PUBLIC NOTICE

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

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APPLICATION FOR PERMIT
Development of a Regional General Permit for the Laguna Niguel Wetlands Operation and Maintenance Project

Public Notice/Application No.: SPL-2017-00745-GS
Project: Regional General Permit for Laguna Niguel Wetlands Operation & Maintenance Project, Orange County, CA
Comment Period: July 17, 2019 through August 16, 2019
Project Manager: Gerardo Salas; (213) 452-3417; Gerardo.Salas@usace.army.mil

Applicant
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City of Laguna Niguel
30111 Crown Valley Parkway
Laguna Niguel, California 92677

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525 B Street, Suite 1700
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Location
The City of Laguna Niguel (City) proposes to conduct routine operations and maintenance (O&M) activities within 13 City-owned wetland sites associated with the Laguna Niguel Wetlands Operation and Maintenance Project (proposed project). The 13 wetland sites are located in the Sulphur Creek watershed; a portion of the Salt Creek Watershed, within Chapparosa Park; and within Crown Valley Regional Park (Figure 1 and Figure 2). The proposed project is located within the City of Laguna Niguel, Orange County, California. Center coordinates for the proposed project are 33.5491194 West and -117.6896167 North.

Activity
The City proposes the development of a Regional General Permit to authorize implementation of the proposed project. The proposed project would include minor maintenance activities within approximately 105 maintenance facilities that occur within the 13 wetland sites. Maintenance facilities include outfalls, risers, culverts, bridge crossings, and pilot low-flow channels. The maintenance activities proposed within these facilities include removing herbaceous vegetation, trimming understory of riparian vegetation, and removal of accumulated sediment to facilitate positive flow and maintain flood risk management capacity (i.e., flowline maintenance). For more information, see Additional Project Information section below.

Interested parties are hereby notified an application has been received for a Department of the Army permit for the activity described herein and shown on the attached drawing(s). We invite you to review today's public notice and provide views on the proposed work. By providing substantive, site-specific comments to the Corps Regulatory Division, you provide information that supports the Corps' decision-making process. All comments received during the comment period become part of the

record and will be considered in the decision. This permit will be issued, issued with special conditions, or denied under Section 404 of the Clean Water Act. Comments should be mailed to:

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, U.S. ARMY CORPS OF ENGINEERS
REGULATORY DIVISION
ATTN: GERARDO SALAS
915 WILSHIRE BOULEVARD, SUITE 930
LOS ANGELES, CALIFORNIA 90017

Alternatively, comments can be sent electronically to: Gerardo.Salas@usace.army.mil

The mission of the U.S. Army Corps of Engineers Regulatory Program is to protect the Nation's aquatic resources, while allowing reasonable development through fair, flexible and balanced permit decisions. The Corps evaluates permit applications for essentially all construction activities that occur in the Nation's waters, including wetlands. The Regulatory Program in the Los Angeles District is executed to protect aquatic resources by developing and implementing short- and long-term initiatives to improve regulatory products, processes, program transparency, and customer feedback considering current staffing levels and historical funding trends.

Corps permits are necessary for any work, including construction and dredging, in the Nation's navigable water and their tributary waters. The Corps balances the reasonably foreseeable benefits and detriments of proposed projects, and makes permit decisions that recognize the essential values of the Nation's aquatic ecosystems to the general public, as well as the property rights of private citizens who want to use their land. The Corps strives to make its permit decisions in a timely manner that minimizes impacts to the regulated public.

During the permit process, the Corps considers the views of other Federal, state and local agencies, interest groups, and the general public. The results of this careful public interest review are fair and equitable decisions that allow reasonable use of private property, infrastructure development, and growth of the economy, while offsetting the authorized impacts to the waters of the United States. The permit review process serves to first avoid and then minimize adverse effects of projects on aquatic resources to the maximum practicable extent. Any remaining unavoidable adverse impacts to the aquatic environment are offset by compensatory mitigation requirements, which may include restoration, enhancement, establishment, and/or preservation of aquatic ecosystem system functions and services.

Evaluation Factors

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof. Factors that will be considered include conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people. In addition, if the proposal would discharge dredged or fill material, the evaluation of the activity will include application of the EPA Guidelines (40 CFR Part 230) as required by Section 404 (b)(1) of the Clean Water Act.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Preliminary Review of Selected Factors

EIS Determination- A preliminary determination has been made an environmental impact statement is not required for the proposed work.

Water Quality- The applicant is required to obtain a water quality certification, under Section 401 of the Clean Water Act, from the California Regional Water Quality Control Board. Section 401 requires any applicant for an individual Section 404 permit provide proof of water quality certification to the Corps of Engineers prior to permit issuance.

Coastal Zone Management-.This project is located outside the coastal zone and preliminary review indicates it would not affect coastal zone resources. After a review of the comments received on this public notice and in consultation with the California Coastal Commission, the Corps will make a final determination of whether this project affects coastal zone resources.

Essential Fish Habitat- No Essential Fish Habitat (EFH), as defined by the Magnuson-Stevens Fishery Conservation and Management Act, occurs within the project area and no EFH is affected by the proposed project.

Cultural Resources- The latest version of the National Register of Historic Places has been consulted and the proposed project site is not listed. In addition, a records search was performed on June 26, 2017 at the California South Central Coastal Information Center. Based on the records search two resources were recorded within the proposed project. A pedestrian survey was completed on September 19, 2018, no cultural resources were observed and the two cultural resources identified in the records search appear to have been destroyed by development as they were not relocated in the field. This review constitutes the extent of cultural resources investigations by the District Engineer, and he is otherwise unaware of the presence of such resources.

In addition, a sacred lands search for the proposed project through the Native American Heritage Commission (NAHC) was conducted on September 20, 2018, and letters to the Native American Tribes identified by NAHC as being affiliated with the project sites were sent on October 3, 2018. These letters described the proposed project and requested comments and/or information on any additional known resources that may be present within the project footprint.

