

# Municipal Waterways Maintenance Plan

## Annual Report

### Fiscal Year 2024



**THINK BLUE®**

City of San Diego  
Stormwater Department

November 2024

**City of San Diego Stormwater Department**

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San Diego, CA 92105

## Executive Summary

The City of San Diego’s (City) Stormwater Department (SWD) protects and enhances San Diego’s vibrant communities through exceptional public service and infrastructure that reflects the importance of clean water and flood-safe communities. SWD also views stormwater as a valuable resource which supports public health, the economy, the environment, and the water supply. SWD works to provide clean waterways and flood-safe communities across San Diego by maintaining stormwater facilities in accordance with the City Charter and Council Policy.

Stormwater facilities are typically located within environmentally sensitive areas that are also habitat for sensitive wildlife and plants, which are highly regulated by local, state, and federal agencies. With stakeholder and regulatory agency input, SWD developed the Municipal Waterways Maintenance Plan (MWMP) which balances the City’s need to be responsive and transparent, provide flood control, and to minimize and mitigate any adverse environmental effects that result from its activities (City of San Diego, 2020a). The MWMP covers project- and program-level activities and authorizes maintenance and repair across stormwater assets and was adopted by City Council in March 2020.

SWD completes an annual report to document stormwater facility maintenance activities and associated mitigation pursuant to Section 4.1 of the MWMP, Environmental Impact Report (EIR) Section 4.4.1.5, and the requirements of several regulatory permits. This current fiscal year (FY) 2024 annual report covers the fourth year of MWMP activities that occurred between July 1, 2023 and June 30, 2024 in which SWD removed approximately 66060.42 tons of sediment and vegetation. More detail on the background of the program is provided in Section 1. Prior to the approval of the MWMP in 2020, the City used the Master Storm Water System Maintenance Program (MMP). The MMP is no longer in effect, and now the City uses the MWMP to achieve its stormwater maintenance goals.

During FY 2024, SWD performed the following maintenance projects which are discussed in Section 2 (listed from North to South):

### *Routine Maintenance-*

- Pomerado 1 (1-04-030)
- Titus 1 (5-02-162)
- Rolando 2 (5-04-048)

### *Emergency Maintenance-*

- |   |  |
|---|--|
| • Industrial 1 & 2 (2-01-120 & 2-01-122)    | • Cowles Mountain 1& 2 (4-07-901 & 4-07-911) |
| • Tripp 1 (2-01-130)                        | • Baja 1 (4-08-105)                          |
| • Roselle 2 (2-03-000)                      | • Washington 1 (5-02-151)                    |
| • Flintkote 1 (2-03-100)                    | • National 1 (5-04-004)                      |
| • Dunhill 1 (2-03-150)                      | • Home 1 & 2 (5-04-220 & 5-04-224)           |
| • Garnet 2 & Damon 1 (3-02-003 & 3-02-005)  | • Ontario 1 (5-04-237)                       |
| • PB Olney 1 & MBHS 1 (3-02-101 & 3-02-103) | • Wightman 2 (5-04-239)                      |
| • Mission Gorge 2 (4-07-004)                | • Alpha 1(5-05-006)                          |
|   | • Ocean View 1 (5-05-008)                    |
|   | • Acacia Grove 2 (5-05-103)                  |

- Castana 1 (5-05-205)
- Jamacha 1 (5-05-603)
- Parkside 1 (5-11-003)
- Grove 1 (5-22-023)
- Cedar 1 & 2 (5-22-008 & 5-22-010)
- Cerissa 1 (5-22-016)
- Tocayo 1 (6-02-115)
- Tocayo 2 (6-02-118)
- Smythe 1 (6-03-147)
- Smuggler's Gulch 1 (6-01-100)

In FY 2024, SWD remained in compliance with all MWMP regulatory permits and agreements during the implementation of project-level as well as program-level activities at its facilities. For routine maintenance projects approved and completed as part of the MWMP, SWD will conduct ongoing repeat maintenance within the assessed and mitigated impact areas in compliance with its approvals. In such instances, SWD will provide the necessary pre- maintenance notification to the agencies. For facilities where certain approvals may lapse, SWD will obtain follow-up authorizations prior to the start of maintenance. Emergency maintenance was completed in FY 2024 when it was determined that there was a sudden and imminent threat to life, property, and/or essential public services requiring immediate action. During this fiscal year, SWD also completed numerous minor maintenance activities. By definition, minor maintenance activities do not result in significant environmental impacts, do not require compensatory mitigation, and the details of such activities are not included in this annual report.

The MWMP and approved regulatory permits require that compensatory mitigation be provided to offset impacts to biological resources (e.g. uplands or wetlands) related to maintenance activities. Section 3 provides the status of the compensatory mitigation sites associated with the FY 2024 routine and emergency channel maintenance projects as follows:

- Los Peñasquitos Canyon Preserve Phase I Enhancement
- Tijuana River Emergency Channel Mitigation
- Tijuana River Valley In-Channel Enhancement Area and the Out-of-Channel Enhancement Area
- San Luis Rey Mitigation Bank
- Marron Valley Cornerstone Conservation Lands Bank
- Wetland Mitigation Plan for 2015/16 Emergency Channel Maintenance (2015/16 Emergency Mitigation Plan)
- Stadium Wetland Mitigation Project (San Diego River)
- Smythe-Bandola Wetland Mitigation
- El Cuervo del Sur Phase II Wetland Mitigation
- Hollister Quarry Wetland Mitigation

Section 4 of this report provides information on routine channel maintenance projects prioritized for FY 2025 (July 1, 2024- June 30, 2025). Planning for FY 2025 projects began in FY 2024 for the following:

- Pomerado 1 (1-04-033)
- Pomerado 2 (1-04-033)
- Industrial 1 (2-01-120)
- Industrial 2 (2-01-122)
- Tripp 1 (2-01-130)
- Roselle 1 (2-03-000)
- Roselle 2 (2-03-002)
- Flintkote 1 (2-03-100)
- Dunhill 1 (2-03-150)
- Garnet 2 (3-02-003)
- Damon 1 (3-02-005)
- PB Olney 1 (3-2-101)

- MBHS 1 (3-02-103)
- Mission Gorge 1 (4-07-002)
- Mission Gorge 2 (4-07-004)
- Mission Gorge 3 (4-07-009)
- Missoin Gorge 4 (4-07-011)
- Alvarado 1 (4-07-021)
- Cowles Mountain 1 (4-07-901)
- Cowles Mountain 2 (4-07-911)
- Baja 1 (4-08-105)
- Washington 1 (5-02-151)
- Washington 2 (5-02-153)
- Titus 1 (5-02-162)
- Rolando 2 (5-04-048)
- National 1 (5-04-004)
- National 2 (5-04-006)
- Home 1 (5-04-220)
- Home 2 (5-04-224)
- Auburn 2 (5-04-236)
- Wightman 2 (5-04-241)
- Oceanview 1 (5-05-008)
- Alpha 1 (5-05-006)
- Charles Lewis 1 (05-05-016)
- Acacia Grove 2 (5-05-103)
- Castana 1 (5-05-205)
- Jamacha 1 (5-05-603)
- Jamacha 2 (5-05-606)
- Solola 1 (5-05-020)
- Solola 2 (5-05-023)
- Cedar 1 (5-22-008)
- Cedar 2 (5-22-010)
- Cerissa 1 (5-22-016)
- Grove 1 (5-22-023)
- Tocayo 2 (6-02-118)
- Smythe 1 (6-03-147)

Due to aging infrastructure and the ever-changing environmental conditions, emergency maintenance is sometimes required which is an approved activity under the MWMP. Although SWD seeks to proactively maintain its infrastructure, unforeseen emergency conditions may arise in FY 2025 or in subsequent years that will require immediate action. When emergency response is necessary, SWD provides proper notification to the resource agencies prior to the start of work and only completes the minimum amount of maintenance necessary to alleviate the emergency conditions.



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# 1.0 Introduction

## 1.1 Background

Under City of San Diego (City) Charter Section 26.1 and Council Policy 800-04 (City of San Diego, 2012), the City is responsible for maintaining adequate drainage facilities to remove stormwater runoff in an efficient, economic, and environmentally and aesthetically acceptable manner for the protection of property and life. The City is responsible for the maintenance of public drainage facilities that are designed and constructed to City standards and located within a public street or drainage easement dedicated to the City. The City's Stormwater Department (SWD) does the necessary work to meet these needs with a vision of providing clean waterways and flood-safe communities across San Diego.

SWD operates and maintains drainage channels, ditches, and basins that convey stormwater and urban runoff (e.g. from irrigated landscaped areas, driveways, and streets) to downstream receiving waters for the purpose of reducing flood risk and for the effective management of water resources in the City. Other components of the City's stormwater system include but are not limited to over 1,000 miles of storm drainpipe, 6 miles of levees, 15 pump stations, and over 46,000 structures.

Maintenance of channels primarily involves the removal of sediment, vegetation, debris, and trash to maximize stormwater conveyance capacity in support of the City's Municipal Separate Storm Sewer System (MS4) permit. SWD conducts a comprehensive list of both maintenance and repair activities that are outlined in the MWMP and discussed in this report. The long-term performance of the entire system is dependent upon ongoing and proper maintenance of channel sections essential for flood control.

Historically, maintenance of stormwater conveyance system facilities occurred on an as-needed basis as a part of normal City operations without public review or regulatory permits. In 2013, the City adopted the Master Storm Water System Maintenance Program (MMP) to govern channel operation and maintenance activities based on a certified final recirculated Programmatic Environmental Impact Report (PEIR). Subsequently, a lawsuit was filed against the MMP (*San Diegans for Open Government et al. v. City of San Diego*, San Diego Superior Court Case No. 37-2011-00101571), and the City entered into a settlement agreement that required, among other things, that the MMP PEIR be considered null and void as of September 2018 (*SDOG v. City of San Diego* 2013).

In response, the City prepared the Municipal Waterways Maintenance Plan (MWMP) and its EIR to guide SWD activities. The MWMP was approved by City Council in 2020 and was developed through a collaborative and iterative process involving City staff and multiple stakeholders including nonprofit organizations, community groups, resource agencies, and the public.

The following are the primary objectives of the MWMP:

1. Public safety and flood risk reduction
  - Protect life and property adjacent to, downstream, and upstream of affected channels from flooding and environmental degradation.
2. Responsiveness to reduce flood risk
  - Provide for timely and consistent routine operations and maintenance in the affected channels and associated stormwater conveyance infrastructure.

3. Avoid, minimize, and/or mitigate potential effects to environmental resources
  - Avoid, minimize, and/or mitigate significant adverse environmental effects resulting from routine maintenance of stormwater facilities.
  - Incorporate and adapt to water quality management strategies intended to protect water quality and address flooding impacts.
4. Proactive and timely approval process
  - Provide project-level analysis upfront to expedite subsequent authorizations for routine and preventative maintenance activities within stormwater facilities.
  - Identify a review-and-approval process to include additional stormwater facilities and maintenance activities that follow the protocols and requirements of the MWMP.
  - Reduce the need to conduct emergency maintenance during significant storm events by implementing preventative maintenance activities.

The objectives of the MWMP outline the responsibility of SWD to be responsive to newly identified flood risks while obtaining streamlined approvals for routine preventative maintenance that reduce these risks. To accomplish this, the MWMP identifies the following:

1. A range of plan-wide activities that may occur throughout the stormwater system where flood risks may arise and that would be conducted in accordance with a regulatory framework identified under the MWMP and associated permits.
2. A list of Facility Maintenance Plans (FMPs) that provide specific details and requirements for many but not all facilities that are likely to require routine maintenance and repair.

Together, these two components provide operational flexibility as well as site-specific information about SWD facilities that require maintenance and repair, and it also attempts to streamline the review and approval process that is required before maintenance can begin. In preparing the MWMP, once the purpose and intent of the plan were established, SWD conducted technical and environmental analysis in support of its EIR to determine the scope, scale, and potential environmental impacts at each facility where an FMP was developed. In addition to the FMPs, SWD included a majority of its systemwide facilities and maintenance needs in the EIR review process. The MWMP and its EIR were analyzed and considered by each of the six regulatory agencies that issued permits and approvals for the MWMP. Overall, the EIR analyzed SWD activities at the project-level for facilities where an FMP was developed and at the program-level (discussed in more detail below) for activities that included but were not limited to minor maintenance, compensatory mitigation sites, and emergencies. This was done in compliance with the California Environmental Quality Act (CEQA).

As a result of these efforts, a final MWMP was developed that included a framework for conducting routine maintenance for 66 Facility Maintenance Plans (FMPs) (50 channels/ditches, 6 basins, and 10 structure groups) that were analyzed at the project-level in the EIR. Program-level activities included in the MWMP cover minor maintenance or repair projects that do not impact Environmentally Sensitive Lands (ESL) (including jurisdictional/coastal resources), as well as changed conditions for new or substantially amended FMPs, design and construction of compensatory mitigation sites, and emergency maintenance or repair projects. Both the project- and program-level elements were implemented to support the maintenance needs of the City's stormwater system. SWD can also amend the MWMP, as necessary, to identify additional or project-specific activities and facilities that may not have been included or considered. The MWMP EIR (Project No. 616992; SCH No. 2017071022) was certified by the San Diego City Council in June 2020 (City of San Diego, 2020b). The MWMP and associated EIR have no expiration date.

In accordance with the MWMP goals and objectives, SWD completes annual evaluations for FMP covered facilities to prioritize upcoming maintenance (further discussed in Section 2.0) based on hydrologic and hydraulic (H&H) analysis, potential flood risks, and stakeholder input. The priority list of the facilities SWD anticipates maintaining in any upcoming fiscal year is required to be distributed to the regulatory agencies before July 1<sup>st</sup>. This provides the agencies the location and quantity of facilities SWD expects to submit for their review and approval. Because resource agency review must occur within a short timeframe, SWD attempts to begin its prioritization, planning and permitting phase early, often before the fiscal year in which maintenance would occur. However, depending on resource availability and other factors, this is sometimes not possible and SWD relies on the agencies to assist by helping expedite the review and approval of its submittals when necessary.

In general, the goal of SWD is to avoid or minimize impacts to environmental resources for the activities that it performs. When SWD completes its planned routine maintenance projects, it also ensures permit conditions and required mitigation measures are implemented. For emergency projects every effort is made to minimize impacts and environmental monitoring is completed in support of permit and notification requirements. These activities are then reported to the resource agencies annually and include details about the compensatory mitigation provided or obtained for each completed project where mitigation was required.

The remainder of this report discusses MWMP approvals, reporting requirements, and the activities implemented by SWD over the past fiscal year to meet the goals of the MWMP. Section 1.3 details the requirements of this report.

## 1.2 Regulatory Approvals

Many of the maintenance activities identified in the MWMP require review or approval under various regulations; including but not limited to the Clean Water Act (CWA), Endangered Species Act (ESA), California Coastal Act, California Fish and Game Code, California Porter-Cologne Act, CEQA, and the City of San Diego Municipal Code. Additionally, as part of the subsequent and streamlined review process established by the MWMP for all project and many program level activities prior to the start of work, SWD often works with the public, various stakeholders, non-governmental organizations, and environmental groups in an effort to avoid, minimize, and/or mitigate MWMP related impacts.

The following is a brief status of each of the regulatory permits and the coordination completed in association with the MWMP:

### Local

- The MWMP EIR (Project No. 616992; SCH No. 2017071022) and associated Mitigation, Monitoring, and Reporting Program were certified and adopted by the San Diego City Council on June 9, 2020
- A Master Site Development Permit (SDP; No. 2392210) was approved by the San Diego City Council on June 23, 2020 and does not have an expiration date.

### State

- A Master 401 Water Quality Certification (No. R9-2021-0115) was issued by the California Regional Water Quality Control Board (RWQCB) San Diego Region on May 13, 2021 and is valid until May 13, 2026 (or when the USACE RGP 102 Section 404 permit expires, if sooner).

- A Master Streambed Alteration Agreement (SAA; No.1600-2019-0226-R5) was issued by the California Department of Fish and Wildlife (CDFW) on May 10, 2021 and is valid until April 30, 2031.
- A Coastal Development Permit (CDP; No. 6-20-0356 on appeal A-6-SAN-20-0029) was approved by the California Coastal Commission (CCC) on May 12, 2021 and is valid until May 12, 2026 with a 5-year extension request option.

### Federal

- A Regional General Permit (RGP 102; No. SPL-2018-00652) was issued by the U.S. Army Corps of Engineers (USACE) on June 24, 2021 and is valid until June 17, 2026.

Each permit listed above generally requires SWD to prepare a Maintenance Plan and conduct a pre-maintenance impact assessment for its facilities where maintenance is proposed. If environmental impacts would occur, SWD must first process a Substantial Conformance Review (SCR, further discussed in Section 2.0) and submit notifications for approvals to the agencies before initial maintenance or related work can begin. This typically occurs for project-level FMPs as well as some program-level activities listed in the previous section.

In the case of the federal USACE RGP 102, a U.S. Fish and Wildlife Service (USFWS) Section 7 consultation was completed, and a Biological Opinion (BO) was issued in support of the MWMPs RGP 102 approval. On-going consultation with the USFWS is expected to continue for facility maintenance activities as well as mitigation site development where suitable habitat exists and has the potential to support federally listed endangered species. SWD will continue to work with the USACE and USFWS to streamline this coordination as necessary. The USACE also obtained a historic resources Section 106 consultation that was required by the National Historic Preservation Act (NHPA) during the RGP 102 review and approval process. This was done to consider the potential effects on cultural resources related to MWMP facility maintenance activities.

This annual report will be distributed to the resource agencies in conformance with the reporting conditions established by the permits. In addition to the reporting requirements outlined in the MWMP and the background provided in Section 1.1 above, the following section identifies specific agency reporting details that are also included in this document.

## 1.3 Annual Report Requirements

To meet conditions of the authorizations listed below, this report includes:

### City of San Diego (City) MWMP Section 4.4 and EIR: (Project No. 616992; SCH No. 2017071022)

- Tabular summary of the acreages of sensitive vegetation impacted at each facility that was maintained and mitigation provided (Section 2);
- Updated master stormwater facility list to reflect the facilities for which impacts have been mitigated and no additional mitigation will be required (Appendix B);
- Summary of the status of mitigation that has been carried out during the current and previous years to mitigate for impacts to upland and wetland vegetation and sensitive species (Section 3, Table 11);
- Scaled map of each affected stormwater facility (Appendix A); and
- Digital date-stamped photographs of each area that was maintained in the reporting year (Appendix C).



As stated in the MWMP Section 4.4 the annual report will not include minor maintenance activities that do not have any impacts that require compensatory mitigation.

### **Regional Water Quality Control Board (RWQCB) 401 Certification (No. R9-2021-0115)**

- A list of facilities on which maintenance was performed during the previous year, including the type and area of impact, start and end dates of maintenance, and photo documentation of maintenance activities and construction BMPs (Section 2 and Appendix C);
- Status of mitigation for each facility, such as proof of mitigation credit purchase or status of permittee-responsible mitigation (Section 3, Table 11);
- An updated master list of all facilities in the Municipal Waterways Maintenance Plan, including facility status and maintenance history (Appendix B);
- Monitoring activities, and monitors (Section 2);
- A description of maintenance delays encountered or anticipated that may affect the schedule (Section 2); and
- A description of each incident of noncompliance during the annual monitoring period, its cause, and corrective action taken (not applicable for FY 2022).

### **California Department of Fish and Wildlife (CDFW) 1602 Agreement (SAA; No.1600-2019-0226-R5)**

- Maintenance that was performed at each facility, including the type and area of impact (Section 2);
- Start and end dates of project activities for each facility (Section 2);
- Photo documentation (Appendix C); and
- Master table of all facilities included in the MWMP including facility status and history of maintenance (Appendix B).

### **California Coastal Commission (CCC) - Coastal Development Permit (Nos. 6-20-0356 and A-6-SAN-20-0029)**

- Annual Report not specified as a requirement by the permit. SWD provides the report to the CCC as a courtesy.

### **US Army Corps of Engineers (USACE) 404 Regional General Permit (RGP 102; No. SPL-2018-00652)**

- Start and end dates of project activities for each facility (Section 2);
- Permanent and temporary impact acreage, and mitigation acreage (Section 2);
- List of projects inspected for compliance (not applicable for FY 2022);
- Photo documentation (Appendix C); and
- Master table of facilities that includes status and history of maintenance (Appendix B).

### **US Fish and Wildlife Services (USFWS) Informal Section 7 Consultation (FWS-SDG-20B0083-2111395)**

- Document activities that were conducted in the previous year (Section 2); and
- Confirm authorized impacts were not exceeded (Section 2).



## 2.0 Routine and Emergency Maintenance Activities (FY 2024)

Under the MWMP, SWD identifies and prioritizes routine channel maintenance work for the upcoming fiscal year that considers, as a primary objective, the ability of each facility to meet SWD's flood risk management goals. Each fiscal year, a list of priority channels is compiled for consideration. In prioritizing the channels for maintenance, SWD also considers environmental resource impacts and the availability of mitigation, relevant water quality regulations and pollutant priorities in each watershed, public input, and its resource constraints. Once the priority list has been finalized, SWD prepares detailed Maintenance Plans and evaluates those plans to determine conformance with the MWMP EIR and regulatory permits through a streamlined review procedure developed for the MWMP. This includes the Substantial Conformance Review (SCR) process established by the City and the Coastal Commission, as well as the notification procedure necessary for resource agency review. Table 7 of the MWMP and Table 2.2 of the EIR identified as "DSD Subsequent MWMP Process Flow Chart" establishes the City's SCR review process. The Coastal Commission's review process for MWMP project-level activities is through the SCR process, however the process for program-level activities can vary.

The process of prioritization, Maintenance Plan preparation and impacts analysis, SCR review, and notifications was completed for all the Routine Maintenance projects listed in Table 1 below and will be initiated for those projects listed in Section 4 Table 33 for the FY 2025 Annual Work Plan. Emergency projects listed have either completed the notification and permit review phase or are in process for After-the-Fact (ATF) permits. A summary of all maintenance completed for Routine and Emergency maintenance including vegetation impacts and mitigation for facilities maintained during FY 2024 is included in Table 1 below. More specific details about each facility maintained are included in Section 2.1 through 2.30. Figure 1 in Appendix A depicts an overview of the location of these facilities and Figure 2 shows associated mitigation sites.

A Master Stormwater Facility and Mitigation List reflecting facilities that have been maintained and impacts mitigated in FY 2024 under the MWMP is included in Appendix B.

None of the facilities maintained in FY 2024 were required to be inspected by the USACE or any other regulatory agency for compliance. Each project was monitored by qualified staff and all activities were compliant with all environmental permits; no remedial actions were necessary.

**Table 1: MWMP Facilities Maintenance and Associated Mitigation for Fiscal Year 2024**

Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction <sup>1</sup>	Impact (acres) <sup>2</sup>	Mitigation <sup>3</sup>
<b>Routine Projects</b>						
5-02-162	Pomerado 1	City – SDP 2392210, EIR #616992 (SCR PRJ #1098134, approval #PMT 3232125) USACE – 404 RGP 102 (SPL-2018-00652), RGP 102 Verification # (SPL-2023-00416) RWQCB – 401 (R9-2021-0115) (Authorization received 6/20/2023)	11/7/23 to 11/29/23	USACE/RWQCB/CDFW /City	0.24	Purchased 0.48 acre at the San Luis Rey Mitigation Bank
<b>Total Jurisdictional Impacts</b>					<b>0.24</b>	
5-02-162	Titus 1	City – SDP 2392210, EIR #616992 (SCR PRJ #1105201, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/12/24	USACE/RWQCB/CDFW /City	0.01	Purchased 0.02 acre at the Stadium Wetland Mitigation Project (San Diego River).
<b>Total Jurisdictional Impacts</b>					<b>0.01</b>	
5-04-048	Rolando 2	City – SDP 2392210, EIR #616992 (SCR PTS #696093, approval #3232125) USACE – 404 RGP 102 (SPL-2018-00652), RGP 102 Verification # (SPL-2023-00545), RWQCB – 401 (R9-2021-0115) (Authorization received 6/20/2023)	11/7/23 to 2/19/24	USACE/RWQCB/CDFW /City	0.25	Previously mitigated with 2015/16 Emergency Mitigation Plan and purchase of 0.18 acre at Stadium Wetland Mitigation Project (San Diego River).
<b>Total Jurisdictional Impacts</b>					<b>0.25</b>	
<b>Emergency Projects</b>						

<sup>1</sup> All impacts to USACE jurisdictional resources were temporary.

<sup>2</sup> Detailed breakdowns of project impacts to vegetation communities are included in the individual project subsections below. Tier IV habitat impacts are not included in this table.

<sup>3</sup> Additional information regarding the status of mitigation for these projects is provided in Section 3, Table 11.

