Phone: (760) 724 - 8505 Fax: (760) 724-2172

cjmojado@slrmissionindians.org

San Pasqual Band of Diegueno Mission Indians

John Flores, Environmental Coordinator

P. O. Box 365

Valley Center, CA, 92082

Phone: (760) 749 - 3200 Fax: (760) 749-3876 johnf@sanpasqualtribe.org

San Pasqual Band of Diegueno Mission Indians

Allen Lawson, Chairperson P.O. Box 365

Valley Center, CA, 92082

Phone: (760) 749 - 3200 Fax: (760) 749-3876

allenl@sanpasqualtribe.org

Soboba Band of Luiseno Indians

Scott Cozart, Chairperson

P. O. Box 487 San Jacinto, CA, 92583

Phone: (951) 654 - 2765 Fax: (951) 654-4198

jontiveros@soboba-nsn.gov

Soboba Band of Luiseno Indians

Joseph Ontiveros, Cultural Resource Department P.O. BOX 487

San Jacinto, CA, 92581 Phone: (951) 663 - 5279

Fax: (951) 654-4198

jontiveros@soboba-nsn.gov

Sycuan Band of the Kumeyaay Nation

Cody J. Martinez, Chairperson

1 Kwaaypaay Court El Cajon, CA, 92019

Phone: (619) 445 - 2613 Fax: (619) 445-1927

ssilva@sycuan-nsn.gov

Sycuan Band of the Kumeyaay Nation

Manager

1 Kwaaypaay Court

Phone: (619) 312 - 1935

Viejas Band of Kumeyaay Indians

Robert Welch, Chairperson

1 Vieias Grade Road Alpine, CA, 91901

Phone: (619) 445 - 3810

Fax: (619) 445-5337

Viejas Band of Kumeyaay Indians

Ernest Pingleton, Tribal Historic Officer, Resource Management

1 Vieias Grade Road Alpine, CA, 91901

Phone: (619) 659 - 2314 epingleton@viejas-nsn.gov

Kumeyaay

Diegueno

Diegueno

Lisa Haws, Cultural Resources

Kumeyaay El Cajon, CA, 92019

lhaws@sycuan-nsn.gov

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 assessment for the proposed City of Escondido RGP 94 Channel Maintenance Program Project, San Diego County.



Pauma Band of Luiseno Indians Temet Aguilar, Chairperson P.O. Box 369 Pauma Valley, CA, 92061

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Aguilar:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

ICF has conducted a Phase I cultural resources inventory, and prepare a memorandum documenting the environmental surveys and CEQA reporting in support of the project. To accomplish this objective, ICF cultural resources personnel performed a records search, archival research, and a Sacred Lands File search. Archival research refers to both written and oral history including record searches at the South Central Information Center (SCIC), the Native American Heritage Commission (NAHC), as well as Native American consultation. Prehistoric sites have been identified directly within the project area as a result the record search and pedestrian survey.

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Sincerely,

Patrick McGinnis, MA

Patrick Midinin

Archaeologist



San Pasqual Band of Diegueno Mission Indians Steven Cope, Chairperson P.O. Box 365 Valley Center, CA, 92082

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Cope:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Soboba Band of Luiseno Indians Scott Cozart, Chairperson P.O. Box 487 San Jacinto, CA, 92583

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Cozart:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Mighin

Archaeologist



Campo Band of Diegueno Mission Indians Harry Cuero, Chairperson 36190 Church Road, Suite 1 Campo, CA 91906

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Cuero:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Jamul Indian Village Lisa Cumper, Chairperson P.O. Box 612 Jamul, CA 91935

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Ms. Cumper:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Manzanita Band of Kumeyaay Nation Angela Elliott Santos, Chairperson P.O. Box 1302 Boulevard, CA, 91905

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Ms. Elliott Santos:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



San Pasqual Band of Diegueno Mission Indians John Flores, Environmental Coordinator P.O. Box 365 Valley Center, CA, 92082

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Flores:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Ewiiaapaayp Tribal Office Michael Garcia, Vice Chairperson 4054 Willows Road Alpine, CA 91901

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Garcia:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Mighin

Archaeologist



Agua Caliente Band of Cahuilla Indians Patricia Garcia-Plotkin, Director 5401 Dinah Shore Drive Palm Springs, CA, 92264

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Ms. Garcia-Plotkin:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Pala Band of Mission Indians Shasta Gaughen, THPO PMB 50, 35008 Pala Temecula Rd. Pala, CA, 92059