Endangered Species- Preliminary determinations indicate the proposed activity may affect, but is not likely to adversely affect federally-listed endangered or threatened species, and their critical habitat. Protocol surveys were completed in the summer of 2016 for least Bell's vireo (LBV; *Vireo bellii pusillus*) and southwestern willow flycatcher (SWFL; *Empidonax traillii extimus*). Two LBV territories were identified within Site 13 (Salt Creek Corridor Habitat Restoration Area). One SWFL was detected within a LBV territory in Site 13. No LBV or SWFL were detected in the other wetland sites. No

protocol surveys were completed for California gnatcatcher (CAGN; *Polioptila californica*) since the project focuses on O&M activities within wetland sites and would not occur within upland habitat. However, CAGN were detected during the 2016 protocol surveys for SWFL and LBV within Site 13.

In addition, the majority of Site 13 (Salt Creek Corridor Habitat Restoration Area) is located within designated critical habitat for CAGN. Consultation under Section 7 of the Endangered Species Act would be required.

Finally, there may be potential for presence of federally-listed as endangered steelhead trout (*Oncorhynchus mykiss*), in Aliso Creek in March of 2019, which the wetland sites for this project area all tributaries of Aliso.

Public Hearing- Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearing shall state with particularity the reasons for holding a public hearing.

Proposed Activity for Which a Permit is Required

Basic Project Purpose- The basic project purpose comprises the fundamental, essential, or irreducible purpose of the proposed project, and is used by the Corps to determine whether the applicant's project is water dependent (i.e., requires access or proximity to or siting within the special aquatic site to fulfill its basic purpose). Establishment of the basic project purpose is necessary only when the proposed activity would discharge dredged or fill material into a special aquatic site (e.g., wetlands, pool and riffle complex, mudflats, coral reefs). The basic project purpose for the proposed project is the continued operation and maintenance of existing stormwater management facilities. The project is water dependent.

Overall Project Purpose- The overall project purpose serves as the basis for the Corps' 404(b)(1) alternatives analysis and is determined by further defining the basic project purpose in a manner that more specifically describes the applicant's goals for the project, and which allows a reasonable range of alternatives to be analyzed. The overall project purpose for the proposed project is to conduct operation and maintenance activities on existing stormwater management facilities located within 13 wetland sites to ensure adequate flood risk management capacity and avoid potential vector control issues.

Additional Project Information

Baseline information- The 13 wetland sites occur within Salt Creek, Sulphur Creek, and unnamed tributaries to Aliso Creek and Salt Creek.

Eight of the 13 wetland sites are created or restored channels.

- Site 1. West Wetland is a previous mitigation site authorized by the USACE and RWQCB;
- Site 3. North Wetland are constructed treatment wetlands that were created wholly in uplands in 2003 to treat urban runoff prior to it discharging into Sulphur Creek;
- Site 5. Sulphur Creek Park Wetland Enhancement Area occurs directly downstream of the Upper Sulphur Creek Channel Restoration Project. The enhancement of the wetland site included the removal of a channelized, concrete-lined stream to create wider, soft-bottom stream channel, including terraces to enhance flood protection;
- Site 6. Sulphur Creek Wetland Creation Area is a restoration site that created a high flow channel within this area to establish wetland habitat within previously disturbed upland vegetation.

- Sites 7 through 9 (Rancho Niguel; Crowne Royale; and Niguel Ridge, respectively) were previously part of the Upper Sulphur Creek Channel Restoration Project, which included the removal of channelized, concrete-lined streams to create wider, soft-bottom stream channels, including terraces to enhance flood protection. These wetland sites were restored to natural conditions to re-establish a stable, healthy, and sustainable watershed environment to improve environmental conditions within Aliso Creek.
- Site 10. USACE Sulphur Creek Restoration Project was part of the Sulphur Creek Ecosystem Restoration Project completed by the USACE to widen the active floodplain of Sulphur Creek. This work was not completed as part of compensatory mitigation but was funded by the USACE to improve flood capacity within this wetland site.

One of the 13 wetland sites was recently constructed and is proposed as compensatory mitigation for another project.

- Site 4. Crown Valley Park Wetland Creation Area J03P01 was constructed in 2017. The maintenance facilities proposed within this wetland site are based on post-construction conditions as the purpose of this project is to be able to properly maintain the facilities recently constructed. In addition, the entirety of this wetland site is compensatory mitigation for the J03P01 project.

The remaining four wetland sites listed below are natural drainages, although may have been manipulated historically, no restoration efforts or compensatory mitigation activities have occurred within these wetland sites.

- Site 2. East Wetland
- Site 11. Sulphur Creek in Crown Valley Community Park
- Site 12. La Paz Park Wetlands
- Site 13. Salt Creek Corridor Habitat Restoration Area

Project description- The proposed project would include minor maintenance activities within approximately 105 maintenance facilities that occur within the 13 wetland sites. Maintenance facilities include outfalls, risers, culverts, bridge crossings, and pilot low-flow channels. The maintenance activities proposed within these facilities include removing herbaceous vegetation, trimming understory of riparian vegetation, and removal of accumulated sediment to facilitate positive flow and maintain flood capacity (i.e., flowline maintenance). In general, O&M activities would include the following:

(1) Vegetation Maintenance – Storm drain outfalls, inlets, risers, and concrete or stone weirs would be cleaned of all herbaceous vegetation. Additionally, a 3- to 30-foot radius surrounding the maintenance facility would be cleared, by hand or mechanized equipment, of herbaceous vegetation. Understory vegetation trimming may also be necessary to allow clearance for inspections and maintain hydraulic flow. Native plants and native vegetative detritus within wetland areas would be pruned, and trimmed, to alleviate encroachment of vegetation over or onto a public area such as a sidewalk or trail. Native vegetation may be removed only if determined to be a public safety hazard and would be limited to dying or unstable trees located near public sidewalks or trails. Damaged limbs occurring at locations where the public would be threatened if the limbs fall would be addressed, as would vegetative or detritus impediments to stream flow that could potentially cause flooding or seepage of water onto public areas. Combustible vegetative fuel buildup near fire-susceptible structures or developments would be managed, as well as vegetative blocking of signage visibility or access for County Vector Control or environmental research activities and encroachment into overhead utility lines or impeding required access to maintenance facilities, cleanouts, manholes or vaults. Debris from trimming of native vegetation would be cut up and disposed of off-site.