## Municipal Waterways Maintenance Plan Annual Report November 2024

Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction <sup>1</sup>	Impact (acres) <sup>2</sup>	Mitigation <sup>3</sup>
2-01-120 2-01-122	Industrial 1 & 2	City- Emergency SDP No. 3304128 (ATF SCR in submittal process) CCC – CDP 6-20-0356 (SCR in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	1/31/24	USACE/RWQCB/CDFW CCC/City	0.069	Allocated 0.10 acre of mitigation credit at the El Cuervo del Sur Phase II Wetland Mitigation and 0.215 acre of mitigation credit at the Los Peñasquitos Canyon Preserve Phase I Enhancement sites.
					N/A	Previously mitigated in 2021 at El Cuervo del Sur Phase I Wetland Mitigation and Los Peñasquitos Canyon Preserve Phase I Enhancement sites
Total Jurisdictional Impacts					0.069	
2-01-130	Tripp 1	City- Emergency SDP No. 3304128 (ATF SCR in submittal process) CCC – CDP 6-20-0356 (SCR in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/1/24 to 3/9/24	USACE/RWQCB/CDFW CCC/City	N/A	Previously mitigated in 2010 and 2022 at the El Cuervo Del Sur Phase I Wetland Mitigation and Los Peñasquitos Canyon Preserve Phase I Enhancement sites.
				CDFW/CCC/City	N/A	
Total Jurisdictional Impacts					N/A	
2-03-000	Roselle 2	City- Emergency SDP No. 3304128 (ATF SCR in submittal process) CCC – CDP 6-20-0356 (SCR in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/14/24 to 3/26/24	USACE/RWQCB/CDFW CCC/City	N/A	Previously mitigated in emergency and routine maintenance projects at the El Cuervo del Sur Phase I Wetland Mitigation and Los Peñasquitos Canyon Preserve Phase I Enhancement sites.
Total Jurisdictional Impacts					N/A	

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Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction <sup>1</sup>	Impact (acres) <sup>2</sup>	Mitigation <sup>3</sup>
2-03-100	Flintkote 1	City- Emergency SDP No. 3304128 (ATF SCR in submittal process) CCC – CDP 6-20-0356 (SCR in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/5/24	USACE/RWQCB/CDFW CCC/City	N/A	Previously mitigated in routine maintenance projects at the El Cuervo del Sur Phase I Wetland Mitigation and Los Peñasquitos Canyon Preserve Phase I Enhancement.
<b>Total Jurisdictional Impacts</b>					<b>N/A</b>	
2-03-150	Dunhill 1	City- Emergency SDP No. 3304128 (ATF SCR in submittal process) CCC – CDP 6-20-0356 (SCR in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/13/24	CCC/City	0.11	Allocated 0.44 acre of mitigation credit at the El Cuervo del Sur Phase II Wetland Mitigation site.
<b>Total Jurisdictional Impacts</b>					<b>0.11</b>	
3-02-003 3-02-005	Garnet 2 & Damon 1	City- Emergency SDP No. 3304128 (ATF SCR in submittal process) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/29/24 to 5/19/24	Garnet 2- USACE/RWQCB/CDFW /City  Damon 1- USACE/RWQCB/CDFW /City	0.00  0.00	Mitigation not required, as described in section 2.7 below.
<b>Total Jurisdictional Impacts</b>					<b>0.00</b>	

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Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction <sup>1</sup>	Impact (acres) <sup>2</sup>	Mitigation <sup>3</sup>
3-02-101 3-02-103	PB Olney 1 & MBHS	City- Emergency SDP No. 3304128 (ATF SCR in submittal process) CCC – CDP 6-20-0356 (SCR in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/11/24 to 3/23/24	USACE/RWQCB/CDFW /CCC/City	N/A	Previously mitigated in 2021 during routine maintenance at the El Cuervo del Sur Phase I Wetland Mitigation and the Los Peñasquitos Canyon Preserve Phase I Enhancement sites for all jurisdictional aquatic resources; the Marron Valley Cornerstone Conservation Lands Bank was used for all upland mitigation needs.
<b>Total Jurisdictional Impacts</b>					<b>N/A</b>	
4-07-004	Mission Gorge 2	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/28/24 to 4/05/24	USACE/RWQCB/CDFW /City	N/A	Previously mitigated in 2015 at the Stadium Wetland Mitigation Project (San Diego River).
<b>Total Jurisdictional Impacts</b>					<b>N/A</b>	
4-07-901 4-07-911	Cowles Mountain 1 & 2	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/25/24 to 3/29/24	Cowles Mountain 1 USACE/RWQCB/CDFW /City	0.00	Mitigation not required, as described in section 2.10 below.
				Cowles Mountain 2 (Formerly called San Carlos Channel map 54) USACE/RWQCB/CDFW /City	N/A	Previously mitigated in 2014 at the Stadium Wetland Mitigation Project (San Diego River).
<b>Total Jurisdictional Impacts</b>					<b>N/A</b>	

## Municipal Waterways Maintenance Plan Annual Report November 2024

Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction <sup>1</sup>	Impact (acres) <sup>2</sup>	Mitigation <sup>3</sup>
4-08-105	Baja 1	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/22/24 to 3/27/24	USACE/RWQCB/CDFW /City	N/A	Previously mitigated in 2018 and 2019 at the Stadium Wetland Mitigation Project (San Diego River) and Marron Valley Cornerstone Conservation Lands Bank.
<b>Total Jurisdictional Impacts</b>					<b>N/A</b>	
5-02-151	Washington 1	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/18/24 to 3/20/24	USACE/RWQCB/CDFW /City	N/A	Previously mitigated in 2015 & 2016 through the 2015/16 Emergency Mitigation Plan at the Stadium Wetland Mitigation Project (San Diego River).
<b>Total Jurisdictional Impacts</b>					<b>N/A</b>	
5-04-004	National 1	City- Emergency SDP No. 3295213 (ATF SCR PRJ-#1120115 in review) USACE – 404 RGP 63 Verification # (SPL-2024-00071) RWQCB- 401 RGP 63 (R9-2024-0049) (authorization received on 1/15/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47759)	1/27/24 to 1/28/24	USACE/RWQCB/CDFW /City	N/A	Previously mitigated in 2015 & 2016 at 2015/16 Emergency Mitigation Plan and Stadium Wetland Mitigation Project (San Diego River), and in 2021 & 2022 with an additional Stadium Wetland Mitigation Project (San Diego River) purchase and performed as Repeat Maintenance.
<b>Total Jurisdictional Impacts</b>					<b>N/A</b>	
5-04-220 5-04-224	Home 1 & 2	City- Emergency SDP No. 3295213 (ATF SCR PRJ-#1120115 in review) USACE – 404 RGP 63 Verification # (SPL-2024-00071)	1/27/24	Home 1 USACE/RWQCB/CDFW /City	N/A	Previously mitigated in 2015 & 2016 at 2015/16 Emergency Mitigation Plan.

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Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction <sup>1</sup>	Impact (acres) <sup>2</sup>	Mitigation <sup>3</sup>
		RWQCB- 401 RGP 63 (R9-2024-0049) (authorization received on 1/15/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47759)		Home 2 USACE/RWQCB/CDFW /City	N/A	Previously mitigated in 2022 & 2023 at Stadium Wetland Mitigation Project (San Diego River) and Marron Valley Cornerstone Conservation Lands Bank and performed as Repeat Maintenance.
Total Jurisdictional Impacts					N/A	
5-04-237	Ontario 1	City- Emergency SDP No. 3295213 (ATF SCR PRJ-#1124619 in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	2/21/24 to 3/4/24	USACE/RWQCB/CDFW /City	0.00	Mitigation not required, as described in section 2.17 below.
				CDFW/City	0.00	
Total Jurisdictional Impacts					0.00	
5-04-241	Wightman 2	City- Emergency SDP No. 3295213 (ATF SCR PRJ-#1120115 in review) USACE – 404 RGP 63 Verification # (SPL-2024-00071) RWQCB- 401 RGP 63 (R9-2024-0049) (authorization received on 1/15/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47759)	1/28/24	USACE/RWQCB/CDFW /City	0.02	Request to purchase 0.08 acre mitigation at the Stadium Wetland Mitigation Project (San Diego River) submitted. Mitigation at this location is subject to credit availability, pending determination by Public Utilities Department (PUD).
				City	0.02	
Total Jurisdictional Impacts					0.04	
5-05-006	Alpha 1	City- Emergency SDP No. 3295213 (ATF SCR PRJ 1094226 in review) USACE – 404 RGP 63 Verification # (SPL-2024-00071)	1/24/24 to 1/31/24	USACE/RWQCB/CDFW /City	1.01	Previously mitigated at Stadium Wetland Mitigation Project (San Diego River) in 2022 & 2023 for emergency and planned 2023 & 2024 routine

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Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction <sup>1</sup>	Impact (acres) <sup>2</sup>	Mitigation <sup>3</sup>
		RWQCB- 401 RGP (R9-2024-0049) (authorization received on 1/15/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47759)		CDFW/City	0.41	maintenance. Subsequently, in FY24 an additional 2.02 acres of mitigation credits were purchased at Stadium Wetland Mitigation Project (San Diego River) for emergency impacts.
<b>Total Jurisdictional Impacts</b>					<b>1.01</b>	
5-05-008	Ocean View 1	City- Emergency SDP No. 3295213 (ATF SCR PRJ 1094226 in review) USACE – 404 RGP 63 Verification # (SPL-2024-00071) RWQCB- 401 RGP 63 (R9-2024-0049) (authorization received on 1/15/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47759)	1/24/24 to 1/31/24	USACE/RWQCB/CDFW /City	0.82	Previously mitigated in 2022 & 2023 emergency at the Stadium Wetland Mitigation Project (San Diego River). In FY24, an additional 1.64 acres of mitigation credits were purchased at Stadium Wetland Mitigation Project (San Diego River) for emergency impacts.
<b>Total Jurisdictional Impacts</b>					<b>0.82</b>	
5-05-103	Acacia Grove 2	City- Emergency SDP No. 3304128 (ATF SCR PRJ-#1124619 in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	2/12/24 to 2/13/24	USACE/RWQCB/CDFW /City	0.00	Mitigation not required, as described in section 2.21 below.
<b>Total Jurisdictional Impacts</b>					<b>0.00</b>	
5-05-205	Castana 1	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/28/24 to 4/3/24	USACE/RWQCB/CDFW /City	0.00	Mitigation not required, as described in section 2.22 below.



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## November 2024

Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction <sup>1</sup>	Impact (acres) <sup>2</sup>	Mitigation <sup>3</sup>
Total Jurisdictional Impacts					0.00	
5-05-603	Jamacha 1	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	2/9/24	USACE/RWQCB/CDFW /City	N/A	Previously mitigated in 2015 & 2016 at 2015/16 Emergency Mitigation Plan and the Stadium Wetland Mitigation Project (San Diego River).
Total Jurisdictional Impacts					N/A	
5-11-003	Parkside 1	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	4/9/24 to 4/16/24	USACE/RWQCB/CDFW /City	N/A	Previously mitigated in 2015 & 2016 at 2015/16 Emergency Mitigation Plan.
Total Jurisdictional Impacts					N/A	
5-22-023	Grove 1	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/6/24 to 3/9/24	USACE/RWQCB/CDFW /City	0.20	Request to purchase 0.40 acre mitigation at the Stadium Wetland Mitigation Project (San Diego River) submitted. Mitigation at this location is subject to credit availability, pending determination by PUD.
Total Jurisdictional Impacts					0.20	

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Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction <sup>1</sup>	Impact (acres) <sup>2</sup>	Mitigation <sup>3</sup>
5-22-008 5-22-010	Cedar 1 & 2	City- Emergency SDP No. 3304128 5 (ATF SCR in submittal process) CCC – CDP 6-20-0356 (SCR in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/6/24 to 3/16/24	Cedar 1 USACE/RWQCB/CDFW CCC/City	0.193	Previously mitigated in 2015 & 2016 at Hollister Quarry Wetland Mitigation site. In FY24, an additional 0.718 acre of mitigation is allocated at the Hollister Quarry Wetland Mitigation site.
				Cedar 2 USACE/RWQCB/CDFW CCC/City	N/A	Cedar 2 was previously mitigated in 2015 & 2016 at Hollister Quarry Wetland Mitigation site.
Total Jurisdictional Impacts					0.193	
5-22-016	Cerissa 1	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	1/31/24 to 2/2/24	USACE/RWQCB/CDFW /City	0.07	Request to purchase 0.26 acre mitigation at the Stadium Wetland Mitigation Project (San Diego River) submitted. Mitigation at this location is subject to credit availability, pending determination by PUD.
				CDFW/City	0.06	
Total Jurisdictional Impacts					0.13	
6-02-118	Tocayo 2	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) CCC – CDP 6-20-0356 USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	1/30/24 to 3/19/24	CCC/City	0.03	Allocated 0.11 acre of mitigation at Hollister Quarry Wetland Mitigation site.
Total Jurisdictional Impacts					0.03	

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Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction <sup>1</sup>	Impact (acres) <sup>2</sup>	Mitigation <sup>3</sup>
6-03-147	Smythe 1	City- Emergency SDP No. 3304128 (ATF SCR PRJ #1123823, in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	1/31/24 to 4/12/24	USACE/RWQCB/CDFW /City	N/A	No impacts occurred due to repeat maintenance
<b>Total Jurisdictional Impacts</b>					<b>N/A</b>	
6-01-100	Smuggler's Gulch 1	City- Emergency SDP No. 3300910 PRJ 1117784 and (ATF SCR PRJ #1111938 in review) CCC – CDP 6-20-0356 (ATF SCR approved 9/2/2022) USACE – 404 RGP 102 (SPL-2009-00719-RRS) and prior approvals cover activity RWQCB – 401 WQC (R9-2016-0228-0115) and prior approvals cover activity CDFW – SAA No. (1600-2019-0226-R5) and prior approvals cover activity	3/12/24 - ongoing	USACE/RWQCB/CDFW /CCC/City	N/A	Maintenance performed by County of San Diego. No impacts occurred due to repeat maintenance.
<b>Total Jurisdictional Impacts</b>					<b>N/A</b>	

## Routine Maintenance Projects

Routine maintenance and associated activities within the Pomerado 1 concrete channel, the Titus 1 earthen channel and Rolando 2 earthen channel segments were required to reduce flood risk to adjacent properties and infrastructure and to ensure the long-term reliability of City infrastructure. Routine maintenance authorized through demonstration of conformance with the Municipal Waterways Maintenance Plan (MWMP) Environmental Impact Report (Project No. 619992; SCH No. 2017071022) and its applicable permits, listed in Table 1, above.

BMPs were implemented in accordance with each project's Water Pollution Control Plan (WPCP).

Photographs showing conditions before and after maintenance in FY 2024 are included in Appendix C. The projects were monitored by qualified staff and activities were compliant with approved permits and authorizations; no remedial actions were required.

### 2.1 Pomerado 1 (1-04-030) - Routine Channel Maintenance

The Pomerado 1 facility segment is a concrete channel located north and west of the intersection of Pomerado Road and Rancho Bernardo Road. The segment occurs both in a residential area west of Bernardo Oaks Drive and south of Frontera Road as well as along Rancho Bernardo Road between Bernardo Oaks Drive and Pomerado Road. The project is within the Rancho Bernardo Community Planning Area. The facility is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary or the Coastal Overlay Zone (COZ).

Routine maintenance activities were initiated on November 7, 2023 and completed on November 29, 2023. The purpose of the proposed routine maintenance and associated activities at this facility segment was to reduce flood risk to adjacent properties and infrastructure. Maintenance was performed to restore the as-built flood conveyance capacity through the removal of accumulated sediment and vegetation within the facility segment using mechanized equipment (e.g., crane, Bobcat, excavator, dump trucks, and fuel-powered hand tools) to ensure the long-term reliability of the City's stormwater infrastructure flood control function.

Results of the maintenance impacts totaled 1.23 acres (approximately 232 linear feet). A detailed breakdown of impacts to individual vegetation communities is included in Table 2 below. Approximately 1,170 cubic yards (1,764.96 tons) of sediment and vegetation was removed. Minor concrete repair occurred in Pomerado 1 which resulted in impacts to approximately 50 square feet of concrete paneling and the installation of 14 cubic yards of concrete. All concrete repair occurred within the previously approved maintenance impact footprint to meet as-built conditions.

ICF/Rocks biologists conducted biological monitoring to ensure compliance throughout the duration of maintenance activities, during which the biologist and City crews coordinated to address any monitor recommendations to ensure project compliance with project permit authorizations for the routine maintenance activities. Additionally, noise monitoring was conducted at the edge of residentially zoned properties and the levels did not exceed the City's acceptable 12-hour 75 dBA threshold. As such, no additional noise attenuation measures were required.

All activities occurred outside of the avian breeding season. However, as a precaution, pre-maintenance clearance surveys of the project area were conducted during full-time monitoring visits between November 7 and November 13, 2023 to ensure that no early nesting occurred within the project area.

Unavoidable impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Pomerado 1 facility segment, including freshwater marsh (concrete-lined) and disturbed wetland (concrete-lined), did occur as a result of maintenance activities. Impacts on sensitive vegetation communities and jurisdictional aquatic resources in the Pomerado 1 facility have been mitigated through the purchase of 0.48 acres credits at the San Luis Rey Mitigation Bank for wetland areas. Impacts to Tier IV vegetation communities (i.e. disturbed land, eucalyptus woodland, and ornamental plantings) and unvegetated concrete-lined channels would not require mitigation.

**Table 2: Pomerado 1 Routine Channel Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Developed concrete-lined channel (64200)	USACE/RWQCB/CDFW/City	0.99
Disturbed wetland (Concrete lined) (11200)	USACE/RWQCB/CDFW/CCC/City	0.18
Freshwater Marsh (Concrete lined)	USACE/RWQCB/CDFW/CCC/City	0.06
Ornamental Plantings (11000)	IV	0.14
Urban/Developed( (12000)	IV	0.65
<b>Total</b>		<b>2.02</b>

## 2.2 Titus 1 (5-02-162) - Routine Channel Maintenance

The project site is located within the flood control channel section northeast of the intersection of Titus Street and Pringle Street, occurring adjacent to a residential area near Interstate 5 in the Mission Hills neighborhood. The Titus 1 maintenance area extends northeast from residential developments along Titus Street. The facility is within the Uptown Community Planning Area and the City's Multi-Habitat Planning Area (MHPA) boundary but outside of the Coastal Overlay Zone (COZ).

Routine maintenance activities were initiated and completed within the Titus 1 facility, an earthen channel segment, on March 12, 2024. While this was the first round of maintenance conducted at the Titus 1 facility segment under the existing SCR approvals, the work was also conducted in response to an intense storm and associated severe flooding that occurred on January 22, 2024 and from a secondary storm event, which occurred from February 1<sup>st</sup> through 9<sup>th</sup> that brought up to 1.04 inches of precipitation. Emergency repairs were determined necessary in numerous stormwater facilities throughout the City, including Titus 1, where the emergency situation further exacerbated the need to conduct the approved routine maintenance activities.

Temporary flow diversion Best Management Practice (BMPs), as noted in the approved Maintenance Plans, were not required as the channel was void of drainage flows. The City crew and Urban Corps began with vegetation trimming and removal utilizing chainsaws and weed-whackers to remove two trees and clear non-native vegetation. Crews then utilized an excavator to remove accumulated material and load it into dump trucks. Heavy equipment frequently traversed in and out of the maintenance area during work via the designated access route

A Dudek biologist conducted full-time biological monitoring during routine maintenance work at the Titus 1 project, during which the biologist and City crews coordinated to address any monitor recommendations to ensure project compliance with project permit authorizations for the routine maintenance activities.

Maintenance activities occurred during the avian breeding season (January 15th to September 15th). As such, a pre-construction nesting bird survey was completed for general avian species, raptors, and coastal California gnatcatcher (*Poliophtila californica californica*) given the maintenance work was located within and adjacent to the MHPA. The survey was negative. Additionally, noise monitoring was conducted at the edge of residentially zoned properties and the levels did not exceed the City's acceptable 12-hour 75 dBA threshold. As such, no additional noise attenuation measures were required.

Routine maintenance work resulted in impacts to both vegetated and unvegetated portions of the maintenance areas totaling 0.03 acre (53 linear feet) within the Titus 1 facility. Table 3 provides details regarding impacts to specific vegetation communities and land covers. Approximately 19.45 cubic yards (29.18 tons) of sediment and vegetation were removed from the maintenance areas.

Unavoidable impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Titus 1 facility segment, including natural flood channel and developed concrete-lined channel (disturbed wetland [unvegetated concrete-lined]), did occur as a result of maintenance activities. This facility segment was previously permitted through emergency maintenance conducted in 2015/2016; however, compensatory mitigation for impacts to natural flood channel was not previously provided based on mapping collected prior to the emergency work. Therefore, mitigation credits were required. The 0.02 acre of compensatory mitigation required was allocated in FY 2023 at the Stadium Wetland Mitigation Project (San Diego River) to achieve a no-net loss of wetland area (i.e., at least 1:1 rehabilitation), in accordance with the requirements in the MWMP and San Diego Biological Guidelines (SDBG) (City of San Diego 2018). Impacts to Tier IV vegetation communities (i.e. disturbed land, eucalyptus woodland, and ornamental plantings) and unvegetated concrete-lined channels would not require mitigation.

**Table 3: Titus 1 Routine Channel Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Developed concrete- lined channel (64200)	USACE/RWQCB/CDFW/City	<0.01
Disturbed Land (11300)	USACE/RWQCB/CDFW/City	<0.01
	CDFW	0.01
Natural Flood Channel (64200)	USACE/RWQCB/CDFW/City	0.01
Ornamental Plantings (11000)	CDFW	0.01
Ornamental Plantings (11000)	IV	<0.01
Disturbed Land (11300)	IV	0.04
Urban/Developed (12000)	IV	0.02
<b>Total</b>		<b>0.09</b>

## 2.3 Rolando 2 (5-04-048) - Routine Channel Maintenance

The project site is located within the flood control channel sections south of the shopping center on University Ave in between Rolando Boulevard and Aragon Drive (Figure 1). The Rolando 2 maintenance area extends east from Rolando Boulevard and terminates approximately 350 feet west of Aragon Drive (Figure 2). A shopping center is located to the north of the maintenance area and residences are located to the south. The project is within the Mid-City Eastern Area Community Planning Area. The facility is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary or the Coastal Overlay Zone (COZ).

Routine maintenance activities were initiated within the Rolando 2 facility segment on January 7, 2024 and concluded by February 19, 2024, in conformance with the Municipal Waterways Maintenance Plan (MWMP) Environmental Impact Report (Project No. 616992; SCH No. 2017071022) and its applicable permits.

Due to an emergency situation that occurred after flooding in the City in January 2024, work on the project area paused on January 19, 2024 and did not resume until February 15, 2024. All remaining vegetation and sediment was removed from the channel by February 19, 2024; all diversion and other Best Management Practice (BMP) materials were removed from the Rolando 2 channel segment following completion of work.

Dudek biologists conducted biological monitoring to ensure compliance throughout the duration of maintenance activities, during which the biologist and City crews coordinated to address any monitor recommendations to ensure project compliance with project permit authorizations for the routine maintenance activities. Because maintenance activities occurred during the avian breeding season (January 15th to September 15th), necessary pre-construction nesting bird surveys were completed for general avian species and raptors. All surveys were negative.

Routine maintenance work resulted in impacts to both vegetated and unvegetated portions of the maintenance areas totaling 0.616-acre (2,379 linear feet) within Rolando 2. Table 3 provides details regarding impacts to specific vegetation communities and land covers. Approximately 473 tons of sediment and vegetation were removed from the maintenance areas.

Unavoidable impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Rolando 2 facility segment, including riparian scrub [southern willow scrub] and natural flood channel, did occur as a result of maintenance activities. Impacts to sensitive vegetation communities and jurisdictional aquatic resources in Rolando 2 were previously permitted and mitigated through credits assigned in the Wetland Mitigation Plan for 2015/2016 Emergency Channel Maintenance and the Stadium Wetland Mitigation Project (San Diego River). These mitigation sites have been fully installed and are currently in the 3-year and long-term management phases, respectively (Stadium Wetland Mitigation Project recieved final agency sign-off). Since actual impacts to sensitive vegetation communities occurred within the same footprint as previous emergency maintenance impacts for which one- time mitigation was already provided and that mitigation is functional and in good standing, or no additional mitigation was required. Impacts to Tier IV vegetation communities (i.e. disturbed land, eucalyptus woodland, and ornamental plantings) and unvegetated concrete-lined channels would not require mitigation.

**Table 4: Rolando 2 Routine Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Developed Concrete-lined channel (64200)	USACE/RWQCB/CDFW/City	0.002
	CDFW	0.02
Disturbed Land (11300)	CDFW	0.27
Eucalyptus Woodland (79100)	CDFW	0.01
Natural Flood Channel (64200)	USACE/RWQCB/CDFW/City	0.004
Ornamental Plantings (11000)	CDFW	0.06
Riparian Scrub (Southern Willow Scrub) (Disturbed) (63320)	USACE/RWQCB/CDFW/CCC/City	0.25
Disturbed Land (11300)	IV	0.02
Urban/Developed (12000)	IV	0.29
		<b>0.926</b>



## Emergency Channel Projects

On January 22, 2024 an unprecedented rain event that caused severe flooding occurred in San Diego. Site evaluations of the facility segments were conducted by City engineers starting on January 24, 2024 to assess the levels of sediment, vegetation, and debris within the channels as a result of the intense storm and associated severe flooding that occurred. Due to impending conditions and precipitation forecast to provide upwards of 1.04 inches of rain beginning the morning of February 1, 2024, emergency actions were taken to clear deposited sediment, debris, and vegetation of several channels to alleviate the threat of further flooding to adjacent properties and infrastructure.

