Addendum No. 1 to the County-Wide Long-Term Routine Maintenance Permitting Program Initial Study/Mitigated Negative Declaration (IP 11-444) (SCH No. 2012111011)

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1.0 PURPOSE OF ADDENDUM NO.1

1.1 APPROVED PROJECT

The County-Wide Long-Term Routine Maintenance Permitting Program (IP 11-444) Project (Project) was previously evaluated in the *County-Wide Long-Term Routine Maintenance Permitting Program (IP 11-444) Initial Study/Mitigated Negative Declaration* (hereinafter referred to as the "IS/MND No. IP 11-444"). IS/MND No. IP 11-444 analyzed routine maintenance activities within multiple existing flood control facilities, as well as beneath existing bridges crossing over waterways, located throughout the County of Orange (County). Flood control maintenance activities would include channel and basin/dam maintenance (i.e., cleaning, silt removal, slope maintenance/repair), landscape maintenance and vegetation control/removal, insect/rodent control, rip-rap installation and repair, structural inspection/cleaning, installation of storm drain pipes and underdrains, fabrication and installation of headwalls, removal/replacement of concrete lining, and the repair and backfill of washouts. Bridge maintenance activities would include maintenance of waterway side slope and invert classing in the immediate vicinity of the bridge, repair of concrete bridge elements within the channel, and cleaning and painting of steel bridge members. This Project, referred to as the "2013 Approved Project" was approved concurrent with approval of IS/MND No. IP 11-444 and was implemented on an as-needed basis throughout Orange County within Orange County Flood Control District (OCFCD) right-of-way. IS/MND No. IP 11-444 was adopted by the Orange County Board of Supervisors on May 21, 2013.

1.2 BASIS FOR ADDENDUM NO.1

The California Environmental Quality Act (CEQA) allows for the preparation of an Addendum to an approved Mitigated Negative Declaration (MND) to document minor technical changes in the project characteristics or environmental conditions under which the Project would be developed. This Addendum No. 1 to the Project has been prepared in accordance with the provisions of CEQA (*California Public Resources Code,* Sections 21000 et seq.); the State CEQA Guidelines (Title 14, *California Code of Regulations,* Sections 15000 et seq.); and the rules, regulations, and procedures for implementing CEQA as adopted by the County. Section 15164(b) of the State CEQA Guidelines states that "the lead agency or a responsible agency shall prepare an addendum to a previously adopted Negative Declaration if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred". Section 21166 (Subsequent or Supplemental Impact Report; Conditions) of CEQA, and Section 15162(a) of the State CEQA Guidelines address when a subsequent Environmental Impact Report (EIR) is required. As stated in Section 15162(a), a subsequent EIR is required when:

> (1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;

(2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or Negative Declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or

(3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the Negative Declaration was adopted, shows any of the following:

(A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;

(B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;

(C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or

(D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

The purpose of this Addendum No. 1 is to analyze the impacts resulting from implementation of the proposed Project (herein referred to as the Modified Project) (including impacts resulting from changes in circumstances) and to identify the difference, if any, between the impacts evaluated in IS/MND No. IP 11-444 and those associated with the Modified Project. It also reviews whether any new information of substantial importance has been identified that shows that the Modified Project would have one or more significant effects not discussed in the previous environmental documents. An Addendum is currently proposed to allow proposed changes to the Project evaluated in IS/MND No. IP 11-444.

1.3 MODIFIED PROJECT

The Modified Project proposes minor revisions to the Project previously analyzed in the IS/MND No. IP 11-444. Specifically, the Modified Project would include:

- Maintenance work to structures adjacent to sensitive habitats with the implementation of standardized avoidance and minimization measures;
- Limited impacts, not to exceed 0.05 acre per 500 linear feet, or as otherwise negotiated with the resource agencies, to sensitive habitats with the implementation of appropriate mitigation;

- Maintenance work at the County's long-term mitigation sites, within previously analyzed watersheds, needed to maintain or improve the habitat conditions at the mitigation sites;
- Maintenance work at County facilities located outside the County of Orange (e.g., facilities at Prado Basin and Seven Oaks Dam); and
- Improvements to channels that may deviate from the as-built condition, either:
    - with the intent that improvements would be beneficial to the environment, resulting in no loss of ecological functions and values. With resource agency approval, these types of improvements may not require additional mitigation as they would be considered self-mitigating through their ecological benefits, or:
    - resulting in a permanent change to the channel, such as the installation of riprap to combat highly erosive, bare earthen slopes. These changes may or may not require mitigation depending upon the condition of the existing channel and the extent of permanent change, including potential water quality improvements and retention of existing ecological features.
- Allowance for vegetation to grow, where channel capacity allows, between maintenance cycles without triggering additional mitigation obligation for removal of the vegetation at a later time.

The Modified Project would be implemented on an as-needed basis within existing OCFCD flood control facilities and beneath existing bridges crossing over waterways throughout Orange County and associated infrastructure for OCFCD's facilities within Riverside and San Bernardino counties (i.e., Prado Basin and Seven Oaks Dam).

Pursuant to Section 15367 of the State CEQA Guidelines, the County is the lead agency for the Modified Project. The lead agency is the public agency that has the principal responsibility for carrying out or approving a Project that may have a significant effect on the environment. The County, as the lead agency, has the authority for Project approval and certification of the accompanying environmental documentation.

In accordance with Section 21166 of CEQA and Sections 15162 and 15164 of the State CEQA Guidelines, based on the analysis presented in this document, the County has determined there are no new significant impacts resulting from the Modified Project, nor is there any substantial increase in the severity of any previously identified environmental impacts. In addition, the changes with respect to the circumstances under which the Modified Project would be undertaken would not result in new or more severe significant environmental impacts. The potential impacts associated with the Modified Project would either be the same or less than the anticipated levels described in IS/MND No. IP 11-444. An Addendum is the appropriate environmental documentation for the Modified Project and requested approvals.

Section 2.0 of this Addendum No. 1 provides background information on the 2013 Approved Project, including actions taken by the County Board of Supervisors. Section 3.0 provides a description of the Modified Project. Section 4.0 presents an environmental analysis of the Modified Project. Section 5.0 presents the findings related to the environmental analysis of the Modified Project.

2.0 PROJECT BACKGROUND

The mission of the Orange County Flood Control District (OCFCD) is to protect the County of Orange (County) from the threat of and damage from flooding. OCFCD currently owns flood channels, dams, pump stations, flood control basins, and other infrastructure. Such assets require regular maintenance which is subject to environmental regulations on a project-by-project basis. Periodic maintenance and repair of the County's existing flood control facilities are required in order to meet the following goals:

- Maintain functional capacity of the facility;
- Minimize the risk of damage;
- Optimize flood-control capacity;
- Prevent flooding and erosion of adjacent roadways and properties during storm events; and,
- Meet the flood control requirements and conditions of the U.S. Army Corps of Engineers' (USACE) PL84-99 Program.

The mission of Orange County Bridge Maintenance unit is to implement repairs recommended by the California Department of Transportation (Caltrans) in its federally-mandated biennial bridge inspections and special inspections. Timely repairs keep the bridges structurally and functionally safe for public use and preserve the County's bridge infrastructure investment. The County owns and maintains bridges carrying or crossing over unincorporated County roadways, highways, or waterways, including crossing over a few waterways, that are considered wildlife corridors.

OC Public Works, on behalf of the OCFCD and Bridge Maintenance, is responsible for securing local, state and federal environmental and regulatory approvals for maintenance activities. Generally, approvals have included Clean Water Act (Section 404 and 401) permits from the USACE and California Regional Water Quality Control Boards; Lake and Streambed Alteration Agreements (California Fish and Game Code 1602) from the California Department of Fish and Wildlife; and Coastal Development Permits from the California Coastal Commission. Historically, OC Public Works obtained environmental and regulatory approvals for maintenance activities on a project-by-project basis, even for activities that have minimal impact due to maintenance type, size, or location. OC Public Works successfully obtained a Countywide permit to cover routine maintenance activities throughout the County that provided a streamlined approach and reduced the number of project-by-project permits. The first set of Countywide permits excluded channels with any sensitive resources present within 500 feet, requiring those maintenance projects to be permitted separately on a project-by-project basis. It also excluded any modifications from as-built condition. OC Public Works is currently seeking to renew its Countywide permits and to further increase the streamlining, reducing the number of project-by-project approvals needed, by including the following under the Countywide permit:

- Maintenance work to structures adjacent to sensitive habitats with the implementation of standardized avoidance and minimization measures;

- Limited impacts, not to exceed 0.05 acre per 500 linear feet, or as otherwise negotiated with the resource agencies, to sensitive habitats with the implementation of appropriate mitigation;
- Maintenance work at the County's long-term mitigation sites, within previously analyzed watersheds, needed to maintain or improve the habitat conditions at the mitigation sites;
- Maintenance work at County facilities located outside the County of Orange (i.e., facilities at Prado Basin and Seven Oaks Dam); and
- Improvements to channels that may deviate from the as-built condition, either:
    - with the intent that improvements would be beneficial to the environment, resulting in a net gain of ecological functions and values. With resource agency approval, these types of improvements may not require additional mitigation as they would be considered self-mitigating through their ecological benefits, or:
    - resulting in a permanent change to the channel, such as the installation of riprap to combat highly erosive, bare earthen slopes. These changes may or may not require mitigation depending upon the condition of the existing channel and the extent of permanent change, including potential water quality improvements and retention of existing ecological features.
- Allowance for vegetation to grow, where channel capacity allows, between maintenance cycles without triggering additional mitigation obligation for removal of the vegetation at a later time.

The Countywide permit would maintain the structure of submitting an Annual Work Plan to the resource agencies, which would allow resource agency staff to review and approve maintenance projects that are consistent with the Countywide permit. If a maintenance project is considered not consistent with the Countywide permit, the maintenance activity and/or associated mitigation would be modified as recommended by the agencies. If concurrence on appropriate modifications and/or mitigation cannot be established, a project-specific permit would be pursued. However, OC Public Works' intent is for the majority of maintenance to be covered under the Countywide permit. OC Public Works generally maintains its flood facilities with minimal vegetation to allow adequate flood conveyance; however, OC Public Works would like the ability to allow more vegetation to grow, where channel capacity allows, on a periodic basis, to allow for additional environmental benefit (water quality, air quality, aesthetics, wildlife, etc.) without the risk that allowing the periodic growth of vegetation would result in additional mitigation obligation when the vegetation needs to be removed for conveyance or maintenance needs. OC Public Works would like to establish a record of channels where baseline conditions are unvegetated or minimally vegetated (e.g., bare earthen channels), where vegetation could periodically be allowed to grow but could later be removed (including some limited woody vegetation) when needed for flood capacity without triggering mitigation obligation; vegetation removal would occur outside the nesting season or would include the appropriate pre-activity nesting bird surveys.

The Modified Project would be implemented on an as-needed basis within multiple existing flood control facilities and beneath existing bridges crossing over waterways throughout the County and associated infrastructure for OCFCD's facilities within Riverside and San Bernardino counties (i.e., Prado Basin and Seven Oaks Dam). The proposed maintenance sites associated with the Modified Project have been subject to previous planning efforts. Section 2.2 provides a summary of the planning efforts that are integral to the Modified Project.

2.1 REGULATORY COORDINATION

Prior to issuance of the existing Countywide long term maintenance permits, OC Public Works coordinated with state and federal regulatory agencies to solicit feedback and discuss the programmatic permit approach for minimal-impact maintenance activities. As part of that process, OC Public Works conducted on-site field tours, conference calls and in-house coordination meetings with the USACE, State Water Board, two Regional Water Quality Control Boards (San Diego and Santa Ana), and California Department of Fish and Wildlife (CDFW) so that existing conditions and maintenance responsibilities were understood. Additionally, OC Public Works held as needed conference calls with the regulatory agencies, which provided an additional opportunity for discussion. OC Public Works has continued coordination with the resource agencies during the life of the existing permits primarily through the Annual Work Plan meeting and project review mechanism.

In preparation for the Countywide permit renewal, OC Public Works has held two online meetings with the resource agencies to discuss the renewal of the long-term permits. The first teleconference was held on May 18, 2023, and the second held on September 6, 2023. The September 6, 2023 meeting served as the mandatory minimum 30 day pre-filing meeting for the renewal of the 401 Water Quality certification.

2.2 COUNTY-WIDE LONG-TERM ROUTINE MAINTENANCE PERMITTING PROGRAM IS/MND NO. IP 11-444

In 2013, the County's County-Wide Long-Term Routine Maintenance Permitting Program IS/MND No. IP 11-444 was approved. This document addressed the impacts associated with OCFCD routine maintenance activities (i.e., channel and basin/dam maintenance, landscape maintenance and vegetation control/cleaning, insect/rodent control, rip-rap installation and repair, structural inspection/cleaning, installation of storm drain pipes and underdrains, fabrication and installation of headwalls, removal/replacement of concrete lining, and the repair of backfill of washouts and slope failures) on an as-needed basis within multiple existing flood control facilities and beneath existing bridges crossing over waterways owned and maintained by OCFCD situated throughout 13 watersheds in Orange County.

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3.0 MODIFIED PROJECT DESCRIPTION AND SETTING

3.1 PROJECT LOCATION

The Countywide Long-Term Routine Maintenance Permitting Program would cover maintenance throughout Orange County and associated infrastructure for OCFCD's facilities within Riverside and San Bernardino counties (i.e., Prado Basin and Seven Oaks Dam); refer to Exhibit 1, Regional Vicinity, and Exhibit 2a through 2i, Project Facilities Map. This includes all the maintenance activities within the Project areas located in Orange County, plus the additional infrastructure covered under the Modified Project within Riverside and San Bernardino counties (i.e., Prado Basin and Seven Oaks Dam). There are 13 watersheds located with the Countywide permit area,[1] covering approximately 799.3 square miles. These 13 watersheds are listed in Table 3-1, Orange County Watersheds.

TABLE 3-1
ORANGE COUNTY WATERSHEDS

Watershed	Main Tributaries in the Watershed	Acres[1]	Square Miles
A	San Gabriel River/Coyote Creek	31,952	49.9
B	Carbon Creek	16,534	25.8
C	Los Alamitos/East Garden/Bolsa Chica	57,421	89.7
D	Talbert/Greenville Banning Channel	16,575	25.9
E	Santa Ana River (Upper, Middle, and Lower)	1,696,000 [134,400 in Orange County]	2,650 [210 in Orange County]
F	San Diego Creek	86,881	135.8
G	East Costa Mesa/Newport Beach	10,258	16.0
H	Los Trancos/Muddy Creek	8,639	13.5
	Laguna Canyon Channel	8,136	12.7
J	Aliso Creek	23,517	36.7
K	Salt Creek	4,741	7.4
L	San Juan Creek	103,684	162.0
M	Prima Deshecha//Segunda Deshecha	24,602	38.4
1 Acreages are approximate/source is digitized mapping			

The current list of facilities to be covered by the Countywide permit is included in Appendix A, Facilities List. Facilities may be added for coverage over the life of the permit.

The current list of bridges is included in Appendix B, County-Owned Bridges. The list of County-Owned Bridges is sorted by Drainage Facility Name and Caltrans Bridge Number. Each line item includes the watershed drainage facility identifier and a description of the

[1] The County's facilities in Riverside County (Prado Basin) and San Bernardino County (Seven Oaks Dam) are both within the Santa Ana River watershed.