(2) Sediment Maintenance - Storm drain outfalls, inlets, risers, and concrete or stone weirs would be cleaned of accumulated sediment to maintain hydraulic flow. Where equipment access is available, equipment for sediment removal would include a mini-excavator, a bobcat loader, and a dewatering bin that would be used to stockpile the sediment. In areas where access is limited, hand tools (e.g. shovels and wheel barrels) would be used to remove accumulated sediment. Additionally, a 3- to 30-foot radius above and/or below the maintenance facilities would also be cleared of accumulated sediment. All sediment would be legally disposed of off-site.

(3) Flowline Maintenance – Pilot low-flow channels would be maintained within 12 of the City-owned wetland sites (excludes Site 3. North Alicia Wetland) in order to maintain positive hydraulic flow. Pilot channels would be limited to 3 feet wide and run the length of the wetland site. Where equipment access is available, equipment for the establishment of the pilot channels would include a backhoe with extend-a-hoe, a vactor pump truck, and a dewatering bin. In areas where access is limited, hand tools (e.g. shovels and wheel barrels) would be used. The established pilot channels would be maintained (i.e., removal of herbaceous vegetation, accumulated vegetative detritus, and sediment, tree/shrub understory trimming, trash and debris removal, and maintenance of access paths) on a biannual basis, typically in spring and fall.

(4) Access Path Maintenance – All designated dirt paths for maintenance and vector control access would be maintained in a clean and safe condition. Access path maintenance includes pruning and trimming of adjacent and overhanging vegetation for a 6-foot vertical and 3-foot horizontal clearance, removal of any dead or damaged branches or limbs overhanging the access path, and path erosion repair. General tree pruning would be conducted on an as-needed basis and no more than once per year and with the intent of developing structurally sound trees with adequate vertical and horizontal clearance adjacent to public access ways. Tripping hazards such as rocks and exposed roots would be removed and holes would be filled with dirt or decomposed granite. No new access paths are proposed, only the maintenance of existing footpaths.

(5) Nonnative Vegetation Removal - All nonnative vegetation would be removed and may require chemical application of herbicides in extreme circumstances. Only herbicides approved by the U.S. Environmental Protection Agency (EPA) as suitable near water sources, such as AquaMaster, would be used. All nonnative material would be cut and disposed of off-site. Nonnative vegetation removal would occur within the entirety of the wetland sites.

(6) Trash and Debris Maintenance – All trash and debris would be removed by hand or by hand-held mechanized equipment from the entirety of the wetland sites and legally disposed of off-site. Trash and debris maintenance would occur quarterly in the wetland areas. Trash and debris removal in the wetland sites would be conducted once in spring, once in early fall prior to the first rain, and three times during the winter after significant rainstorms.

(7) Rodent and Pest Control – Rodents and pests would be controlled only as necessary to limit excessive damage to native areas or adjacent ornamental landscaping. Rodents include gophers and ground squirrels and pests include but are not limited to, snails, sow bugs, aphids, caterpillars, etc., that could cause damage to any plants, shrubs, groundcover, trees, irrigation systems, facilities or cause erosion. All methods employed to perform rodent and pest control would conform to all federal, state and county environmental regulations.

Impacts to Jurisdictional Waters

The proposed project would permanently impact a total of 3.14 acres of waters of the U.S. (including 2.79 acres of wetland waters of the U.S.). The table below includes a breakdown of impacts to waters of the U.S. Figure 3 shows the location of each maintenance facility that would require O&M activities and impact information for each maintenance facility is provided in the attached Table 1. Maintenance Facility Summary Table. Because the O&M activities are proposed to occur routinely and would change the bottom elevation, impacts are considered permanent; however, the proposed project would not result in a loss of waters of the U.S.

Impacts to waters of the U.S.

Impact Type	USACE/RWQCB (Acres)
Non-Wetland Waters (natural bottom)	0.01
Non-Wetland Waters (concrete-bottom)	0.34
Wetland Waters (natural bottom)	2.52
Site 3. North Wetlands (created wetland ponds)	0.27
Total	**3.14**

Proposed Mitigation– The proposed mitigation may change as a result of comments received in response to this public notice, the applicant's response to those comments, and/or the need for the project to comply with the 404(b)(1) Guidelines. In consideration of the above, the proposed mitigation sequence (avoidance/minimization/compensation), as applied to the proposed project is summarized below:

Avoidance: The discharge of material into waters of the U.S. is the result of maintenance of existing outfalls, inlets, and low-flow channels. The maintenance facilities are located within waters of the U.S., therefore avoidance is not feasible.

Minimization: The O&M footprints have been reduced to the minimum footprints needed in order to ensure proper flows within the wetlands sites as well as ensure that existing maintenance facilities are functioning as originally designed. Native shrubs and trees would be avoided with only minor trimming as needed, vegetation removal would focus on herbaceous understory that is preventing positive flow. Additionally, the Applicant would implement minimization measures, which include clearly identifying the areas to avoid; stockpiling materials and staging equipment along existing access roads/paths and outside of jurisdictional waters; and installing proper best management practices (BMPs) during O&M activities to prevent the transport of sediment downstream.

Compensation: The proposed maintenance activities would not result in a permanent loss of waters of the U.S.; however, the activities would result in a minor reduction in functions and services of waters of the U.S. To offset the reduced functions and services, as a minimization effort, the City proposes to preserve and provide long-term management within 11 of the wetland sites (Site 3 is not included as it is anthropogenic and Site 4 is not included as it is mitigation for the J03P01 Crown

Valley Project) and rehabilitation and enhancement within Site 13.

Enhancements are proposed for 0.075 acre of waters of the U.S. for removal of pampas grass. A total of 1.25 acre of waters of the U.S. is proposed for rehabilitation for converting cattail marsh to willow thickets to provide a continuous riparian corridor. Preservation and long-term management of the 11 wetland sites include preserving a total of 14.41 acre of waters of the U.S. (including wetlands) and 36.17 acre of CDFW jurisdiction (including streambed and riparian habitat). The proposed minimization would result in an increase in functions and services similar to those lost at the maintenance facilities. In addition, the 11 wetland sites would continue to be managed in perpetuity to ensure their current functions and services are maintained.

Proposed Special Conditions

No proposed Special Conditions are proposed at this time.