On January 25, 2024 emergency actions were taken to alleviate the threat to life and property. Due to the sudden nature of the emergency conditions, work was initiated on January 26, 2024. Additionally, the secondary storm event, which occurred from February 1st through 9<sup>th</sup>, brought up to an additional 1.04 inches of precipitation, further exacerbating the conditions (USDA NRCS 2024). In addition to the clearing of sediment, debris, and vegetation, emergency repairs were determined necessary in numerous stormwater facilities throughout the City and such repairs were initiated as soon as possible between approximately January 30, 2024 and May 31, 2024.

While emergency maintenance work was within the avian nesting season (January 15th - September 15th), biological monitoring occurred throughout the maintenance work and no nesting avian species were detected during emergency maintenance activities.

Photographs showing conditions before and after maintenance in FY 2024 are included in Appendix C. The project was monitored by qualified staff and activities were compliant with approved permits and authorizations; no remedial actions were required.

### 2.4 Industrial 1 & 2 (2-01-120 & 2-01-122) - Emergency Channel Maintenance

The emergency project is located west of Interstate 5, south of the intersection of Sorrento Valley Road and Carmel Mountain Drive, and east and west of Sorrento Valley Road. Industrial 1 and Industrial 2 are located within the Coastal Overlay Zone (COZ) and adjacent to the Multi-Habitat Planning Area (MHPA) boundary.

This emergency project removed material (i.e., vegetation, sediment, and debris) to restore the conveyance capacity of the Industrial 1 and 2 channels. The Industrial 1 channel is earthen-bottomed while the Industrial 2 channel is concrete-lined throughout their respective emergency maintenance areas. City of San Diego and contractor crews removed vegetation, sediment, and debris from the channels using excavators and dump trucks staged outside of the channel (i.e., "pure excavation" methods resulting in no regulated discharge of fill or dredge material as defined under the federal Clean Water Act). All material was hauled to an approved disposal location.

The emergency project removed approximately 67.5 cubic yards (102 tons) of accumulated vegetation, sediment, and debris from approximately 102 linear feet of the earthen bottom segment of Industrial 1. Furthermore, the project removed approximately 292.5 cubic yards (439 tons) of accumulated vegetation, sediment, and debris from approximately 101 linear feet of the concrete-lined segment of Industrial 2.

The emergency work at Industrial 1 & 2 was initiated on January 31, 2024, and completed on February 1, 2024. Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum impacts necessary to alleviate emergency conditions.

A portion of the impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in Industrial 1 were previously impacted under recent permits. The Coastal Development Permit identified mitigation requirements for a portion of the 2024 emergency impact area. That mitigation requirement is being fulfilled at the El Cuervo del Sur Phase II Wetland Mitigation site. Mitigation for additional impacts that occurred during the FY24 Emergency maintenance is allocated at the Los Peñasquitos Canyon Preserve Phase I Enhancement site.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Industrial 2 facility segments were previously permitted as part of emergency maintenance activities that occurred in October 2021 and one-time mitigation was provided at the El Cuervo del Sur Phase I Wetland Mitigation and Los Peñasquitos Canyon Preserve Phase I Enhancement sites.

A detailed breakdown of impacts to individual vegetation communities is included in Table 5 below.

**Table 5: Industrial 1 & 2 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
<i>Industrial 1</i>		
Developed Concrete-lined Channel	USACE/RWQCB/CDFW/CCC/City	0.002
Freshwater Marsh (Concrete-lined) (52400)	USACE/RWQCB/CDFW/CCC/City	0.008
Riparian Forest (Southern Willow Forest) (61320)	USACE/RWQCB/CDFW/CCC/City	0.061
<b>Subtotal</b>		<b>0.071</b>
<i>Industrial 2</i>		
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Subtotal</b>		<b>N/A</b>
<b>Total</b>		<b>0.071</b>

## 2.5 Tripp 1 (2-01-130) - Emergency Channel Maintenance

The emergency project is located west of Interstate 5, east of Sorrento Valley Road, approximately 200 feet south of Tripp Court. Tripp 1 is located approximately 600 feet northeast of the Multi-Habitat Planning Area (MHPA) boundary. Additionally, Tripp 1 is located within the Coastal Overlay Zone (COZ).

The Tripp 1 emergency project removed material (i.e., vegetation, sediment, debris, etc.) to restore the conveyance capacity of the channel, which is concrete-bottomed with concrete-lined banks throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment, vegetation, and

debris from the channel using skid steers, an excavator, tree-trimming power tools, and dump trucks staged above the banks of Tripp 1. All material was hauled to an approved disposal location.

The emergency project removed approximately 1,533 cubic yards (2,039 tons) of accumulated sediment, vegetation, and debris from approximately 1,457 linear feet of the concrete-lined Tripp 1 facility.

The emergency work at Tripp 1 was initiated on March 5, 2024, and completed on March 8, 2024. Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum impacts necessary to alleviate emergency conditions.

Portions of the impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Tripp 1 facility segment were previously permitted as part of emergency (2010) and routine (2022) maintenance activities. Mitigation was provided at the El Cuervo del Sur Phase I Wetland Mitigation and Los Peñasquitos Canyon Preserve Phase I Enhancement mitigation projects. The upstream portion of Tripp 1 did not require emergency maintenance in 2010 and was not included in routine maintenance in 2022. Impacts resulting from FY 2024 emergency maintenance activities do not require mitigation.

A detailed breakdown of impacts to individual vegetation communities is included in Table 6 below.

**Table 6: Tripp 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Developed Concrete-lined Channel (64200)	USACE/RWQCB/CDFW/CCC/City	0.10
	CDFW/CCC/City	0.18
Disturbed Wetland (concrete-lined) (11200)	USACE/RWQCB/CDFW/CCC/City	0.11
	CDFW/CCC/City	0.05
Freshwater Marsh (concrete-lined) (52400)	USACE/RWQCB/CDFW/City	0.02
Riparian Scrub (Southern Willow Scrub) (6300)	USACE/RWQCB/CDFW/City	0.02
	CDFW/CCC/City	0.02
<b>Total</b>		<b>0.35</b>

## 2.6 Roselle 2 (2-03-000) - Emergency Channel Maintenance

The emergency project is located west of Interstate 805, northeast of Roselle Street and southwest of Sorrento Valley Road approximately 0.1 miles northwest of Tansy Street. Roselle 2 is located approximately 600 feet northeast of the Multi-Habitat Planning Area (MHPA) boundary. Additionally, Roselle 2 is located within the Coastal Overlay Zone (COZ).

The emergency project removed material (i.e., vegetation, sediment, debris, etc.) to restore the conveyance capacity of the channel. The Roselle 2 channel is concrete-bottomed with concrete-lined banks throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment, vegetation, and debris from the channel using skid steers, an excavator, a front loader, tree-trimming power tools, and dump trucks staged above the banks of Roselle 2. All material was hauled to an approved disposal location.

The emergency project removed approximately 6,776 cubic yards (9,012 tons) of accumulated sediment, vegetation, and debris from approximately 2,323 linear feet of the concrete-lined segment of Roselle 2. Impacts resulting from the FY 2024 emergency maintenance activities do not require mitigation.

Emergency work at Roselle 2 was initiated on March 14, 2024, and completed on March 26, 2024. Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities, to ensure that work was limited to the minimum necessary to alleviate emergency conditions.

Emergency work occurred within segments of the Roselle 2 channel that have been previously included in emergency and routine maintenance project (i.e., vegetation impacts have been previously permitted and mitigated at the El Cuervo del Sur Phase 1 Wetland Mitigation and Los Peñasquitos Canyon Preserve Phase I Enhancement mitigation projects.

**Table 7: Roselle 2 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.7 Flintkote 1 (2-03-100) - Emergency Channel Maintenance

The Flintkote 1 channel emergency project at is located between Flintkote Avenue and Roselle Street, and between Roselle Street and Peñasquitos Creek in northwestern San Diego. Flintkote 1 is located adjacent to the Multi-Habitat Planning Area (MHPA) boundary which covers Peñasquitos Creek, and is also located within the Coastal Overlay Zone (COZ).

The emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the Flintkote 1 channel. The channel is concrete-lined throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment from the Flintkote 1 channel using an excavator and skid steer. All material was hauled to an approved disposal location.

Approximately 53 cubic yards (80 tons) of accumulated sediment and debris was removed from approximately 1000 linear feet of the emergency project of the Flintkote 1 channel.

The emergency work at Flintkote 1 was initiated and completed on March 5, 2024. A qualified monitoring biologist conducted a spot check monitoring visit during emergency maintenance activities, to ensure that work was limited to the minimum necessary to alleviate emergency conditions.

The emergency maintenance work area is a channelized, concrete-lined stormwater conveyance channel that does not support vegetation, and work occurred entirely within segments of the Flintkote 1 channel that have been previously included in routine maintenance projects (i.e. vegetation impacts have been previously permitted and mitigated at the El Cuervo del Sur Phase 1 Wetland Mitigation and Los Peñasquitos Canyon Preserve Phase I Enhancement mitigation projects.

**Table 8: Flintkote 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.8 Dunhill 1 (2-03-150) - Emergency Channel Maintenance

The emergency project at the Dunhill 1 channel is located on the south side of Dunhill Street, between Roselle Street and Tower Road in northwestern San Diego. Dunhill 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary but is located within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the channel (Figure 2). The Dunhill 1 channel is earthen-bottomed throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment from the channel using an excavator and skid steer staged above the banks of the facility (i.e., pure excavation). All material was hauled to an approved disposal location.

The emergency project removed approximately 21 cubic yards (32 tons) of accumulated sediment and debris from approximately 448 linear feet of the earthen bottom segment of Dunhill 1.

The emergency work at Dunhill 1 was started and completed on March 13, 2024. A qualified monitoring biologist conducted a spot check monitoring visit during emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions.

The emergency maintenance work area is an earthen stormwater conveyance channel supporting primarily disturbed wetland vegetation and disturbed freshwater marsh vegetation. Impacts to resources in the Dunhill 1 channel were limited to the area previously authorized, and mitigation was allocated (under a Coastal Development Permit), based on planned maintenance. Mitigation for these impacts was allocated at the El Cuervo del Sur Phase II Wetland Mitigation site. No differences have occurred in the acreages of the wetland habitat within the previously authorized area since the 2021 CDP.

**Table 9: Dunhill 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Disturbed Wetland (64000)	USACE/RWQCB/CDFW/City	0.08
Disturbed Freshwater Marsh (524000)	USACE/RWQCB/CDFW/City	0.03
<b>Total</b>		<b>0.11</b>

## 2.9 Garnet 2 & Damon 1 (3-02-003 & 3-02-005) - Emergency Channel Maintenance

The emergency project is located within Rose Creek, west of Interstate 5 and on either side of Mission Bay Drive. The Damon 1 facility is on the east side of Mission Bay Drive, stretching from Damon Avenue and Bluffside; Garnet 2 is on the west side of Mission Bay Drive, extending west and south as Rose Creek flows towards Mission Bay beneath Garnet Avenue. Damon 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ); the Garnet 2 facility contains MHPA lands and sits adjacent but outside of the COZ.

This emergency project removed material (i.e., vegetation, sediment, debris, etc.) to restore the conveyance capacity of the Damon 1 and Garnet 2 facilities. The Damon 1 and Garnet 2 channels are completely concrete lined throughout their emergency maintenance areas. City of San Diego and contractor crews removed sediment, vegetation, and debris from the channel using excavators, bulldozers, bobcats, front-end loaders, and dump trucks staged both in the channels and above the banks of the Damon 1 and Garnet 2 facilities. All material was hauled to an approved disposal location.

The emergency work removed approximately 10,923 cubic yards (16,385 tons) of accumulated sediment, vegetation, and debris from approximately 685 linear feet of the concrete-lined segment of Damon 1 and from approximately 379 linear feet of the concrete-lined portion of Garnet 2.

The emergency work at Garnet 2 & Damon 1 was initiated on March 29, 2024, and completed on May 19, 2024. Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area.

Prior to the emergency situation that occurred in January 2024, no routine or emergency maintenance has been conducted in the Damon 1 or Garnet 2 facility segments. Emergency maintenance in 2024 included removal of trash, sediment, and vegetation from these channels totaling approximately 1,064 linear feet. Since no impacts were previously permitted at these segments, no mitigation has been assigned to either facility. Impacts resulting from the FY 2024 emergency maintenance activities do not require mitigation.

A detailed breakdown of impacts to individual vegetation communities is included in Table 10 below.

**Table 10: Garnet 2 & Damon 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
<i>Garnet 2</i>		
Developed Concrete-lined Channel (62400)	USACE/RWQCB/CDFW/City	0.26
Eucalyptus Woodland (Concrete-lined) (79100)	USACE/RWQCB/CDFW/City	0.03
Eucalyptus Woodland (Concrete-lined) (79100)	CDFW/City	<0.01
Natural Flood Channel (64200)	USACE/RWQCB/CDFW/City	0.01
Riparian Scrub (Southern Willow Forest) (Concrete-lined) (63000)	USACE/RWQCB/CDFW/City	0.63
Riparian Scrub (Southern Willow Scrub) (Concrete-lined) (63000)	USACE/RWQCB/CDFW/City	0.02
Riparian Scrub (Southern Willow Scrub) (Concrete-lined) (63000)	CDFW/City	<0.01
<b>Subtotal</b>		<b>0.95</b>
<i>Damon 1</i>		
Developed Concrete-lined Channel (62400)	USACE/RWQCB/CDFW/City	0.95
Disturbed Wetland (Concrete-lined)	USACE/RWQCB/CDFW/City	0.08
Disturbed Wetland (Arundo-dominated) (Concrete-lined) (11200)	USACE/RWQCB/CDFW/City	0.06
Eucalyptus Woodland (Concrete-lined) (79100)	IV	0.04
Ornamental Planting (Concrete-lined) (11000)	IV	0.06
Disturbed Riparian Forest (Southern Willow Forest) (Concrete-lined) (61300)	USACE/RWQCB/CDFW/City	0.31
Riparian Forest (Southern Riparian Forest) (Concrete-lined) (61300)	USACE/RWQCB/CDFW/City	0.28
Riparian Scrub (Southern Willow Scrub) (Concrete-lined) (6300)	USACE/RWQCB/CDFW/City	0.09
<b>Subtotal</b>		<b>1.87</b>
<b>Total</b>		<b>2.82</b>



## **2.10 PB Olney 1 & MBHS 1 (3-02-101 & 3-02-103) - Emergency Channel Maintenance**

The emergency project is located west of Interstate 5, partially adjacent to Mission Bay High School to the east and Pacific Beach Drive to the south. PB-Olney 1 and MBHS 1 is located within the Coastal Overlay Zone (COZ) and adjacent to the Multi-Habitat Planning Area (MHPA) boundary.

This emergency project removed material (i.e., vegetation, sediment, and debris) to restore the conveyance capacity of the PB-Olney 1 and MBHS 1 facilities. The PB-Olney 1 channel is concrete-lined; the MBHS 1 channel is earthen-bottomed. City of San Diego and contractor crews removed vegetation, sediment, and debris from the channels using excavators and a dump truck staged outside of the channel (i.e., “pure excavation” methods resulting in no regulated discharge of fill or dredge material as defined under the federal Clean Water Act). All material was hauled to an approved disposal location.

The emergency project removed approximately 35 cubic yards (52 tons) of accumulated vegetation, sediment, and debris from approximately 922 linear feet of the earthen bottom segment of PB-Olney and 1,072 linear feet in the MBHS 1 facility.

The emergency work at PB Olney 1 & MBHS 1 was initiated on March 11, 2024 and was completed by March 23, 2024. Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the MBHS 1 facility segment were previously permitted as part of routine maintenance that most recently occurred in 2021 and one-time mitigation was provided at the El Cuervo del Sur Phase I Wetland Mitigation and the Los Peñasquitos Canyon Preserve Phase I Enhancement mitigation sites for all wetland, streambed, and other jurisdictional aquatic resources; the Marron Valley Cornerstone Conservation Lands Bank was utilized for City-only required upland habitat. Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the PB Olney 1 facility segment were previously permitted as part of routine maintenance that most recently occurred in 2021 and one-time mitigation was provided at the El Cuervo del Sur Phase I Wetland Mitigation and the Los Peñasquitos Canyon Preserve Phase I Enhancement mitigation sites for all wetland, streambed, and other jurisdictional aquatic resources; the Marron Valley Cornerstone Conservation Lands Bank was utilized for City-only required upland habitat. Emergency work occurred entirely within an area that was previously authorized and mitigated.



**Table 11: PB Olney 1 & MBHS 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
<i>PB Olney 1</i>		
No impacts occurred due to repeat maintenance	N/A	N/A
<i>MBHS 1</i>		
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.11 Mission Gorge 2 (4-07-004) - Emergency Channel Maintenance

The emergency project is located north of Interstate 8, approximately 250 feet south of Mission Gorge Place in Mission Valley, surrounding lands are dominated by developed commercial areas. Mission Gorge 2 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the Mission Gorge 2 channel. The Mission Gorge 2 channel is concrete-lined bottomed throughout the emergency maintenance area. City of San Diego and contractor crews removed vegetation, sediment, and debris from the channel using excavators and dump trucks. All material was hauled to an approved disposal location.

The emergency project removed approximately 470 cubic yards (670 tons) of accumulated sediment and debris from approximately 522 linear feet of the earthen bottom segment of Mission Gorge 2.

The emergency work at Mission Gorge 2 was initiated on March 28, 2024, and completed on April 15, 2024. Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Mission Gorge 2 facility segment were previously permitted as part of routine maintenance that occurred in 2023; one-time mitigation was provided at the City's Stadium Wetland Mitigation Project (San Diego River). The limits of the emergency maintenance work were confined to the previously permitted and mitigated areas within Mission Gorge 2.

**Table 12: Mission Gorge 2 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.12 Cowles Mountain 1 & 2 (4-07-901 & 4-07-911) - Emergency Channel Maintenance

The emergency project is located south of Navajo Road within the Murray Reservoir watershed, south and east of Cowles Mountain in eastern San Diego. The Cowles Mountain 1 & Cowles Mountain 2 facilities are not located within the City's Multi-Habitat Planning Area (MHPA) or the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the Cowles Mountain 1 and 2 facilities. Cowles Mountain 1 and 2 are concrete lined throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment and debris from the channel using a skid steer and other heavy vehicles to remove material from the facility; two excavators were in use, one in the channel and one outside the channel; crew with hand tools also assisted with this process in the channel. All material was hauled to an approved disposal location using dump trucks.

The emergency project removed approximately 58 cubic yards (87 tons) of accumulated sediment and debris from approximately 697 linear feet of the concrete-lined Cowles Mountain 1 facility; approximately 3 cubic yards (4 tons) of accumulated sediment and debris from approximately 2,891 linear feet of the concrete-lined Cowles Mountain 2 facility.

The emergency work at Cowles Mountain 1 & 2 was initiated on March 25, 2024 and was completed by March 29, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area.

Cowles Mountain 1 has not been previously included in any emergency or routine maintenance project (i.e., vegetation impacts have not been previously permitted or mitigated). Impacts resulting from the Cowles Mountain 1 FY 2024 emergency maintenance activities do not require mitigation. Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Cowles Mountain 2 facility segment were previously permitted as part of routine maintenance that occurred in 2014 with one-time

mitigation provided at the Stadium Wetland Mitigation Project (San Diego River) (facility was referred to as San Carlos Channel Map 54).

A detailed breakdown of impacts to individual vegetation communities is included in Table 13 below.

**Table 13: Cowles Mountain 1 & 2 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
<i>Cowles Mountain 1</i>		
Developed concrete-lined Channel (62400)	USACE/RWQCB/CDFW/City	0.1
Disturbed Wetland (concrete-lined) (65100)	USACE/RWQCB/CDFW/City	0.01
Freshwater Marsh (concrete-lined) (disturbed) (52400)	USACE/RWQCB/CDFW/City	0.01
Riparian Scrub (concrete-lined) (63000)	USACE/RWQCB/CDFW/City	0.01
Ornamental Plantings (concrete-lined) (11000)	IV	0.02
<b>Subtotal</b>		<b>0.15</b>
<i>Cowles Mountain 2</i>		
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Subtotal</b>		<b>N/A</b>
<b>Total</b>		<b>0.15</b>

## 2.13 Baja 1 (4-08-105) - Emergency Channel Maintenance

The emergency project is located north of El Cajon Boulevard within Norfolk Canyon Creek, south of the intersection of Baja Drive and 54<sup>th</sup> Street. Baja 1 is adjacent to, but not located within the Multi-Habitat Planning Area (MHPA); the Baja 1 facility is not within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the Baja 1 channel. The Baja 1 channel is concrete lined throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment and debris from the channel using a skid steer and other heavy vehicles to remove material from the facility; two excavators were in use, one in the channel and one outside the channel; crew with hand tools also assisted with this process in the channel. All material was hauled to an approved disposal location using dump trucks.

The emergency project removed approximately 101 cubic yards (152 tons) of accumulated sediment and debris from approximately 1,369 linear feet of the concrete-lined Baja 1 facility.

The emergency work at Baja 1 was initiated on March 22, 2024 and was completed by March 27, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Baja 1 facility segments were previously permitted as part of the routine maintenance activities that occurred in 2018 and 2019 and one-time mitigation was provided at the City's Stadium Wetland Mitigation Project (San Diego River) and the Marron Valley Cornerstone Conservation Lands Bank.

**Table 14: Baja 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.14 Washington 1 (5-02-151) - Emergency Channel Maintenance

The emergency project is located parallel with Washington Street, north of the intersection of Washington Street and San Diego Avenue. Washington 1 is not located within the Multi-Habitat Planning Area (MHPA) or the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the Washington 1 channel). The Washington 1 channel has an earthen-bottom throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment and debris from the channel using a skid steer to remove material from the facility. All material was hauled to an approved disposal location using dump trucks.

The emergency project removed approximately 86 cubic yards (129 tons) of accumulated sediment and debris from approximately 217 linear feet of the concrete-lined Washington 1 facility.

The emergency work at Washington 1 was initiated and completed on March 22, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of

maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Washington 1 facility segments were previously permitted as part of the emergency maintenance activities that occurred in 2015/16; one-time mitigation was provided through the 2015/16 Emergency Mitigation Plan and at the Stadium Wetland Mitigation Project (San Diego River).

**Table 15: Washington 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.15 National 1 (5-04-004) - Emergency Channel Maintenance

The emergency project is located east of Interstate 5, within Chollas Creek from the area just south and north of the National Avenue street crossing/bridge. National 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the National 1 channel. The National 1 channel is earthen-bottomed throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment and debris from the channel using excavators, bulldozers, bobcats, front-end loaders, and dump trucks staged both in the channels and above the banks of National 1. All material was hauled to an approved disposal location.

The emergency project removed approximately 141 cubic yards (211.20 tons) of accumulated sediment and debris from approximately 209 linear feet of the earthen bottom segment of National 1.

The emergency work at National 1 was initiated on January 27<sup>th</sup>, 2024, and completed on January 28, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum impacts necessary to alleviate emergency conditions.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the National 1 facility segment were previously permitted as part of routine maintenance that occurred between October 2021 and January 2022 and one-time mitigation was provided at the 2015/16 Emergency Mitigation Plan and the City's Stadium Wetland Mitigation Project (San Diego River). The limits of the emergency maintenance work were confined to the previously permitted and mitigated areas within National 1.

**Table 16: National 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.16 Home 1 & 2 (5-04-220 & 5-04-224) - Emergency Channel Maintenance

The emergency project is located north of Interstate 94, within Auburn Creek, Home 1 is just northeast of the intersection of Home Avenue and Federal Boulevard, and Home 2 is southeast of the intersection of Home Avenue and Spillman Drive. Home 1 and Home 2 are not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

The Home 1 and Home 2 emergency project removed material (i.e., sediment, debris, and vegetation) to restore the conveyance capacity of the channel. The Home 1 and Home 2 channel segments are earthen-bottomed throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment, debris, and vegetation from the Home 1 channel using skid steers in the channel and hand tools (i.e., chain saws), and from the Home 2 channel using long reach excavator staged outside the channel on Spillman Drive. All material was hauled to an approved disposal location.

The Home 1 emergency project removed approximately 63 cubic yards (94.50 tons) of accumulated sediment and debris from approximately 58 linear feet of the earthen bottom segment of the channel segment. The Home 2 emergency project removed approximately 30 cubic yards (45 tons) of accumulated sediment and debris from approximately 0.5 linear feet of the earthen bottom segment of channel segment.

The emergency work at Home 1 and Home 2 was initiated and completed on January 27, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum impacts necessary to alleviate emergency conditions.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Home 1 facility segment were previously permitted as part of emergency maintenance activities that occurred in 2016 and one-time mitigation was provided as part of the 2015/16 Emergency Mitigation Plan Project. A small segment of natural flood channel and disturbed wetland (Arundo-dominated) was impacted outside of the previously permitted limits; however, the total emergency impacts are less than previously permitted and mitigated.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Home 2 facility segment were previously permitted as part of routine maintenance that occurred in November 2022 and one-time mitigation was provided at the City's Stadium Wetland Mitigation Project (San Diego River) and Marron Valley Cornerstone Conservation Lands Bank. The limits of the emergency maintenance work were confined to the previously permitted and mitigated areas within Home 2. Furthermore, the emergency maintenance work within Home 2 was carried out through pure excavation methods (i.e., no discharge of dredge or fill material as defined by the Clean Water Act).