Regional Location

Exhibit 1

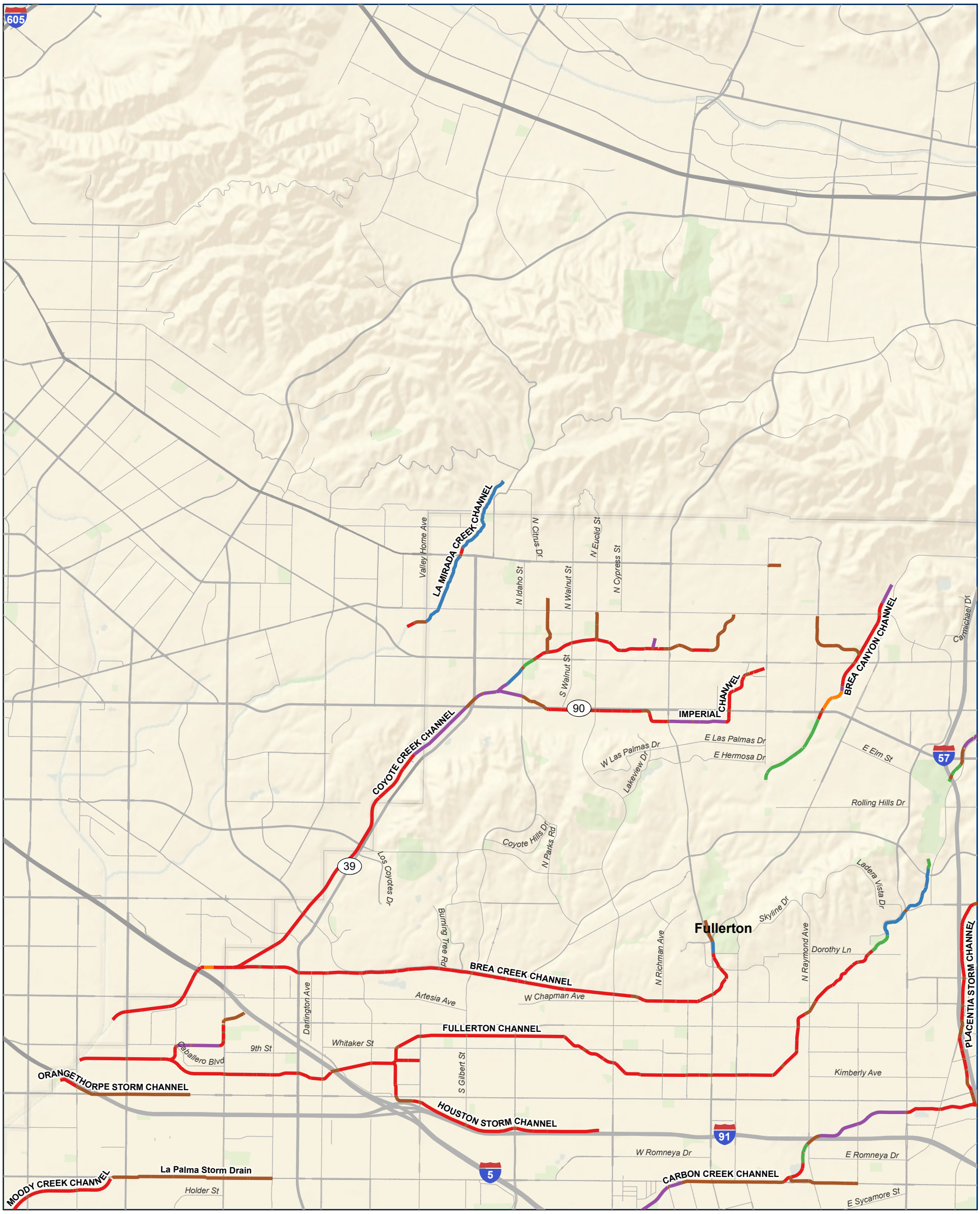
County of Orange Long-Term Maintenance Permitting Program

4.5 2.25 0 4.5 Miles

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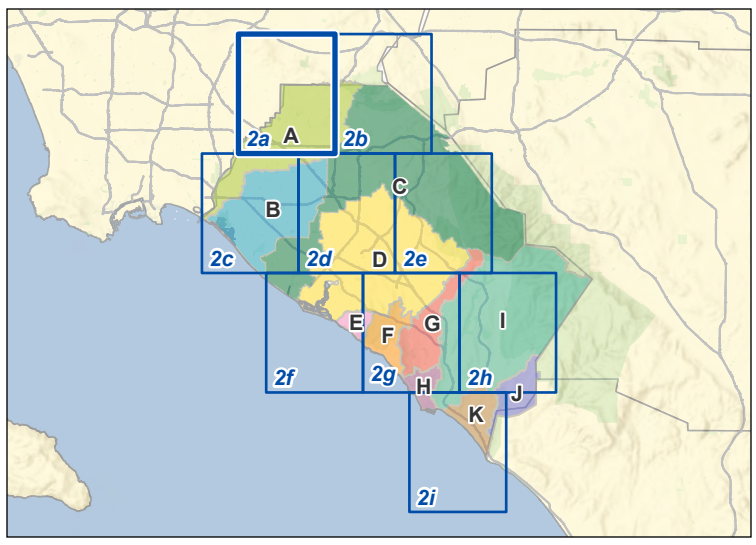
Channel Type

- Concrete-Lined
- Concrete Sides, Soft Bottom
- Natural Watercourse
- Earth Channel
- Riprap Channel
- Metal Sheet Channel
- Underground Conduit
- Not Available
- Dams/Reservoirs/Basins
- Mitigation Sites*

* Note: See Appendix C, Table C-1 Mitigation Sites for Mitigation Site Names

Watershed

- A - Coyote Creek
- B - Anaheim Bay
- C - Santa Ana River
- D - Newport Bay
- E - Newport Coastal
- F - Laguna Coast
- G - Aliso
- H - Dana Point
- I - San Juan Creek
- J - San Mateo
- K - San Clemente



Project Facilities Map

Exhibit 2a

County of Orange Long-Term Maintenance Permitting Program

N W E S

1 0.5 0 1 Mile

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57
142
90
91
241
Rose Dr
Golden Ave
Prospect Ave
Plumosa Dr
Lakeview Ave
Fairmont Blvd
San Antonio Rd
E Palm Dr
Ruby Dr
Ohio St
Vista Montana
Vista Del Mar
Highland Ave
Short St
Fairgrm Pkwy
Canyon Dr
Esperanza Rd
Santa Ana Canyon Rd
E la Jolla St
Miller St
E Canyon Rim Rd
CARBON CANYON CHANNEL
RICHFIELD CHANNEL
ATWOOD CHANNEL
CARBON CREEK CHANNEL
CARBON CANYON DIVERSION CHANNEL
SANTA ANA RIVER CHANNEL
ESPERANZA CHANNEL
27,44, 56,57
1,6,8,10-15 17,18,20,21, 23-26,36, 39-41,49,50

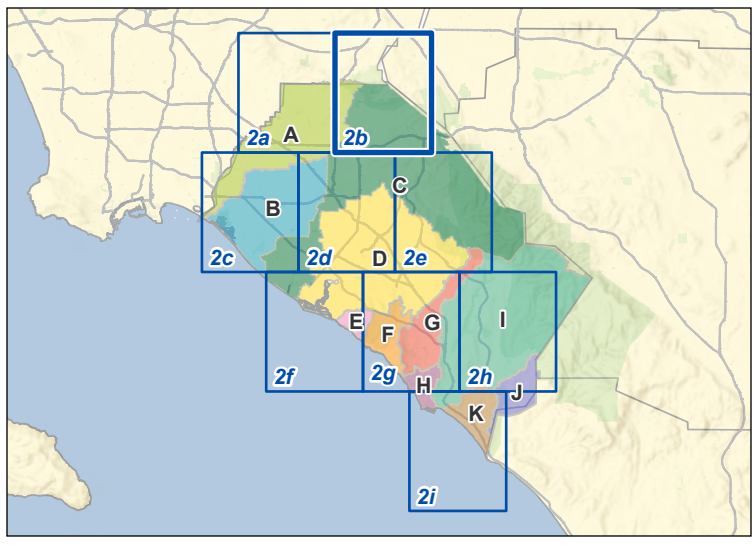
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- K - San Clemente



Project Facilities Map

Exhibit 2b

County of Orange Long-Term Maintenance Permitting Program

N W E S

1 0.5 0 1 Mile

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CARBON CREEK CHANNEL
ROSSMOOR STORM CHANNEL
KEMPTON STORM CHANNEL
MONTECITO STORM CHANNEL
BIXBY STORM CHANNEL
FEDERAL STORM CHANNEL
LOS ALAMITOS CHANNEL
Jonathan Storm Channel
STANTON STORM CHANNEL
ANAHEIM-BARBER CITY CHANNEL
Milan Storm Channel
WESTMINSTER CHANNEL
Purdy Storm Drain
BOLSA CHICA CHANNEL
SUNSET CHANNEL
EAST GARDEN GROVE-WINTERSBURG CHANNEL
OCEAN VIEW CHANNEL
TALBERT CHANNEL
GREENVILLE-BANNING CHANNEL
SANTA ANA RIVER CHANNEL
Seal Beach Storm Drain
Garden Grove
Huntington Beach
Crescent Ave
Denni St
N Dale Ave
S Dale Ave
S Gilbert St
W Orange Ave
Lola Ave
Cerritos Ave
S Nutwood St
Holder St
Hope St
Dale St
Foster Rd
Martha Ann Dr
Bostonian Dr
Warland Dr
Lana Dr
Apia Dr
Blackmer St
Knott St
Santa Rosalia St
Nutwood St
Lampson Ave
Stanford Ave
Gilbert St
Cypress St
Benton St
Trask Ave
Hoover St
Siskiyou St
21st St
University St
Westminster Blvd
Golden Rain Rd
Druid Ln
Yellowtail Dr
Cerro de Oro Dr
Chestnut St
Olive St
Hazard Ave
Skylab Rd
Argosy Ave
McFadden Ave
Heil Ave
Ross Ln
Nichols Ln
Newland St
Ward St
Delaware St
17th St
Florida St
Coldwater Ln
Park St
Main St
Huntington St
Palm Ave
Orange Ave
Ocean Ave
12th St
Saybrook Ln
Sims St
Pearce St
Plaza Ln
Graham St
Taft St
605
405
22
5
46
38
39
1

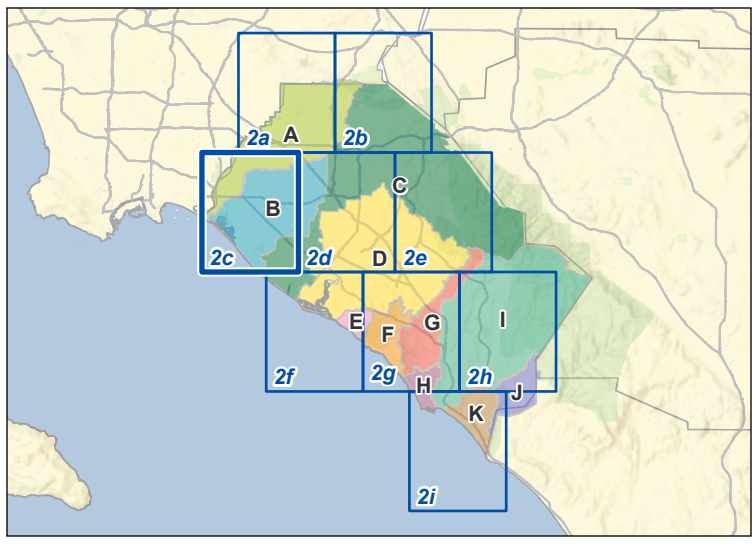
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- Mitigation Sites*

* Note: See Appendix C, Table C-1 Mitigation Sites for Mitigation Site Names

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Project Facilities Map

Exhibit 2c

County of Orange Long-Term Maintenance Permitting Program

N W E S

1 0.5 0 1 Mile

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Anaheim
Orange
Santa Ana
Costa Mesa
Irvine

ANAHEIM-BARBER CITY CHANNEL
State College Storm Drain
SOUTHEAST ANAHEIM CHANNEL
Chantilly Storm Channel
COLLINS CHANNEL
MARLBORO STORM CHANNEL
BITTERBUSH CHANNEL
Spinnaker Storm Drain
Villa Park Storm Drain
SANTIAGO CREEK CHANNEL
ALAMEDA STORM DRAIN
El Modena Storm Drain
Prospect Storm Drain
Hewes Storm Drain
RED HILL CHANNEL
NORTH TUSTIN CHANNEL
LA COLINA-RED HILL CHANNEL
SOUTHWEST TUSTIN CHANNEL
SANTA ANA RIVER CHANNEL
SANTA ANA GARDENS CHANNEL
GREENVILLE-BANNING CHANNEL
SANTA ANA-DELHI CHANNEL
SANTA ANA-SANTA FE CHANNEL
EL MODENA-IRVINE CHANNEL
Venta Channel
Barranca Storm Drain
BARRANCA CHANNEL
CENTRAL-IRVINE CHANNEL
PETERS CANYON CHANNEL
COMO STORM CHANNEL
ARMSTRONG CHANNEL
LANE CHANNEL
SAN DIEGO CREEK CHANNEL
SAN JOAQUIN CHANNEL
GISLER STORM CHANNEL
PAULARINO CHANNEL

W North St, N Citron St, E Sycamore St, E Broadway, E Santa Ana St, E South St, E Vermont Ave, W South St, S Citron St, N West St, S West St, S Olive St, S East St, S Loara St, W Crone Ave, Cerritos Ave, S 9th St, Daniel Ave, 9th St, W St, 8th St, Paloma Ave, Banner Dr, Trask Ave, Roxey Dr, N Baker St, N Flower St, Santiago St, English St, W 5th St, W Walnut St, W Willits St, S Flower St, S Sullivan St, S Center St, S Greenville St, S Yale St, Newhope St, S Raitt St, W Saint Andrew Pl, Cypress Ave, E Alton Ave, Scenic Ave, California St, Gisler Ave, Watson Ave, Paularino Ave, Bear St, Pullman St, Airway Ave, Michelson Dr, E Bixby Ave, Villa Real Dr, Valley Dr, S Mesa Dr, Serrano Ave, Center St, E Santiago Blvd, Lincoln St, E Collins Ave, N Lemon St, N Shaffer St, N Handy St, N Echlhoff St, W Palm Ave, W Maple Ave, W Almond Ave, E Almond Ave, E Palmyra Ave, E Bond Ave, E Walnut Ave, Meads, Orange Park Blvd, E Amapola Ave, E la Veta Ave, S Hewes St, Barrett Ln, Old Foothill Blvd, Foothill Blvd, Skyline Dr, Yorba St, Hewes Ave, Arroyo Ave, Vanderlip Ave, Holt Ave, Mabury St, N Spurgeon St, N French St, N Ross St, E 3rd St, W 3rd St, E 4th St, W 6th St, E 1st St, S B St, S Lyon St, S Williams St, S Sycamore St, E Bishop St, E Hobart St, Browning Ave, Nisson Rd, Mitchell Ave, Moffett Ave, Edinger Ave, Dalmler St, Deere Ave, Culver Dr, Roosevelt, Alton Pkwy, Irvine Blvd, Yale Ave, Walnut Ave, Sand Canyon Ave, Jeffrey Rd, Portola Pkwy, Trabuco Rd, Barranca Pkwy, Irvine Center Dr, Lake Forest Dr, Bake Pkwy, Rockfield Blvd, Alicia Pkwy, Laguna Canyon Rd, Aliso Creek Rd, Moulton Pkwy, Crown Valley Pkwy, Oso Pkwy, Alicia Pkwy, Avenida De La Carlota, Los Alisos Blvd, Muirlands Blvd, Bridger Rd, Ridge Valley, Ridge Route Dr, Rockfield Blvd, Alton Pkwy, Irvine Blvd, Yale Ave, Walnut Ave, Sand Canyon Ave, Jeffrey Rd, Portola Pkwy, Trabuco Rd, Barranca Pkwy, Irvine Center Dr, Lake Forest Dr, Bake Pkwy, Rockfield Blvd, Alicia Pkwy, Laguna Canyon Rd, Aliso Creek Rd, Moulton Pkwy, Crown Valley Pkwy, Oso Pkwy, Alicia Pkwy, Avenida De La Carlota, Los Alisos Blvd, Muirlands Blvd, Bridger Rd, Ridge Valley, Ridge Route Dr

57, 55, 22, 31, 405, 5, 261, 47

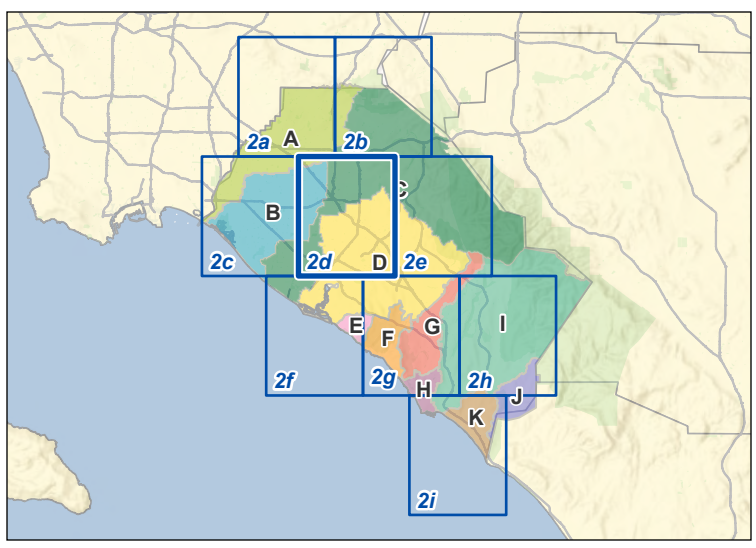
Channel Type

- Concrete-Lined
- Concrete Sides, Soft Bottom
- Natural Watercourse
- Earth Channel
- Riprap Channel
- Metal Sheet Channel
- Underground Conduit
- Not Available
- Dams/Reservoirs/Basins
- Mitigation Sites*