For additional information please call Gerardo Salas of my staff at (213) 452-3417 or via e-mail at Gerardo.Salas@usace.army.mil. This public notice is issued by the Chief, Regulatory Division.

Regulatory Program Goals:

- To provide strong protection of the nation's aquatic environment, including wetlands.
- To ensure the Corps provides the regulated public with fair and reasonable decisions.
- To enhance the efficiency of the Corps' administration of its regulatory program.

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, U.S. ARMY CORPS OF ENGINEERS
915 WILSHIRE BOULEVARD, SUITE 930
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Figure 1
Vicinity Map
Laguna Niguel Wetlands Operation and Maintenance Project

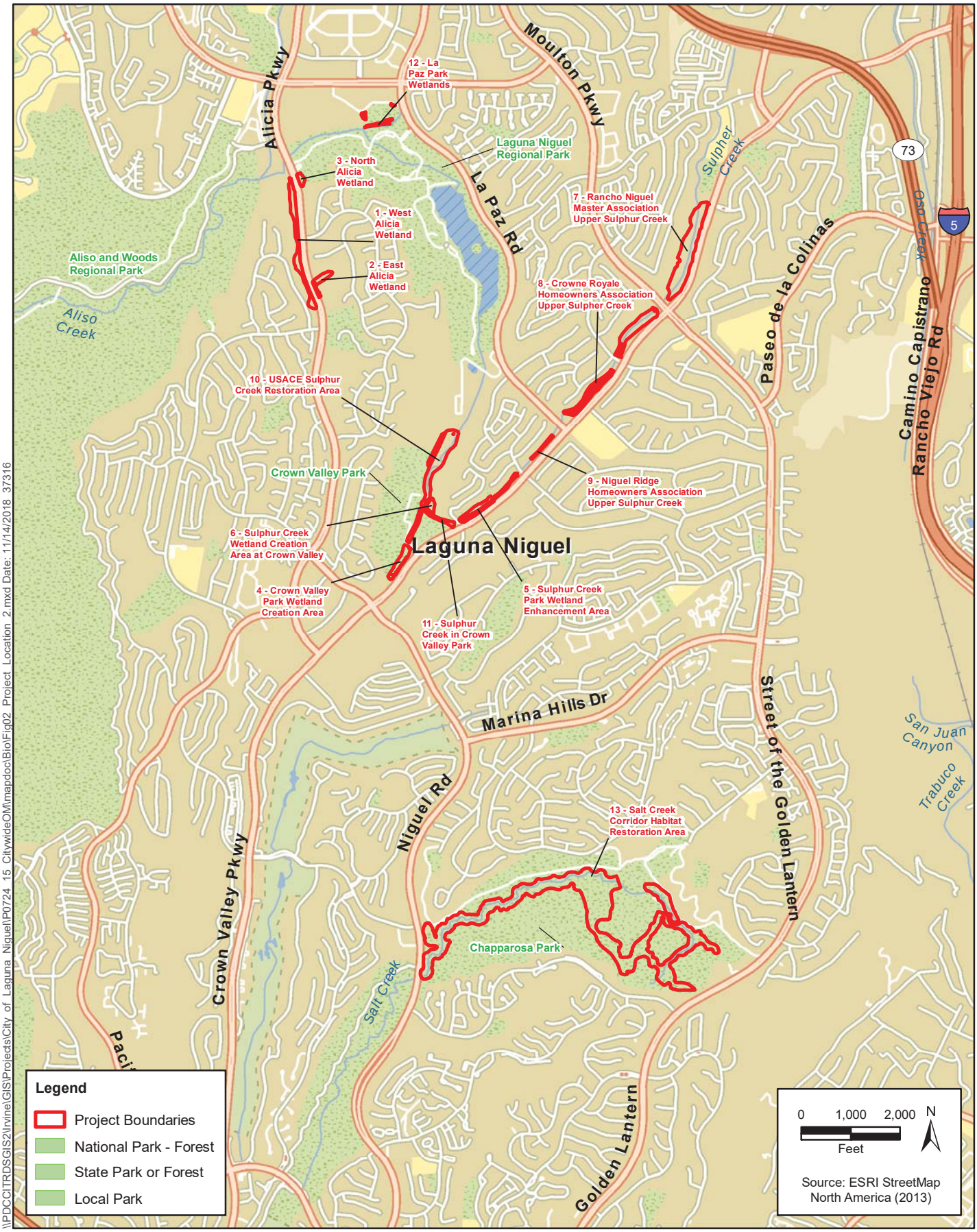

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Figure 2
Project Location
Laguna Niguel Wetlands Operation and Maintenance Project