A detailed breakdown of impacts to individual vegetation communities for Home 1 and Home 2 is included in Table 17 below.

**Table 17: Home 1 & 2 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
<i>Home 1</i>		
Disturbed Wetland (Arundo-dominated) (65100)	USACE/RWQCB/CDFW/City	<0.01
Natural Flood Channel (64200)	USACE/RWQCB/CDFW/City	0.04
Riparian Forest (Southern Willow Forest) (61320)	USACE/RWQCB/CDFW/City	0.01
Riparian Forest (Southern Willow Forest) (61320)	CDFW/City	<0.01
Ornamental Plantings (11000)	USACE/RWQCB/CDFW/City	<0.01
Urban/Developed (12000)	USACE/RWQCB/CDFW/City	<0.01
<b>Subtotal</b>		<b>0.06</b>
<i>Home 2</i>		
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>0.06</b>

## 2.17 Ontario 1 (5-04-237) - Emergency Channel Maintenance

The emergency project at the Ontario 1 channel is located on the northeast of the intersection of Ontario Avenue and Auburn Drive, continuing northeast to just south of the intersection of 50<sup>th</sup> Street and Wightman Street in San Diego. Ontario 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the Ontario 1 channel. The Ontario 1 channel is earthen-bottomed throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment and debris from the channel using a



bobcat, excavator, skid-steer, and dump trucks staged both above the banks and in the channel/ditch bottom of Ontario 1. All material was hauled to an approved disposal location.

The emergency project removed approximately 30 cubic yards (45 tons) of accumulated sediment and debris from approximately 958 linear feet of the earthen bottom segment of Ontario 1.

The emergency work at Ontario 1 was initiated on January 30, 2024, and completed on March 4, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the mapped vegetation communities and land cover types within the emergency impact area.

The Ontario 1 channel has not been previously included in any emergency or routine maintenance project (i.e., vegetation impacts have not been previously permitted or mitigated). A detailed breakdown of impacts to individual vegetation communities is included in Table 19 below. Since no compensatory mitigation is proposed for unvegetated, invasive, and herbaceous vegetation on the basis that periodic maintenance has minimal effects on habitat function, including water quality and all impacts are on these habitat types, no mitigation is proposed for Ontario 1.

**Table 18: Ontario 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Developed concrete-lined Channel (64200)	USACE/RWQCB/CDFW/City	0.02
	CDFW/City	0.03
Disturbed Wetland (Arundo) (65100)	CDFW/City	0.01
Natural Flood Channel (64200)	USACE/RWQCB/CDFW/City	0.06
	CDFW/City	<0.01
Disturbed Land (11300)	IV	0.10
Urban//Developed (12000)	IV	<0.01
<b>Total</b>		<b>0.22</b>

## 2.18 Wightman 2 (5-04-239) - Emergency Channel Maintenance

The emergency project is located east of Interstate 15, within Auburn Creek from the area just north and east 50th Street and Wightman Street. Wightman 2 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the Wightman 2 channel. The Wightman 2 channel is earthen bottomed throughout the emergency maintenance area. City of San Diego and contractor crews also removed approximately four willow (*Salix* sp.) trees during emergency maintenance activities. Sediment and debris were removed from the channel using a small excavator, hand tools, and dump trucks staged outside the channel. All material was hauled to an approved disposal location.

The emergency project removed approximately 80 cubic yards (120 tons) of accumulated sediment and debris from approximately 65 linear feet of the earthen bottom segment of Wightman 2.

The emergency work at Wightman 2 was initiated and completed on January 28, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions.

Emergency work occurred within areas not previously included in any maintenance area. Impacts to jurisdictional vegetation and land covers compensatory mitigation has been requested at the Stadium Wetland Mitigation Project (San Diego River). Mitigation at this location is subject to credit availability, pending a determination by the Public Utilities Department (PUD).

A detailed breakdown of impacts to individual vegetation communities is included in Table 19 below.

**Table 19: Wightman 2 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Riparian Forest (Southern Willow Forest) (61320)	USACE/RWQCB/CDFW/City	0.02
Riparian Forest (Southern Willow Forest) (61320)	CDFW/City	0.02
<b>Total</b>		<b>0.04</b>

## 2.19 Alpha 1 (5-05-006) - Emergency Channel Maintenance

Emergency maintenance was required within the Alpha 1 channel segment in both 2023 and 2024. Alpha 1 was permitted and planned for routine maintenance in 2024, however emergency channel cleanings were required and occurred prior to planned routine maintenance. Because the City After-the-Fact SCR for the 2023 Alpha emergency was not completed prior to the 2024 emergency work, the 2024 channel emergency was combined under the same SCR number.

The Alpha 1 emergency project is located within South Chollas Creek, east of Interstate 5 from just northwest of the intersection of Birch Street and Beta Street to the National Avenue street crossing/bridge east of the intersection of South 41<sup>st</sup> Street and National Avenue. Alpha 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., vegetation, sediment, debris, etc.) to restore the conveyance capacity of the Alpha 1 channel. The Alpha 1 channel is earthen-bottomed with earthen and concrete-lined banks throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment, vegetation, and debris from the channel using excavators, bulldozers, bobcats, front-end loaders, and dump trucks staged both in the channels and above the banks of Alpha 1. All material was hauled to an approved disposal location.

The emergency project removed approximately 5,004 cubic yards (7,506 tons) of accumulated sediment, vegetation, and debris from approximately 5,032 linear feet of the earthen bottom segment of Alpha 1.

The emergency work at Alpha 1 was initiated on January 26, 2024, and completed on January 31, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions.

Emergency work partially occurred within the previously impacted and mitigated portions of the Alpha 1 channel, as well as lands not previously included in emergency and routine maintenance. Impacts to jurisdictional vegetation and land covers compensatory mitigation is provided at the Stadium Wetland Mitigation Project (San Diego River).

A detailed breakdown of impacts to individual vegetation communities is included in Table 20 below.

**Table 20: Alpha 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Developed concrete-lined Channel (64200)	USACE/RWQCB/CDFW/City	0.02
	CDFW/City	0.07
Disturbed Wetland (11200)	USACE/RWQCB/CDFW/City	1.08
	CDFW/City	0.13
Disturbed Wetland (Arundo-dominated) (65100)	USACE/RWQCB/CDFW/City	0.06
	CDFW/City	0.13
Disturbed Wetland (Palm-dominated) (11200)	USACE/RWQCB/CDFW/City	0.02
Freshwater Marsh (52400)	USACE/RWQCB/CDFW/City	0.39
Natural Flood Channel (64200)	USACE/RWQCB/CDFW/City	0.55
	CDFW/City	<0.01
Riparian Forest (Southern Willow Forest) (61320)	USACE/RWQCB/CDFW/City	0.94
	CDFW/City	0.37
Riparian Scrub (6300)	CDFW/City	0.02
Riparian Scrub (Southern Willow Scrub) (6300)	USACE/RWQCB/CDFW/City	0.05
	CDFW/City	0.02
Disturbed Land (11300)	CDFW/City	0.11
Eucalyptus Woodland (79100)	CDFW	0.01
Ornamental Plantings (11000)	USACE/RWQCB/CDFW/City	<0.01
<b>Total</b>		<b>3.37</b>

## 2.20 Ocean View 1 (5-05-008) - Emergency Channel Maintenance

The emergency project was located within South Chollas Creek, east of Interstate 5 from just northeast from just north of the National Avenue street crossing/bridge to south of the Ocean View Boulevard street crossing just southwest of the intersection of South 42nd Street and Ocean View Boulevard (Figure 2 - Maintenance Impacts). Ocean View 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

The emergency project removed approximately 1,712 cubic yards (2,568 tons) of accumulated sediment, vegetation, and debris from approximately 1,765 linear feet of the earthen bottom segment of Ocean View 1.

The emergency work at Ocean View 1 was initiated on January 28, 2024 and completed on January 31, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum impacts necessary to alleviate emergency conditions.

Emergency work partially occurred within areas impacted during FY23 emergency maintenance, as well as lands not previously included in any maintenance area. Table 22 provides details regarding emergency impacts to specific vegetation communities and land covers, as well as potential jurisdictional waters, that were not previously permitted. Impacts to jurisdictional vegetation and land covers compensatory mitigation is provided at the Stadium Wetland Mitigation Project (San Diego River).

A detailed breakdown of impacts to individual vegetation communities is included in Table 21 below.

**Table 21: Ocean View 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Developed concrete-lined Channel (64200)	USACE/RWQCB/CDFW/City	0.34
	CDFW/City	0.31
Disturbed Wetland (11200)	USACE/RWQCB/CDFW/City	0.48
Riparian Forest (Southern Willow Forest) (61320)	USACE/RWQCB/CDFW/City	0.82
<b>Total</b>		<b>1.64</b>

## 2.21 Acacia Grove 2 (5-05-103) - Emergency Channel Maintenance

The emergency project at the Acacia Grove 2 channel is located on the north side of Acacia Grove Way, between S 36th Street and S 37th Street in southeastern San Diego. (Figure 2 – Maintenance Impacts). Acacia Grove 2 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., vegetation, sediment and debris) to restore the conveyance capacity of the Acacia Grove 2 channel. The Acacia Grove 2 channel has an earthen bottom throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment, debris, and vegetation from the channel using skid steers in the channel and hand tools (i.e., chain saws). All material was hauled to an approved disposal location.

The emergency project removed approximately 103 cubic yards (155 tons) of vegetation, and debris from approximately 33 linear feet of the earthen bottom segment of Acacia Grove 2.

The emergency work at Acacia Grove 2 was initiated on February 12, 2024 and completed by February 13, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area.

No portion of the impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Acacia Grove 2 facility segments were previously permitted. Based on the impacts that occurred (exclusive to invasive species), mitigation is not likely required for emergency maintenance activities at Acacia Grove 2.

A detailed breakdown of impacts to individual vegetation communities is included in Table 22 below.

**Table 22: Acacia Grove 2 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Disturbed Wetland (11200)	USACE/RWQCB/CDFW/City	0.1
<b>Total</b>		<b>0.1</b>

## 2.22 Castana 1 (5-05-205) - Emergency Channel Maintenance

The emergency project is located northeast of the intersection of Euclid Avenue and Imperial Avenue, within the Encanto Branch of South Chollas Creek in southeastern San Diego. The project is bounded by Groveland Drive to the north, Castana Street to the south, San Jacinto Drive to the east and Euclid Avenue to the west. Castana 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment, debris, and vegetation) to restore the conveyance capacity of the Castana 1 channel. The Castana 1 channel is earthen-bottomed throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment, debris, and vegetation from the channel using skid steers in the channel and hand tools (i.e., chain saws). All material was hauled to an approved disposal location.

The emergency project removed approximately 43 cubic yards (29 tons) of accumulated sediment and debris from approximately 240 linear feet of the earthen bottom segment of Castana 1.

The emergency work at Castana 1 was initiated and completed on March 27, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area.

No portion of the impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Castana 1 facility segment was previously permitted. Based on the impacts that occurred (exclusive to disturbed wetland and natural flood channel), impacts resulting from FY 2024 emergency maintenance activities are not anticipated to require mitigation.

A detailed breakdown of impacts to individual vegetation communities is included in Table 23 below.

**Table 23: Castana 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Disturbed Wetland (11200)	USACE/RWQCB/CDFW/City	0.015
Natural Flood Channel (64200)	USACE/RWQCB/CDFW/City	0.015
<b>Total</b>		<b>0.03</b>

## 2.23 Jamacha 1 (5-05-603) - Emergency Channel Maintenance

The emergency project at the Jamacha 1 channel was located from near the intersection of Jamacha Road and 69<sup>th</sup> Street to west of the intersection of Jamacha Road and 68<sup>th</sup> Street. Jamacha 1 is not located within the Multi-Habitat Planning Area (MHPA) or the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment, debris, and vegetation) to restore the conveyance capacity of the Jamacha 1 channel. The Jamacha 1 channel has an earthen-bottom throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment and debris from the channel using a skid steer to remove material from the facility. All material was hauled to an approved disposal location using dump trucks.

The emergency project removed approximately 86 cubic yards (129 tons) of accumulated sediment and debris from approximately 423 linear feet of the earthen Jamacha 1 facility.

The emergency work at Jamacha 1 was initiated on and completed on February 9, 2024. Qualified monitoring biologists were on-site conducting spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Jamacha 1 facility segment were previously permitted as part of emergency maintenance that occurred in 2015/16; one-time mitigation was provided through the 2015/16 Emergency Mitigation Plan and the Stadium Wetland Mitigation Project (San Diego River). The limits of the emergency maintenance work were confined to the previously permitted and mitigated areas within Jamacha 1.



**Table 24: Jamacha 1 & 2 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.24 Parkside 1 (5-11-003) - Emergency Channel Maintenance

The emergency project at the Parkside 1 channel was located parallel to Parkside Avenue from the intersection of Garber Avenue and Parkside Avenue to northeast of the intersection of Dusk Drive and Parkside Avenue. Parkside 1 is not located within the Multi-Habitat Planning Area (MHPA) or the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment, debris, and vegetation) to restore the conveyance capacity of the Parkside 1 channel. The Parkside 1 channel has a concrete-lined bottom throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment, debris, and vegetation from the channel using an excavator and skid steer to remove material from the facility. All material was hauled to an approved disposal location using dump trucks.

The emergency project removed approximately 145.73 cubic yards (218.60 tons) of accumulated sediment and debris from approximately 1,187 linear feet of the concrete-lined Parkside 1 facility.

The emergency work at Parkside 1 was initiated on April 15, 2024 and completed on April 16, 2024. Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Parkside 1 facility segment were previously permitted as part of emergency maintenance that occurred in 2015/16; one-time mitigation was provided through the 2015/16 Emergency Mitigation Plan. The limits of the emergency maintenance work were confined to the previously permitted and mitigated areas within Parkside 1.

**Table 25: Parkside 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.25 Grove 1 (5-22-023) - Emergency Channel Maintenance

The emergency project at the Grove 1 channel was located on the north side of Grove Avenue, between the 27th Street and 25th Street, in southern San Diego. Grove 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

The Grove 1 emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the channel. The Grove 1 channel is earthen-bottomed throughout most of the emergency maintenance area. City of San Diego and contractor crews removed sediment and debris from the channel using an excavator and dump trucks staged above the banks of the channel (i.e., “pure excavation” methods resulting in no regulated discharge of fill or dredge material as defined under the federal Clean Water Act). All material was hauled to an approved disposal location.

The emergency project removed approximately 463 cubic yards (694 tons) of accumulated sediment and debris from approximately 1,454 linear feet of the earthen bottom segment of Grove 1.

The emergency work at Grove 1 started on March 6, 2024, and lasted until March 9, 2024. Qualified monitoring biologists were on-site conducting full-time monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum impacts necessary to alleviate emergency conditions.

Emergency work occurred within segments of the Grove 1 channel that have not been previously included in emergency and routine maintenance projects (i.e., vegetation impacts have not been previously permitted or mitigated under the City SDP, USACE, RWQCB, or CDFW permits). A detailed breakdown of impacts to individual vegetation communities is included in Table 26 below. As noted above, the emergency maintenance work within Grove 1 was carried out through pure excavation methods (i.e., no discharge of dredge or fill material as defined by the Clean Water Act). Based on the impacts that occurred, 0.40 acre of mitigation credit was requested at the Stadium Wetland Mitigation Project (San Diego River). Mitigation at this location is subject to credit availability, pending a determination by the PUD.

A detailed breakdown of impacts to individual vegetation communities is included in Table 26 below.

**Table 26: Grove 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Disturbed Wetland (11200)	USACE/RWQCB/CDFW/City	0.43
Riparian Forest (Southern Willow Forest) (61320)	USACE/RWQCB/CDFW/City	0.20
<b>Total</b>		<b>0.63</b>

## 2.26 Cedar 1 & 2 (5-22-008 & 5-22-010) - Emergency Channel Maintenance

The emergency projects at the Cedar 1 & 2 channels were located just north of the intersection of Palm Avenue and 18th street, occurring between a mix of residential and commercial areas in southern San Diego.. Cedar 1 & 2 are not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary but are located within the Coastal Overlay Zone (COZ).

The emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the Cedar 1 & 2 channels. The Cedar 1 channel is earthen-bottomed throughout most of the emergency maintenance area; the Cedar 2 channel is concrete-lined. City of San Diego and contractor crews removed sediment and debris from the channel using an excavator and dump trucks staged above the banks of downstream portion of Cedar 1 and various equipment operating within the facility in the downstream portion of Cedar 1 and throughout Cedar 2 to push material to areas where it could be removed. Access was taken from a disturbed lot immediately north of the upstream end of Cedar 1. All material was hauled to an approved disposal location.

The emergency project removed approximately 338 cubic yards (506 tons) of accumulated sediment and debris from approximately 580 linear feet of the earthen bottom segment of Cedar 1. Approximately 37 cubic yards (56 tons) of accumulated sediment and debris from approximately 550 linear feet were removed from the earthen bottom segment of Cedar 2.

The emergency work at Cedar 1 & 2 was initiated on March 4, 2024, and completed on March 11, 2024. Qualified monitoring biologists were on-site conducting full-time monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum impacts necessary to alleviate emergency conditions.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Cedar 1 facility segment was partially previously permitted by the 2015/16 emergencies at the Hollister Quarry Mitigation site. The remainder of the segment (approximately 515 linear feet) has not been previously permitted or mitigated. Mitigation for additional impacts that occurred at Cedar 1 during FY24 emergency maintenance will be provided at the Hollister Quarry Wetland Mitigation site.

A detailed breakdown of impacts to individual vegetation communities is included in Table 27 below.

**Table 27: Cedar 1 & 2 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
<i>Cedar 1</i>		
Disturbed Wetland (11200)	USACE/RWQCB/CDFW/City	0.166
Natural Flood Channel (64200)	USACE/RWQCB/CDFW/City	0.027
<b>Subtotal</b>		<b>0.193</b>
<i>Cedar 2</i>		
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.27 Cerissa 1 (5-22-016) - Emergency Channel Maintenance

The emergency project at the Cerissa 1 channel was located on the north side of Coronado Avenue, between the South Bay Swap Meet facility and Mendoza Elementary School, in southern San Diego. Cerissa 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the Cerissa 1 channel (Figure 2). The Cerissa 1 channel is earthen-bottomed throughout most of the emergency maintenance area. City of San Diego and contractor crews removed sediment and debris from the channel using an excavator and dump trucks staged above the banks of Cerissa 1 (i.e., “pure excavation” methods resulting in no regulated discharge of fill or dredge material as defined under the federal Clean Water Act). All material was hauled to an approved disposal location.

The emergency project removed approximately 460 cubic yards (690 tons) of accumulated sediment and debris from approximately 98 linear feet of the earthen bottom segment of Cerissa 1.

The emergency work at Cerissa 1 was initiated and completed on January 31, 2024. Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area.

No portion of the impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Cerissa 1 facility segment was previously permitted. Based on the impacts that occurred, 0.26 acre of

mitigation credit was requested at the Stadium Wetland Mitigation Project (San Diego River). Mitigation at this location is subject to credit availability, pending a determination by the PUD.

A detailed breakdown of impacts to individual vegetation communities is included in Table 28 below.

**Table 28: Cerissa 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Riparian Forest (Southern Willow Forest) (61320)	USACE/RWQCB/CDFW/City	0.07
	CDFW/City	0.06
<b>Total</b>		<b>0.13</b>

## 2.28 Tocayo 2 (6-02-118) - Emergency Channel Maintenance

The emergency project at the Tocayo 2 channel was located west of Interstate 5 from just southwest of the intersection of Oro Vista Road and Tocayo Avenue to just southeast of Hollister Street and Tocayo Avenue. Tocayo 2 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary; however, is within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., vegetation, sediment, debris, etc.) to restore the conveyance capacity of the Tocayo 2 channel. The Tocayo 2 channel is concrete-bottomed with concrete-lined banks throughout the emergency maintenance area. City of San Diego and contractor crews removed sediment, vegetation, and debris from the channel using an excavator, bulldozer, skid steer, bobcat, front-end loader, and dump trucks staged both in the channels and above the banks of Tocayo 2. All material was hauled to an approved disposal location.

The emergency project removed approximately 29 cubic yards (43.5 tons) of accumulated sediment, vegetation, and debris from approximately 2,479 linear feet of the concrete-bottomed segment of Tocayo 2.

The emergency work at Tocayo 2 was initiated and completed on March 19, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area.

No portion of the impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Cerissa 1 facility segment was previously permitted. Based on the impacts that occurred, 0.11 acre of mitigation credit is allocated at the Hollister Quarry Wetland Mitigation site.

A detailed breakdown of impacts to individual vegetation communities is included in Table 29 below.

**Table 29: Tocayo 2 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
Developed concrete-lined Channel (62400)	USACE/RWQCB/CDFW/CCC/City	0.41
	CDFW/CCC/City	0.85
Disturbed Wetland (concrete-lined) (11200)	USACE/RWQCB/CDFW/CCC/City	0.02
Riparian Forest (Southern Willow Forest; Concrete -lined) (61320)	USACE/RWQCB/CDFW/CCC/City	0.01
	CDFW/CCC/City	0.01
Ornamental Planting (Concrete-lined Channel) (11000)	IV	0.04
	IV	0.05
<b>Total</b>		<b>0.94</b>

## 2.29 Smythe 1 (6-03-147) - Emergency Channel Maintenance

The emergency project at the Smythe 1 channel was located south of Interstate 905, just north of Shooting Star Drive, and located between Smythe Avenue and Del Sur Boulevard. Smythe 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

This emergency project removed material (i.e., sediment and debris) to restore the conveyance capacity of the Smythe 1 channel. The Smythe 1 channel is earthen bottomed throughout the emergency maintenance area, with various concrete-lined flow structures located across the facility. City of San Diego and contractor crews removed sediment and debris from the channel using excavators and dump trucks staged above the banks of Smythe 1 (i.e., “pure excavation” methods resulting in no regulated discharge of fill or dredge material as defined under the federal Clean Water Act). All material was hauled to an approved disposal location.

The emergency project removed approximately 603 cubic yards (904 tons) of accumulated sediment and debris from approximately 1,356 linear feet of the earthen bottom segment of Smythe 1.

The emergency work at Smythe 1 was completed on April 12, 2024 and represented the minimum impacts necessary to alleviate the threat to life and property due to the unexpected flood risk.

Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area.

Impacts to sensitive wetland vegetation communities and jurisdictional aquatic resources in the Smythe 1 facility segment were previously permitted as part of the routine maintenance activities that occurred in

2016 and one-time mitigation was provided at the Smythe-Bandola Mitigation site and the Marron Valley Cornerstone Conservation Lands Bank.

**Table 30: Smythe 1 Emergency Maintenance Impacts**

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
No impacts occurred due to repeat maintenance	N/A	N/A
<b>Total</b>		<b>N/A</b>

## 2.30 Smuggler’s Gulch 1 (6-01-100) - Emergency Channel Maintenance

Emergency removal of accumulated sediment, vegetation, and debris was initiated by the County of San Diego (County) for Smuggler’s Gulch 1 (6-01-100) in order to provide public safety and protection of property. Smuggler’s Gulch 1 is an earthen channel in the Tijuana River watershed and is located approximately 1,500 feet north of Monument Road which conveys flows downstream within the Smuggler’s Gulch channel that leads towards the Pilot Channel. The facility is located entirely within the City’s Multi-Habitat Planning Area (MHPA) and the Coastal Overlay Zone (COZ) in the Tijuana River Valley Community Plan. The County applied for the emergency Site Development Permit on June 7, 2024.

The County provided monitoring biologists on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum necessary to alleviate emergency conditions. The monitoring biologist present at the start of maintenance was able to confirm and update, as necessary, the previously mapped vegetation communities and land cover types within the emergency impact area. The biologist also monitored for any nesting bird species as this was in the nesting season.

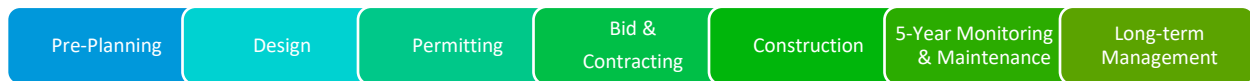
As part of the on-going emergency maintenance, the City of San Diego will repair the berm breach that occurred on the western side of the channel which allowed water, debris and sediment to flow westerly across the neighboring property. Work for the breach repair will be conducted during Fiscal Year 25.



## 3.0 Mitigation Projects

In accordance with the MWMP regulatory permits, one-time mitigation is required for significant biological impacts resulting from implementation of the MWMP. Table 32 lists the status of mitigation sites that mitigate for impacts from FY 2024 MWMP channel maintenance activities. To help define a site's status, SWD has divided the mitigation process into seven phases (Diagram 1). These phases may overlap one another, or a project can be in two or three phases at a given time, but in general are used to help describe a mitigation project's status.

**Diagram 1: Mitigation Process**



Sections 3.1 – 3.4 provide additional detail regarding the mitigation sites related to FY 2024 channel maintenance activities. Figure 2 of Appendix A provides the geographic locations of these mitigation sites.