* Note: See Appendix C, Table C-1 Mitigation Sites for Mitigation Site Names

Watershed

- A - Coyote Creek
- B - Anaheim Bay
- C - Santa Ana River
- D - Newport Bay
- E - Newport Coastal
- F - Laguna Coast
- G - Aliso
- H - Dana Point
- I - San Juan Creek
- J - San Mateo
- K - San Clemente



Project Facilities Map

Exhibit 2d

County of Orange Long-Term Maintenance Permitting Program

N W E S

1 0.5 0 1 Mile

PSOMAS

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CLEVELAND NATIONAL FOREST

CLEVELAND NATIONAL FOREST

Serrano Ave

SANTIAGO CREEK CHANNEL

45

Jamboree Rd

261

241

Santiago Canyon Rd

Silverado Canyon Rd

Bee Canyon Access Rd

Encore

Portola Pkwy

133

Roosevelt

Bosque

Benchmark

Portola Springs

Paloma

Ridgeline Rd

Live Oak Canyon Rd

MARSHBURN CHANNEL

BORREGO CANYON CHANNEL

5

Great Park Blvd

Pusan

Chinon

Merit

Pauling

Catalina

Marine Way

Skyhawk

Cadence

Lynx

Alton Pkwy

Monarch

SERRANO CREEK CHANNEL

3

2

42

2

2

Santiago Canyon Rd

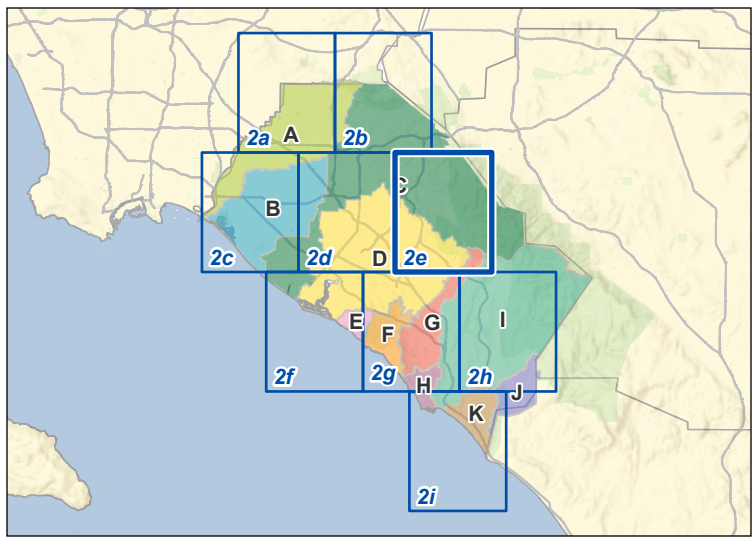
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Project Facilities Map

Exhibit 2e

County of Orange Long-Term Maintenance Permitting Program

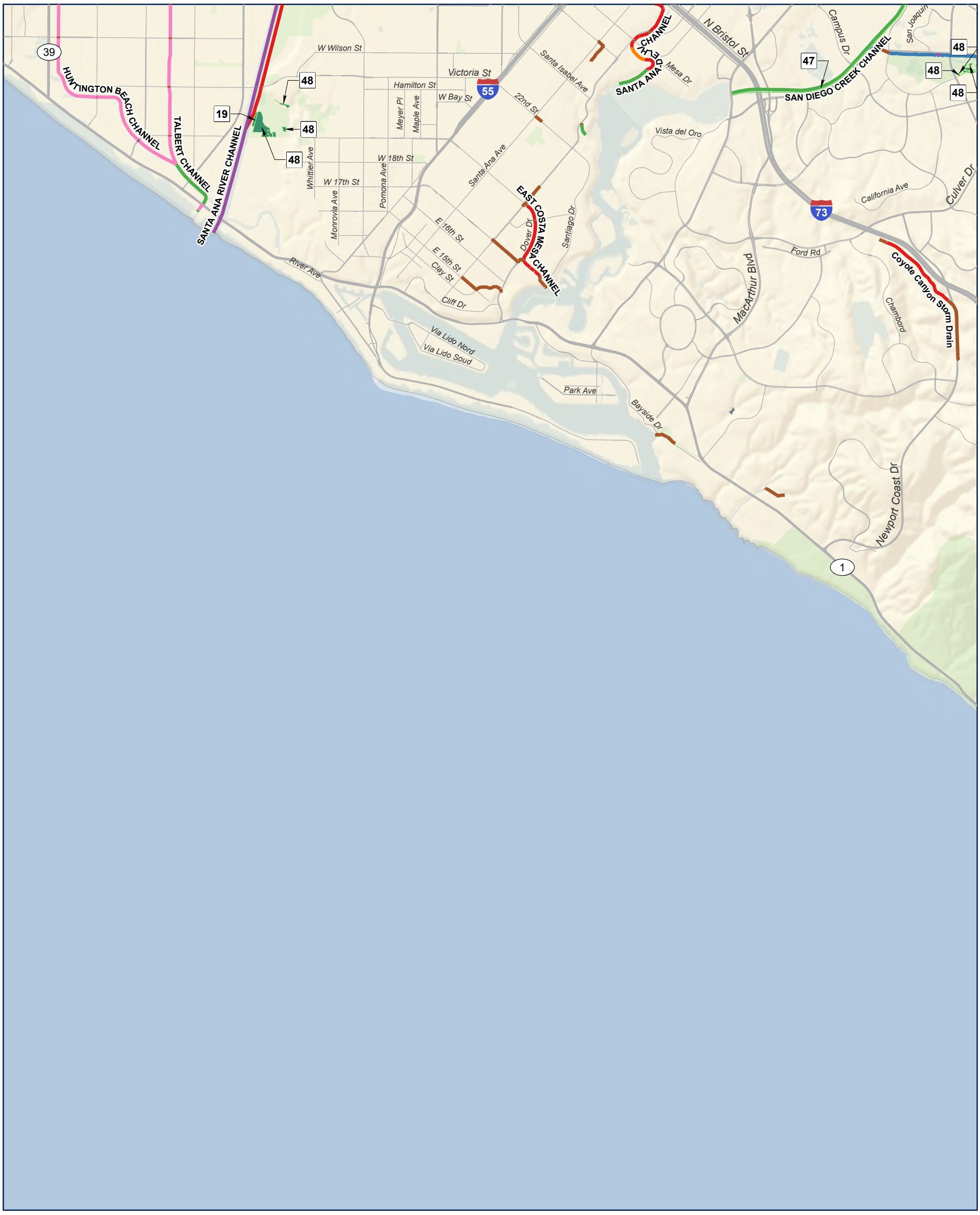
N W E S

1 0.5 0 1 Mile

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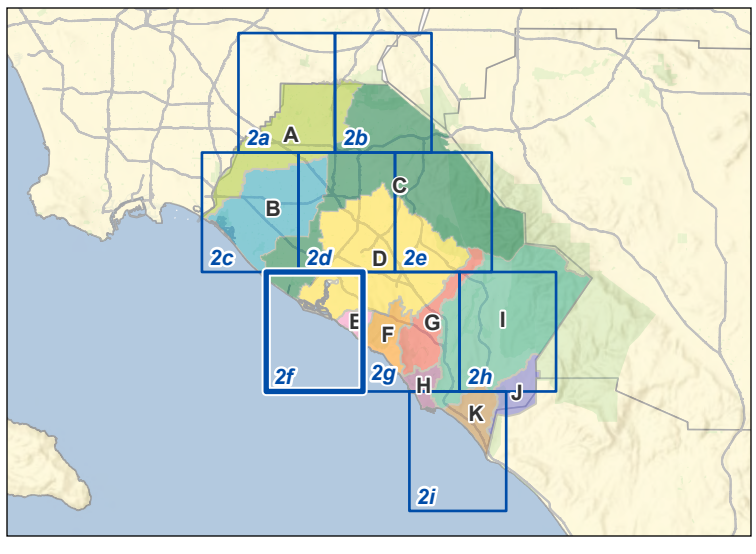
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Project Facilities Map

County of Orange Long-Term Maintenance Permitting Program

Exhibit 2f

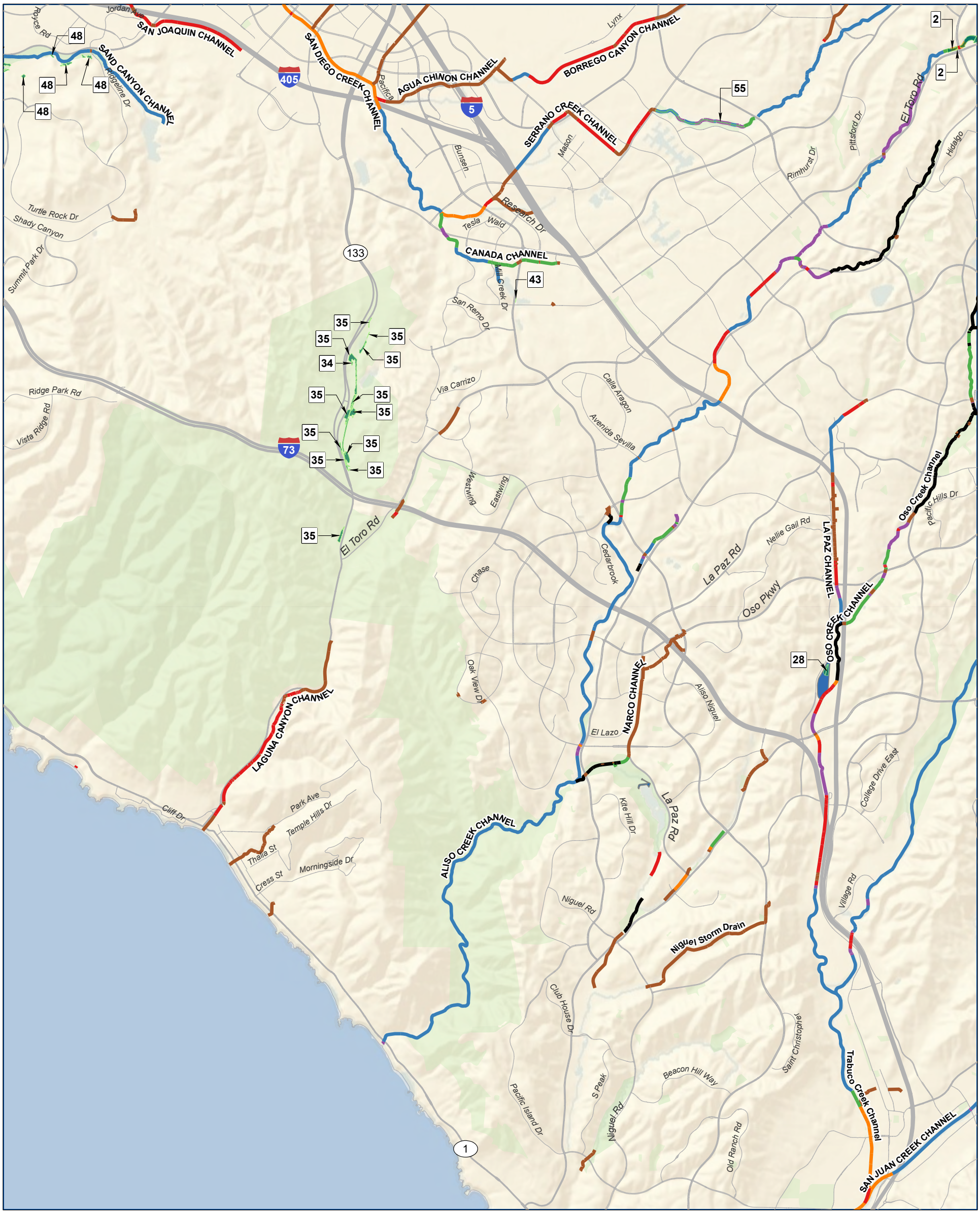
N W E S

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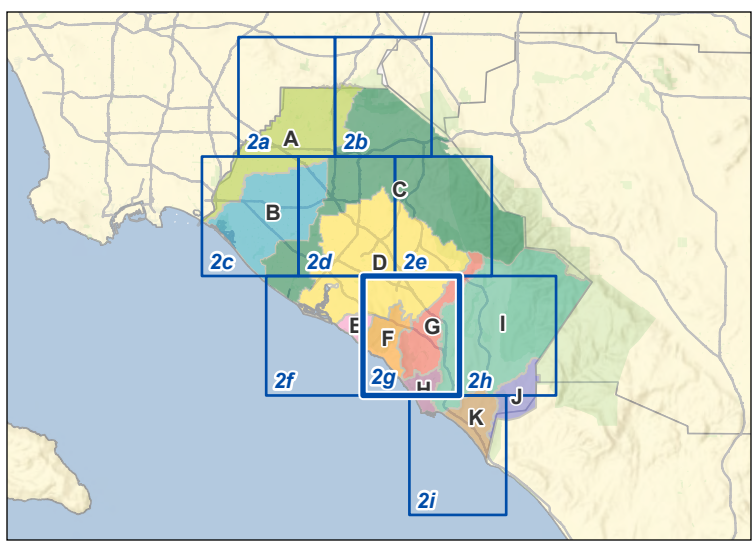
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- K - San Clemente



Project Facilities Map

Exhibit 2g

County of Orange Long-Term Maintenance Permitting Program

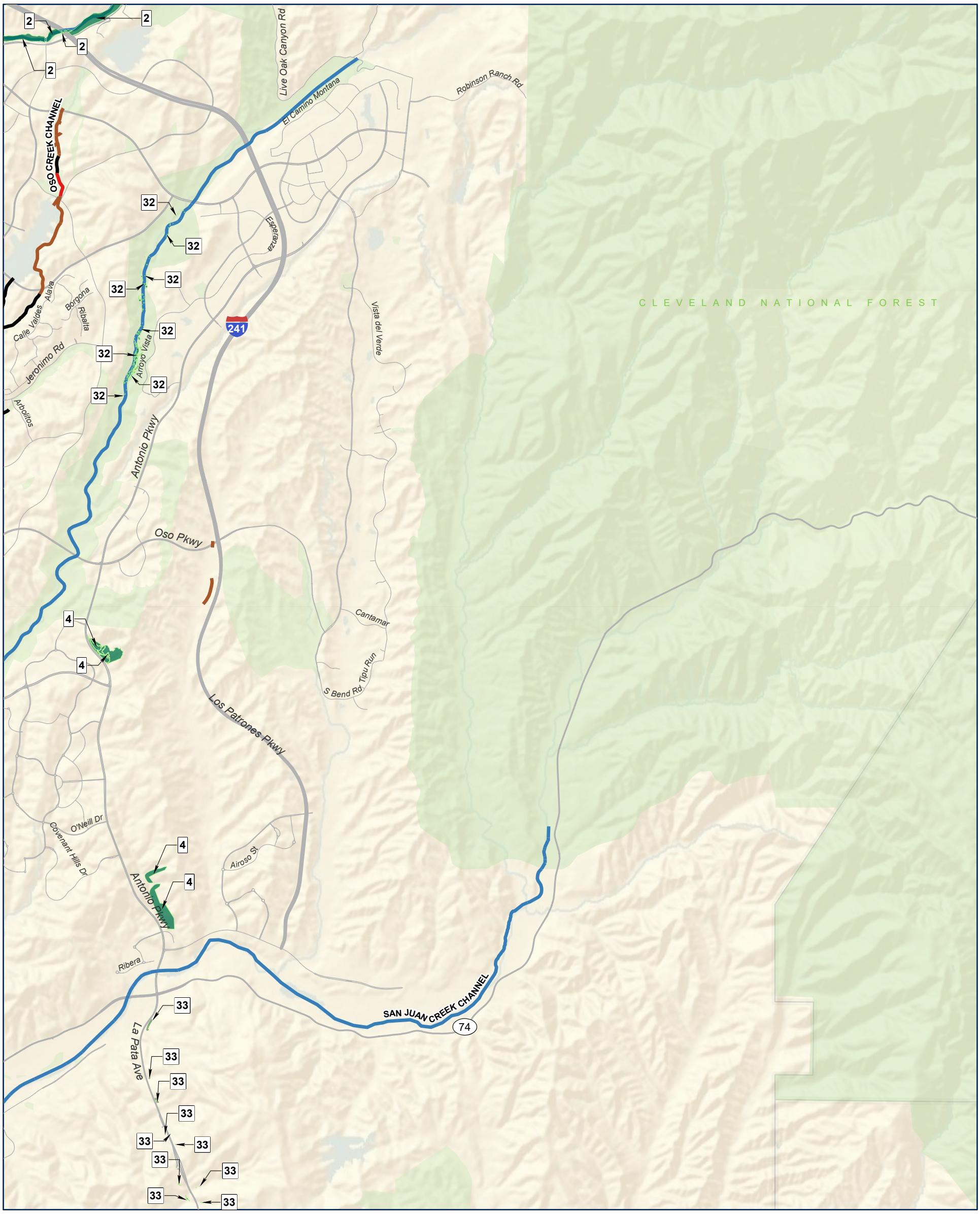
N W E S

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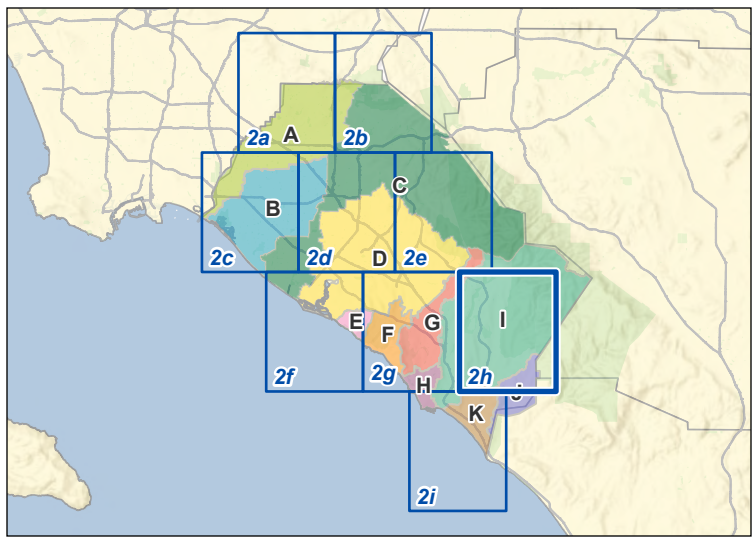
Channel Type