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Ms. Gaughen:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Agua Caliente Band of Cahuilla Indians Jeff Grubbe, Chairperson 5401 Dinah Shore Drive Palm Springs, CA, 92264

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Grubbe:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Mid:

Archaeologist



Iipay Nation of Santa Ysabel Clint Linton, Director of Cultural Resources P.O. Box 507 Santa Ysabel, CA 92070

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Linton:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Kwaaymii Laguna Band of Mission Indians Carmen Lucas P.O. Box 775 Pine Valley, CA 91962

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Ms. Lucas:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Mesa Grande Band of Diegueno Mission Indians Michael Linton, Chairperson P.O. Box 270 Santa Ysabel, CA, 92070

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Linton:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patrick Midinin

Archaeologist



Pechanga Band of Luiseno Indians Mark Macarro, Chairperson P.O. Box 1477 Temecula, CA, 92593

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Macarro:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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If you would like to participate in the consultation process, or if you have any recommendations regarding the Project, please address them to me so that I can incorporate them into our draft report. As required by State law, all site data and other culturally sensitive information will not be released to the general public and will be kept strictly confidential. This outreach is for due diligence and not under AB52 or Section 106. I can be reached at 858-444-3947, or by email at Patrick.McGinnis@icf.com.

Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Sycuan Band of the Kumeyaay Nation Cody J. Martinez, Chairperson 1 Kwaaypaay Court El Cajon, CA 92019

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Martinez:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patrick Medinin

Archaeologist



Rincon Band of Luiseno Indians Bo Mazzetti, Chairperson 1 Government Center Lane Valley Center, CA, 92082

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Mazzetti:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patrick Midinin

Archaeologist



Rincon Band of Luiseno Indians Jim McPherson, THPO 1 Government Center Lane Valley Center, CA, 92082

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. McPherson:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Medinin

Archaeologist



La Posta Band of Diegueno Mission Indians Javaughn Miller, Tribal Administrator 8 Crestwood Road Boulevard, CA, 91905

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Miller:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patrick Midinin

Archaeologist



La Jolla Band of Luiseno Indians Fred Nelson, Chairperson 22000 Highway 76 Pauma Valley, CA, 92061

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Nelson:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Soboba Band of Luiseno Indians Joseph Ontiveros, Cultural Resource Department P.O. Box 487 San Jacinto, CA, 92581

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Ontiveros:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Sycuan Band of the Kumeyaay Nation Kristie Orosco, Cultural Resources Manager 1 Kwaaypaay Court El Cajon, CA 92019

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Ms. Orosco:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Inaja-Cosmit Band of Indians Rebecca Osuna, Chairperson 2005 S. Escondido Blvd. Escondido, CA 92025

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Ms. Osuna:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Mighin

Archaeologist



Pechanga Band of Luiseno Indians Paul Macarro, Cultural Resources Coordinator P.O. Box 1477 Temecula, CA, 92593

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Macarro:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



La Posta Band of Diegueno Mission Indians Gwendolyn Parada, Chairperson 8 Crestwood Road Boulevard, CA, 91905

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Ms. Parada:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Viejas Band of Kumeyaay Indians Ernest Pingleton, Tribal Historic Officer, Resource Management 1 Viejas Grade Road Alpine, CA 91901

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Pingleton:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Ewiiaapaayp Tribal Office Robert Pinto, Chairperson 4054 Willows Road Alpine, CA 91901

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence

Outreach

Dear Mr. Pinto:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Milinia

Archaeologist



Barona Group of the Capitan Grande Edwin Romero, Chairperson 1095 Barona Road Lakeside, CA, 92040

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Romero:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patrick Midinin

Archaeologist



San Luis Rey Band of Mission Indians San Luis Rey, Tribal Council 1889 Sunset Drive Vista, CA, 92081

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Tribal Council:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

ICF has conducted a Phase I cultural resources inventory, and prepare a memorandum documenting the environmental surveys and CEQA reporting in support of the project. To accomplish this objective, ICF cultural resources personnel performed a records search, archival research, and a Sacred Lands File search. Archival research refers to both written and oral history including record searches at the South Central Information Center (SCIC), the Native American Heritage Commission (NAHC), as well as Native American consultation. Prehistoric sites have been identified directly within the project area as a result the record search and pedestrian survey.