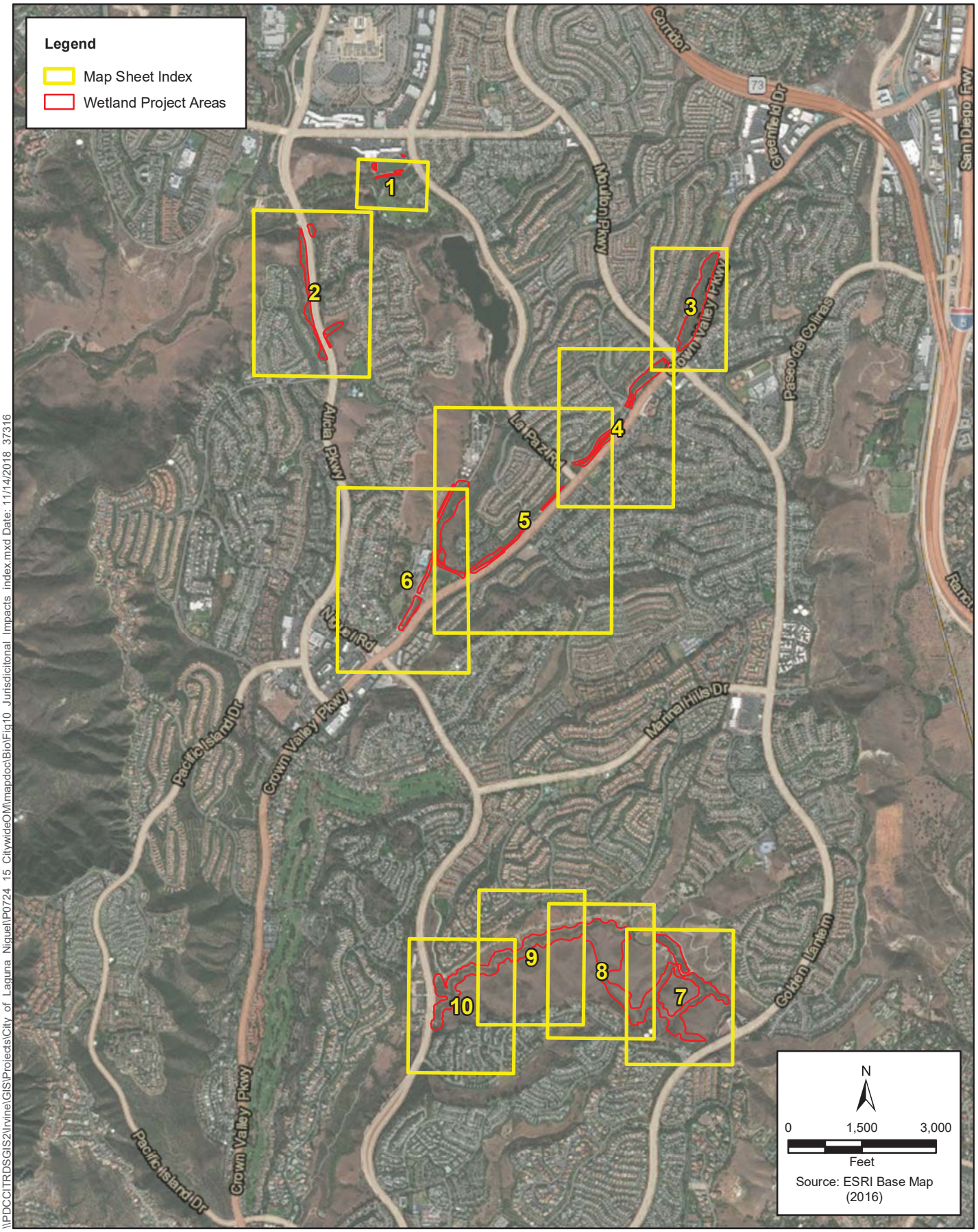

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Figure 3 Overview
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project

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Source: ICF; ESRI Basemaps (2016)

Figure 3-Sheet 1
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project

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Source: ICF; ESRI Basemaps (2016)

Figure 3-Sheet 2
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project

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Source: ICF; ESRI Basemaps (2016)

Figure 3-Sheet 3
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project

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Source: ICF; ESRI Basemaps (2016)

Figure 3-Sheet 4
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project

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Source: ICF; ESRI Basemaps (2016)

Figure 3-Sheet 5
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project

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Source: ICF; ESRI Basemaps (2016)

Figure 3-Sheet 6
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project

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Source: ICF; ESRI Basemaps (2016)

Figure 3-Sheet 7
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project

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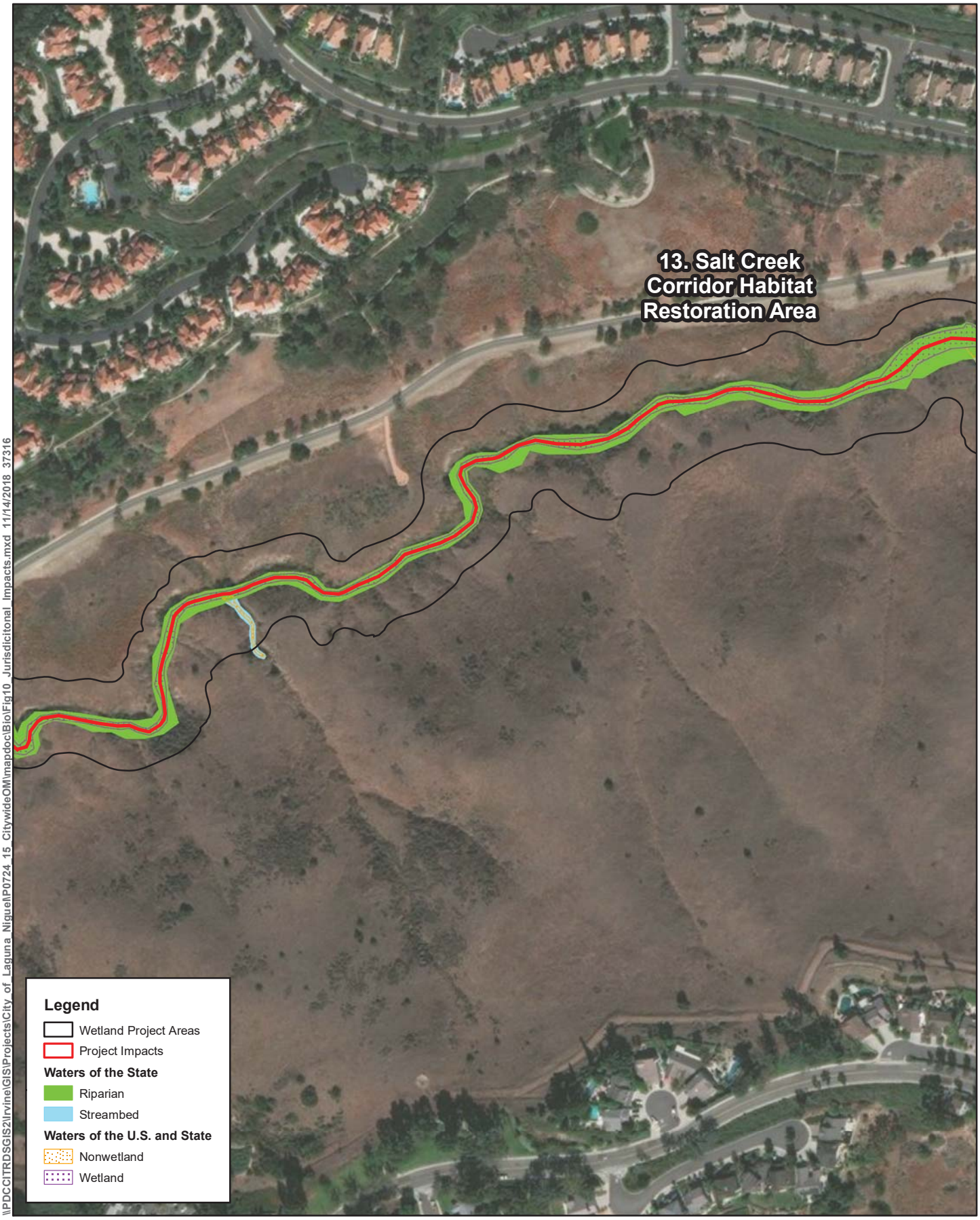
Source: ICF; ESRI Basemaps (2016)