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Project Facilities Map

Exhibit 2h

County of Orange Long-Term Maintenance Permitting Program

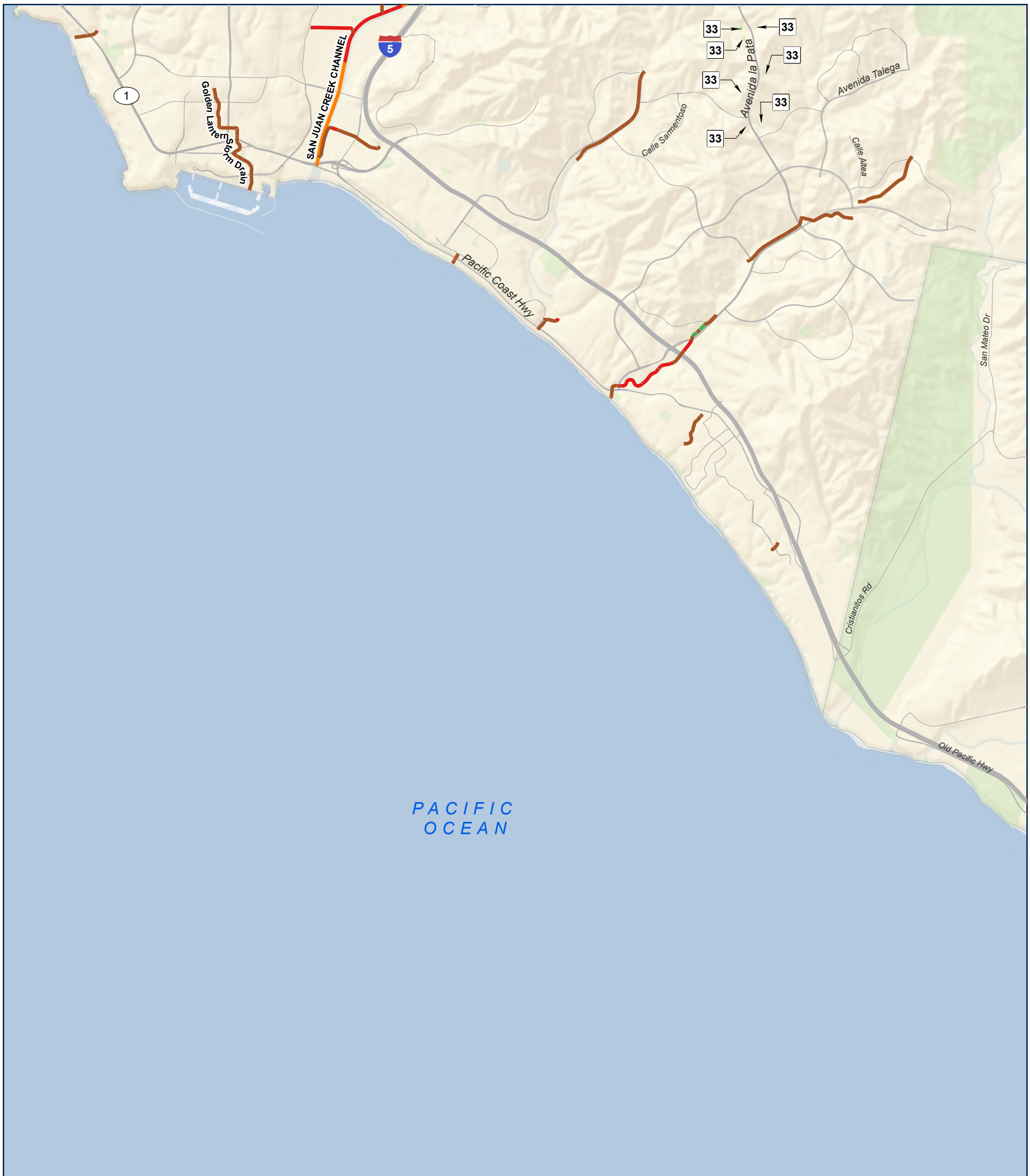
N W E S

1 0.5 0 1 Mile

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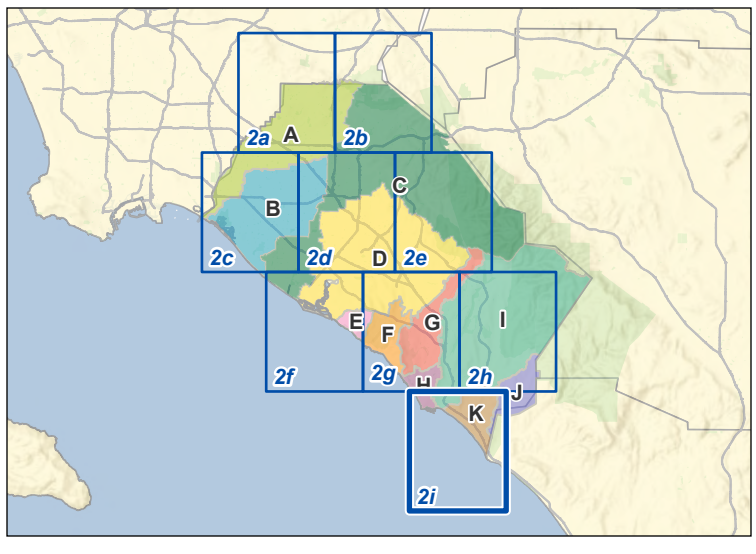
Channel Type

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- Mitigation Sites*

* Note: See Appendix C, Table C-1 Mitigation Sites for Mitigation Site Names

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- D - Newport Bay
- E - Newport Coastal
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- G - Aliso
- H - Dana Point
- I - San Juan Creek
- J - San Mateo
- K - San Clemente



Project Facilities Map

County of Orange Long-Term Maintenance Permitting Program

Exhibit 2i

N W E S

1 0.5 0 1 Mile

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waterway environment at the bridge. Bridges may be added for coverage over the life of the permit.

The County maintains a number of mitigation sites in compliance with multiple permit conditions for past project impacts. The current list of County mitigation sites is included in Appendix C, Mitigation Sites. The list includes the date the facility was constructed, total acreage, and type of vegetation community and status. Mitigation sites may be added for coverage over the life of the permit.

3.2 PROJECT SETTING

The County is bordered on the southwest by the Pacific Ocean, on the north by Los Angeles County, on the northeast by San Bernardino County and Riverside County, and on the southeast by San Diego County.

The County's sites and facilities for which it is responsible for maintenance include a wide range of stream channels that were constructed or adopted from other public and private entities. Flood control facility types generally include the following (refer to Exhibit 3a–3g, Representative Site Photographs)*:*

- Concrete box/pipe;
- Metal/steel pipe;
- Metal sheetpile channel;
- Rectangular channel with concrete sides and concrete bottom;
- Rectangular channel with concrete sides and earthen bottom;
- Trapezoidal channel with concrete sides and concrete bottom;
- Trapezoidal channel with concrete sides and earthen bottom;
- Trapezoidal channel with earthen sides and earthen bottom; and,
- Trapezoidal channel with riprap sides and earthen/ riprap bottom.
- Dams with earthen/ riprap slopes;
- Flood and debris basins;
- Natural/semi-natural channel with native bed and bank substrate
- Mitigation sites within creeks, floodplains or wetlands

The existing facilities are located throughout all 13 watersheds, which are described below:

Watershed A (San Gabriel River/Coyote Creek)

The San Gabriel River-Coyote Creek Watershed covers approximately 49.9 square miles in the northwest corner of Orange County. It includes portions of the cities of Brea, Buena Park,



Representative concrete box facility (Talbert Channel).



Representative metal sheet channel (Talbert Channel).



Representative rectangular channel with concrete sides and concrete bottom (Fountain Valley Channel).

Source: RBF Consulting 2013

Representative Site Photographs

Exhibit 3a

County of Orange Long-Term Maintenance Permitting Program

PSOMAS

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Representative rectangular channel with concrete sides and earthen bottom (Brea Creek).



Representative trapezoidal channel with concrete sides and concrete bottom (Oso Creek Channel).



Representative trapezoidal channel with concrete sides and earthen bottom (Talbert Channel).

Source: RBF Consulting 2013

Representative Site Photographs

Exhibit 3b

County of Orange Long-Term Maintenance Permitting Program

PSOMAS

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Representative trapezoidal channel with earthen sides and earthen bottom (A06, Loftus Channel).



Representative trapezoidal channel with riprap sides and earthen/concrete bottom (Santa Ana River).



Representative trapezoidal channel with riprap sides and earthen bottom (Talbert Channel).

Source: RBF Consulting 2013

Representative Site Photographs

Exhibit 3c

County of Orange Long-Term Maintenance Permitting Program

PSOMAS

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View of CO3 Anaheim-Barber concrete channel (Bridge 55C0404).



View of natural channel and Bridge 55C0175.



View of F13 Redhill Channel and Bridge 55C0574.

Source: RBF Consulting 2013

Representative Site Photographs

Exhibit 3d

County of Orange Long-Term Maintenance Permitting Program

PSOMAS

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View of EO8 Santiago Creek (Bridge 55C0039).



View looking downstream at Bridge 55C0154.



View of natural channel and masonry walls associated with Bridge 55C0176.

Source: RBF Consulting 2013

Representative Site Photographs

Exhibit 3e

County of Orange Long-Term Maintenance Permitting Program

PSOMAS

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At the Avenida La Pata On-site Mitigation Site, sediment was removed from the on-site basin that had filled with sediment to restore functioning of the basin. The source of the erosion was also repaired as part of the same effort to reduce the chance of the basin refilling with sediment in the future.



Using the excavator, staff moved the sediment around for the biological monitor to look for western spadefoot prior to the removal of sediment.



View of Site 2.2 (wetland basin) following completion of work (sediment removed). Note the basin refilled with water during the recent rain event (2/9-2/10).



Overview of work along the access road near Site 2.2 (wetland basin).

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Representative Site Photographs

Exhibit 3f

County of Orange Long-Term Maintenance Permitting Program

PSOMAS

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At the Alton Parkway On-site Mitigation Site, an active channel was cut in a braided alignment to restore hydrologic function to the mitigation site.



November 8, 2022: View of the water flows during the rain from where the channel becomes braided, looking downstream.



November 17, 2022: View from the upstream end of the channel alignment, looking downstream.

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Representative Site Photographs

Exhibit 3g

County of Orange Long-Term Maintenance Permitting Program

PSOMAS

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Fullerton, La Habra, and La Palma. Coyote Creek, its main tributary, flows from Riverside County and eventually flows into the San Gabriel River in Los Angeles County.

Watershed B (Carbon Creek)

The Carbon Creek Watershed covers approximately 25.8 square miles in the northwest portion of the County. It includes portions of the cities of Anaheim, Cypress, and Los Alamitos. Its main tributaries, Carbon Creek Channel, Fullerton Creek Channel, Moody Creek Channel, and Los Alamitos Channel, flow into Coyote Creek from Riverside County and eventually flows into the San Gabriel River in Los Angeles County. The smaller tributaries include the Orangethorpe Storm Channel, Cypress Retarding Basin, West Anaheim Storm Drain, Cypress Storm Channel, Placentia Storm Channel, Moody Creek Channel, Dairyland Storm Channel, Kempton Storm Channel, Rossmoor Storm Channel, Montecito Storm Channel, Bixby Storm Channel, Katella Storm Channel, Federal Storm Channel, and several unnamed channels.

Watershed C (Los Alamitos/East Garden Grove/Bolsa Chica)

The Los Alamitos/East Garden Grove/Bolsa Chica Watershed covers approximately 89.7 square miles in the northwest corner of Orange County. It includes portions of the City of Anaheim, Cypress, Fountain Valley, Garden Grove, Huntington Beach, Los Alamitos, Santa Ana, Seal Beach, Stanton and Westminster. Its main tributaries are Bolsa Chica Channel, East-Garden Grove Wintersburg Channel, and the Westminster Channel, all in Orange County.

Watershed D (Talbert/Greenville Banning Channel)

The Talbert/Greenville Banning Channel Watershed covers approximately 25.9 square miles. The Santa Ana River traverses the watershed in a southwestern direction and eventually flows into the Pacific Ocean. The watershed includes portions of the cities of Santa Ana, Huntington Beach, Fountain Valley, and Costa Mesa, all in Orange County.

Watershed E (Santa Ana River)

The Santa Ana River Watershed is the largest stream system in Southern California extending approximately 100 miles from its headwaters in the San Bernardino Mountains to the Pacific Ocean in Orange County. It covers over 2,650 square miles of widely varying forested, rural, and urban terrain and covers the more populated urban areas of San Bernardino, Riverside, and Orange Counties, as well as a small portion of Los Angeles County. The Santa Ana River is divided into the Upper, Middle, and Lower watersheds.

The Upper Santa Ana River Watershed includes the headwaters of the river and flows through San Bernardino and Riverside Counties. The Upper Watershed includes the Big Bear Valley, Seven Oaks Dam, as well as the cities and communities of San Bernardino, Yucaipa, Redlands, Highland, Rialto, Mentone, Colton, Grand Terrace, and Loma Linda in San Bernardino County and Beaumont and Riverside in Riverside County. The only portion of the Upper Santa Ana River Watershed where OCFCD has facilities is at Seven Oaks Dam.

The Middle Santa Ana River Watershed extends through San Bernardino and Riverside Counties. Major tributaries to the Santa Ana River in this segment include: Temescal Creek, Day Creek, San Sevaine Channel, Box Springs Channel, and Anza Channel. This portion of the watershed includes Rialto, Fontana, Ontario, and Rancho Cucamonga in San Bernardino County and the Jurupa Valley, Riverside, Norco, Chino Hills, and Corona in Riverside County. The only portion of the Middle Santa Ana River Watershed where OCFCD has facilities is at Prado Basin/Dam.

The Lower Santa Ana River Watershed covers the remainder of the watershed with approximately 210 square miles within Orange County. The Orange County portion of the watershed includes portions of the cities of Anaheim, Orange, Placentia, Santa Ana, Villa Park, and Yorba Linda. The river serves as the main tributary to the watershed with Santiago Creek being the largest tributary within Orange County.

Watershed F (San Diego Creek)

The San Diego Creek Watershed drains approximately 135.8 square miles to the Pacific Ocean within the central portion of Orange County. This watershed ultimately drains to Newport Bay. The main tributaries, include Santa Ana Delhi Channel (which flows into the far northwestern end of the Upper Newport Bay) and San Diego Creek/Peters Canyon Wash (which collectively drain into the northeastern end of Upper Newport Bay). Other main tributaries include the Santa Ana Gardens Channel, Paularino Channel, Modena-Irvine Channel, Lane Channel, Barranca Channel, Santa Ana-Santa Fe Channel, Southwest-Tustin Channel, North Tustin Channel, Red Hill Channel, San Joaquin Channel, Marshburn Channel, Bee Canyon Channel, Agua Chinon Wash Channel, Serrano Creek Channel, Borrego Canyon Channel, Central Irvine Channel, Rattle Snake Canyon Channel, Hicks Canyon Channel, East Costa Mesa Channel, and Santa Isabel Channel. The smaller on-site tributaries include Airport Storm Channel, Baker Storm Channel, Como Storm Channel, La Colina-Red Hill Channel, Armstrong Channel, Culver Storm Channel, Marshburn Retarding Basin, Orchard Estates Basin, East Foothill Channel, Hicks Canyon Retarding Basin, and several unnamed channels.