The NAHC completed a search of the Sacred Lands File which failed to indicate the presence of Native American sacred lands within the project area. The NAHC identify you as a person who may have concerns or knowledge of cultural resources in the project area. Any information you might be able to share about the project area would greatly enhance the study and would be appreciated.

If you would like to participate in the consultation process, or if you have any recommendations regarding the Project, please address them to me so that I can incorporate them into our draft report. As required by State law, all site data and other culturally sensitive information will not be released to the general public and will be kept strictly confidential. This outreach is for due diligence and not under AB52 or Section 106. I can be reached at 858-444-3947, or by email at Patrick.McGinnis@icf.com.

Sincerely,

Patrick McGinnis, MA

Patiel Mid:

Archaeologist



Iipay Nation of Santa Ysabel Brandie Taylor, Vice Chairperson P.O. Box 130 Santa Ysabel, CA 92070

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Ms. Taylor:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Medin

Archaeologist



Viejas Band of Kumeyaay Indians Robert Welch, Chairperson 1 Viejas Grade Road Alpine, CA 91901

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Mr. Welch:

The City of Escondido (City) has an ongoing need to effectively maintain the municipal separate storm sewer system in accordance with the City's Regional General Permit (RGP) 94 Channel Maintenance Program (RGP 94 Program). The RGP 94 Program authorizes the City to perform operations and maintenance (O&M) activities at 63 concrete and earthen storm water facilities. In order to implement and renew the RGP 94 Program, of Escondido Utility Department has contracted ICF to provide ongoing Permit Compliance Support of RGP 94 Permit Renewal for Channel Maintenance Activities. The Project is within Sections 9, 4, and 33 and unsectioned portions of Township 12 and 13 South, Range 2 West, and appears on the *Valley Center* and *Escondido*, California USGS 7.5-minute series topographic maps (Figure 1).

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Sincerely,

Patrick McGinnis, MA

Patiel Medinin

Archaeologist



SAN PASQUAL BAND OF MISSION INDIANS
November 7,2019

SAN PASQUAL RESERVATION

Justin Quis Quis Vice Chairman

Tilda M. Green Secretary-Treasurer

David L. Toler Councilman

Joe Chavez Councilman Patrick McGinnis, MA Archaeologist 525 B Street, Suite 1700 San Diego, Ca. 92101

Re: City of Escondido RGP 94 Channel Maintenance Program

Dear Mr. McGinnis,

The San Pasqual Band of Mission Indians Tribal Historic Preservation Office has received your notification of the project referenced above. This letter constitutes our response on behalf of David L. Toler THPO Officer.

We have consulted our maps and determined that the project as described is not within the boundaries of the recognized San Pasqual Indian Reservation. It is, however, within the boundaries of the territory that the tribe considers its Traditional Use Area (TUA). Therefore, we request to be kept in the information loop as the project progresses and would appreciate being maintained on the receiving list for project updates, reports of investigations, and/or any documentation that might be generated regarding previously reported or newly discovered sites. Furthermore, we recommend archaeological monitoring given the proximity of known prehistoric sites. If the project boundaries are modified to extend beyond the currently proposed limits, we request updated information and the opportunity to respond to your changes.

In regard to the channels that are of "earthen storms water facilities", we would like to request a new map showing their locations, as we may recommend San Pasqual Cultural Monitors at those sites.

We appreciate involvement with your initiative and look forward to working with you on future efforts. If you have questions or need additional information, please do not hesitate to contact me by telephone 760-651-5142 or by e-mail at THPO@sanpasqualtribe.org.

Sincerely,

Angelina Gutierrez

Tribal Historic Preservation Office, Monitor Supervisor

San Pasqual Band of Mission Indians



January 8, 2020

San Pasqual Band of Diegueno Mission Indians Angelina Gutierrez, Monitor Supervisor Tribal Historic Preservation Office P.O. Box 365 Valley Center, CA, 92082

Subject: City of Escondido RGP 94 Channel Maintenance Program – Due Diligence
Outreach

Dear Ms. Gutierrez

Thank you for response to the outreach letter sent regarding the City of Escondido's RGP 94 Channel maintenance Program in October 2019. We have received your response dated November 7, 2019 which requests a map of earthen storm water facilities associated with the project. We created a map for this purpose and it is enclosed. I have also included an updated copy with all of the project facility locations for reference. The record search for the project indicated that there are six prehistoric archaeological resources that intersect with project facilities. During pedestrian surveys none of these resources were relocated in the field. In some cases areas had been developed since the resource was recorded, vegetation and soil obscured the ground surface in the area of the resource, or the resource appear to have been mismapped when originally recorded.