Figure 3-Sheet 8
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project



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Source: ICF; ESRI Basemaps (2016)

Figure 3-Sheet 9
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project

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Source: ICF; ESRI Basemaps (2016)

Figure 3-Sheet 10
Project Jurisdictional Waters Impacts
Laguna Niguel Wetlands Operation and Maintenance Project

Table 1. Maintenance Facility Summary Table

Station ID	Facility Type	Wetland Project Area	Latitude	Longitude	Waterbody	Maintenance Activities	Frequency	Impact Dimensions	Waters of the U.S. (USACE/RWQCB)		
									Linear Feet	Wetland (Square Feet)	Non-Wetland (Square Feet)
1A	Inlet	1. West Wetland	33.549952	-117.717216	Tributary to Aliso Creek	Vegetation clearing/removal Sediment Removal	biannually	20 foot by 20 foot Area	10	290	-
1B	Low-Flow Channel	1. West Wetland	33.546409	-117.716440	Tributary to Aliso Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	2470	7412	-
1C	Concrete V-ditch Outlet	1. West Wetland	33.547560	-117.716671	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius	5	8	-
1D	Concrete V-ditch Outlet	1. West Wetland	33.546393	-117.716499	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius	6	20	-
1E	Concrete V-ditch Outlet	1. West Wetland	33.544896	-117.716242	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius	6	28	-
1F	Concrete V-ditch Outlet	1. West Wetland	33.543903	-117.715782	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius	6	26	-
1G	Weir- Pool Complex	1. West Wetland	33.543418	-117.715600	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	Within serviceable structure plus 10ft x 15ft pool	25	300	-
1H	Outlet	1. West Wetland	33.543028	-117.715372	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	20 foot radius	32	673	-
1I	Weir- Pool Complex	1. West Wetland	33.548867	-117.716914	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	Within serviceable structure plus 10ft x 15ft pool	25	303	-
1J	Weir- Pool Complex	1. West Wetland	33.548019	-117.716773	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	Within serviceable structure plus 10ft x 15ft pool	25	300	-
1K	Concrete V-ditch Outlet	1. West Wetland	33.547727	-117.716674	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius	3	7	-
1L	Berm	1. West Wetland	33.547246	-117.716618	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	Within serviceable structure	10	48	-
1M	Berm	1. West Wetland	33.546713	-117.716539	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	Within serviceable structure	10	53	-
1N	Weir- Pool Complex	1. West Wetland	33.545968	-117.716498	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	Within serviceable structure plus 10ft x 15ft pool	25	300	-
1O	Weir- Pool Complex	1. West Wetland	33.545649	-117.716518	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	Within serviceable structure plus 10ft x 15ft pool	25	300	-
2A	Outlet	2. East Wetland	33.544974	-117.714306	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius above inlet 10 foot radius downstream of inlet	17	290	-
2B	Low-Flow Channel	2. East Wetland	33.544434	-117.714985	Tributary to Aliso Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	638	1914	-
2C	Outlet	2. East Wetland	33.544853	-117.714370	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	10 foot radius	-	-	-
2D	Outlet	2. East Wetland	33.543718	-117.715132	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius above inlet 10 foot radius downstream of inlet	4	35	-
2E	Riser	2. East Wetland	33.544355	-117.715479	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	10 foot radius	4	45	-
3A	Constructed Wetland Ponds	3. North Wetland	33.550134	-117.716472	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	Entire Pond Area	326	11026	-
3B	Overflow Drain	3. North Wetland	33.550315	-117.716673	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	10 foot radius	10	150	-
3C	Outlet	3. North Wetland	33.550053	-117.716342	Tributary to Aliso Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius above inlet 10 foot radius downstream of outlet	25	404	-
4A	Inlet	4. Crown Valley Park Wetland Creation Area J03P01	33.528054	-117.710020	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	30 foot radius downstream of structure	122	5617	-
4B	Inlet	4. Crown Valley Park Wetland Creation Area J03P01	33.529084	-117.709411	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius above inlet 10 foot radius downstream of inlet	-	-	-
4C	Box Culvert	4. Crown Valley Park Wetland Creation Area J03P01	33.529721	-117.709032	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	30 foot radius downstream of concrete structure	65	3545	-
4D	Box Culvert	4. Crown Valley Park Wetland Creation Area J03P01	33.529922	-117.708783	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	30 foot radius downstream of concrete structure	35	508	-
4E	Low-Flow Channel	4. Crown Valley Park Wetland Creation Area J03P01	33.530969	-117.708445	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	420	1262	-
4F	Treatment Wetlands (Planned)	4. Crown Valley Park Wetland Creation Area J03P01	33.529428	-117.708778	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	Entire Constructed Wetland	-	-	-