In addition to the mitigation sites already assigned to MWMP facilities, SWD is actively developing additional mitigation sites, including some identified as Capital Improvement Program (CIP) projects and are therefore being developed by the Engineering & Capital Projects Department. These future potential mitigation sites may serve as permittee-responsible mitigation for specific prioritized MWMP facilities or advanced permittee responsible mitigation with credit acreage that may be assigned to MWMP facilities as they are prioritized.

**Table 31: Mitigation Sites Associated with MWMP Facilities- FY 2024 Status**

Mitigation Site	Reviewing Agencies <sup>1</sup>	Status	MWMP Facilities Mitigated/Allocated in FY24	MWMP Watershed/Watershed Management Area	Mitigation Site <sup>2</sup>
<b>FY 2024 MWMP Maintenance Related Mitigation Sites (See Sections 3.1 – 3.3)</b>					
Los Peñasquitos Canyon Preserve Phase I Enhancement	City/CCC/USACE/ RWQCB/CDFW	Long-term Management	Flintkote-1, Industrial-1, Industrial-2, MBHS-1, PB-Olney-1, Roselle-2, Tripp-1	Los Peñasquitos / Peñasquitos	PRM <sup>3</sup>
Tijuana River Emergency Channel Mitigation	City/USACE/ RWQCB/CDFW	Long-term Management	Smugglers Gulch-1	Tijuana River/Tijuana River	PRM
Tijuana River Valley In-Channel Enhancement Area and the Out-of-Channel Enhancement Area	City/CCC/USACE/ RWQCB/CDFW	Long-term Management	Smugglers Gulch-1	Tijuana River/Tijuana River	PRM
San Luis Rey Mitigation Bank	USACE/RWQCB/ CDFW/CITY	Long-Term Management	Pomerado-1, Pomerado-2	San Luis Rey	Mitigation Bank
Marron Valley Cornerstone Lands Conservation Bank	CITY	Long-Term Management	Baja-1, MBHS-1, PB-Olney-1, Smythe-1	Tijuana/Tijuana	Mitigation Bank
2015/16 Emergency Mitigation Plan	City/RWQCB	5-Year Monitoring & Maintenance  Construction	Cottonwood-1, Cottonwood-2, Jamacha-1, National-1, National-2, Parkside-1, Rolando-1, Rolando-2, Washington-1	Pueblo and Sweetwater/ San Diego Bay	PRM

<sup>1</sup> City= City of San Diego; CCC = California Coastal Commission; USACE = US Army Corps of Engineers; RWQCB = Regional Water Quality Control Board; CDFW = California Department of Fish and Wildlife

<sup>2</sup> PRM = Permittee Responsible Mitigation; APRM = Advanced Permittee Responsible Mitigation; Mitigation Bank = Agency Approved Mitigation Bank

<sup>3</sup> An additional 0.66 acre of credit was approved by the USACE and the RWQCB

<sup>4</sup> Mitigation at this location is subject to credit availability, pending determination by PUD

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Mitigation Site	Reviewing Agencies <sup>1</sup>	Status	MWMP Facilities Mitigated/Allocated in FY24	MWMP Watershed/Watershed Management Area	Mitigation Site <sup>2</sup>
Stadium Wetland Mitigation Project (San Diego River)	City/USACE/RWQCB/CDFW	5-Year Monitoring & Maintenance	Baja-1, Cottonwood-1, Cottonwood-2, Cowles Mountain-2, Jamacha-1, Mission Gorge-2, National-1, National-2, Parkside-1, Rolando-1, Rolando-2, Titus-1, Washington-1, Alpha-1, Oceanview-1, Titus-1, Grove-1 <sup>4</sup> , Cerissa-1 <sup>4</sup> , Wightman-2 <sup>4</sup>	San Diego River/San Diego River	APRM
Smythe-Bandola Wetland Mitigation	City/USACE/RWQCB/CDFW	Construction	Smythe-1	Tijuana River/Tijuana River	PRM
El Cuervo del Sur Phase II Wetland Mitigation	City/CCC/USACE/RWQCB/CDFW	Bid & Contracting	Dunhill-1, Industrial-1	Los Peñasquitos / Peñasquitos	APRM
Hollister Quarry Wetland Mitigation	City/CCC/USACE/RWQCB/CDFW	Bid & Contracting	Cedar-1, Cedar-2, Tocayo-2	Otay/San Diego Bay	APRM

<sup>1</sup>City= City of San Diego; CCC = California Coastal Commission; USACE = US Army Corps of Engineers; RWQCB = Regional Water Quality Control Board; CDFW = California Department of Fish and Wildlife

<sup>2</sup>PRM = Permittee Responsible Mitigation; APRM = Advanced Permittee Responsible Mitigation; Mitigation Bank = Agency Approved Mitigation Bank

<sup>3</sup> An additional 0.66 acre of credit was approved by the USACE and the RWQCB

<sup>4</sup> Mitigation at this location is subject to credit availability, pending determination by PUD

## **3.1 Long-Term Management Mitigation Sites**

### **3.1.1 Los Peñasquitos Canyon Preserve Phase I Enhancement**

The Los Peñasquitos Canyon Enhancement Project was designed to provide wetland enhancement mitigation for maintenance impacts to channels in the Los Peñasquitos Hydrologic Unit. The site is located within the upper reach of Lopez Canyon Creek to the east of Interstate 805. The mitigation work consisted of removing 8.5 acres of non-native species found within and adjacent to jurisdictional waters in Lopez Canyon, as well as supporting the well-being of native species of plants and animals in order to provide 6.64 acres of mitigation credit for channel maintenance impacts, as described in the *Final Los Peñasquitos Wetland Enhancement Plan* (URS Corporation, February, 2014a).

The project provides wetlands enhancement mitigation for the following FY24 channel maintenance locations:

- Industrial-1
- Industrial-2
- Tripp-1
- Roselle-2
- Flintkote-1
- PB-Olney-1
- MBHS-1

### **3.1.2 Tijuana River Emergency Channel Mitigation**

The Tijuana River Emergency Channel Maintenance Mitigation project occurred in the early 1990's and resulted in construction of the Pilot Channel. Mitigation for the Tijuana River Emergency Channel Maintenance occurred in the mid-1990's and consisted of the creation of a 13.21-acre site, 9.43 acres of which was wetlands creation to compensate for the construction of the Pilot Channel. The mitigation project was completed in 2001 with sign-off from all applicable environmental regulatory agencies.

As part of the long-term monitoring, on June 5, 2024, Balk Biological assessed the site and verified the mitigation area was still meeting USFWS performance standards. Established vegetation remained consistent with what was observed during the 2013 through 2024 site evaluations, which consists of a mosaic of native riparian and wetland vegetation communities throughout the project area. While the site exhibits natural changes as dictated by field conditions, the location and composition of vegetation communities is substantially consistent with the project design, and the site remains suitable for supporting the continued utilization by least Bell's vireo.

The project provides compensatory wetland mitigation for the following FY24 channel maintenance locations:

- Smuggler's Gulch-1

### **3.1.3 Tijuana River Valley In-Channel Enhancement Area and the Out-of-Channel Enhancement Area**

In addition to the creation of wetlands described above, wetland enhancement was completed as additional mitigation for the continued maintenance in the Pilot Channel and Smuggler's Gulch. The wetland enhancement occurred in two locations per the regulatory permits, 4.31-acres Out-of-Channel and 4.31-acres In-Channel, and included removal of three target species - giant reed (*Arundo donax*), castor bean (*Ricinus communis*) and salt cedar (*Tamarix ramosissima*). The Out-of-Channel mitigation area is adjacent to the channel maintenance areas. The mitigation site is within the Tijuana River Valley Regional Park on City and County of San Diego property.

The five-year maintenance and monitoring period for the project was completed in December 2018. At that time, the City obtained sign-off that the project had achieved its 5-year performance standards from the regulatory agencies (USACE, USFWS, RWQCB, CCC and City of San Diego Development Services Department) by May 2019. With the five-year maintenance and monitoring period for the project complete, the project is in its long-term maintenance and management phase.

Balk Biological performed site reviews to confirm continued compliance with performance standards outlined in the project permits on June 5, 2024. Established vegetation remains consistent with what was observed during the 2013 through 2024 site evaluations, which consists of a mosaic of native riparian, wetland, and transitional vegetation communities throughout the project area, meeting the success criteria to completely eliminate the three target invasive plants.

The project provides compensatory wetland mitigation for the following FY24 channel maintenance locations:

- Smuggler's Gulch-1

### **3.1.4 San Luis Rey Mitigation Bank**

The San Luis Rey Wetland Mitigation Bank (SLR) is adjacent to the San Luis Rey River located in the City of Oceanside, within the County of San Diego. The SLR Bank occurs within the San Luis Rey-Escondido 8-digit HUC. The SLR Bank is a 54-acre mitigation project and is currently managed by Wildlands, Inc. The mitigation bank was approved by regulatory agencies in 2014 and construction was finished in 2015. This project is in long-term management.

The San Luis Rey Mitigation Bank has previously provided compensatory wetland mitigation for the following FY24 Emergency maintenance facilities:

- Pomerado-1
- Pomerado-2

### **3.1.5 Marron Valley Cornerstone Lands Conservation Bank**

The Marron Valley Cornerstone (MVC) Mitigation bank is managed by the City of San Diego's Public Utilities Department and is located near the confluence of Tecate Creek and Cottonwood Creek. MVC is composed of 10,400 acres of City of San Diego owned land that was reserved for a four-phased mitigation

project. MVC was implemented along with the City's Multiple Species Conservation Program in 1997, with the goal of providing valuable adjoining habitat for native and endangered species protection. The mitigation bank has three tiers of upland mitigation credit available: Tier II (coastal sage scrub & coastal sage scrub/chaparral, Tier IIIA (mixed chaparral & chamise chaparral), and Tier IIIB (non-native grasslands).

The Marron Valley Cornerstone Mitigation Bank has previously provided upland credit for the following FY24 Emergency maintenance facilities:

- Baja-1
- Mission Bay High School (MBHS-1)
- Pacific Beach/Olney Drive (PB-Olney-1)
- Smythe-1

### 3.2 Construction and/or 5-Year Maintenance & Monitoring Mitigation Sites

#### 3.2.1 Wetland Mitigation Plan for 2015/16 Emergency Channel Maintenance (2015/16 Emergency Channel Maintenance Plan)

This mitigation plan was developed primarily to address mitigation required by the RWQCB and City for multiple emergency maintenance projects in FY 2016. The mitigation is expected to serve as one-time mitigation for future routine maintenance under the MWMP at these facilities. The *Wetland Mitigation Plan for 2015/16 Emergency Channel Maintenance* (Dudek, May 2019) includes re-establishment, rehabilitation, and enhancement activities and consists of four (4) separate mitigation areas: Chollas Creek, South Chollas Creek, Washington, and Paradise Canyon. Enhancement (invasive plant removal and treatment) was initiated at Washington and a portion of the South Chollas Creek site in FY 2021. In addition to the enhancement and re-establishment mitigation implemented in 2021 and currently in year 2 of the 5-Year Maintenance & Monitoring period, rehabilitation is actively being installed at South Chollas and Paradise Canyon Open Space in accordance with the Mitigation Plan. Work is expected to continue in FY 2025 and annual monitoring reports will be prepared and submitted to the RWQCB in accordance with the final Wetland Mitigation Plan.

The project provides wetland mitigation for the following FY24 Emergency channel maintenance locations:

- |                 |                |
|-----------------|----------------|
| • Washington -1 | • Rolando-2    |
| • National-1    | • Jamacha-1    |
| • National-2    | • Cottonwood-1 |
| • Rolando - 1   | • Cottonwood-2 |
| • Parkside-1    |                |

#### 3.2.2 Stadium Wetland Mitigation Project (San Diego River)

The City's Stadium Wetland Mitigation Project (San Diego River) is an Advanced Permittee Responsible Mitigation (APRM) site located within the floodplain of the San Diego River between I-15 and I-805. The Project has been implemented and is managed by the City's Public Utilities Department (PUD) to generate

compensatory mitigation credit by providing rehabilitation and enhancement of approximately 57 acres within the San Diego River. Installation of the project ended on October 20, 2017, and the plant establishment period (PEP) was considered complete on February 23, 2018, thereby initiating the 5-year maintenance and monitoring period. The Stadium Wetland Mitigation Project (San Diego River) Year Five Monitoring & Maintenance period (February 23, 2022 – February 23, 2023) concluded during FY24 and the PUD sent the Year 5 Annual Report to the regulatory agencies in May 2023. The Stadium Wetland Mitigation Project (San Diego River) has received final sign-off, releasing 100% of the site's available credits.

From FY 2015 – FY 2022, the SWD has purchased approximately 14.7 acres of mitigation credits at this site through multiple purchases of credit which have been allocated for the following past MMP and MWMP routine and emergency projects:

- Murphy Canyon - *Routine Maintenance*
- Alvarado Creek - *Routine Maintenance*
- San Carlos Creek - *Emergency Maintenance*
- Reservoir Drive - *Emergency Maintenance*
- Auburn Creek - *Routine Maintenance*
- South Chollas Creek - *Routine Maintenance*
- Montezuma - *Routine Maintenance*
- 2015-2016 El Nino Season Emergency Projects (partially satisfied mitigation obligations):
  - Chollas Creek at Rolando - *Emergency Maintenance*
  - Chollas Creek at National - *Emergency Maintenance*
  - Cottonwood Creek - *Emergency Maintenance*
  - Jamacha Channel - *Emergency Maintenance*
  - Washington Channel - *Emergency Maintenance*
- Mission Gorge 3 & 4 - *Routine Maintenance*
- Camino Del Rio 1 - *Emergency Maintenance*
- Camino Del Arroyo 1 - *Emergency Maintenance*

In FY 2023, the SWD purchased an additional 1.385 acres of compensatory mitigation credits at the Stadium Wetland Mitigation Project (San Diego River) for following routine and emergency projects:

- Alpha 1 & Oceanview 1 – *Emergency Maintenance*
- Alpha 1 – *Routine Maintenance*
- Titus 1 – *Routine Maintenance*

In FY 2024, the SWD purchased 3.66 acres of compensatory mitigation credits at the Stadium Wetland Mitigation Project (San Diego River) for channel facilities where emergency maintenance was needed due to the unprecedented rain events in January 2024. For Alpha 1 and Oceanview 1, the maintenance work that occurred during the 2024 emergencies exceeded the areas where work was previously authorized. For these facilities, additional compensatory mitigation is being provided for the removal of riparian vegetation in areas that were not previously authorized.

- Alpha 1 – *Emergency Maintenance*
- Oceanview 1 – *Emergency Maintenance*

In FY24, the SWD has requested to purchase 0.74 acres of compensatory mitigation credits at the Stadium Wetland Mitigation Project (San Diego River) for the following channel facilities where emergency



maintenance was needed due to unprecedented rain events in January 2024. The approval for this mitigation purchase request is subject to credit availability, pending a determination by the PUD.

- Grove 1 – *Emergency Maintenance*
- Cerissa 1 – *Emergency Maintenance*
- Wightman 1 – *Emergency Maintenance*

Subsequent maintenance of any of these previously mitigated facilities would likely not require additional mitigation beyond what was previously required and provided since the MWMP allows for one-time mitigation for facilities that have been previously permitted and mitigated.

### **3.2.3 Smythe-Bandola Wetland Mitigation**

The The Smythe Channel and Via De La Bandola Channel Mitigation Project is a Permittee Responsible Mitigation project for impacts resulting from the Smythe and Via de la Bandola channel emergency maintenance that occurred in 2015 and 2016. The Smythe Bandola Mitigation site is located along the Tijuana River, within the City of San Diego, immediately south of the Tijuana River Pilot Channel. In FY24 this project is in the construction phase. This mitigation project is a 5.6-acre mitigation site that involves removing invasive, non-native vegetation and planting native container plants and seed mixes.

The project provides compensatory wetland mitigation for the following FY24 channel maintenance locations:

- Smythe Channel

## **3.3 Bid & Contracting Mitigation Sites**

### **3.3.1 El Cuervo del Sur Phase II Wetland Mitigation**

The El Cuervo del Sur Phase II Mitigation (El Cuervo Phase II) site is located within the Los Peñasquitos Canyon Preserve within the watershed for Los Peñasquitos Creek. The El Cuervo Phase II project is intended to establish 1.65 acres of wetland habitat (creation/establishment) within the COZ and the City's MHPA. In FY25, this project is in the bid & contracting phase and is anticipated to be implemented in Fall 2025. The proposed wetland establishment will consist of grading existing upland habitat to elevations capable of supporting wetland vegetation and hydrology; installing temporary above-grade irrigation, container plantings, and seed; and removing non-native vegetation to establish and support the native wetland vegetation. These efforts will improve the functions and services of the Phase II mitigation site.

The project provides compensatory wetland mitigation for the following FY24 channel maintenance locations:

- Industrial-1
- Dunhill-1

### 3.3.2 Hollister Quarry Wetland Mitigation

The Hollister Quarry Wetland Mitigation project was designed to provide mitigation for the past 2016 emergency at Nestor Creek (Cedar-1, Cedar-2, Tocayo-2, Valeta-1) as well as future maintenance and repair impacts that may occur in the Otay watershed/San Diego Bay Watershed Management Area and other identified Service Areas. The site is located within OVRP immediately east of Interstate 5 and east of Hollister Street. In FY24 this project is in the bid & contracting phase and is anticipated to be implemented in Fall 2025. This mitigation project is a 2.36-acre mitigation site that will involve the lowering of adjacent upland habitat to meet existing wetlands, removing invasive non-native vegetation, and planting native container plants and seed mixes, including trees.

The project provides wetland compensatory mitigation for the following FY24 channel maintenance locations:

- Cedar-1
- Cedar-2
- Tocayo-2

## 4.0 Conclusions and Future Projects

Over the FY 2024 maintenance period, routine maintenance was completed at three (3) channel facilities and emergency maintenance at thirty-two (32). These projects allowed for removal of accumulated trash, sediment, and debris which restored conveyance capacity and reduced flood risk while also maintaining the long-term reliability of the City's stormwater infrastructure. SWD is committed to provide required compensatory mitigation for wetland and upland impacts associated with its ongoing maintenance activities that affect sensitive biological resources. Section 3 identifies ten (10) approved sites that SWD used to mitigate for its FY 2024 impacts. Additional sites are being implemented to provide creation (establishment), restoration (re-establishment or rehabilitation), enhancement, and acquisition mitigation acreages/credits for future SWD activities. It is important to note that the one-time mitigation approach approved as part of the MWMP, its certified EIR, and by the agencies will allow for subsequent maintenance to occur within a facility that has been previously permitted and mitigated without requiring additional mitigation if activities remain within the approved project impact footprint. Lastly, all maintenance activities identified in this report were conducted in compliance with the MWMP and all associated regulatory permits, and it is the intent of any future activities to achieve similar compliance.

Table 33 lists the facilities that SWD expects to maintain in FY 2025 (July 1, 2024 – June 30, 2025).

**Table 32: Annual Work Plan (July 1, 2024 - June 30, 2025)**

WMA/Watershed	Facility Group Name	Facility No.	Segment Name and Number	Coastal Zone
<i>FY 24 Emergency/Routine Maintenance</i>				
San Dieguito River/ San Dieguito	Green Valley Creek- Pomerado	1-04-030	Pomerado 1	No
San Dieguito River/ San Dieguito	Green Valley Creek- Pomerado	1-04-033	Pomerado 2	No
Penasquitos	Los Penasquitos Lagoon-Industrial	2-01-120	Industrial 1	Yes
		2-01-122	Industrial 2	Yes
Mission Bay	Mission Bay - MBHS	3-02-101	PB-Olney 1	Yes
Mission Bay	Mission Bay - MBHS	3-02-103	MBHS	Yes
Los Penasquitos	Soledad Canyon Creek - Sorrento	2-03-000	Roselle 1	Yes
Penasquitos	Soledad Canyon Creek- Dunhill	2-03-150	Dunhill 1	Yes
Mission Bay/ Penasquitos	Rose Creek- Garnet	3-02-003	Garnet 2	No
Mission Bay/ Penasquitos	Rose Creek- Garnet	3-02-005	Damon 1	No
San Diego River	Alvarado Canyon Creek / Mission Gorge	4-07-004	Mission Gorge 2	No
		4-07-009	Mission Gorge 3	
		4-07-011	Mission Gorge 4	
San Diego River		4-07-901	Cowles Mountain 1	No

# Municipal Waterways Maintenance Plan Annual Report November 2024

WMA/Watershed	Facility Group Name	Facility No.	Segment Name and Number	Coastal Zone
<i>FY 24 Emergency/Routine Maintenance</i>				
	Murray Reservoir-Cowles Mountain	4-07-911	Cowles Mountain 2	No
San Diego River	Norfolk Canyon Creek- Fairmount	4-08-105	Baja 1	No
San Diego Bay	Washington Canyon Creek-Washington	5-2-151	Washington 1	No
		5-2-153	Washington 2	
San Diego Bay/Pueblo San Diego	Mission Hill Canyon Creek – Titus	5-02-162	Titus 1	No
San Diego Bay/Pueblo San Diego	Chollas Creek – National	5-04-004	National 1	No
		5-04-006	National 2	
San Diego Bay/Pueblo San Diego	Chollas Creek – Rolando	5-04-048	Rolando 2	No
San Diego Bay/Pueblo San Diego	Auburn Creek-Home	5-04-224	Home 1	No
San Diego Bay/Pueblo San Diego	Auburn Creek-Auburn	5-04-236	Auburn 2	No
San Diego Bay/Pueblo San Diego	Auburn Creek-Wightman	5-04-241	Wightman 2	No
San Diego Bay/Pueblo San Diego	South Chollas Creek – Southcrest	5-05-006	Alpha 1	No
San Diego Bay/Pueblo San Diego	South Chollas Creek – Southcrest	5-05-008	Ocean View 1	No
San Diego Bay/Pueblo San Diego	South Chollas Creek-Marketplace	5-05-016	Charles Lewis 1	No
San Diego Bay/Pueblo San Diego	South Chollas Creek- Acacia Grove	5-05-103	Acacia Grove 2	No
San Diego Bay/Pueblo San Diego	South Chollas Creek Encanto Branch- Castana	5-05-205	Castana 1	No
San Diego Bay/Pueblo San Diego	South Chollas Creek Encanto Branch- Jamacha	5-05-603	Jamacha 1	No
		5-05-606	Jamacha 2	No
San Diego Bay/Pueblo San Diego	Paleta Creek-Solola	5-05-020	Solola 1	No
		5-05-023	Solola 2	No
Sweetwater	Sweetwater River - Parkside	5-11-003	Parkside 1	No
San Diego Bay	Nestor Creek-Nestor	5-22-023	Grove 1	No
San Diego Bay	Nestor Creek-Nestor	5-22-008	Cedar 1	Yes
		5-22-010	Cedar 2	Yes
San Diego Bay	Nestor Creek-Nestor	5-22-016	Cerissa 1	No

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WMA/Watershed	Facility Group Name	Facility No.	Segment Name and Number	Coastal Zone
<i>FY 24 Emergency/Routine Maintenance</i>				
Tijuana River	Tijuana River-Tocayo	6-02-115	Tocayo 1	Yes
		6-02-118	Tocayo 2	
Tijuana River	Tijuana River-Smythe	6-03-147	Smythe 1	No
San Diego River/ San Diego River	Alvarado Canyon Creek - Alvarado	4-07-021	Alvarado 1	No

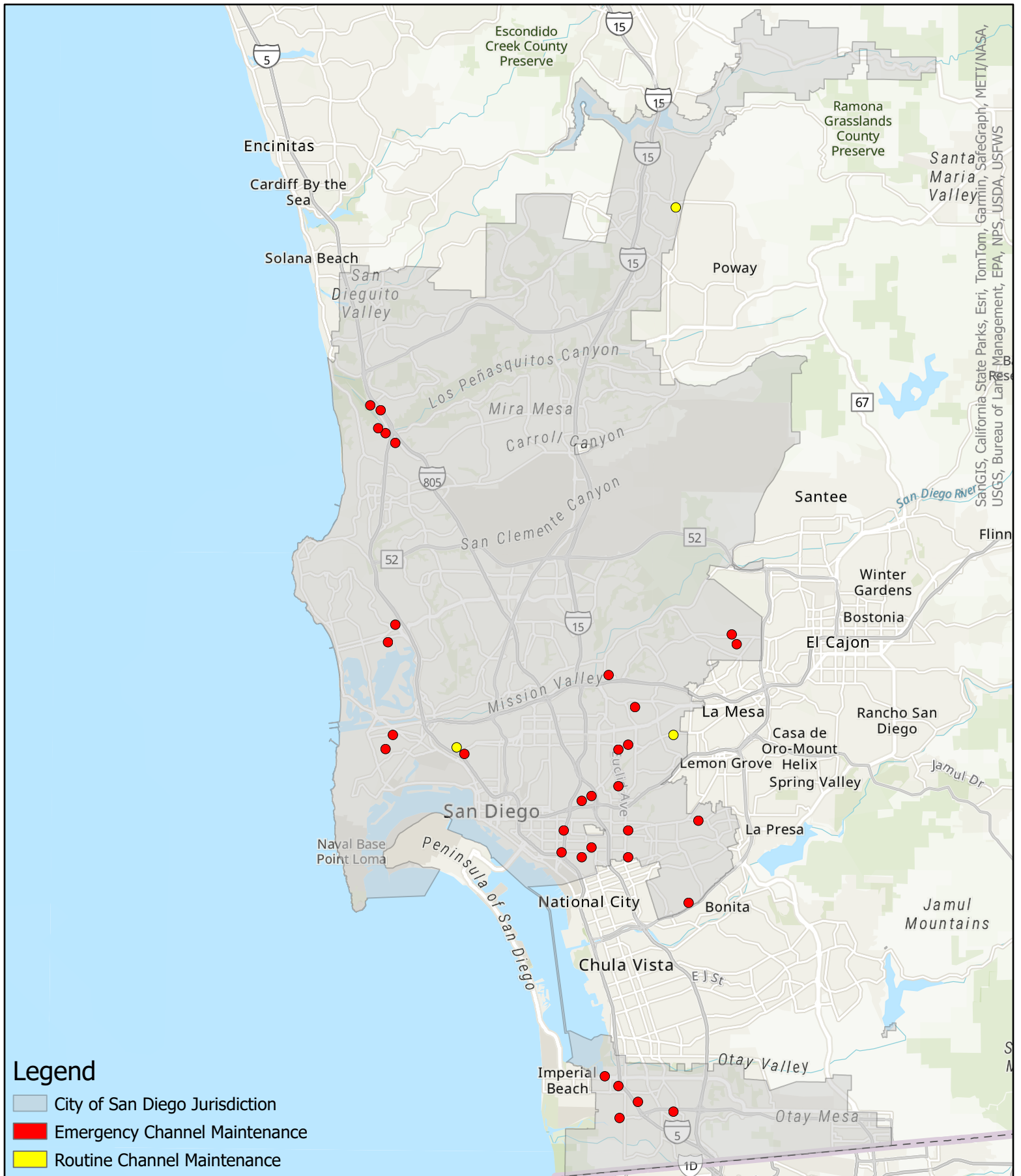
## 5.0 References

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- Dudek. 2019. Final Wetland Mitigation Plan for 2015/16 Emergency Channel Maintenance. May 2019.
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- URS. 2014b. Final El Cuervo del Sur Wetland Habitat Mitigation and Monitoring Plan. February 28, 2014, updated February 25, 2015, with assistance from Helix Environmental Planning, Inc.