Watershed G (East Costa Mesa/Newport Beach)

The East Costa Mesa/Newport Beach watershed covers approximately 16 square miles and is in the southwestern portion of Orange County. This hydrologic watershed drains into the Newport Bay, and ultimately the Pacific Ocean. The eastern portion of Costa Mesa and Newport Beach are included in this watershed.

Watershed H (Los Trancos/Muddy Creek)

The Los Trancos/Muddy Creek Watershed covers 13.5 square miles, chiefly in the unincorporated area between Newport Beach and Laguna Beach, in Orange County. The main tributaries, Newport Coast and Muddy Creek, drain the San Joaquin Hills. This watershed also includes unnamed channels.

Watershed I (Laguna Canyon Watershed)

The Laguna Canyon Watershed is approximately 12.7 square miles and includes portions of the cities of Aliso Viejo, Laguna Beach, and Laguna Woods. It consists of the Laguna Canyon Creek watershed which runs north to south, directly through the middle of this watershed, and discharges into the Pacific Ocean in Laguna Beach, Orange County. Several other smaller watersheds, including Boat Canyon, Blue Bird Canyon, Rim Rock Canyon, and Hobo Canyon, also drain portions of these cities. This watershed is bound on the west by Emerald Canyon and on the east by the Aliso Creek watershed. The remaining undeveloped areas are largely within the Laguna Coast Wilderness Park and the Aliso and Wood Canyons Regional Park. The Laguna Coast Wilderness Park covers most of the western half of the Laguna Canyon Creek watershed, and a small portion of the Aliso and Wood Canyons Regional Park is included in the northeastern part of the watershed.

Watershed J (Aliso Creek)

The Aliso Creek Watershed covers 36.7 square miles and includes portions of the cities of Aliso Viejo, Dana Point, Laguna Hills, Laguna Niguel, Laguna Woods, Lake Forest and Mission Viejo, in Orange County. Its main tributary, Aliso Creek, originates in the Santa Ana Mountains inside the boundaries of Cleveland National Forest. Smaller tributaries include Wood Canyon, Sulphur Creek, the Aliso Hills Channel, and English Channel.

Watershed K (Salt Creek)

The Salt Creek Watershed covers approximately 7.4 square miles and is located in southern Orange County. The main tributary of the Dana Point Coastal Streams watershed is Salt Creek, which ultimately drains into the Pacific Ocean.

Watershed L (San Juan Creek)

The San Juan Creek Watershed covers 162 square miles and includes portions of the cities of Dana Point, Laguna Hills, Laguna Niguel, Mission Viejo, Rancho Santa Margarita, and San Juan Capistrano. The main drainage (San Juan Creek) and its main tributary (Trabuco Creek) originate in the Santa Ana Mountains district of the Cleveland National Forest in the easternmost part of Orange County. The smaller tributaries to San Juan Creek Channel include the Del Obispo Storm Channel, Capistrano Beach Storm Channel, Casitas Capistrano Storm Drain, Oso Creek Channel, La Paz Channel, Tijeras Creek, Live Oak Creek, Gobernadora Creek, Canada Chiquita, and Horno Creek.

Watershed M (Prima Deshecha/Segunda Deshecha)

The San Clemente Coastal Streams Watershed is approximately 38.4 square miles and includes portions of the cities of San Clemente, San Juan Capistrano, and Dana Point. Prima Deshecha is one of two main streams that flow through the watershed, ultimately discharging into the Pacific Ocean at Poche Beach. Several small, unnamed drainages, as well as larger tributaries, join Prima Deshecha as it makes its way through the watershed. The

Prima Deshecha originates near the Prima Deshecha landfill and flows along Camino de Los Mares, underneath Interstate 5 and North El Camino Real, before discharging into the Pacific Ocean at Poche Beach. The Segunda Deshecha, the second main stream draining the watershed, flows through the Talega development, along Avenido Pico, under Interstate 5 and North El Camino Real, before discharging into the Pacific Ocean at North Beach.

San Mateo Creek, a smaller stream in the watershed, outlets to the Pacific Ocean at San Onofre State Beach. San Mateo Creek is largely in unincorporated Orange County. It covers a small portion of southeastern Orange County including portions of the City of San Clemente in the downstream area. The Donna O'Neill Land Conservancy is located in the southwestern side of the watershed at Rancho Mission Viejo.

3.2.1 CHANNEL DEFINITIONS

The OC Public Works Maintenance Program is limited to maintenance activities within selected streams, multiple flood control channels, beneath existing bridges crossing over streams, at storm outlets, and within constructed flood management basins located throughout Orange County and other OCFCD facilities within its jurisdiction,[2] unless otherwise authorized separately.

To guide maintenance activities and to reduce impacts to sensitive resources, OC Public Works has defined five categories[3] of channels for maintenance work. These categories characterize channels in terms of existing conditions and provide guidance for resource protection. The channel categories are described below and summarized in Table 3-2, below.

- **Category 1 Channels**: Channels that are entirely concrete-lined (e.g., concrete bed and banks, grouted riprap, or energy dissipation structures). Category 1 Channels are expected to have no vegetation or sparse vegetation (i.e., 5% or less total vegetation cover); if sediment has deposited and vegetation has grown on top of the concrete bottom, the channel should be categorized as Category 2, 3, 4, or 5 based on the vegetation present. Category 1 Channels may include native or non-native trees (outside their concrete-lined banks) with an existing paved or unpaved access road under the canopy; trees could be trimmed to allow for access along the access road.

  Prior to maintenance activities in Category 1 Channels, the Permittee shall mark the authorized maintenance area to identify the limits of disturbance.

  Category 1 Channels are channels where baseline conditions are unvegetated or minimally vegetated; these are channels were vegetation could periodically be allowed to grow between maintenance cycles without triggering additional mitigation obligation for removal of the vegetation at a later time.

[2] The areas outside of Orange County that are associated with flood control facilities along the Santa Ana River, include facilities at Prado Basin and Seven Oaks Dam.

[3] Note that the existing Countywide permit includes four categories. Categories have been redefined to include a category specifically for channels adjacent to sensitive habitat.

- **Category 2 Channels**: Channels that have an earthen bottom and either lined or unlined banks (e.g., earth bottom channel and concrete-lined or metal sheetpile banks; earthen bottom with grouted or ungrouted riprap on the banks; or earthen bottom and earthen banks). Category 2 Channels are those with no vegetation; sparse native or non-native vegetation (i.e., 5% or less total vegetation cover); or are vegetated with a majority of non-native vegetation (more than 50% relative cover non-native). Category 2 Channels may include native or non-native trees with an existing paved or unpaved access road under the canopy; trees could be trimmed to allow for access along the access road.

  Prior to maintenance activities in Category 2 Channels, the Permittee shall mark the authorized maintenance area to identify the limits of disturbance. Category 2 Channels are expected to recover from maintenance with passive revegetation.

  Category 2 Channels are channels where baseline conditions are unvegetated or minimally vegetated; these are channels were vegetation could periodically be allowed to grow between maintenance cycles without triggering additional mitigation obligation for removal of the vegetation at a later time.

- **Category 3 Channels**: Channels that have an earthen bottom and either lined or unlined banks (e.g., earth bottom channel and concrete-lined or metal sheetpile banks; earthen bottom with grouted or ungrouted riprap on the banks; or earthen bottom and earthen banks). Category 3 Channels have more than 5% total vegetation cover and are vegetated with a majority native herbaceous or emergent vegetation (more than 50% relative cover native). Category 3 Channels may include native or non-native trees with an existing paved or unpaved access road under the canopy; trees could be trimmed to allow for access along the access road. Non-native trees greater than eight inches diameter at breast height (DBH) would be mapped, but could be removed.

  Prior to maintenance activities in Category 3 Channels, the Permittee shall mark the authorized maintenance area to identify the limits of disturbance and a Biologist shall confirm that the limits appropriately protect biological resources to be avoided by the work. Vegetation should be cut to ground level to leave the roots intact to the extent possible. Category 3 Channels are expected to recover from maintenance with passive revegetation but require a follow-up monitoring visit one year after the maintenance project is completed to confirm. If the channel has not recovered through passive restoration, then active restoration will be conducted.

- **Category 4 Channels:** Channels that would otherwise be classified as Categories 1, 2, or 3, but are within 500 feet of native woody vegetation that comprises riparian scrub/forest/woodland or coastal sage scrub habitat (see Category 5 Channels below), and require Special Conditions for work in order to avoid and minimize indirect effects on special status species. Category 4 Channels also include areas that could be used by roosting bats and areas that provide for regional wildlife movement and require Special Conditions for work as determined by a Biologist. Category 4 Channels include native trees that do not have an existing access road under the canopy within 50 feet of the work area that would require Special Conditions for tree

protection. It also includes native trees that would require substantial trimming or whose roots would be affected to accomplish the work and would require Special Conditions related to supervision of the trimming by a Certified Arborist; and/or up to five small native trees (i.e., between three inches DBH and eight inches DBH) that would need to be removed to accomplish the work, and would require Special Conditions related to planting of replacement trees. Category 4 Channels may include wildlife movement corridors.

Prior to maintenance activities in Category 4 Channels, the Permittee shall mark the authorized maintenance area to identify the limits of disturbance, and a Biologist shall confirm that the limits appropriately protect biological resources to be avoided by the work, including protective fencing of native trees (if applicable). Vegetation should be cut to ground level to leave the roots intact to the extent possible. Category 4 Channels are expected to recover from maintenance with passive revegetation, with the exception of tree replacement, which would require follow-up monitoring. A follow-up monitoring visit one year after the maintenance project is completed will be conducted to confirm that the Category 4 Channel has recovered. If the channel has not recovered through passive restoration, then active restoration will be conducted.

Some Category 4 Channels are channels where baseline conditions may be considered unvegetated or minimally vegetated; some of these are channels were vegetation could periodically be allowed to grow between maintenance cycles without triggering additional mitigation obligation for removal of the vegetation at a later time.

- **Category 5 Channels**: Channels that have an earthen bottom and either lined or unlined banks (e.g., earth bottom channel and concrete-lined or sheetpile banks; earthen bottom with grouted or ungrouted riprap on the banks; or earthen bottom and earthen banks). Category 5 Channels support native woody vegetation that comprises riparian scrub/forest/woodland or coastal sage scrub habitat. Category 5 Channels may also include native trees greater than eight inches DBH that would need to be removed to accomplish the work; native trees for removal cannot exceed 18 inches DBH, unless otherwise approved by the resource agencies. Category 5 Channels may include wildlife movement corridors.

  The amount of Category 5 vegetation (including native tree canopy) that could be removed under this permit is limited to 0.05 acre per 500 linear feet, or as otherwise approved by the resource agencies. Impacts to Category 5 vegetation must be authorized by the resource agencies in advance and requires active revegetation and monitoring of revegetation. Maintenance work that requires greater than 0.05 acre per 500 linear feet would not typically be conducted under this permit and would seek separate authorization, unless otherwise approved by the resource agencies that the work is consistent with the terms of this permit.

TABLE 3-2
CHANNEL DEFINITIONS

Channel Features	Category 1[a]	Category 2[a]	Category 3	Category 4[a]	Category 5[b]
Lining	Entirely concrete-lined (e.g., concrete bed and banks, grouted riprap, or energy dissipation structures)	Earthen bottom with either lined or unlined banks (e.g., earth bottom channel and concrete or sheetpile-lined banks; earthen bottom with grouted or ungrouted riprap on the banks; or earthen bottom and earthen banks)	Earthen bottom with either lined or unlined banks (e.g., earth bottom channel and concrete or sheetpile-lined banks; earthen bottom with grouted or ungrouted riprap on the banks; or earthen bottom and earthen banks)	See vegetation criteria	Earthen bottom with either lined or unlined banks (e.g., earth bottom channel and concrete or sheetpile-lined banks; earthen bottom with grouted or ungrouted riprap on the banks; or earthen bottom and earthen banks)
Vegetation	No vegetation or sparse vegetation (i.e., less than 5% total cover). If sediment/vegetation has deposited on top of lined bank, channel should be categorized as Category 2, 3, 4, or 5.	No vegetation; sparse native or non-native vegetation (i.e., less than 5% total vegetation cover); or vegetated with a majority of non-native vegetation (more than 50% relative cover[b] non-native)	Vegetated with a majority of native herbaceous and/or emergent vegetation (more than 50% relative cover[c] native)	Category 1–3 vegetation is elevated to Category 4 when Category 5 vegetation is present within 500 feet. Also includes habitat in areas that could be used by western pond turtles or roosting bats.	Native woody vegetation that comprises riparian scrub/forest/woodland habitat or coastal sage scrub including but not limited to mule fat scrub, willow scrub/forest, oak woodland, sycamore woodland, or alluvial sage scrub. Category 5 vegetation removed not to exceed 0.05 acre (2,175 square feet) per 500 linear feet, or as otherwise agreed to by the resource agencies.
Impacts to Trees[d]	No trees present within the work area. Native or non-native trees with an existing paved or unpaved access road under the canopy; trees could be trimmed to allow for access.	Native or non-native trees with an existing paved or unpaved access road under the canopy; trees could be trimmed to allow for access.	Native or non-native trees with an existing paved or unpaved access road under the canopy; trees could be trimmed to allow for access. An unlimited number of non-native trees within the jurisdictional area could be removed; no replacement planting	Native trees located within 50 feet of the work area that do not have an existing access road under the canopy and/or trees that would require substantial trimming or whose roots would be affected to accomplish the work. Up to five small native trees, greater than	Native trees greater than eight inches diameter at breast height (DBH) that would need to be removed to accomplish the work. Native tree(s) removed not to exceed 18 inches DBH, unless otherwise approved by the resource agencies. Total native tree canopy removed (in combination with other Category 5 vegetation) not to exceed 0.05 acre (2,175 square feet) per 500 linear feet, or as otherwise agreed to by the resource agencies.

TABLE 3-2
CHANNEL DEFINITIONS

Channel Features	Category 1[a]	Category 2[a]	Category 3	Category 4[a]	Category 5[b]
			necessary. Non-native trees greater than eight inches DBH would be mapped.	three inches DBH and less than eight inches DBH, could be removed.	
Wildlife Corridor	Local movement for urban-adapted wildlife; not a regional movement corridor	Local movement for urban-adapted wildlife; not a regional movement corridor	Local movement for wildlife; not a regional movement corridor	Local or regional movement corridor for wildlife	Local or regional movement corridor for wildlife
Temporary Impacts	Allowed	Allowed	Allowed cut herbaceous, emergent to ground level; roots should remain in place if possible. Non-native trees within jurisdiction could be removed to accomplish the work; no replacement planting necessary.	Allowed with special conditions. Up to five small native trees, each greater than three inches and less than eight inches DBH, could be removed to accomplish the work with replacement planting.	Allowed up to 0.05 acre per 500 linear feet with authorization from the resource agencies on the proposed impacts and mitigation approach; special conditions required. Impacts larger than 0.05 acre per 500 linear feet would require a separate permit authorization, unless otherwise approved by the resource agencies.
Revegetation Requirements following Temporary Impact	None	Passive revegetation; no revegetation monitoring	Passive revegetation; one-year check to confirm recovery; active revegetation monitoring only if needed after one year.	Passive revegetation; one-year check to confirm recovery; active revegetation monitoring only if needed after one year. Revegetation monitoring for planted replacement trees.	Active revegetation with restoration monitoring

TABLE 3-2
CHANNEL DEFINITIONS

Channel Features	Category 1[a]	Category 2[a]	Category 3	Category 4[a]	Category 5[b]
Permanent Impacts[e]	Allowed	Allowed with authorization from the resource agencies	Allowed with authorization from the resource agencies on proposed impact and mitigation approach Non-native trees could be removed to accomplish the work; no replacement planting necessary.	Allowed with authorization from the resource agencies on proposed impact and mitigation approach	Allowed up to 0.05 acre per 500 linear feet with authorization from the resource agencies on the proposed impacts and mitigation approach; special conditions required Impacts larger than 0.05 acre per 500 linear feet would require a separate permit authorization, unless otherwise approved by the resource agencies.
Mitigation Ratio	No mitigation needed	Temporary Impacts: No mitigation needed. Permanent Impacts: No mitigation with authorization from the resource agencies.	Temporary impacts: No mitigation needed. Permanent Adverse Impacts: 1:1 (or as otherwise approved by the resource agencies) for loss of native herbaceous and emergent vegetation. Mitigation may be at an approved mitigation bank, non-native species removal, or through off-site mitigation as described in a conceptual mitigation plan. The mitigation approach will be approved by the resource agencies.	Temporary Impacts: No mitigation needed with the exception of tree replacement requirements. Permanent Adverse Impacts: 1:1 (or as otherwise approved by the resource agencies) for loss of native herbaceous and emergent vegetation. Mitigation may be at an approved mitigation bank, non-native species removal, or through off-site mitigation as described in a conceptual mitigation plan. The mitigation approach will be	Temporary Impacts: 1:1 in situ re-establishment of the habitat. Permanent Adverse Impacts: 1:1 (or as otherwise approved by the resource agencies) for the loss of native woody vegetation. Mitigation may be at an approved mitigation bank, non-native species removal, or through off-site mitigation as described in a conceptual mitigation plan. The mitigation approach will be approved by the resource agencies. Minimum 3:1 in-kind replacement (depending on the type and structure of habitat) for the loss of mature native trees greater than eight inches DBH. Alternative mitigation approaches (e.g., non-native mitigation removal) may be considered with approval by the resource agencies. Revegetation monitoring will be conducted for three to five years.