Table 1. Maintenance Facility Summary Table

Station ID	Facility Type	Wetland Project Area	Latitude	Longitude	Waterbody	Maintenance Activities	Frequency	Impact Dimensions	Waters of the U.S. (USACE/RWQCB)		
									Linear Feet	Wetland (Square Feet)	Non-Wetland (Square Feet)
4G	Low-Flow Channel	4. Crown Valley Park Wetland Creation Area J03P01	33.529019	-117.709208	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	424	1273	
4H	Concrete V-ditch	4. Crown Valley Park Wetland Creation Area J03P01	33.530811	-117.708308	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	Within serviceable structure	-	-	-
4I	Outlet	4. Crown Valley Park Wetland Creation Area J03P01	33.528192	-117.709759	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius above inlet 10 foot radius downstream of inlet	-	-	-
4J	Bioswales	4. Crown Valley Park Wetland Creation Area J03P01	33.530482	-117.708520	Sulphur Creek	Sediment Removal/Weed Removal	biannually	Extent of Bioswales	4	2	-
4K	Outlet	4. Crown Valley Park Wetland Creation Area J03P01	33.528170	-117.710084	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius	-	-	-
5A	Inlet	5. Sulphur Creek Park Wetland Enhancment Area	33.531331	-117.705520	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	30 foot radius downstream	40	1416	-
5B	Drop Structure	5. Sulphur Creek Park Wetland Enhancment Area	33.532001	-117.704095	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	15 foot radius from structure	60	694	797
5C	Low-Flow Channel	5. Sulphur Creek Park Wetland Enhancment Area	33.531633	-117.704767	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	688	2066	-
6A	Low-Flow Channel	6. Sulphur Creek Wetland Creation	33.531911	-117.707662	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	112	637	-
7A	Outlet	7. Rancho Niguel Upper Sulphur Creek	33.540515	-117.695265	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	30 foot radius downstream	60	-	1717
7B	Low-Flow Channel	7. Rancho Niguel Upper Sulphur Creek	33.542173	-117.694074	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	1094	8602	484
7C	Weir and Riprap Dissipator	7. Rancho Niguel Upper Sulphur Creek	33.541116	-117.694982	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	Within serviceable structure	64	2367	-
7D	Inlet - Serviceable Structure	7. Rancho Niguel Upper Sulphur Creek	33.543117	-117.692830	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	30 foot radius downstream of structure	56	2919	-
7E	Inlet	7. Rancho Niguel Upper Sulphur Creek	33.543787	-117.692129	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	10 foot radius	61	2071	-
7F	Outlet	7. Rancho Niguel Upper Sulphur Creek	33.548876	-117.689744	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	30 foot radius downstream	7	7	-
7G	Outlet	7. Rancho Niguel Upper Sulphur Creek	33.546185	-117.690643	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	30 foot radius downstream	105	4622	-
7H	Outlet	7. Rancho Niguel Upper Sulphur Creek	33.548677	-117.689994	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	6	28	-
7I	Concrete V-ditch	7. Rancho Niguel Upper Sulphur Creek	33.542353	-117.693982	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	-	-	-
7J	Concrete V-ditch	7. Rancho Niguel Upper Sulphur Creek	33.546826	-117.690605	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	-	-	-
7K	Concrete V-ditch	7. Rancho Niguel Upper Sulphur Creek	33.544747	-117.691212	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	-	-	-
7L	Concrete V-ditch	7. Rancho Niguel Upper Sulphur Creek	33.547954	-117.690261	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	-	-	-
8A	Inlet	8. Crowne Royale	33.537315	-117.698670	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	20 foot radius downstream	74	964	-
8B	Low-Flow Channel	8. Crowne Royale	33.537525	-117.698002	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	1238	3715	-
8C	Outlet	8. Crowne Royale	33.537895	-117.697553	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	20 foot radius downstream	35	786	-
8D	Outlet - Serviceable Structure	8. Crowne Royale	33.539974	-117.695518	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	30 foot radius downstream	147	777	1384

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									Linear Feet	Wetland (Square Feet)	Non-Wetland (Square Feet)
8E	Outlet	8. Crowne Royale	33.539308	-117.696044	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius above 15 foot radius downstream	29	300	-
8F	Concrete V-ditch	8. Crowne Royale	33.537543	-117.697950	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	3	9	-
8G	Concrete V-ditch	8. Crowne Royale	33.538412	-117.697243	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	-	-	-
9A	Outlet	9. Niguel Ridge	33.533780	-117.701952	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	30 foot radius downstream	150	2672	-
9B	Inlet - Serviceable Structure	9. Niguel Ridge	33.534432	-117.701196	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	30 foot radius downstream	259	241	1508
9C	Low-Flow Channel	9. Niguel Ridge	33.535359	-117.700200	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	580	1738	-
9D	Outlet	9. Niguel Ridge	33.535481	-117.700045	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	15 foot radius	60	501	-
9E	Outlet - Serviceable Structure	9. Niguel Ridge	33.536261	-117.699350	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	30 foot radius downstream	159	571	1368
9F	Outlet	9. Niguel Ridge	33.533003	-117.702528	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	15 foot radius	15	30	-
9G	Concrete V-ditch Outlet	9. Niguel Ridge	33.532996	-117.702731	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius	-	-	-
9H	Low-Flow Channel	9. Niguel Ridge	33.532998	-117.702693	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	557	1670	-
9I	Concrete V-ditch Outlet	9. Niguel Ridge	33.535900	-117.699646	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	6	28	-
9J	Concrete V-ditch Outlet- Serviceab	9. Niguel Ridge	33.534349	-117.701285	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	6	-	28
9K	Concrete V-ditch Outlet	9. Niguel Ridge	33.533562	-117.702193	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	3	4	-
9L	Concrete V-ditch Outlet	9. Niguel Ridge	33.532551	-117.703285	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	3	9	-
10A	Riprap Bank	10. USACE Sulphur Creek Restoration Project	33.536032	-117.705865	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	Within serviceable structure	91	3625	-
10B	Outlet	10. USACE Sulphur Creek Restoration Project	33.534970	-117.707070	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius above 10 foot radius downstream	-	-	-
10C	Box Culvert	10. USACE Sulphur Creek Restoration Project	33.531921	-117.708040	Sulphur Creek	Sediment Removal Vegetation clearing/removal	biannually	15 foot radius downstream	58	783	-
10D	Low-Flow Channel	10. USACE Sulphur Creek Restoration Project	33.534116	-117.707119	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	1830	5490	-
10E	Outlet	10. USACE Sulphur Creek Restoration Project	33.532602	-117.707715	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	10 foot radius	-	-	-
10F	Outlet	10. USACE Sulphur Creek Restoration Project	33.533514	-117.707799	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	Within serviceable structure	20	81	-
10G	Outlet	10. USACE Sulphur Creek Restoration Project	33.536008	-117.706045	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	3 foot radius	-	-	-
11A	Box Culvert	11. Sulphur Creek in Crown Valley Community Park	33.531032	-117.706062	Sulphur Creek	Vegetation clearing/removal Sediment Removal	biannually	30 foot radius downstream	59	2046	-
11B	Low-Flow Channel	11. Sulphur Creek in Crown Valley Community Park	33.531325	-117.706859	Sulphur Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	620	1859	-
12A	Outlet	12. La Paz Park Wetlands	33.553837	-117.712317	Narco Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius above 10 foot radius downstream	6	76	-
12B	Outlet	12. La Paz Park Wetlands	33.553735	-117.712400	Narco Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius above 10 foot radius downstream	26	475	-
12C	Inlet	12. La Paz Park Wetlands	33.553620	-117.712343	Narco Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius above 10 foot radius downstream	21	340	-
12D	Outlet	12. La Paz Park Wetlands	33.553191	-117.711990	Narco Creek	Removal of noxious weeds Trimming of riparian trees and	biannually	10 foot radius	-	-	-
12E	Outlet	12. La Paz Park Wetlands	33.553178	-117.711652	Narco Creek	Removal of noxious weeds Trimming of riparian trees and shrubs	biannually	10 foot radius	-	-	-