# **Appendix A**

## **Municipal Waterways Maintenance Plan Annual Report Figures**









 Maintenance Area



**Pomerado 1 (1-04-030)**  
**FY 24 Routine Channel Maintenance**  
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 Maintenance Area



**Titus 1 (5-02-162)**  
FY 24 Routine Channel Maintenance  
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 Maintenance Area



**Rolando 2 (5-04-048)**  
FY 24 Routine Channel Maintenance  
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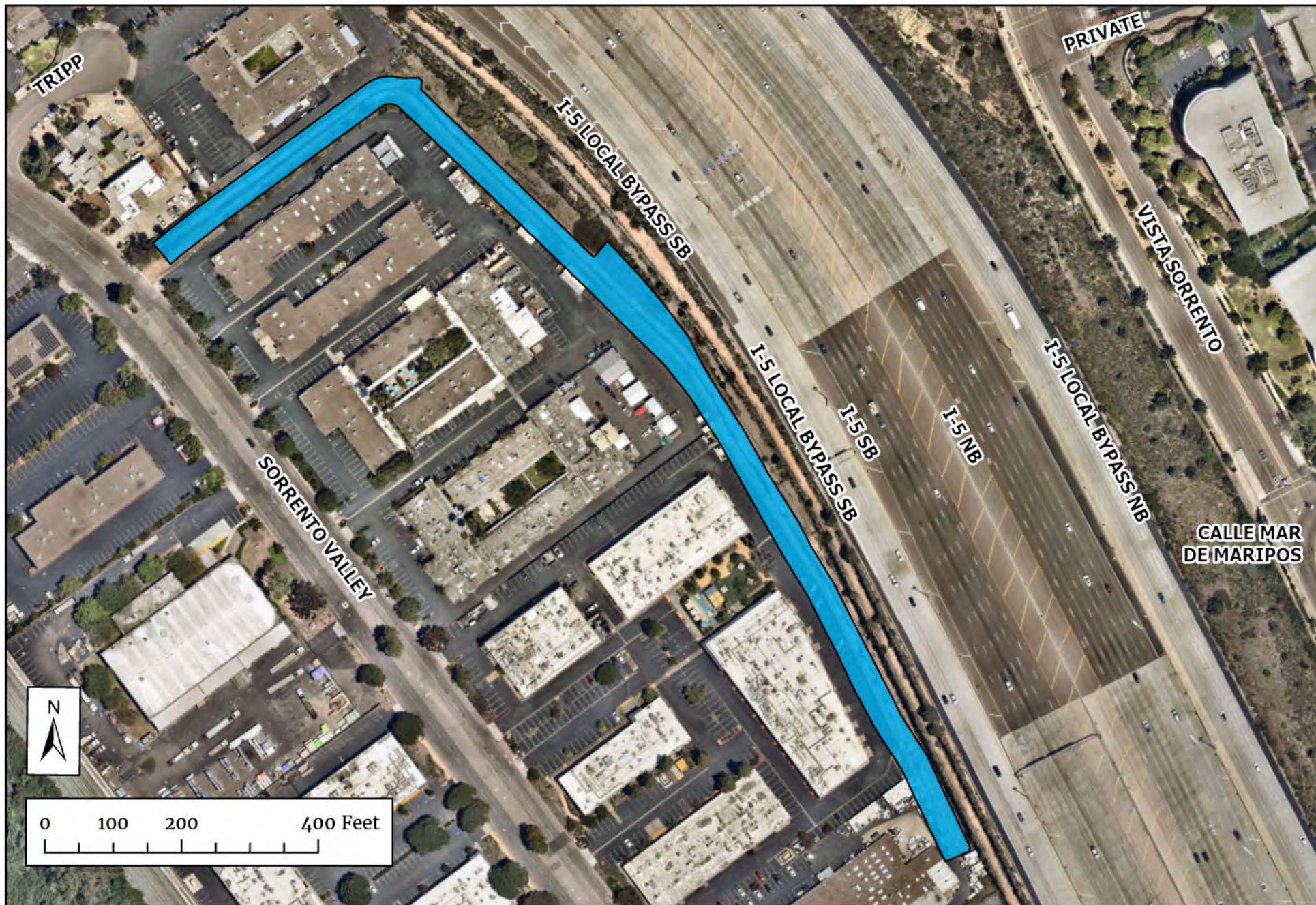


 Maintenance Area  Industrial 1  
 Industrial 2



**Industrial 1 (2-01-120) & 2 (2-01-122)**  
**FY 24 Emergency Channel Maintenance**  
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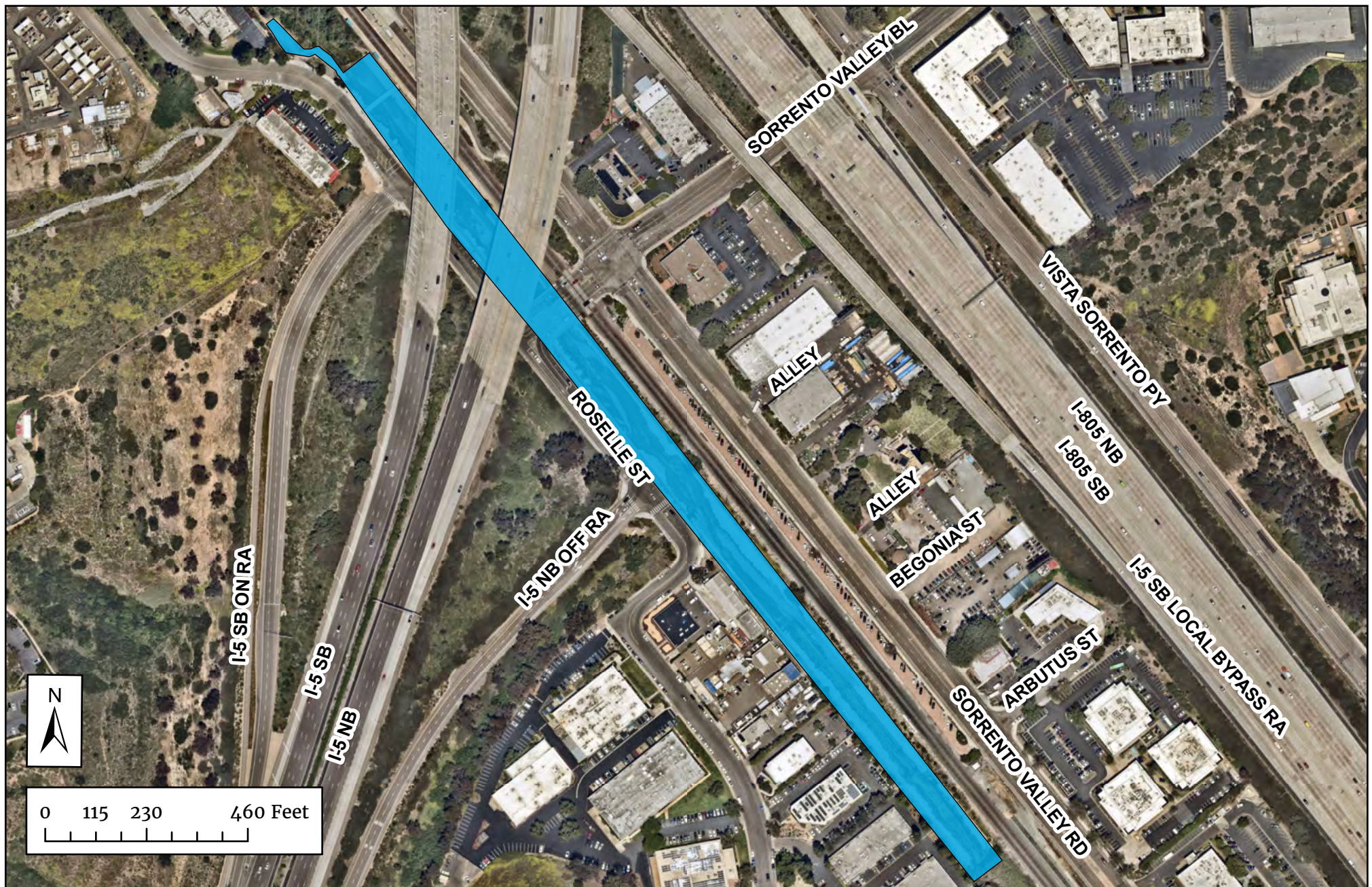


 Maintenance Area



**Tripp 1 (2-01-130)**  
FY 24 Emergency Channel Maintenance  
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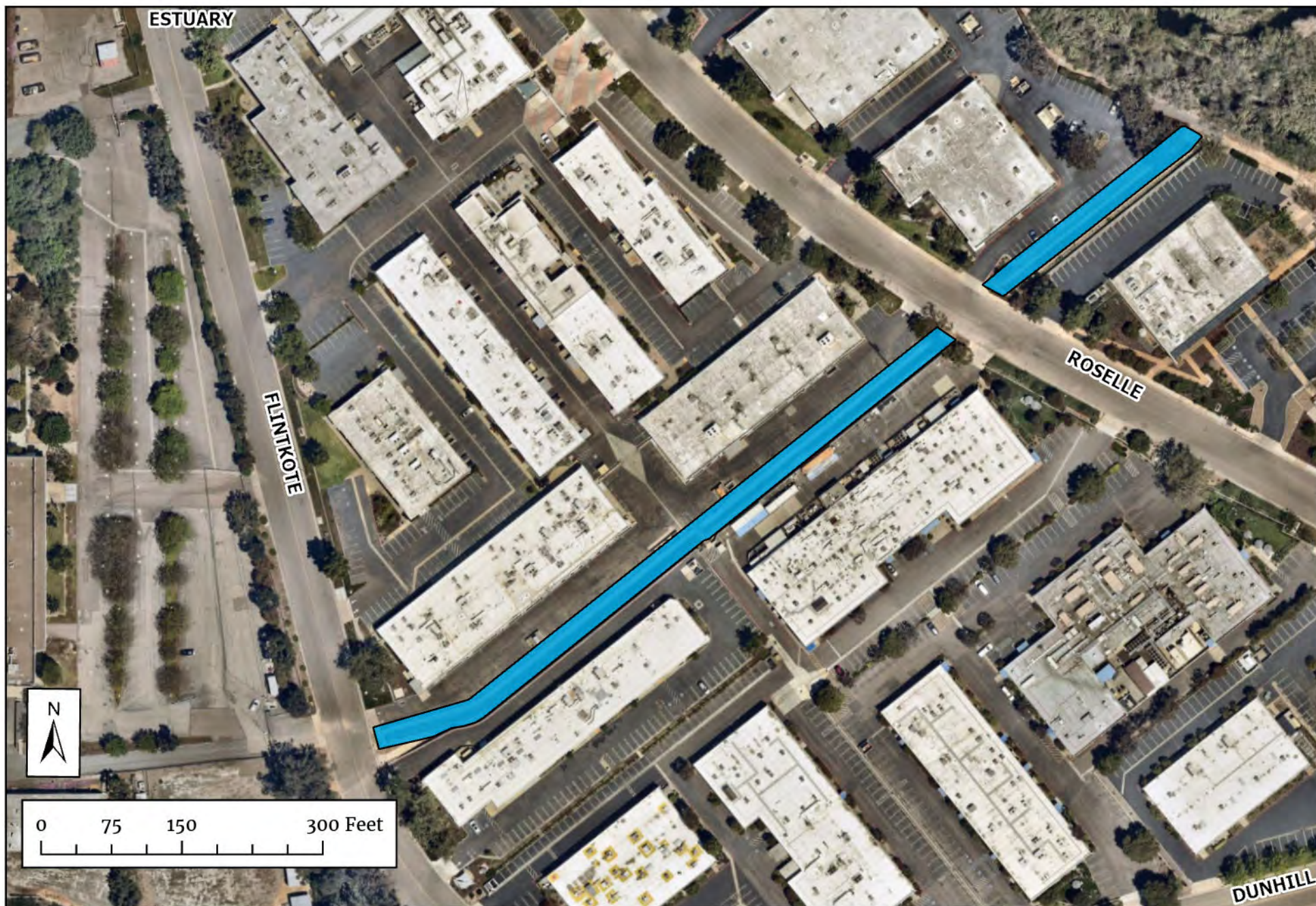


 Maintenance Area



**Roselle 1 (2-03-000)**  
FY 24 Emergency Channel Maintenance  
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 Maintenance Area



**Flintkote 1 (2-03-100)**  
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 Maintenance Area



**Dunhill 1 (2-03-150)**  
**FY 24 Emergency Channel Maintenance**  
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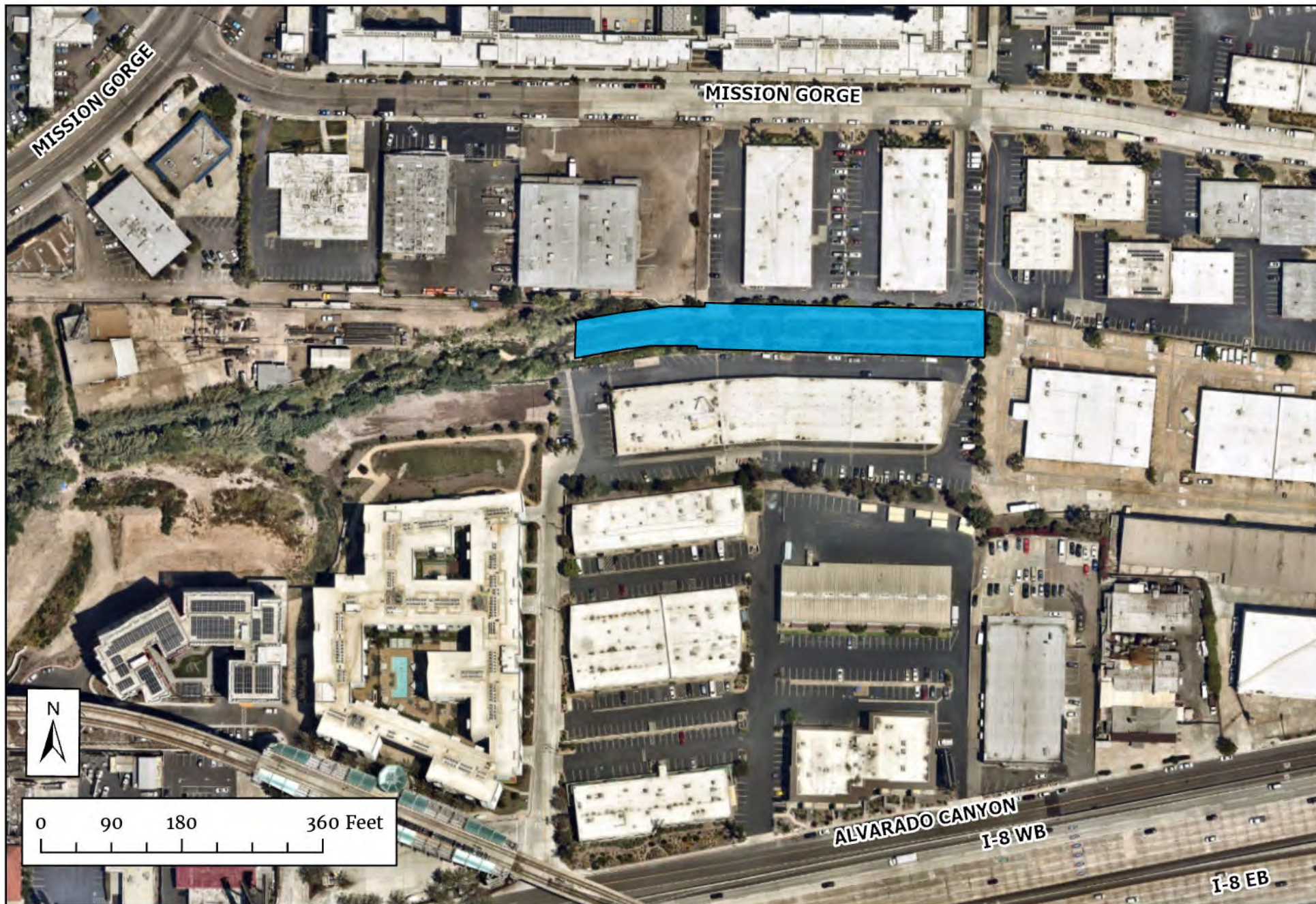


Maintenance Area
  MBHS 1
  PB Olney 1



**PB Olney 1 (3-02-101) & MBHS 1 (3-02-103)**  
 FY 24 Emergency Channel Maintenance  
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 Maintenance Area



**Mission Gorge 2 (4-07-004)**  
FY 24 Emergency Channel Maintenance  
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 Maintenance Area



**Cowles Mountain 1 (4-07-901)**  
**FY 24 Emergency Channel Maintenance**  
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 Maintenance Area



**Cowles Mountain 2 (4-07-911)**  
**FY 24 Emergency Channel Maintenance**  
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 Maintenance Area



**Baja 1 (4-08-105)**  
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 Maintenance Area



**Washington 1 (5-02-151)**  
**FY 24 Emergency Channel Maintenance**  
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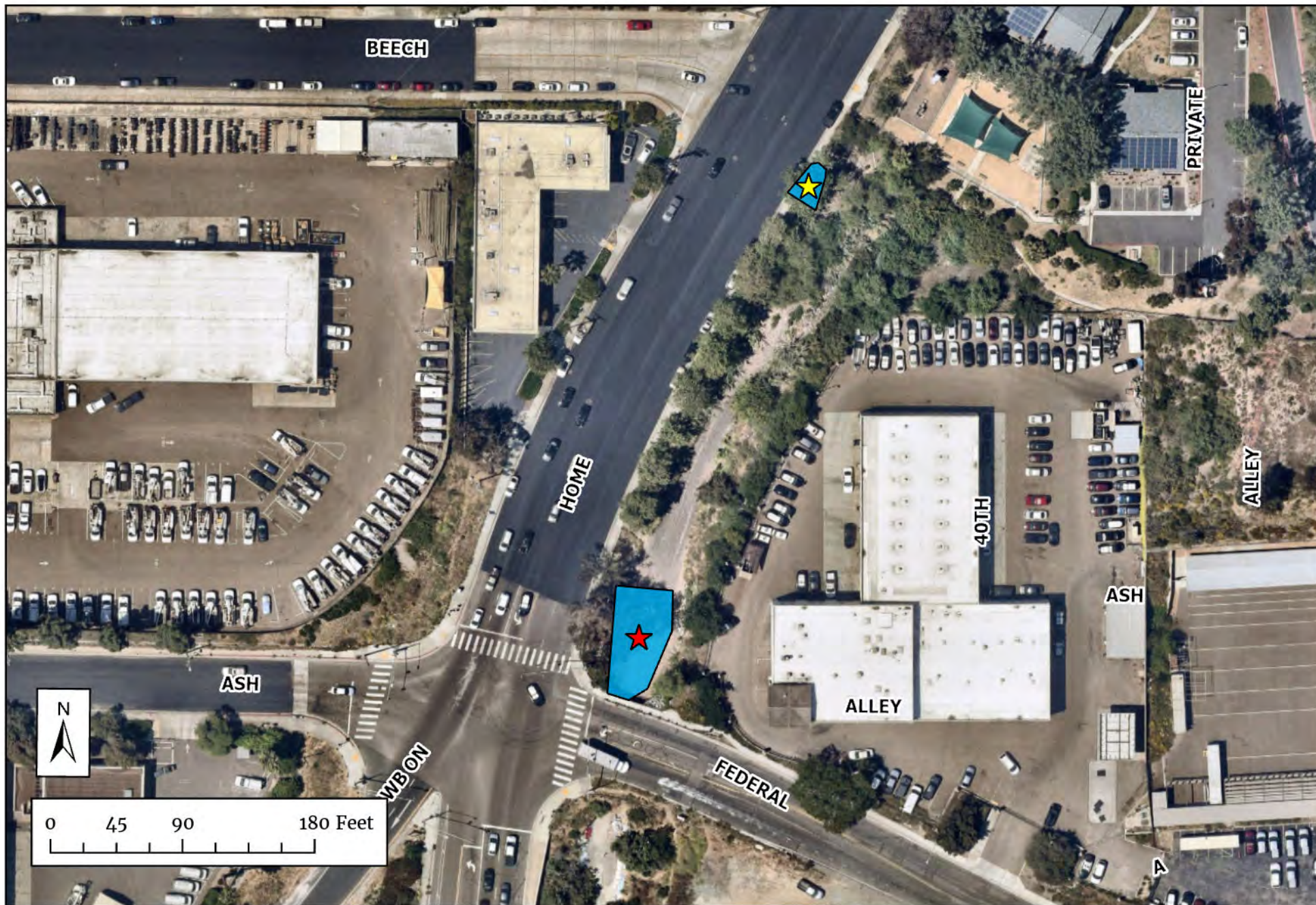


 Maintenance Area



**National 1 (5-04-004)**  
**FY 24 Emergency Channel Maintenance**  
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- Maintenance Area
- ★ Home 1
- ★ Home 2



**Home 1 & 2 (5-04-220 & 5-04-224)**  
**FY 24 Emergency Channel Maintenance**  
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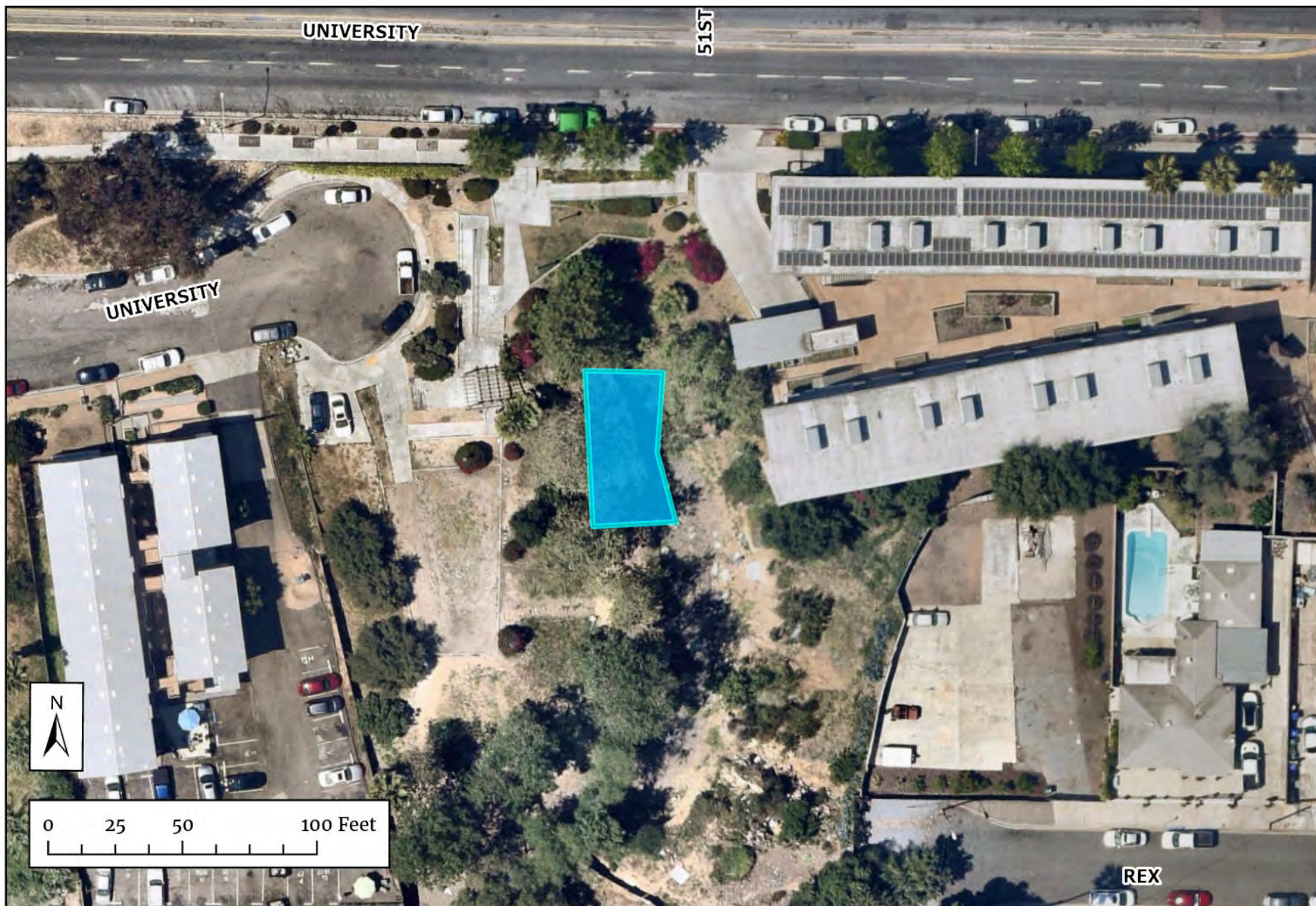