TABLE 3-2
CHANNEL DEFINITIONS

Channel Features	Category 1[a]	Category 2[a]	Category 3	Category 4[a]	Category 5[b]
				approved by the resource agencies. Minimum 2:1 in-kind replacement for the loss of small native trees (i.e., greater than three inches DBH and less than eight inches DBH).	

[a] Category 1, Category 2, and some Category 4 Channels are channels where baseline conditions are unvegetated or minimally vegetated; these are channels where vegetation could periodically be allowed to grow between maintenance cycles without triggering additional mitigation obligation for removal of the vegetation at a later time (including removal of limited woody vegetation such as mule fat [*Baccharis salicifolia salicifolia*] and willow [*Salix* spp.] seedlings/saplings).

[b] Minimum mapping unit for Category 5 vegetation is 10 linear feet along channel or 100 square feet. Minimum mapping unit for other categories of vegetation is flexible to site conditions and should be stated in biological survey methods.

[c] Relative cover is the cover of a particular species as a percentage of total plant cover. Relative cover will always tally up to 100%, even when total cover is low.

[d] Trees are defined as having a single trunk with a diameter at breast height (DBH) of 3 inches or greater or a multiple trunk tree with a combined DBH of the largest two trunks.

[e] Permanent impacts include those where riprap or structures would be placed in the bed or on the banks.

3.3 PROJECT DESCRIPTION

OC Public Works conducts routine maintenance activities within OCFCD right-of-way throughout the 13 watersheds. Maintenance activities would be performed on an as needed basis and would include channel and basin/dam maintenance (e.g., cleaning, silt removal, slope maintenance/repair); landscape maintenance and vegetation control/removal; insect/rodent control; rip-rap installation and repair; structural inspection/cleaning; installation of storm drain pipes and underdrains; fabrication and installation of headwalls; removal/replacement of concrete lining; and the repair and backfill of washouts and slope failures. Refer to Table 3-3, Proposed Flood Control Maintenance Activities, for a detailed description of all proposed maintenance activities and required equipment. Table 3-3 indicates whether the type of work would or would not be included within the Annual Work Plan reviewed by the resource agencies. A "Y – Yes" on Table 3-3 indicates that the action is non-reporting (i.e., is not included in the Annual Work Plan), while an "N – No" indicates that inclusion in the Annual Work Plan is required for the action to be completed.

The majority of work authorized through the Annual Work Plan would continue to be maintenance to existing baseline/as-built conditions of covered facilities. Any changes to as-built conditions would be presented for authorization to resource agencies through the Annual Work Plan approval process. Changes to as-built conditions with environmental impacts will have mitigation agreed upon during the Annual Work Plan process prior to any work being conducted. OC Public Works Bridge Maintenance proposes routine maintenance activities for existing County bridge facilities. Maintenance activities would include bridge concrete repair, cleaning and painting of bridge steel, and restoration of bridge scour protection measures. Refer to the following Table 3-4, Proposed Bridge Maintenance Activities, for a detailed description of each maintenance activities.

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
1	Pre-Emergent Weed Control	Application of herbicides to control growth of unwanted vegetation on flood control property.	Spray Truck, Spray Tank, All-Terrain Vehicle (ATV), and Trailer	Performed annually from early Fall to late Spring following a predetermined plan. Spraying is conducted from right-of-way to right-of-way.	Y	Y	Y	Y[a]	Y[a]
2	Weed Control	Application of herbicides to control unwanted vegetation on flood control properties.	Spray Truck, Spray Tank, ATV, and Trailer	Spray year round to eliminate or control weeds not killed by pre-emergent spraying. Generally, spray 4–6 times per year.	Y	Y	Y	Y[a]	Y[a]
3	Manual Removal of Invasive Species (including *Arundo*)	Cutting, chipping, and removal of invasive species (including *Arundo)*. This activity is performed to remove unwanted vegetation from County right-of-ways and flood management channels.	Chipper Truck, Chipper, Trash Compactor, and Hand tools	Remove as directed.	Y	Y	Y	Y[a]	Y[a]
4	Invasive Species Treatment (including *Arundo)*	Application of herbicides to control invasive vegetation on flood control properties.	Spray Truck, Spray Tank, ATV and Trailer, Backpack sprayer	Spray two to five times per year to eliminate or control *Arundo*. During the months of February through August, a biologist is required to monitor bird nesting activity.	Y	Y	Y	Y[a]	Y[a]

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
5	Rodent Control	Control of rodents in flood right-of-way by the use of toxicants or fumigation to prevent erosion problems, and public and safety hazards.	Pickup Truck, ATV, and Trailer	All channels would follow a pre-determined plan from scheduling.	Y	Y	Y	Y[a]	Y[a]
6	Insect Control	Application of Insecticides to control insects on flood control properties, roadway right-of-way, contract cities, and county parks.	Spray truck or backpack sprayer and a Bee Suit	Spray as needed for public safety or to protect landscape plants.	Y	Y	Y	Y[a]	Y[a]
7	General Fence Maintenance	Inspection and general repair of fences to ensure control of access to flood channels.	Fence Truck and Welder	Performed on a routine basis.	Y	Y	Y	Y[a]	Y[a]
8	Channel Cleaning	General maintenance cleaning consists of work necessary to maintain channel flow and permit access of maintenance vehicles and personnel. Work includes the removal of trash, debris, obstructions, and silt from the channel; trimming and clearing of vegetation along the vehicular and pedestrian access roads; and the removal of vegetation from channel slopes and inverts.	Inmate Crew Truck, Dump Truck, Trash Compactor Truck, Chipper, and Chipper Truck	Completed whenever location prohibits use of equipment and work needed to restore facility to operating capacity and/or acceptable appearance.	Y	Y	Y	Y[a]	Y[a]

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
9	Graffiti Pressure Wash	Removal of vandalized markings on fences, flood management channel walls, and traffic signs with a steam cleaner.	Utility Truck and Steam Cleaner	Performed per request from Graffiti Hotline and County Inspection staff.	Y	Y	Y	Y[a]	Y[a]
10	Graffiti Paint/Spray	Removal of vandalized markings on fences, flood management channel walls, and signs on County flood control facilities.	Utility Truck and Steam Cleaner	Performed per request from Graffiti Hotline and County Inspection staff.	Y	Y	Y	Y[a]	Y[a]
11	Graffiti Hand Roll	Painting over of vandalized markings on fences, flood management channel walls and signs on County flood control facilities using a hand roller.	Utility Truck and Van with Toilet	Performed per request from Graffiti Hotline and County Inspection staff.	Y	Y	Y	Y[a]	Y[a]
12	Flap Gate Inspection/ Maintenance	Inspection and maintenance of flap gates includes identifying repairs on gates and performance of repairs or complete gate replacement.	Utility Truck	Flap gates would be inspected and serviced annually.	Y	Y	Y	Y[a]	Y[a]
13	Maintain Pump Stations	The maintenance of mechanical, electrical, and other aspects of pumps and/or pump station facilities to ensure proper functioning of these drainage systems.	Utility Truck	Periodic cleaning and debris removal are required. Pumps are serviced and overhauled, as required, to provide peak efficiency.	Y	Y	Y	Y[a]	Y[a]

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
14	Operate Pump Stations	The operation and inspection of pump stations would be conducted to ensure the operation and control of these facilities. Includes work during storm situations.	Utility Truck	Operation would be initialized after moderate rainfall. Manual control of the system would be required to completely empty the basin.	Y	Y	Y	Y	Y
15	Pump Station Cleaning	The manual cleaning of pump station wet wells and grates would be conducted to ensure that the pumps are functioning at full capacity.	Utility, Crew Truck, Dump Truck, and Trash Compactor	Pump stations are checked and cleaned annually. Recurring problem pump stations are checked and would be cleaned (as required) after storm events.	Y	Y	Y	Y[a]	Y[a]
16	Pump Station Cleaning Sump (via Vacuum Truck)	The pump stations would be cleaned to ensure that the pumps are functioning at full capacity.	Vacuum Truck	Pump stations are checked and cleaned annually. Recurring problem pump stations are checked and would be cleaned (as required) after storm events.	Y	Y	Y	Y[a]	Y[a]
17	Pump Station Inspection	Inspection of pump stations would be conducted to ensure the proper working condition and a safe environment.	Utility Truck	Work would be performed weekly.	Y	Y	Y	Y	Y

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
18	Inspect/Maintain Diversions	Routine inspections and the maintenance of diversions in on-site channels.	Utility Truck	Inspections are performed routinely, and the maintenance would be performed, on an as-needed basis.	Y	Y	Y	Y	Y
19	Dam Operations and Maintenance	Proper operations and maintenance of the County's dams, which would include gate operation, service and cleaning of equipment, instrumentation checks, and periodic inspections.	Pickup and Utility Truck	Operations and Maintenance would be performed routinely and on an as-needed basis.	Y	Y	Y	Y	Y
20	Clean Drains (via vacuum truck)	The cleaning of drainage inlets, pipes, down drains, and storm drainage lines with a vacuum truck to ensure the drainage system is functioning at full capacity. This activity excludes maintenance yard drains.	Vacuum Truck, Oxygen Meter, and Pickup with Arrowboard	Drains are checked and would be cleaned in accordance with an annual plan. Recurring problem drains are checked and cleaned, as needed after storm events.	Y	Y	Y	Y[a]	Y[a]
21	Install or Repair Storm Drain Pipe for Flood Alleviation	The installation or repair of pipe would be conducted to provide drainage for flood management purposes.	Backhoe, Dump truck with Trailer, Air Compressor, Flatbed Truck, Mixer, and Excavator	Replace (or repair) pipe where flow is restricted and/or the pipe is damaged and is not functioning as designed, creating a drainage problem.	Y	Y	N	N	N

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
22	Fabricate and Install or Repair Headwalls	The repair of pipe headwalls to provide drainage for park, flood, and roadway right-of- way.	Backhoe, Dump truck with Trailer, Air Compressor, Flatbed Truck, Mixer, and Concrete Saw	Fabrication and installation of headwalls in order to provide adequate drainage. Replace (or repair) pipe headwalls where flow is restricted and/or is damaged and is not functioning as designed, creating a drainage problem.	Y	Y	N	N	N
23	Install Underdrain	The installation of an underground drainage system to provide effective subsurface ground water control.	Back hoe, Haul Truck with Trailer, Haul Truck, Construction Crew Truck, Air Compressor, Flatbed Truck, Mixer, and Concrete Saw	Installation of underdrain when persistent surface and subsurface ground water is damaging County facilities or creating a hazard.	Y	Y	N	N	N
24	Remove/Repair/Replace Concrete Lining	Repair of concrete channel lining would be conducted to restore damaged channel lining per County standards.	Dump Truck, Bobcat, Backhoe, Compressor, Excavator and Concrete Saw	This work would be performed as needed. Repair or replacement lining and reinforcement of steel would be conducted.	Y	Y	N	N	N

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
25	Vault Cleaning	The cleaning of sub drain vaults to allow the system to fully operate. The intent of the system is to assist in the removal of the hydrostatic pressure on concrete slopes, walls, toeline, and the bottom of the channels. This task includes both an annual inspection and routine maintenance.	Vacuum Truck, Pick up with Wench, and Oxygen Meter. Underground Crew- Safety gear	Inspect annually and clean 1/3 of all vaults located on-site each year.	Y	Y	Y	Y[a]	Y[a]
26	Concrete Channel Silt Removal- Loader	Mechanical removal of silt and debris from channel bottom to provide for normal flow of water. This activity applies to silt and debris removal from the bottom of a concrete channel with a large loader and may include stockpiling debris removed until dry.	Tender Truck, Dump Truck, and Large Loader	Normally conducted from April to October but can be performed throughout the year. Performed when the capacity of a channel is impaired, or adjacent drainage structures are restricted.	Y	Y	N	N	N

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
27	Concrete Channel Silt Removal- Bobcat	Mechanical removal of silt and debris from channel bottom to provide for normal flow of water. This activity applies to silt and debris removal from a concrete channel with a Bobcat or skip loader and may include stockpiling debris removed until dry.	Tender Truck, Dump Truck, Bobcat/Skip Loader, Mobile Crane, and Trailer	Normally conducted from April to October but can be performed throughout the year. Performed when the capacity of a channel is impaired, or adjacent drainage structures are restricted.	Y	Y	N	N	N
28	Dirt Channel Silt Removal	Mechanical removal of silt, vegetation, and/or debris that has been removed and stockpiled to restore dirt channels and roadways, and to provide proper flow of water.	Tender Truck, Dump Trucks, Crane, Excavator, and Dozer	Stockpiled materials have drained sufficiently to allow loading and hauling.	Y	Y	N	N	N
29	Compact Channel Slope	Provide soil or rock compaction (into slope) to inhibit subsequent erosion.	Crane, Excavator, Tender Truck, and Badger	Slopes should be compacted whenever major repairs occur and earth is imported to provide a base for the final invert surface.	Y	Y	N	N	N
30	Back Fill/Repair Washout	The in-kind repair and/or back fill of washouts would be conducted to stabilize slopes or hinder water flow.	Backhoe, Dump Truck, Crane, Equipment Trailer, and Tender	This work would be performed as needed. High priority would be given to concrete or asphalt structures that require backfill for stabilization.	Y	Y	N	N	N

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
31	Slope Repair/Rip Rap Preparation	Mechanical removal of dirt from channel slopes and channel bottom in preparation for riprap lining installation in order to restore design cross section. Repair and replace damaged concrete lining, compact channel slope (provide soil or rock compaction into slope in order to inhibit subsequent erosion. Slopes should be compacted to provide a base for the final invert surface).	Tender Truck, Crane, Excavator, and Dump Trucks	This work would be performed as needed for structures that require stabilization. Performed when erosion is (a) undermining adjacent property, (b) creating a turbulence problem, and/or (c) undercutting drainage structures or access roads. Reoccurring problems are candidates for rock installation.	Y	Y	N	N	N
32	Install Rip Rap	The installation of rock riprap on channel slopes would be conducted in order to stabilize channel slopes and prevent erosion. Preparation of slopes prior to riprap installation, new riprap placement.	Tender Truck, Dump Trucks, Crane/Excavator, and Dozer	This work would be performed as needed for structures that require stabilization. The installation of riprap would be performed to protect slopes that have experienced past slope erosion.	Y	Y	N	N	N

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
33	Aggregate-Base (AB) Maintain Levee	Prepare roadway and plate AB and compact with rubber tire roller to increase the channel roadways to all weather facilities. This activity also includes placement of AB to maintenance of channels.	Tender Truck, Dump Trucks, Rubber T Roller, and Motor Grader	Performed under direction of engineer to provide maintenance access.	Y	Y	N	N	N
34	Tractor Removal of *Arundo*	Removal of *Arundo* would be conducted using excavators. A large loader with a clam bucket would be utilized to stockpile material at a processing area and a water truck would be utilized for dust and fire control.	Excavator, Large Loader, Water Truck, Tender Truck, Off Road Truck, and Crew	*Arundo* would be removed if required as mitigation.	Y	Y	N	N	N
35	Manual Cleaning/ Inspection of Drains	The inspection and manual cleaning of drainage inlets, pipes, down drains, and storm drainage lines would be conducted to ensure that the drainage system is functioning at full capacity. This activity excludes maintenance yard drains.	Stakebed/Crew cab, Oxygen Meter, and Mini Vac, Vacuum Truck	Drains are manually checked and cleaned. Recurring problem drains are checked and cleaned (as necessary) after storm events.	Y	Y	Y	Y[a]	Y[a]

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
36	Landscape Maintenance	Maintenance of County-landscaped areas including ground cover, trees, and shrubs often in undeveloped areas. This work effort includes the removal of trash, elimination of right-of-way encroachment, and provides security clearance in flood channels and right-of-ways.	Road Truck, Inmate and Contract Crews	This work would be performed as needed, generally outside of the bird nesting season.	Y	Y	Y	Y[a]	Y[a]
37	Right-of-Way Pruning	Trim and prune trees and shrubs to provide equipment access and provide right-of-way clearance.	Road Truck, Inmate and Contract Crews	This work would be performed as needed, generally outside of the bird nesting season.	Y	Y	Y	Y[a]	Y[a]
38	Annual Division of Safety of Dams (DSOD) Inspection	Inspection and maintenance of dams	Utility Truck	Annual DSOD Inspection.	Y	Y	Y	Y	Y
39	Annual DSOD Repairs	Vegetation removal, erosion repairs, sediment removal	Excavator, Large Loader, and Off-Road Water Truck	Performed as recommended by DSOD Inspection	Y	Y	N	N	N

TABLE 3-3
PROPOSED FLOOD CONTROL MAINTENANCE ACTIVITIES

	Maintenance Type	Maintenance Description	Equipment Needed	Timing	Non-Reporting (Allowed outside of nesting season or during the nesting season following pre-activity nesting survey)				
					Category 1	Category 2	Category 3	Category 4	Category 5
40	Repair concrete structure damage below deck level	Pressure-Epoxy-Inject Cracks— below deck or on side of bridge	Air compressor, air & high-pressure water guns, Epoxy gun, variable reach forklift, boom lifts	Performed as recommended by inspection reports or Orange County Public Works bridge maintenance staff.	Y	Y	Y	Y[a]	Y[a]

Y – Yes, this maintenance activity can be performed without including it in the Annual Work Plan of activities to be conducted in the upcoming year and does not need to be included in the Annual Report of activities conducted over the year. A pre-activity nesting bird survey is required during the nesting season.