Currently, we are recommending archaeological and Native American monitoring at the locations listed below due to proximity to previously recorded archaeological sites or the inability too observe the ground surface due to dense vegetation or access issues.

Facilities Recommended for Archaeological Cultural Resources Monitoring

Facility ID	Rationale for Monitoring
E-54	Previously recorded resource nearby.
E-55	Previously recorded resource nearby.
E-58	Dense vegetation. Previously recorded resource nearby.
E-60	Dense vegetation. Previously recorded resources nearby.
H-19	Lack of access.
Н-16	Dense vegetation precluded relocating previously recorded site in APE.

Angelina Gutierrez January 8, 2020 Page 2 of 2

H-18 Dense vegetation. No monitoring recommended for the bike trail or

within Concrete Channel,

SM-05 Monitor due to limited visibility and recorded resources nearby.

Kit Carson Park Monitor within Kit Carson Downstream Mitigation site due to the

vicinity of CA-SDI-572 and only within 100' of that site.

If you have any recommendations regarding the Project, please address them to me so that I can incorporate them into our project measures. As required by State law, all site data and other culturally sensitive information will not be released to the general public and will be kept strictly confidential. We look forward to continuing to work with you and the Tribe on this project. I can be reached at 858-444-3947, or by email at Patrick.McGinnis@icf.com.