 Maintenance Area



**Ontario 1 (5-04-237)**  
**FY 24 Emergency Channel Maintenance**  
Municipal Waterways Maintenance Plan Annual Report  
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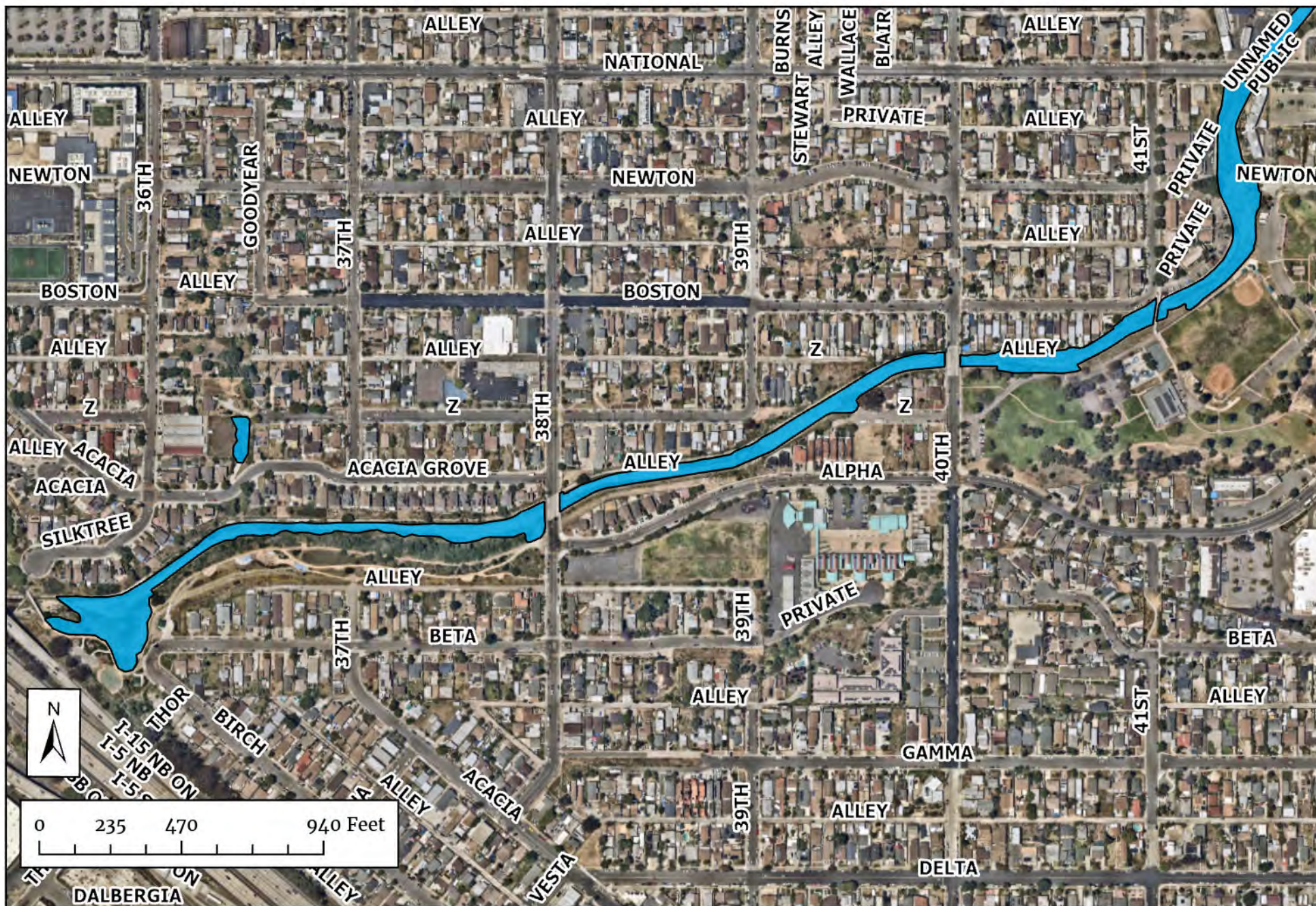


 Maintenance Area



**Wightman 2 (5-04-241)**  
FY 24 Emergency Channel Maintenance  
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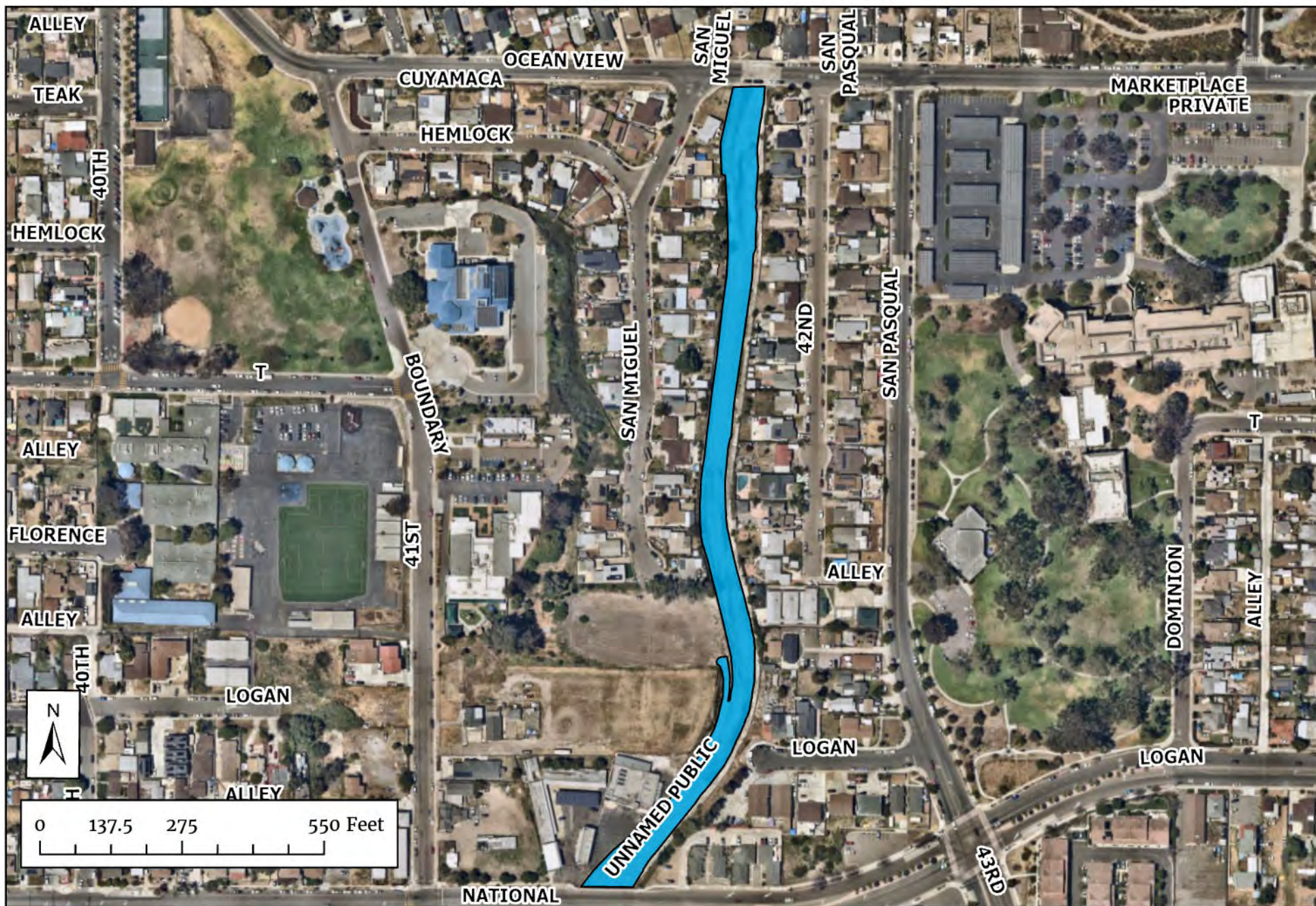


 Maintenance Area



**Alpha 1 (5-05-006)**  
 FY 24 Emergency Channel Maintenance  
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 Maintenance Area



**Ocean View 1 (5-05-008)**  
 FY 24 Emergency Channel Maintenance  
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 Maintenance Area



**Acacia Grove 2 (5-05-103)**  
**FY 24 Emergency Channel Maintenance**  
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 Maintenance Area



**Castana 1 (5-05-205)**  
**FY 24 Emergency Channel Maintenance**  
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 Maintenance Area



**Jamacha 1 (5-05-603)**  
**FY 24 Emergency Channel Maintenance**  
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 Maintenance Area



**Parkside 1 (5-11-003)**  
**FY 24 Emergency Channel Maintenance**  
Municipal Waterways Maintenance Plan Annual Report  
October 2024





 Maintenance Area



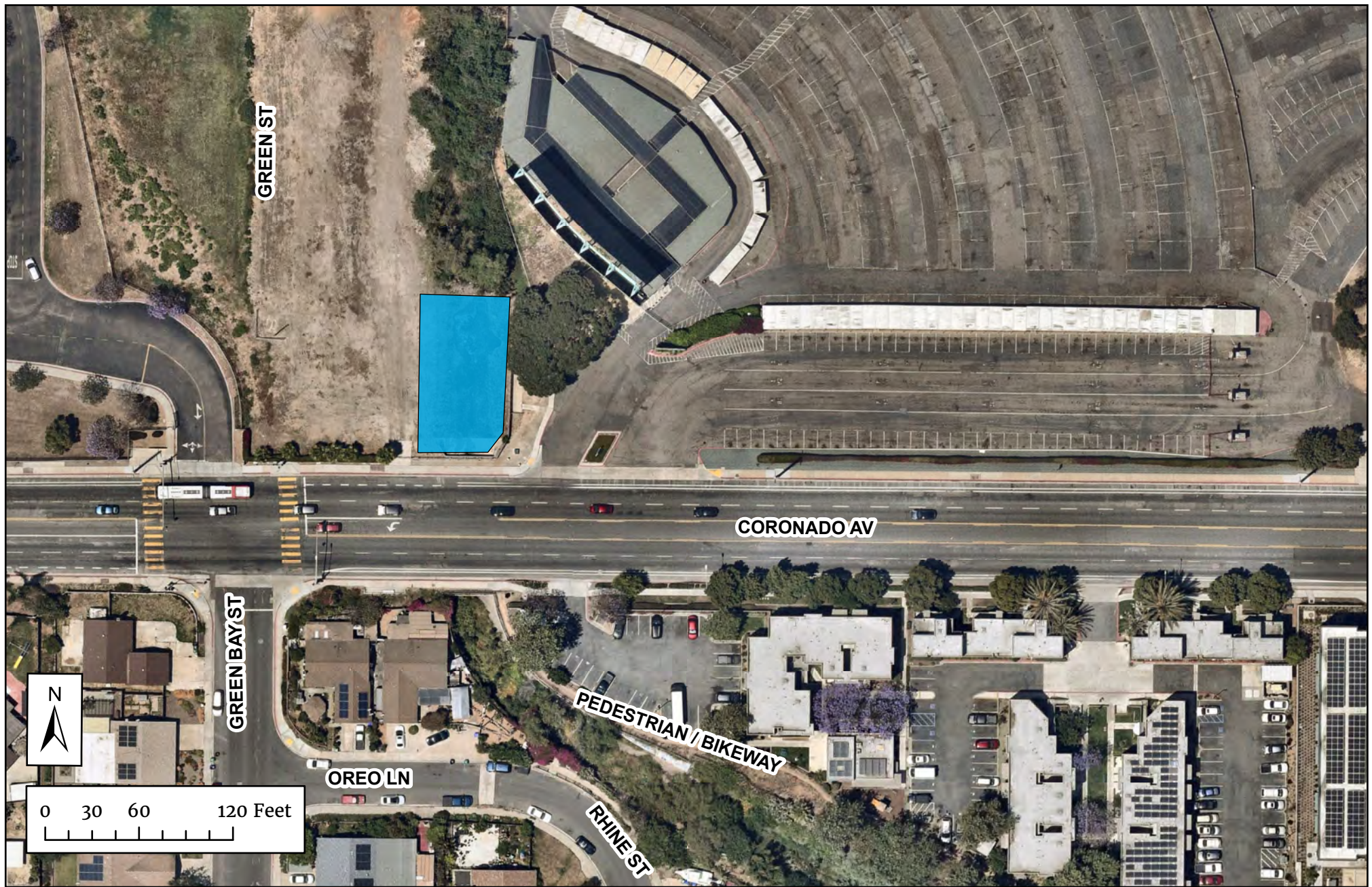
**Grove 1 (5-22-023)**  
 FY 24 Emergency Channel Maintenance  
 Municipal Waterways Maintenance Plan Annual Report  
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**Cedar 1 (5-22-008) & 2 (5-22-010)**  
**FY 24 Emergency Channel Maintenance**  
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 Maintenance Area



**Cerissa 1 (5-22-016)**  
FY 24 Emergency Channel Maintenance  
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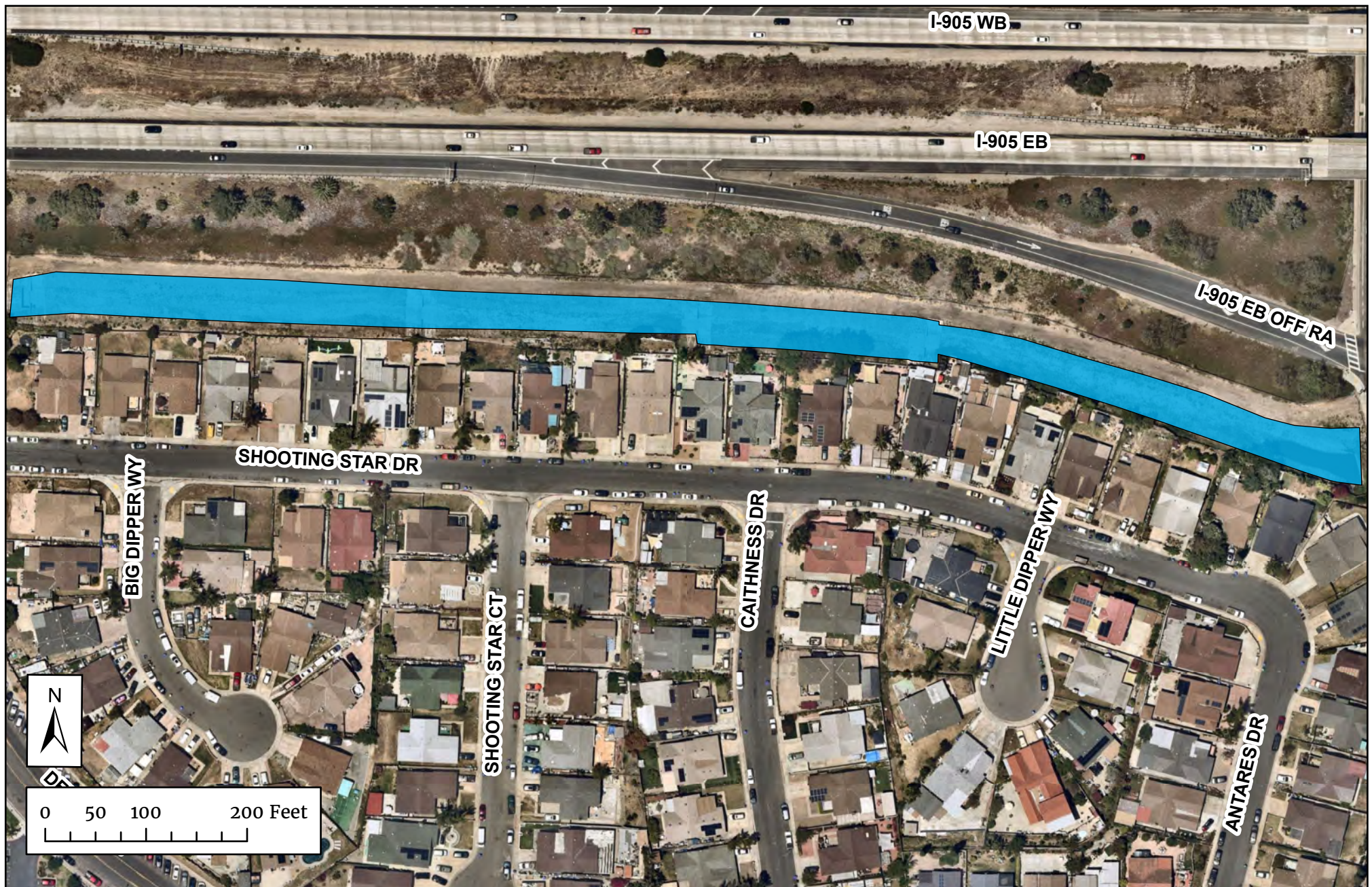


 Maintenance Area



**Tocayo 2 (6-02-118)**  
 FY 24 Emergency Channel Maintenance  
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 Maintenance Area



**Smythe 1 (6-03-147)**  
FY 24 Emergency Channel Maintenance  
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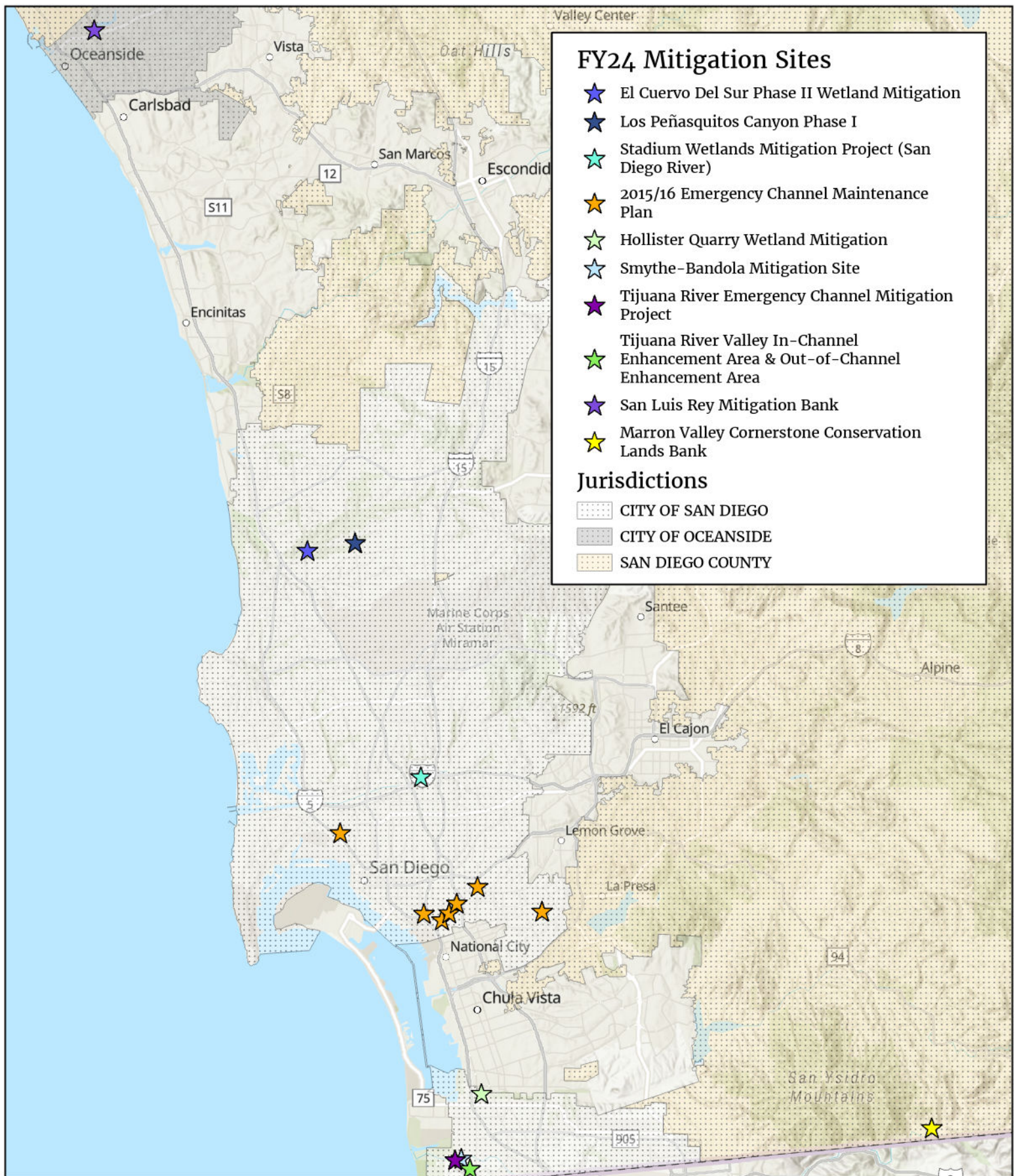