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									Linear Feet	Wetland (Square Feet)	Non-Wetland (Square Feet)
12F	Inlet	12. La Paz Park Wetlands	33.553405	-117.710934	Narco Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius above 10 foot radius downstream	20	207	-
12G	Outlet	12. La Paz Park Wetlands	33.553283	-117.710701	Narco Creek	Removal of noxious weeds Trimming of riparian trees and	biannually	10 foot radius	4	1	-
12H	Outlet	12. La Paz Park Wetlands	33.553495	-117.710595	Narco Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius above 10 foot radius downstream	23	223	-
12I	Inlet	12. La Paz Park Wetlands	33.554289	-117.710444	Narco Creek	Sediment Removal Vegetation clearing/removal	biannually	3 foot radius	-	-	-
12J	Low-Flow Channel	12. La Paz Park Wetlands	33.553416	-117.710754	Narco Creek	Sediment Removal Vegetation clearing/removal	biannually	3 feet wide	88	352	-
12K	Low-Flow Channel	12. La Paz Park Wetlands	33.553729	-117.712334	Narco Creek	Sediment Removal Vegetation clearing/removal	biannually	3 feet wide	52	156	-
13A	Outlet	13. Salt Creek Corridor Habitat Restoration Area	33.505357	-117.708611	Salt Creek	Vegetation clearing/removal Sediment Removal	biannually	Within serviceable structure	162		7297
13B	Inlet	13. Salt Creek Corridor Habitat Restoration Area	33.506019	-117.707317	Salt Creek	Vegetation clearing/removal Sediment Removal	biannually	30 foot radius	144	2752	-
13C	Outlet	13. Salt Creek Corridor Habitat Restoration Area	33.508504	-117.707335	Salt Creek	Vegetation clearing/removal Sediment Removal	biannually	30 foot radius	52	891	-
13D	Low-Flow Channel	13. Salt Creek Corridor Habitat Restoration Area	33.509712	-117.700975	Salt Creek	Sediment Removal Cattail/Freshwater Marsh Removal	biannually	3 feet wide	6920	20688	81
13E	Outlet	13. Salt Creek Corridor Habitat Restoration Area	33.511904	-117.697089	Salt Creek	Vegetation clearing/removal Sediment Removal	biannually	30 foot radius	42	717	-
13F	Outlet	13. Salt Creek Corridor Habitat Restoration Area	33.511633	-117.695652	Salt Creek	Sediment Removal Vegetation clearing/removal	biannually	15 foot radius	-	-	-
13G	Outlet	13. Salt Creek Corridor Habitat Restoration Area	33.511243	-117.694731	Salt Creek	Sediment Removal Vegetation clearing/removal	biannually	30 foot radius	51	2146	-
13H	Inlet	13. Salt Creek Corridor Habitat Restoration Area	33.510925	-117.692858	Salt Creek	Herbaceous Vegetation removal Sediment Removal	biannually	15 foot radius	-	-	-
13I	Drop Structure	13. Salt Creek Corridor Habitat Restoration Area	33.510020	-117.691577	Salt Creek	Herbaceous Vegetation removal Sediment Removal	biannually	30 foot radius	55	1210	58
13J	Inlet	13. Salt Creek Corridor Habitat Restoration Area	33.508934	-117.691226	Salt Creek	Weed Wiping and rack out Vegetation trimming	biannually	20 foot radius	-	-	-
13K	Outlet	13. Salt Creek Corridor Habitat Restoration Area	33.509093	-117.691110	Salt Creek	Sediment Removal Vegetation clearing/removal	biannually	15 foot radius	-	-	-
13L	Outlet	13. Salt Creek Corridor Habitat Restoration Area	33.509138	-117.690826	Salt Creek	Herbaceous Vegetation removal Sediment Removal	biannually	30 foot radius	60	1205	-
13M	Outlet	13. Salt Creek Corridor Habitat Restoration Area	33.509204	-117.690695	Salt Creek	Herbaceous Vegetation removal Sediment Removal	biannually	10 foot radius	-	-	-
13N	Inlet	13. Salt Creek Corridor Habitat Restoration Area	33.508965	-117.690389	Salt Creek	Herbaceous Vegetation removal Sediment Removal	biannually	15 foot radius	16	230	-
13O	Riser	13. Salt Creek Corridor Habitat Restoration Area	33.509317	-117.690488	Salt Creek	Weed Wiping and rack out Vegetation trimming	biannually	20 foot radius	21		63
13P	Outlet	13. Salt Creek Corridor Habitat Restoration Area	33.509848	-117.691476	Salt Creek	Herbaceous Vegetation removal Sediment Removal	biannually	30 foot radius	30	496	66
13Q	Riser	13. Salt Creek Corridor Habitat Restoration Area	33.509018	-117.707450	Salt Creek	Vegetation clearing/removal Sediment Removal	biannually	15 foot radius	-	-	-
13R	Basin with Riser	13. Salt Creek Corridor Habitat Restoration Area	33.509509	-117.691942	Salt Creek	Weed Wiping and rack out Vegetation trimming	biannually	20 foot radius	17	-	218

Total USACE/RWQCB	Square Feet	Acres
Wetland (Square Feet)	121,632	**2.79**
Non-Wetland (Sqaure Feet)	15,069	**0.35**
Linear Feet	**20,942**	