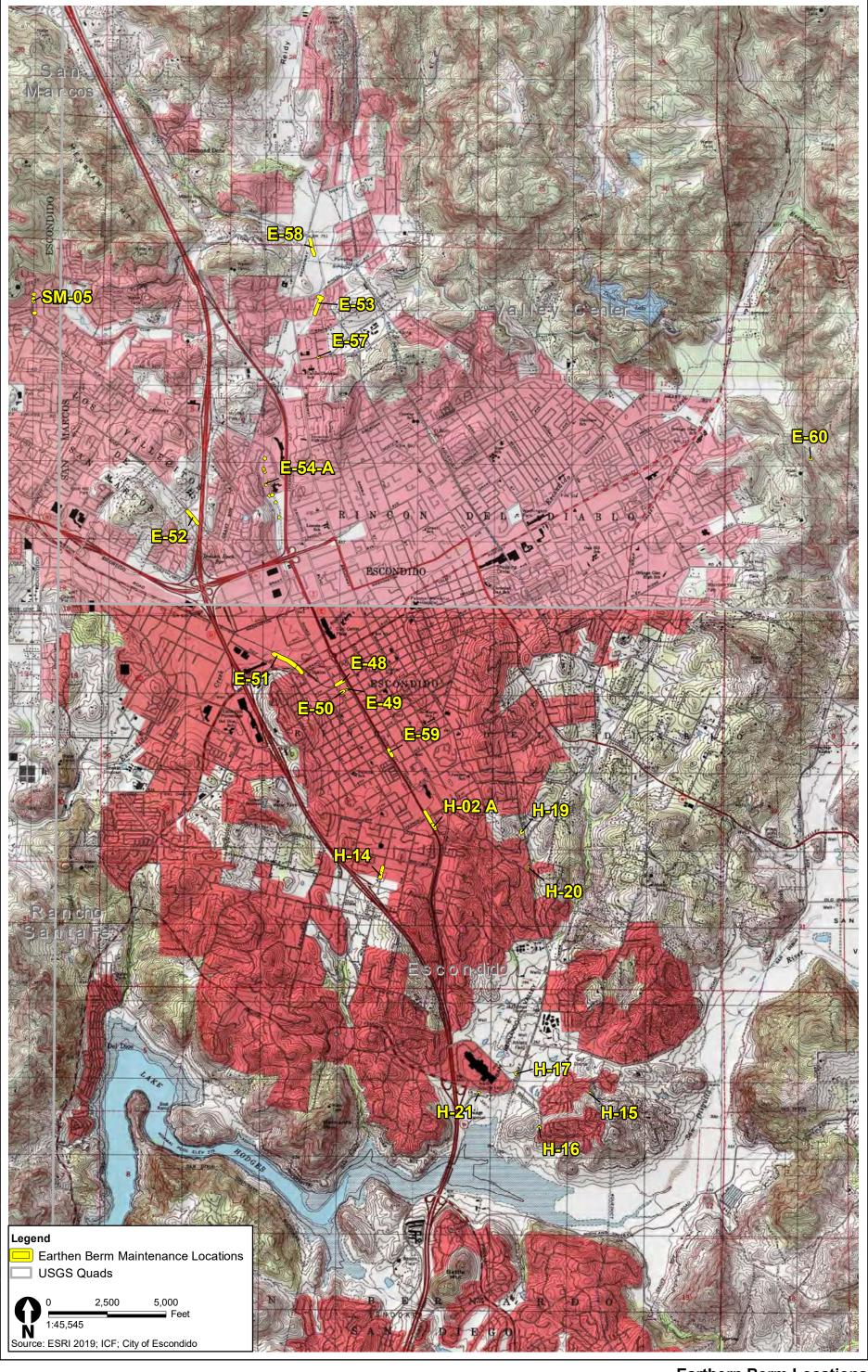
Sincerely,

Patrick McGinnis, MA

Pater Mc Rins

Archaeologist

Encl. Earthen Berm Locations Figure, Project Location Figure





P.O. Box 908 Alpine, CA 91903 #1 Viejas Grade Road Alpine, CA 91901

Phone: 619445.3810 Fax: 619445.5337

viejas.com

November 7, 2019

Patrick McGinnis ICF 525 B Street, Suite 1700 San Diego, CA 92101 USA

RE: RGP 94 Channel Maintenance Program

Dear Mr. McGinnis,

The Viejas Band of Kumeyaay Indians ("Viejas") has reviewed the proposed project and at this time we have determined that the project site has cultural significance or ties to the Kumeyaay Nation. We recommend that you notify the:

San Pasqual Band of Mission Indians

HEAD, Box 365mans Avya Myye

Valley Center, Ca 92082

Additionally, we request, as appropriate, the following:

- All NEPA/CEQA/NAGPRA laws be followed
- Immediately contact San Pasqual on any changes or inadvertent discoveries.

Thank you for your collaboration and support in preserving our Tribal cultural resources. I look forward to hearing from you. Please call me at 619-659-2312 or Ernest Pingleton at 619-659-2314, or email, rteran@viejas-nsn.gov or epingleton@viejas-nsn.gov, for scheduling. Thank you.

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t na vija nigolijeli ta ina oga mali neziti je okojazaja. Slaba ji se az spojavanski pise inelija.

Sincerely,

Ray Teran, Resource Management

VIEJAS BAND OF KUMEYAAY INDIANS

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Co: San Pasqual to the module and gray are now because.



TRIBAL HISTORIC PRESERVATION OFFICE

PALA BAND OF MISSION INDIANS PMB 50, 35008 Pala Temecula Road | Pala, CA 92059 Phone 760-891-3510 | www.palatribe.com

December 4, 2019

Patrick McGinnis ICF 525 B Street, Suite 1700 San Diego, CA 92101

Re: City of Escondido RGP 94 Channel Maintenance Program

Dear Mr. McGinnis:

The Pala Band of Mission Indians Tribal Historic Preservation Office has received your notification of the project referenced above. This letter constitutes our response on behalf of Robert Smith, Tribal Chairman.

We have consulted our maps and determined that the project as described is not within the boundaries of the recognized Pala Indian Reservation. The project is also beyond the boundaries of the territory that the tribe considers its Traditional Use Area (TUA). It is, however, situated in close proximity to the Reservation and information generated would likely be useful in better understanding regional culture and history. Therefore, we request as a courtesy to be kept in the information loop as the project progresses and would appreciate being maintained on the receiving list for project updates, reports of investigations, and/or any documentation that might be generated regarding previously reported or newly discovered sites. Further, if the project boundaries are modified to extend beyond the currently proposed limits, we do request updated information and the opportunity to respond to your changes.

Finally, we recommend that Approved Cultural Monitors be present on-site during all survey and all ground-disturbing activities. If you do not have access to an Approved Cultural Resource Monitor, contact us and we will work with you to identify appropriately trained individuals.

We appreciate involvement with your initiative and look forward to working with you on future efforts. If you have questions or need additional information, please do not hesitate to contact Alexis Wallick by telephone at 760-891-3537 or by e-mail at awallick@palatribe.com.

Sincerely,

Shasta C. Gaughen, Ph.D.

Tribal Historic Preservation Officer

Pala Band of Mission Indians

Appendix D DPR Forms

Confidential Appendix: Not for Public Review