Figure 2. Mitigation Sites for FY24 Stormwater Department Channel Maintenance

## **Appendix B**

### **Master Stormwater Facility and Mitigation List**



## Master Stormwater Facility and Mitigation List

Facility Number	Facility Type	Facility Group Name	Segment Name- Number	Date of Most Recent Maintenance <sup>1</sup>	Mitigation Required (USACE/ RWQCB/ CDFW/ CCC/ City) <sup>2</sup>	Mitigation Site(s)
<b>San Diego River Watershed</b>						
1-04-030	Channel/Ditch	Green Valley Creek - Pomerado	Pomerado-1	Pre 2011	None to date	
1-04-033	Channel/Ditch	Green Valley Creek - Pomerado	Pomerado-2	Pre 2011	None to date	San Luis Rey
1-04-200	Basin	Green Valley Creek - Paseo del Verano	Paseo del Verano-1	Pre 2011	None to date	
<b>Los Penasquitos Watershed</b>						
2-01-120	Channel/Ditch	Penasquitos Lagoon - Industrial	Industrial-1	2010	CCC	El Cuervo del Sur - Phase II El Cuervo del Sur - Phase I LPC Enhancement - Phase I El Cuervo del Sur - Phase II (add'l mit.)
2-01-122	Channel/Ditch	Penasquitos Lagoon - Industrial	Industrial-2	2021	<u>USACE/RWQCB/CDFW/CCC/City</u>	El Cuervo del Sur - Phase I LPC Enhancement - Phase I
2-01-130	Channel/Ditch	Penasquitos Lagoon - Tripp	Tripp-1	2010	CCC/City	LPC Enhancement - Phase I
2-01-200	Channel/Ditch	Los Penasquitos Canyon Creek - Black Mountain	Black Mountain-1	Pre 2011	None to date	
2-01-210	Channel/Ditch	Los Penasquitos Canyon Creek - Black Mountain	Black Mountain-2	Pre 2011	None to date	
2-01-900	Basin	Los Penasquitos Canyon Creek - 5-805 Basin	5-805 Fwy-1	<b>2008</b>	Self-mitigating	
2-03-000	Channel/Ditch	Soledad Canyon Creek - Sorrento	Roselle-1	2021	<u>USACE/RWQCB/CDFW/CCC/City</u>	El Cuervo del Sur - Phase I Famosa
2-03-002	Channel/Ditch	Soledad Canyon Creek - Sorrento	Roselle-2	2021	<u>USACE/RWQCB/CDFW/CCC/City</u>	El Cuervo del Sur - Phase I LPC Enhancement - Phase I
2-03-012	Channel/Ditch	Carroll Canyon Creek - Carroll	Carroll Canyon-1	2016	City	El Cuervo del Sur - Phase I El Cuervo del Sur - Phase I LPC Enhancement - Phase I
2-03-100	Channel/Ditch	Soledad Canyon Creek - Flintkote	Flintkote-1	2022	<u>USACE/RWQCB/CDFW/CCC/City</u>	LPC Enhancement - Phase I
2-03-150	Channel/Ditch	Soledad Canyon Creek - Dunhill	Dunhill-1	Pre 2011	CCC	El Cuervo del Sur - Phase II
2-05-140	Channel/Ditch	Chicarita Creek - Via San Marco	Via San Marco-1	Pre 2011	None to date	
HW04220	Structure	10405 Sorrento Valley Road		Pre 2011	None to date	
<b>Mission Bay Watershed</b>						
3-00-120	Channel/Ditch	Torrey Pines - Torrey	Torrey Pines-1	Pre 2011	None to date	
3-00-150	Basin	Alta La Jolla - Vickie	Vickie-1	<b>2016</b>	Self-mitigating	
3-02-101	Channel/Ditch	Mission Bay - Mission Bay High School	PB-Olney-1	2021	<u>USACE/RWQCB/CDFW/CCC/City</u>	Cuervo del Sur - Phase I LPC Enhancement - Phase I Marron Valley Cornerstone (Upland, City-only)
3-02-103	Channel/Ditch	Mission Bay - Mission Bay High School	MBHS-1	2021	<u>USACE/RWQCB/CDFW/CCC/City</u>	Cuervo del Sur - Phase I LPC Enhancement - Phase I Marron Valley Cornerstone (Upland, City-only)
3-02-130	Channel/Ditch	Mission Bay - Mission Bay Drive	Mission Bay Drive-1	2021	<u>USACE/RWQCB/CDFW/CCC/City</u>	El Cuervo del Sur - Phase II LPC Enhancement - Phase II
3-03-901	Channel/Ditch	Miramar - Engineer	Engineer-1	2017	None	
3-04-055	Channel/Ditch	Tecolote Creek - Chateau	Chateau-1	2021	<b>None</b>	
3-04-160	Channel/Ditch	Tecolote Creek - Genessee	Genessee-1	Pre 2011	None to date	
3-04-250	Channel/Ditch	Tecolote Creek - Chateau	Chateau-2	2016	None to date	
<b>San Diego River Watershed</b>						
4-01-103	Channel/Ditch	San Diego River - Nimitz	Nimitz-1	Pre 2011	None to date	
4-01-105	Channel/Ditch	San Diego River - Nimitz	Nimitz-2	Pre 2011	None to date	
4-01-107	Channel/Ditch	San Diego River - Nimitz	Nimitz-3	Pre 2011	None to date	
4-01-120	Channel/Ditch	San Diego River - Valeta	Valeta-1	Pre 2011	CCC	Hollister Quarry
4-03-101	Channel/Ditch	San Diego River - Camino del Rio	Camino del Arroyo-1	2022	<u>USACE/RWQCB/CDFW/City</u>	Stadium Mitigation Site
4-03-103	Channel/Ditch	San Diego River - Camino del Rio	Camino del Rio-1	2022	<u>USACE/RWQCB/CDFW/City</u>	Stadium Mitigation Site
4-04-006	Channel/Ditch	Murphy Canyon Creek - Murphy Canyon	Murphy Canyon-1	Pre 2011	None to date	
4-07-002	Channel/Ditch	Alvarado Canyon Creek - Mission Gorge	Mission Gorge-1	2017	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
4-07-004	Channel/Ditch	Alvarado Canyon Creek - Mission Gorge	Mission Gorge-2	2017	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
4-07-009	Channel/Ditch	Alvarado Canyon Creek - Mission Gorge	Mission Gorge-3	2021	<u>USACE/RWQCB/CDFW/City</u>	Stadium Mitigation Site
4-07-011	Channel/Ditch	Alvarado Canyon Creek - Mission Gorge	Mission Gorge-4	2021	<u>USACE/RWQCB/CDFW/City</u>	Stadium Mitigation Site
4-07-021	Channel/Ditch	Alvarado Canyon Creek - Alvarado	Alvarado-1	2022	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
4-07-023	Channel/Ditch	Alvarado Canyon Creek - Alvarado	Alvarado-2	Pre 2011	None to date	
4-07-250	Channel/Ditch	Alvarado Canyon Creek - Alvarado	Alvarado-3	Pre 2011	None to date	
4-07-901	Channel/Ditch	Murray Reservoir - Cowles Mountain	Cowles Mountain-1	2018	None to date	
4-07-911	Channel/Ditch	Murray Reservoir - Cowles Mountain	Cowles Mountain-2	2018	City	Stadium Mitigation Site
4-08-008	Channel/Ditch	Norfolk Canyon Creek - Fairmount	Fairmount-1	Pre 2011	None to date	
4-08-011	Channel/Ditch	Norfolk Canyon Creek - Fairmount	Fairmount-2	Pre 2011	None to date	
4-08-014	Channel/Ditch	Norfolk Canyon Creek - Fairmount	Fairmount-3	Pre 2011	None to date	
4-08-017	Channel/Ditch	Norfolk Canyon Creek - Fairmount	Fairmount-4	Pre 2011	None to date	
4-08-105	Channel/Ditch	Norfolk Canyon Creek - Fairmount	Baja-1	2019	RWQCB/City	Stadium Mitigation Site Marron Valley Cornerstone (City only)
HW02437	Structure	2087 Hotel Circle South		2016	None to date	
HW02440	Structure	901 Hotel Circle South		2017	None to date	
IN10399	Structure	1277 Cam. Del Rio South		2017	None to date	
OT03321	Structure	1660 Hotel Circle North		2017	None to date	
OT03537	Structure	1331 Washington		Pre 2011	None to date	
OT05573	Structure	5505 Friars Road		2016	City	Sefton Field
<b>Pueblo San Diego Watershed</b>						
5-02-140	Basin	Maple Canyon Creek - Maple	Maple-1	Pre 2011	None to date	
5-02-151	Channel/Ditch	Washington Canyon Creek - Washington	Washington-1	2021	<u>USACE/RWQCB/CDFW/City</u>	2015/16 Emergency Mitigation Plan
5-02-153	Channel/Ditch	Washington Canyon Creek - Washington	Washington-2	2021	<u>USACE/RWQCB/CDFW/City</u>	2015/16 Emergency Mitigation Plan
5-02-162	Channel/Ditch	Mission Hill Canyon Creek - Titus	Titus-1	2016	None	
5-03-011	Channel/Ditch	Powerhouse Canyon Creek - Pershing	Pershing-1	Pre 2011	None to date	
5-03-100	Channel/Ditch	Powerhouse Canyon Creek - Pershing	Pershing-2	Pre 2011	None to date	
5-03-901	Channel/Ditch	San Diego Bay Unnamed Tributary - 28th St	28th St-1	Pre 2011	None to date	
5-04-004	Channel/Ditch	Chollas Creek - National	National-1	2022	<u>USACE/RWQCB/CDFW/City</u>	Stadium Mitigation Site 2015/16 Emergency Mitigation Plan Stadium Mitigation Site
5-04-006	Channel/Ditch	Chollas Creek - National	National-2	2022	<u>USACE/RWQCB/CDFW/City</u>	2015/16 Emergency Mitigation Plan
5-04-044	Channel/Ditch	Chollas Creek - Rolando	Cartagena-1	Pre 2011	None to date	
5-04-046	Channel/Ditch	Chollas Creek - Rolando	Rolando-1	Pre 2011	None to date	
5-04-048	Channel/Ditch	Chollas Creek - Rolando	Rolando-2	2016	RWQCB/City	2015/16 Emergency Mitigation Plan
5-04-101	Channel/Ditch	Chollas Creek Unnamed Tributary - Martin	Martin-1	Pre 2011	None to date	
5-04-163	Channel/Ditch	Chollas Creek - J St	J St-1	Pre 2011	None to date	
5-04-220	Channel/Ditch	Auburn Creek - Home	Home-1	2016	RWQCB/City	2015/16 Emergency Mitigation Plan Stadium Mitigation Site
5-04-224	Channel/Ditch	Auburn Creek - Home	Home-2	2019	RWQCB/City	Marron Valley Cornerstone (City only)
5-04-227	Channel/Ditch	Auburn Creek - Home	Home-3	Pre 2011	None to date	
5-04-231	Channel/Ditch	Auburn Creek - Home	Home-5	2020	RWQCB/City	Stadium Mitigation Site Otay Reed (City only)
5-04-239	Channel/Ditch	Auburn Creek - Wightman	Wightman-1	2016	None to date	
5-04-241	Channel/Ditch	Auburn Creek - Wightman	Wightman-2	2016	RWQCB/City	Onsite Restoration
5-04-260	Channel/Ditch	Chollas Creek Unnamed Tributary - Megan	Megan-1	Pre 2011	None to date	
5-04-262	Channel/Ditch	Chollas Creek Unnamed Tributary - Megan	Megan-2	Pre 2011	None to date	
5-04-280	Channel/Ditch	Chollas Creek - 54th St	54th St-1	Pre 2011	None to date	
5-05-006	Channel/Ditch	South Chollas Creek - Southcrest	Alpha-1	2021	None to date	Stadium Mitigation Site
5-05-008	Channel/Ditch	South Chollas Creek - Southcrest	Ocean View-1	Pre 2011	None to date	
5-05-021	Channel/Ditch	South Chollas Creek - Euclid	Euclid-2	Pre 2011	None to date	
5-05-035	Channel/Ditch	South Chollas Creek - Federal	Federal-1	2019	City	Stadium Mitigation Site HAF/Cornerstone

Facility Number	Facility Type	Facility Group Name	Segment Name- Number	Date of Most Recent Maintenance <sup>1</sup>	Mitigation Required (USACE/ RWQCB/ CDFW/ CCC/ City) <sup>2</sup>	Mitigation Site(s)
5-05-037	Channel/Ditch	South Chollas Creek - Federal	Federal-2	2019	None	
5-05-205	Channel/Ditch	South Chollas Creek Encanto Branch - Castana	Castana-1	Pre 2011	None to date	
5-05-306	Channel/Ditch	South Chollas Creek Encanto Branch - Imperial	Imperial-2	Pre 2011	None to date	
5-05-603	Channel/Ditch	South Chollas Creek Encanto Branch - Jamacha	Jamacha-1	2016	RWQCB/City	2015/16 Emergency Mitigation Plan
5-06-005	Channel/Ditch	Paleta Creek - Cottonwood	Cottonwood-1	2016	RWQCB/City	2015/16 Emergency Mitigation Plan
5-06-008	Channel/Ditch	Paleta Creek - Cottonwood	Cottonwood-2	2016	RWQCB/City	2015/16 Emergency Mitigation Plan
5-06-020	Channel/Ditch	Paleta Creek - Solola	Solola-1	Pre 2011	None to date	
5-06-023	Channel/Ditch	Paleta Creek - Solola	Solola-2	Pre 2011	None to date	
HW04013	Structure	4202 J Street		Pre 2011	None to date	
OT03694	Structure	3644 Roselawn		2016	None to date	
OT054671	Structure	1206 Goodyear		2016	None to date	
Sweetwater Watershed						
5-11-003	Channel/Ditch	Sweetwater River - Parkside	Parkside-1	2016	RWQCB/City	2015/16 Emergency Mitigation Plan
Otay Watershed						
5-22-008	Channel/Ditch	Nestor Creek - Nestor	Cedar-1	2016	CCC/City	Hollister Quarry
5-22-010	Channel/Ditch	Nestor Creek - Nestor	Cedar-2	2010	CCC/City	Hollister Quarry
5-22-013	Channel/Ditch	Nestor Creek - Nestor	Dahlia-1	Pre 2011	None to date	
5-22-016	Channel/Ditch	Nestor Creek - Nestor	Cerissa-1	Pre 2011	None to date	
5-22-023	Channel/Ditch	Nestor Creek - Nestor	Grove-1	Pre 2011	None to date	
5-22-028	Channel/Ditch	Nestor Creek - Nestor	30th St-1	Pre 2011	RWQCB/CDFW/City	Otay Reed
5-22-110	Channel/Ditch	Nestor Creek - Outer	Outer-1	Pre 2011	None to date	
5-22-112	Channel/Ditch	Nestor Creek - Outer	Outer-2	Pre 2011	None to date	
Tijuana River Watershed						
6-01-020	Channel/Ditch	Tijuana River - Pilot and Smugglers	Pilot Channel-1	2019	USACE/RWQCB/CDFW/CCC/City	TJ Emergency Mitigation Site TJ Enhancement Site
6-01-100	Channel/Ditch	Tijuana River - Pilot and Smugglers	Snuggler's Gulch-1	2022	<u>USACE/RWQCB/CDFW/CCC/City</u>	TJ Emergency Mitigation Site TJ Enhancement Site
6-02-118	Channel/Ditch	Tijuana River - Tocayo	Tocayo-2	Pre 2011	CCC	Hollister Quarry
6-03-136	Channel/Ditch	Tijuana River - Smythe	Via Encantadoras-1	Pre 2011	It was determined that the City of San Diego does not have maintenance responsibility for	
6-03-138	Channel/Ditch	Tijuana River - Smythe	Via Encantadoras-2	Pre 2011	None to date	
6-03-143	Channel/Ditch	Tijuana River - Smythe	Via Encantadoras-3	Pre 2011	None to date	
6-03-147	Channel/Ditch	Tijuana River - Smythe	Smythe-1	2016	USACE/RWQCB/City	Smythe-Bandola Mitigation Site
6-03-150	Channel/Ditch	Tijuana River - Smythe	Via de la Bandola-1	2016	USACE/RWQCB/City	Smythe-Bandola Mitigation Site
6-04-251	Basin	Spring Canyo Creek - Cactus	Cactus-1	Pre 2011	None to date	
6-04-253	Basin	Spring Canyo Creek - Cactus	Cactus-2	Pre 2011	None to date	
6-05-110	Basin	Tijuana River - Siempre Viva	Siempre Viva-1	2019	None	
6-06-011	Channel/Ditch	Tijuana River - La Media	La Media-1	Pre 2011	None to date	

#### NOTES

1 - Pre 2011 indicates that facility was likely maintained prior to 2011 but has not been maintained since that time. Dates in **BOLD** are construction dates; these facilities have yet to be maintained following construction.

2 - City = City of San Diego; CCC = California Coastal Commission; USACE = US Army Corps of Engineers; RWQCB = Regional Water Quality Control Board; CDFW = California Department of Fish and Wildlife; None = routine maintenance was completed without any mitigation requirements; None to date = routine maintenance has not been conducted. Agency names in **BOLD** indicate that MWMP permits were utilized for most recent maintenance approval. All other approvals pre-date the MWMP.



## **Appendix C**

### **Pre- and Post- Maintenance Photos**

### Pomerado 1 (1-04-030) Routine Maintenance



#### **Pomerado 1 Pre-Maintenance- Photo 1**

View of storm drain west of Bernardo Oaks Dr. prior to vegetation removal, facing west.

(November 7, 2023.)



#### **Pomerado 1 Post-Maintenance- Photo 2**

View of storm drain west of Bernardo Oaks Dr. after vegetation removal, facing west.

(January 19, 2024)

### Titus 1 (5-02-162) Routine Maintenance



#### **Titus 1 Pre-Maintenance- Photo 1**

View of the Titus 1 channel, pre-maintenance. Photo taken facing north.

(March 12, 2024)



#### **Titus 1 Post-Maintenance- Photo 2**

View of the Titus 1 channel, post-maintenance. Photo taken facing north.

(March 12, 2024)



### Rolando 2 (5-04-048) Routine Maintenance



**Rolando 2 Pre-Maintenance- Photo 1**

Rolando 2 channel, pre-maintenance condition. Photo taken from eastern extent of maintenance area, facing west.

(February 15, 2024)



**Rolando 2 Post-Maintenance- Photo 2**

Post-maintenance: Rolando 2 channel, post-maintenance condition.

(February 19, 2024)

### Industrial 1 (2-01-120) Emergency Maintenance



**Industrial 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Industrial 1 channel west of Sorrento Valley Road, facing west.

(January 30,2024)



**Industrial 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(February 1, 2024)

### Industrial 2 (2-01-122) Emergency Maintenance



**Industrial 2 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Industrial 2 channel east of Sorrento Valley Road, facing northeast.

(January 30, 2024)



**Industrial 2 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(January 31, 2024)

### Tripp 1 (2-01-130) Emergency Maintenance



**Tripp 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Tripp 1 channel, facing northwest.

(March 5, 2024)



**Tripp 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material, facing west by northwest.

(March 8, 2024)



### Roselle 2 (2-03-000) Emergency Maintenance



#### **Roselle 2 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Roselle 1 channel, facing east by southeast.

(March 13, 2024)



#### **Roselle 2 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material, facing southeast.

(March 15, 2024)

### Flintkote 1 (2-03-100) Emergency Maintenance



#### **Flintkote 1 Pre-Maintenance- Photo 1**

Post-maintenance condition of Flintkote 1 channel, facing southwest

(March 13, 2024)



#### **Flintkote 1 Post-Maintenance- Photo 2**

Post-maintenance condition of Flintkote 1 channel, facing southwest.

(March 13, 2024)

### Dunhill 1 (2-03-150) Emergency Maintenance



**Dunhill 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Dunhill 1 channel, taken from western edge, facing east.

(February 22, 2024)



**Dunhill 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel.

(March 13, 2024)

### Garnet 2 (3-02-003) Emergency Maintenance



**Garnet 2 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Garnet 2 channel downstream of Mission Bay Drive.

(April 5, 2024)



**Garnet 2 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of vegetation.

(April 19, 2024)



### Damon 1 (3-02-005) Emergency Maintenance



**Damon 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Damon 1 channel upstream of Mission Bay Drive.

(March 28, 2024)



**Damon 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(April 28, 2024)

### PB Olney 1 (3-02-101) Emergency Maintenance



**PB Olney 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of northeastern end of PB-Olney 1 channel, facing east.

(March 1, 2024)



**PB Olney 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of vegetation.



(March 13, 2024)



### MBHS 1 (3-02-103) Emergency Maintenance

	
<p><b>MBHS 1 Pre-Maintenance- Photo 1</b></p> <p>Pre-maintenance condition of MBHS 1 channel, facing northwest.</p> <p>(March 13, 2024)</p>	<p><b>MBHS 1 Post-Maintenance- Photo 2</b></p> <p>Pre-maintenance condition of MBHS 1 channel, facing south.</p> <p>(March 13, 2024)</p>

### Mission Gorge 2 (4-07-004) Emergency Maintenance

	
<p><b>Mission Gorge 2 Pre-Maintenance- Photo 1</b></p> <p>Pre-maintenance condition of Mission Gorge 2 channel, facing east.</p> <p>(April 2, 2024)</p>	<p><b>Mission Gorge 2 Post-Maintenance- Photo 2</b></p> <p>Post maintenance condition of channel showing removal of material.</p> <p>(April 5, 2024)</p>



### Cowles Mountain 1 (4-07-901) Emergency Maintenance



**Cowles Mountain 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Cowles Mountain 1 channel north of San Carlos Drive, facing south by southeast.

(March 26, 2024)



**Cowles Mountain 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(March 27, 2024)

### Cowles Mountain 2 (4-07-911) Emergency Maintenance



**Cowles Mountain 2 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Cowles Mountain 2 channel east of Lake Badin Drive, facing east by northeast.

(March 26, 2024)

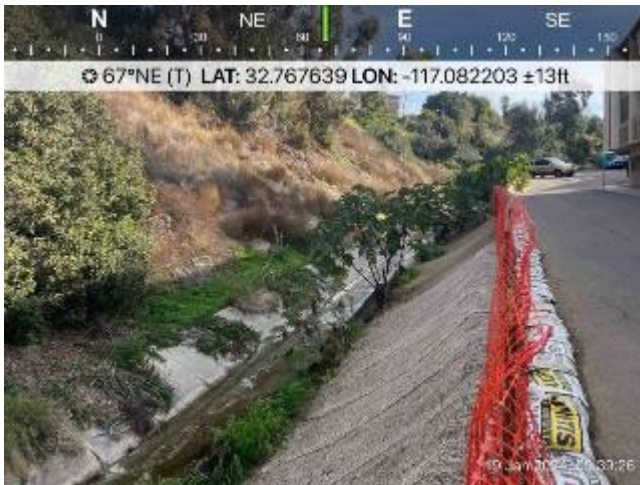


**Cowles Mountain 2 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(April 3, 2024)

### Baja 1 (4-08-105) Emergency Maintenance



#### **Baja 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Baja 1 channel, taken from southern edge, facing east by northeast.

(January 19, 2024)



#### **Baja 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel.

(March 22, 2024)

### Washington 1 (5-02-151) Emergency Maintenance



#### **Washington 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Washington 1 channel, west of Washington Street, facing north.

(February 2024)



#### **Washington 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(March 19, 2024)



### National 1 (5-04-004) Emergency Maintenance



**National 1 Pre-Maintenance- Photo 1**

Accumulated vegetation and debris in channel north of National Ave.

(January 25, 2024)



**National 1 Post-Maintenance- Photo 2**

Post maintenance condition of National 1 showing removal of material.

(January 28, 2024)

### Home 1 (5-04-220) Emergency Maintenance



**Home 1 Pre-Maintenance- Photo 1**

Accumulated clothing, debris and willow trees in Home 1 channel east of Home Ave, facing north.

(January 27, 2024)



**Home 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of debris and vegetation.

(January 27, 2024)



### Home 2 (5-04-224) Emergency Maintenance



**Home 2 Pre-Maintenance- Photo 1**

Accumulated vegetation and debris in culvert, facing south.

(January 27, 2024)



**Home 2 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(January 27, 2024)

### Ontario 1 (5-04-237) Emergency Maintenance



**Ontario 1 Pre-Maintenance- Photo 1**

Accumulated debris in Ontario 1 channel east of Auburn Street, facing west.

(January 28, 2024)



**Ontario 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material

(March 1, 2024)



### Wightman 2 (5-04-239) Emergency Maintenance



**Wightman 2 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Wightman 2 channel south of University Ave, facing north.

(January 28, 2024)



**Wightman 2 Post-Maintenance- Photo 2**

Post maintenance condition of channel at Wightman 2.

(January 28, 2024)

### Alpha 1 (5-05-006) Emergency Maintenance



**Alpha 1 Pre-Maintenance- Photo 1**

Accumulated vegetation and debris in Alpha channel east of 38<sup>th</sup> Street.

(January 28, 2024)



**Alpha 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material

(April 11, 2024)

### Ocean View 1 (5-05-008) Emergency Maintenance



#### **Ocean View 1 Pre-Maintenance- Photo 1**

Accumulated vegetation and debris at southern extent of Ocean View 1 channel, north of National Avenue.

(January 29, 2024)



#### **Ocean View 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(April 11, 2024)

### Acacia Grove 2 (5-05-103) Emergency Maintenance



#### **Acacia Grove 2 Pre-Maintenance- Photo 1**

Photo showing maintenance crew active in Acacia Grove 2 to remove Arundo sp. regrowth.

(February 13, 2024)



#### **Acacia Grove 2 Post-Maintenance- Photo 2**

Post-maintenance condition of Acacia Grove 2 channel north of Acacia Grove Way, facing south.

(May 29, 2024)



### Castana 1 (5-05-205) Emergency Maintenance



**Castana 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Castana 1 channel, facing northeast.

(March 26, 2024)



**Castana 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of vegetation.

(April 5, 2024)

### Jamacha 1 (5-05-603) Emergency Maintenance



**Jamacha 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Jamacha 1 facing southwest.

(February 9, 2024)



**Jamacha 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(June 12, 2024)



### Parkside 1 (5-11-003) Emergency Maintenance



**Parkside 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Parkside 1 channel, taken from northern edge, facing east.

(April 5, 2024)



**Parkside 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel.

(April 16, 2024)

### Grove 1 (5-22-023) Emergency Maintenance



**Grove 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Grove 1 channel in eastern portion, facing west.

(March 1, 2024)



**Grove 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

March 6, 2024



### Cedar 1 (5-22-008) Emergency Maintenance



**Cedar 1 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Cedar 1 channel, taken from northern edge, facing east by southeast.

(March 6, 2024)



**Cedar 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel, taken from southern edge, facing northwest.

(April 2, 2024)

### Cedar 2 (5-22-010) Emergency Maintenance



**Cedar 2 Pre-Maintenance- Photo 1**

Pre-maintenance condition of Cedar 2 channel, taken from southern edge, facing north.

(March 6, 2024)



**Cedar 2 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material, taken from northern edge, facing south.

(April 2, 2024)

### Cerissa 1 (5-22-016) Emergency Maintenance



**Cerissa 1 Pre-Maintenance- Photo 1**

Accumulated vegetation debris in Cerissa 1 channel north of Coronado Avenue.

(January 31, 2024)



**Cerissa 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(January 31, 2024)

### Tocayo 2 (6-02-115) Emergency Maintenance



**Tocayo 2 Pre-Maintenance- Photo 1**

Accumulated debris and sediment and overgrowth of non-native grasses/weeds in Tocayo 2 channel west of Oro Vista Road. Photo collected at start of maintenance.

(March 16, 2024)



**Tocayo 2 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material.

(March 18, 2024)



### Smythe 1 (6-03-147) Emergency Maintenance



**Smythe 1 Pre-Maintenance- Photo 1**

: Accumulated vegetation debris in Smythe 1 channel at concrete-lined drainage structure.

(January 30, 2024)



**Smythe 1 Post-Maintenance- Photo 2**

Post maintenance condition of channel showing removal of material at drainage structure.

(April 10, 2024)