Y[a] – Yes, this maintenance activity can be performed without including it in the Annual Work Plan of activities to be conducted in the upcoming year, and does not need to be included in the Annual Report of activities conducted over the year. However, in addition to the pre-activity nesting bird survey, a Biological Monitor may be required during the maintenance work as determined by a Biologist based on the results of their survey.

N – No, this maintenance activity cannot be performed without including it in the Annual Work Plan of activities to be conducted in the upcoming year; it needs to be included in the Annual Work Plan and the Annual Report of activities conducted over the year.

TABLE 3-4
PROPOSED BRIDGE MAINTENANCE ACTIVITIES

	Maintenance type	Maintenance Description	Equipment needed	Performance criteria	Pre-authorized (* Allowed outside of nesting season or following survey)				
					1	2	3	4	5
1	Graffiti Paint/Spray	Removal of vandalized markings on fences, walls, and traffic signals in the road right of way	Utility Truck	Performed per request from Graffiti Hotline and County Inspection staff (e.g., signs, controllers boxes, lights, posts, etc.).	Y	Y	Y	Y[a]	Y[a]
2	Graffiti Hand Roll	Painting over vandalized markings on fences, walls, and traffic signals in County right of way using a hand roller	Utility Truck	Performed per request from Graffiti Hotline and County Inspection staff (e.g., signs, controllers boxes, lights, posts, etc.).	Y	Y	Y	Y[a]	Y[a]
3	Repair concrete structure damage below deck level	Pressure-Epoxy-Inject Cracks — below deck or on side of bridge	Air compressor, air & high-pressure water spray guns, Epoxy pressure-grout gun	Performed as recommended by Caltrans Bridge Inspection Reports or OC Public Works Bridge Maintenance staff	Y	Y	Y	Y[a]	Y[a]
4	Repair concrete structure damage below deck level	Remove & replace unsound or spalled concrete — below deck level (temp. support required)	Air compressor, air, sandblast & high-pressure water spray guns, generator, man-lift (access-permitting), concrete saw, chipping gun, towable concrete pump, ready-mix truck, or drum mixer		Y	Y	Y	Y[a]	Y[a]
5	Repair concrete structure damage below deck level	Remove & replace unsound or spalled concrete — below deck level (temp. support required)	Air compressor, air, sandblast & high-pressure water spray guns, generator, man-lift (access-permitting), concrete saw, chipping gun, towable concrete pump, ready-mix truck or drum mixer, and temporary support system consisting of heavy timber or steel posts on timber cribbing and steel or wood cross-members	Performed as recommended by Caltrans Bridge Inspection Reports or OC Public Works Bridge Maintenance staff	Y	Y	Y	Y[a]	Y[a]

TABLE 3-4
PROPOSED BRIDGE MAINTENANCE ACTIVITIES

	Maintenance type	Maintenance Description	Equipment needed	Performance criteria	Pre-authorized (* Allowed outside of nesting season or following survey)				
					1	2	3	4	5
6	Clean & paint bridge steel (above and/or below deck level)	Clean and paint steel girders — above or below deck	Air compressor, air & sandblast guns, man-lift (access-permitting), light scaffold, paint gun, tarps	Performed as recommended by Caltrans Bridge Inspection Reports or OC Public Works Bridge Maintenance staff	Y	Y	Y	Y[a]	Y[a]
7	Restore scour protection measures at bridge	Slurry-fill scour recesses and restore eroded invert with grouted riprap	Bobcat or loader, dump truck, ready-mix truck, towable concrete pump		Y	Y	N	N	N
8	Restore scour protection measures at bridge	Slurry-fill scour recesses and restore eroded invert with ungrouted riprap	Bobcat or loader, dump truck, ready-mix truck, towable concrete pump		Y	Y	N	N	N
9	Restore scour protection measures at bridge	Slurry-fill scour recesses and restore eroded invert with concrete invert (including cutoff walls) extending to limits of bridge wingwalls, and grouted or ungrouted riprap aprons upstream and downstream	Bobcat or loader, dump truck, ready-mix truck, towable concrete pump		Y	Y	N	N	N

Y – Yes, this maintenance activity can be performed without including it in the Annual Work Plan of activities to be conducted in the upcoming year and does not need to be included in the Annual Report of activities conducted over the year. A pre-activity nesting bird survey is required during the nesting season.

Y[a] – Yes, this maintenance activity can be performed without including it in the Annual Work Plan of activities to be conducted in the upcoming year, and does not need to be included in the Annual Report of activities conducted over the year. However, in addition to the pre-activity nesting bird survey, a Biological Monitor may be required during the maintenance work as determined by a Biologist based on the results of their survey.

N – No, this maintenance activity cannot be performed without including it in the Annual Work Plan of activities to be conducted in the upcoming year; it needs to be included in the Annual Work Plan and the Annual Report of activities conducted over the year.

In order to continue to implement the proposed maintenance activities, OCFCD, with the assistance of OC Public Works, proposes to renew the following regulatory agency approvals:

- Regional General Permit from the USACE for coverage under Section 404 of the federal Clean Water Act (CWA);
- Long-Term Streambed Alteration Agreement for Routine Maintenance from the CDFW for coverage under Section 1602 of the California Fish and Game Code;
- Water Quality Standards Certification from the State Water Resources Control Board (SWRCB), along with coordination with the Santa Ana and San Diego RWQCBs, for coverage under Section 401 of the federal CWA; and

Separate permits will be sought from the California Coastal Commission when needed.

3.3.1 CONSTRUCTION

All haul/service routes would be designated along each channel's existing paved service roads (situated outside of the drainage channel). All sediment/debris created during maintenance would be hauled to an approved County facility (e.g., stockyard or landfill). Wet sediment would be left in an approved stockpile site or an OCFCD parcel to dry out (outside of jurisdictional areas and prior to transport) using the appropriate Best Management Practices (BMPs).

All activities and staging would be done within the existing OCFCD facilities (or within the limits of prescriptive rights road right-of-way, using a temporary construction easement, where the County lacks an official right-of-way easement) using appropriate BMPs per the State General Construction Permit and Santa Ana and San Diego Regional Water Quality Control Boards (RWQCBs) Municipal Separate Storm Sewer System (MS4) Permits. For some bridge maintenance, such as scour repairs, the work area may extend into temporary construction easements immediately adjacent to the roadway right-of-way. Per the County's Operations Manual, each area of staging would be sited as close as possible to the maintenance activity in order to maximize efficiency.

Project Phasing

Proposed maintenance activities would occur on an as-needed basis throughout the existing on-site facilities similar to present day.

3.3.2 PERMITTING AGENCIES

The County and other applicable agency approvals required for development of the project would include the following, among others:

- Orange County Board of Supervisors, acting as the Board of the OCFCD;
- CDFW 1602 Streambed Alteration Agreement;
- USACE 404 Regional General Permit;

- SWRCB 401 Water Quality Standards Certification;
- California Coastal Commission Coastal Development Permit;
- Orange County Board of Supervisors approval and authorization to advertise projects for bids (as needed); and
- Orange County Board of Supervisors approval to award construction contracts.

3.4 MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

Standard and Special Conditions are proposed by Orange County Public Works (OCPW) to avoid and minimize impacts to sensitive resources. Standard Conditions are required for all channels (Categories 1 through 5) and Special Conditions are required for Category 4 and 5 Channels. The Standard Conditions and Special Conditions are included as Appendix D in the Revegetation and Monitoring Plan (RMP).

Both Standard Conditions and Special Conditions are required as part of the Countywide permit. OCPW intends to implement the Standard Conditions and Special Conditions as part of the Project and adherence to these requirements, as applicable, will be verified by the appropriate regulatory agency. The Standard Conditions and Special Conditions are not considered mitigation measures, as they were not intended to mitigate an impact, but rather be implemented as avoidance and minimization measures. As such, the Standard Conditions and Special Conditions are referred to as permit conditions in the analysis below.

3.5 SUGGESTED MITIGATION RATIOS FOR ENVIRONMENTAL IMPACTS AND COMMON SCENARIOS

The County proposes passive restoration for temporary impacts on Category 2, 3, and 4 channels, with the exception of small trees that would require replanting and follow-up monitoring. As described in the RMP, a follow-up monitoring visit would be conducted for work conducted in Category 3 and 4 channels approximately one year following the maintenance activities; if the channels have not recovered passively, active revegetation will be conducted. Follow-up monitoring would not be required for channels that were considered Category 1 or 2 (and Category 4 that were unvegetated/minimally vegetated) at baseline.

Permanent impacts would be considered on a case-by-case basis and would only be allowed if approved by the resource agencies to be covered under the Countywide permit. The mitigation approach would be presented with the proposed maintenance project within the Annual Work Plan; the mitigation approach would be one of the approaches described in the RMP.

Mitigation ratios for each Channel Category are summarized in Table 3-2 above.

3.6 REQUESTED PROJECT ENTITLEMENTS

This Addendum No. 1, in conjunction with IS/MND No. IP 11-444, is intended to serve as the primary environmental document for all future actions associated with the Modified Project, including all non-discretionary approvals requested or required to implement the modified project. In addition, this Addendum No. 1 is the primary reference document for the formulation and implementation of a mitigation monitoring program for the Project, as amended. A Mitigation Monitoring and Reporting Program (MMRP) was adopted in connection with IS/MND No. IP 11-444. Mitigation measures (**MM**) in the MMRP have been reviewed and modified to address the Modified Project. This document is intended to provide sufficient information to allow permitting agencies to evaluate the potential impacts from implementation of the Modified Project.

Potential actions to be considered as part of the request to amend existing entitlements for the previously approved project include the following:

- Renewal of the County-Wide Long-Term Routine Maintenance Permit

3.7 APPROVED PROJECT COMPARED TO MODIFIED PROJECT

The Modified Project is consistent with the items and actions proposed in IS/MND No. IP 11-444, which analyzed the Project; however, the Modified Project proposes additional maintenance activities that were not previously analyzed or permitted in IS/MND No. IP 11-444. The Modified Project includes additional maintenance activities that were not specifically identified for the Project, including:

- Maintenance work to structures adjacent to sensitive habitats with the implementation of standardized avoidance and minimization measures;
- Limited impacts, not to exceed 0.05 acre per 500 linear feet, or as otherwise negotiated with the resource agencies, to sensitive habitats with the implementation of appropriate mitigation;
- Maintenance work at the County's long-term mitigation sites, within previously analyzed watersheds, needed to maintain or improve the habitat conditions at the mitigation sites;
- Maintenance work at County facilities located outside the County of Orange (i.e., facilities at Prado Basin and Seven Oaks Dam); and
- Improvements to channels that may deviate from the as-built condition, either:
    - with the intent that improvements would be beneficial to the environment, resulting in no loss of ecological functions and values. With resource agency approval, these types of improvements may not require additional mitigation as they would be considered self-mitigating through their ecological benefits, or:

- resulting in a permanent change to the channel, such as the installation of riprap to combat highly erosive, bare earthen slopes. These changes may or may not require mitigation depending upon the condition of the existing channel and the extent of permanent change, including potential water quality improvements and retention of existing ecological features.

4.0 ENVIRONMENTAL ANALYSIS

This section of the Addendum No. 1 examines each environmental topical issue analyzed in IS/MND No. IP 11-444 specific to the Modified Project. The Addendum No. 1 includes additional areas of analysis, including analysis of impacts to energy, tribal cultural resources, and wildfire hazards, pursuant to the current applicable State CEQA Guidelines (2024). An addendum to a CEQA document is intended to demonstrate that the modifications/alterations to the previously approved project would not substantially increase environmental impacts or create any new significant impacts. The following analysis documents why and how this conclusion has been made. The focus of this Addendum No. 1 is to evaluate the potential for changes in the impacts as a result of modifications to the permit, detailed in Section 3.7, Project Compared to the Modified Project.

This evaluation includes a determination as to whether the changes proposed for the Modified Project site would result in any new significant impacts or a substantial increase in a previously identified significant impact.

The topical areas identified in the CEQA Environmental Checklist (Checklist) were used as guidance for this Addendum No. 1. For each section, brief summaries of the findings of IS/MND No. IP 11-444 are provided. This comparative analysis provides the County with the factual basis for determining if any changes in the Project, any changes in circumstances, or any new information since IS/MND No. IP 11-444 was approved that require additional environmental review or preparation of a subsequent or supplemental EIR.

4.1 AESTHETICS

4.1.1 SUMMARY OF PREVIOUS ENVIRONMENTAL ANALYSIS

County-Wide Long-Term Routine Maintenance Permitting Program Initial Study/Mitigated Negative Declaration No. IP 11-444

As set forth in IS/MND No. IP 11-444, the Project would not have an adverse effect on a scenic vista, nor would it damage scenic resources. It was determined that, although the existing on-site flood control facilities may be located within the viewshed of a designated scenic vista, the maintenance activities are generally considered minor and would only take place within the existing OCFCD/OCPW rights-of-way and no facility would be constructed or expanded. Additionally, although it was determined that the maintenance activities may be visible from eligible and official scenic highways throughout the County, the activities would be temporary and generally minor. Therefore, implementation of the Project would not substantially damage scenic resources within a State scenic highway. It was also determined that the existing visual character may be temporarily altered during maintenance activities; however, impacts would be short-term and would cease upon completion, thus resulting in a less than significant impact related to the visual character of the site and its surroundings. Implementation of the Project would not add additional sources of light or glare and

therefore would result in no impact pertaining to light or glare. No mitigation measures related to aesthetics were identified in IS/MND No. IP 11-444 for the Project.

4.1.2 PROJECT ENVIRONMENTAL REVIEW

Would the project:

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

No Subsequent Analysis Required. No significant impacts to scenic vistas were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features located throughout Riverside County include the Prado Basin Dikes, Dam, and Spillway, and within San Bernardino County include the Seven Oaks Dam facility. Although the existing on-site flood control facilities may be located within the viewshed of a designated scenic vista, the maintenance activities are generally considered minor and would only take place within the existing OCFCD/OCPW rights-of-way and no new facilities would be constructed or expanded. Therefore, the Project impact would continue to be negligible and would not result in adverse impacts on scenic vistas. Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway or local scenic expressway, scenic highway, or eligible scenic highway?

No Subsequent Analysis Required. No significant impacts to scenic resources within a State Scenic Highway were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. As stated above, these additional flood control features located throughout Riverside County include the Prado Basin Dikes, Dam, and Spillway and within San Bernardino County include the Seven Oaks Dam facility. Although the maintenance activities may be visible from eligible and official scenic highways throughout Orange, Riverside, and San Bernardino Counties, the activities would be temporary and generally minor in nature. Project development would not significantly affect scenic resources as observed from any of those scenic highways. The Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Subsequent Analysis Required. No significant impacts to the existing visual character or quality of public views of the site and its surroundings were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. As stated above, these additional flood control features located throughout Riverside County include the Prado Basin Dikes, Dam, and Spillway and within San Bernardino County include the Seven Oaks Dam facility. Although the existing visual character may be temporarily altered during maintenance activities, impacts would be short-term and would cease upon completion. Therefore, consistent with the Approved Project, the Modified Project would result in a less than significant impact related to the visual character of the site and its surroundings. Thus, the Modified Project development would not substantially degrade the existing visual character of the site or surroundings compared to the Approved Project as analyzed in IS/MND No. IP 11-444. Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

No Subsequent Analysis Required. No significant impacts related to substantial light or glare which would adversely affect day or nighttime views in the area were identified in IS/MND No. IP 11-444. The Modified Project would not include additional sources of light and glare for the routine maintenance activities. If temporary lighting is required, the Modified Project would be required to comply with the applicable Orange County, Riverside County, and San Bernardino County lighting ordinance requirements. As such, the Modified Project development would not adversely affect daytime or nighttime views in the area due to light or glare compared to the Project as analyzed in IS/MND No. IP 11-444. Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project are consistent with the impacts identified for the Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the aesthetics analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation measures were required for aesthetics impacts in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.2 AGRICULTURE AND FORESTRY RESOURCES

4.2.1 SUMMARY OF PREVIOUS ENVIRONMENTAL ANALYSIS

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

As discussed in IS/MND No. IP 11-444 for the Project, maintenance activities would be located within existing County rights-of-way utilized for flood control purposes and is not designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (DLRP 2024). Therefore, the Project would have no impact related to the conversion of farmland to non-agricultural use. It was determined that the project sites are not under Williamson Act contract or zoned for agricultural use, nor are they designated for forest land use, timberland, or timberland zoned Timberland Production; therefore, resulting in no impact related to these thresholds. It was also determined that, although the proposed maintenance activities may include necessary tree trimming along riparian habitat that adjoins the existing flood control rights-of-way, it would occur within the existing channels thus resulting in a minimal loss of potential forest land and a less than significant impact finding. No mitigation measures related to agriculture and forestry resources were identified for the Project.

4.2.2 PROJECT ENVIRONMENTAL REVIEW

Would the project:

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

No Subsequent Analysis Required. No significant impacts to farmland were identified in IS/MND No. IP 11-444, and the additional maintenance activities would occur primarily within the same areas discussed in IS/MND, which were not designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. A few areas within the County's right-of-way within Riverside County and San Bernardino County were not previously analyzed under IS/MND, and include Prado Basin Dikes, Dam and Spillway and Seven Oaks Dam. Portions of the Prado Basin facilities are located within areas identified as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. No farmland is located within the Seven Oaks dam facility (DOC 2024a). However, although maintenance activities may be located on areas identified as farmland within Riverside County, the activities would be conducted on existing flood control facilities and are temporary and generally minor in

nature. Therefore, the implementation of the Modified Project would not result in conversion of farmland to non-agricultural uses. Consistent with the findings of IS/MND No. IP 11-444, the Modified Project development would not impact mapped important farmland. No subsequent analysis is required.

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Subsequent Analysis Required. No significant impacts to farmland were identified in IS/MND No. IP 11-444, and the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, which were not designated under the Williamson Act contract or zoned for agricultural use. A few areas within the County's right-of-way within Riverside County and San Bernardino County were not previously analyzed under IS/MND No. IP 11-444, and include Prado Basin Dikes, Dam and Spillway and Seven Oaks Dam. However, though maintenance activities may be located on areas identified as farmland or agricultural use within Riverside County, the activities would be conducted on existing flood control facilities and are temporary and generally minor in nature. In addition, these sites are also not located within a Williamson Act area (DOC 2024b). Therefore, the implementation of the Modified Project would not conflict with existing zoning for agricultural use or a Williamson Act Contract. Consistent with the findings of IS/MND No. IP 11-444, the Modified Project development would not impact mapped important farmland. No subsequent analysis is required.

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

No Subsequent Analysis Required. No significant impacts to forest land or timberland were identified in IS/MND No. IP 11-444, and the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444 as part of the County flood control rights-of-way, which were not designated for forest land use, timberland or timberland zoned production. A few areas within the County's right-of-way within Riverside County and San Bernardino County were not previously analyzed under IS/MND No. IP 11-444 and are also not located within areas designated for forest land use, timberland or timberland zoned production. Therefore, the implementation of the Modified Project would not conflict with existing zoning or cause rezoning of forest land or timberland. Consistent with the findings of IS/MND No. IP 11-444, the Modified Project development would not impact mapped important forestland or timberland. No subsequent analysis is required.

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

No Subsequent Analysis Required. The Project site occurs within flood control channels and may occur in areas considered to be forest land according to Section 12220(g) of the *California Public Resources Code*, which defines forest land as "land that can support 10 percent native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber,

aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits," Consistent with the Project, although the proposed maintenance activities may include necessary tree trimming or channel clearing along riparian habitat that adjoins the existing flood control rights-of-way, it would occur within the existing channels thus resulting in a minimal loss of potential forest land and therefore, the impact would be less than significant impact. The maintenance activities proposed under the Projects would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with implementation of the permit conditions. Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. Therefore, no new impacts related to loss of forest land or conversion of forest land to non-forest use would occur. No subsequent analysis is required.

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

No Subsequent Analysis Required. As stated above, no significant impacts to farmland, or forest land were identified in IS/MND No. IP 11-444, and the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, which were not designated as farmland or forest land. As stated above, a few areas within the County's right-of-way within Riverside County were not previously analyzed under IS/MND No. IP 11-444, are located within areas identified as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. However, although maintenance activities may be located on areas identified as farmland within Riverside County, the activities would be conducted on existing flood control facilities and are temporary and generally minor in nature. Therefore, consistent with the findings of the IS/MND No. IP 11-444, the implementation of the Modified Project would not result in an impact or other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the agriculture and forestry resources analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for agricultural and forestry resources impacts was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.3 AIR QUALITY

4.3.1 SUMMARY OF PREVIOUS ENVIRONMENTAL ANALYSIS

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 for the Project determined that construction and operation of the Project would not generate emissions exceeding South Coast Air Quality Management District (SCAQMD) project significance thresholds and therefore would be no potential to violate ambient air quality standards, resulting in less than significant impacts related to short- and long-term localized concentrations. It was determined that the Project is consistent with the population, housing, and employment assumptions used in the development of SCAQMD's *2007 Air Quality Management Plan for the South Coast Air Basin* (2007 AQMP). Therefore, IS/MND No. IP 11-444 concluded that the Project would not conflict with SCAQMD's 2007 AQMP.

IS/MND No. IP 11-444 concluded that emissions from Project construction would not exceed SCAQMD regional construction emission significance thresholds or localized construction emission significance thresholds, and thus the Project construction emissions impacts would be less than significant.

IS/MND No. IP 11-444 identified that total operational emissions from area, energy, and mobile sources would not exceed SCAQMD significance thresholds and that the Project operational emissions impacts would be less than significant.

IS/MND No. IP 11-444 determined that the Project construction and operation would not expose persons to substantial concentrations of criteria pollutants, toxic air contaminants, or carbon monoxide hotspots, and that the Project's impacts regarding exposure of persons to substantial pollutant concentrations were less than significant.

No mitigation measures pertaining to air quality were identified in IS/MND No. IP 11-444 for the Project.

4.3.2 PROJECT ENVIRONMENTAL REVIEW

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations.

Would the project:

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

No Subsequent Analysis Required. No significant impacts to the applicable air quality plan were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features located throughout Riverside County include the Prado Basin Dikes, Dam, and Spillway and within San Bernardino County include the Seven Oaks Dam facility. The applicable air quality plan is the SCAQMD's 2022 Air Quality Management Plan (2022 AQMP). The Modified Project does not propose any new land uses, and as the Modified Project aims to provide long-term maintenance to flood control features throughout Orange County, Riverside County and San Bernardino County, no increase in population or housing is anticipated. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with implementation of standardized avoidance and appropriate mitigation. As such, the Modified Project would not conflict with or obstruct implementation of the applicable air quality plan. Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

No Subsequent Analysis Required. The following analysis describes the Modified Project's construction- and operation-related air quality impacts. As explained further below, the Modified Project would result in less-than-significant construction and operational air quality impacts.

Construction

No significant impacts to the construction emissions were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features located in Riverside County include the Prado Basin Dikes, Dam, and Spillway and within San Bernardino County include the Seven Oaks Dam facility. The maintenance activities are generally considered

minor, would only be required on an as-needed basis and would not occur simultaneously between all the facilities. Due to the size and scale of the maintenance activities, construction related emissions would not exceed the SCAQMD thresholds. Additionally, the Modified Project would be required to comply with regional rules that assist in reducing short-term air pollutant emissions. SCAQMD Rule 403 requires that fugitive dust be controlled with best-available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. With compliance with Rule 403, construction of the proposed Modified Project would not result in emissions that would result in a cumulatively considerable net increase of any criteria pollutant for which the Project regional is nonattainment under an applicable federal or State ambient air quality standard. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Operations

No significant impacts to the operational emissions were identified in IS/MND No. IP 11-444. As stated above, the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. The facility, channel, and right-of way maintenance activities within the existing OCFCD/OCPW right-of-way would not include expansion of existing facilities. As the Modified Project does not propose any new trip inducing land uses, it is expected that trips generated by the Modified Project would be negligible as maintenance activities are on an as-needed basis. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

c) Expose sensitive receptors to substantial pollutant concentrations?

No Subsequent Analysis Required. No significant impacts related to substantial pollutant concentrations were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features located in Riverside County include the Prado Basin Dikes, Dam, and Spillway and within San Bernardino County include the Seven Oaks Dam facility. Localized emissions from a variety of maintenance activities (i.e. slope repaid, riprap installation, silt removal, etc.) were quantified under IS/MND No. IP 11-444 were determined to not exceed Localized Significance Thresholds (LSTs). The maintenance activities proposed under the Approved Project would remain largely the same throughout both Orange, Riverside, and San Bernardino Counties, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with implementation of standardized avoidance and appropriate mitigation. As the maintenance activities would not significantly change, the Modified Project would not exceed LSTs. Therefore, Modified Project implementation would not cause new significant impacts or

increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts related to adverse odors were identified in IS/MND No. IP 11-444. Similar to IS/MND No. IP 11-444 analysis, the additional maintenance activities analyzed under the Modified Project may include typical odor impacts associated with operation of maintenance equipment, such as exhaust from heavy-duty equipment. However, the odors would be short term in nature and would cease upon maintenance completion. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the air quality analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for air quality impacts was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.4 BIOLOGICAL RESOURCES

4.4.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 for the Project identified 16 primary habitat and land cover types located throughout the County, which include dune; scrub; chaparral; grassland; seasonal wetlands; marsh habitats; riparian; woodland; forest; cliff and rock; marine and estuarine; lakes, reservoirs, and basins; watercourses; agriculture; developed; and disturbed. Particular sensitive wildlife communities are located in the County and include coastal

shoreline and inland areas. Sensitive coastal areas include Bolsa Chica Ecological Reserve, San Joaquin Marsh, Upper Newport Bay Ecological Reserve, and seven other marine life refuges. Sensitive inland areas include Audubon's Starr Ranch Sanctuary, Tucker Wildlife Sanctuary, and the Cleveland National Forest. The majority of the County's facilities are outside of the designated Natural Communities Conservation Plan (NCCP); however, portions of Salt Creek, Aliso Creek, San Diego Creek, San Joaquin Channel, Trabuco Creek, Laguna Canyon, Bee Canyon, Hicks Canyon, and a few unnamed channels are within a designated NCCP. It was determined that the existing biological conditions within the majority of channels, including those situated within the NCCP, are highly disturbed and are not anticipated to include sensitive biological resources; however, earth-bottom channels that are located within an NCCP could periodically contain sensitive species, resulting in potentially significant impacts. IS/MND No. IP 11-444 for the Project identified **MM 4.4-1,** which would reduce potential significant impacts related to adverse effects to candidate, sensitive, or special status species to a less than significant level.

Although on-site drainages are subject to the jurisdiction of the USACE, IS/MND No. IP 11-444 states that the Project site does not contain any federally protected wetlands located within its boundaries, resulting in a less than significant impact finding related to federally-protected wetlands.

It was determined that the County's regional parks provide permanent habitat, while various open space and conservation corridors represent opportunities for permanent wildlife protection and conservation. It found wildlife may use portions of the Project site for migratory activities, and therefore the proposed maintenance must be consistent with the Migratory Bird Treaty Act (MBTA), which governs the taking and killing of migratory birds, their eggs, parts and nests. As such, any on-site channels have the potential to support common nesting birds, which are protected under the MBTA. The on-site flood control facilities may be located within the vicinity of areas that may support nesting birds during the nesting season (i.e., February 15 through August 1). Therefore, IS/MND No. IP 11-444 for the Project identified **MM 4.4-2**, which would limit the proposed maintenance activities during the nesting season and if occurring during the nesting season, would require qualified biologists to survey channels in vicinity of improvements prior to vegetation removal. With mitigation incorporated, impacts to migratory corridors (wildlife movement) and nursery sites would be less than significant.

Furthermore, IS/MND No. IP 11-444 determined that the Project may conflict with local policies or ordinances protecting biological resources through vegetation thinning required in order to maintain roadway access and the existing flood control facilities; however, implementation of **MM 4.4-1** would ensure that the Project was consistent with the County's policies and ordinances protecting biological resources, resulting in a less than significant impact. Therefore, IS/MND No. IP 11-444 concluded that the Project would not result in a significant impact related to biological resources with the implementation of **MM 4.4-1** and **MM 4.4-2**.

4.4.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

a) **Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?**

b) **Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?**

No Substantial Change from Previous Analysis. No significant impacts to candidate, sensitive, or special status species or riparian habitats were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County (i.e., Prado Basin) and San Bernardino County (i.e., Seven Oaks Dam) that were not previously analyzed under IS/MND No. IP 11-444. The Modified Project would also include work within the County's mitigation sites. The Modified Project would allow work within and adjacent to sensitive habitat with the implementation of permit conditions, which would avoid and minimize impacts on candidate, sensitive, or special status species; riparian habitat; and other sensitive natural communities. Proposed maintenance projects that would have significant impacts on candidate, sensitive, or special status species; riparian habitat or other sensitive natural communities would seek a Project-specific permit and would not be completed under the Modified Project (i.e., Countywide Maintenance Permit). The determination of whether a maintenance project would fit within the Modified Project would be made during the review of the Annual Work Plan and discussed at the Annual Work Plan meeting with the resource agencies. The Modified Project incorporates **MM 4.4-1** from IS/MND No. IP 11-444, which requires that a qualified biologist assess whether any sensitive species or sensitive habitat is present and recommend applicable avoidance and minimization measures. **MM 4.4-1** would lessen potential impacts on candidate, sensitive, or special status species; riparian habitat; and other sensitive natural communities to less than significant. **MM 4.4-1** also includes a statement that compensatory mitigation, if required, would include in-kind replacement at no less than a 1:1 ratio or as dictated by the regulatory agencies, which would mitigate for the limited impacts to riparian and sensitive natural communities proposed by the Modified Project. Additionally, the Modified Project would allow for these maintenance activities to occur in channels adjacent to sensitive habitats and would allow for a limited loss of sensitive habitat, with implementation of standardized avoidance and appropriate mitigation. As such, impacts would be less than significant with implementation of **MM 4.4-**1 and applicable permit conditions. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to federally protected wetlands were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County (i.e., Prado Basin) and San Bernardino County (i.e., Seven Oaks Dam) that were not previously analyzed under IS/MND No. IP 11-444. While the majority of the County's facilities are not considered wetlands, areas where the three-parameter criteria (i.e., hydrology, hydric soils, and wetland vegetation) are met would be considered wetlands. This includes some of the County's existing facilities that were included in IS/MND No. IP 11-444. Also, Prado Basin and Seven Oaks Dam are located adjacent to wetlands (USFWS 2024). The Modified Project would incorporate **MM 4.4-1**, which requires that a qualified biologist assess whether any sensitive habitat (including wetlands) is present and recommend applicable avoidance and minimization measures. **MM 4.4-1** would lessen potential impacts on sensitive habitat (including wetlands) to less than significant. **MM 4.4-1** also includes a statement that compensatory mitigation, if required, would include in-kind replacement at no less than a 1:1 ratio or as dictated by the regulatory agencies, which would mitigate for the limited impacts to wetlands proposed by the Modified Project. In addition, the Modified Project would be required to obtain a permit from the USACE, consistent with Section 404 of the Clean Water Act. The renewal of the existing Countywide Maintenance Permit is in process; the application for the renewal includes all the features of the Modified Project. As such, impacts would be less than significant. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

No Substantial Change from Previous Analysis. No significant impacts to migratory corridors (wildlife movement) or nursery sites were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County (i.e., Prado Basin) and San Bernardino County (i.e., Seven Oaks Dam) that were not previously analyzed under IS/MND No. IP 11-444. The Modified Project would also include work within the County's mitigation sites. The Modified Project would allow work within and adjacent to sensitive habitat (including potentially within wildlife movement corridors) with the incorporation of permit conditions, which would avoid and minimize impacts on sensitive natural communities as part of the overall Project (including wildlife movement corridors). Proposed maintenance projects that would have significant impacts on wildlife movement corridors would seek a Project-specific permit and would not be completed under the Modified Project (i.e., Countywide Maintenance Permit). The determination of whether a maintenance project would fit within the Modified Project would

be made during the review of the Annual Work Plan and discussed at the Annual Work Plan meeting with the resource agencies. The Modified Project incorporates **MM 4.4-1** from IS/MND No. IP 11-444, which requires that a qualified biologist assess whether any sensitive habitat (including wildlife corridors) is present and recommend applicable avoidance and minimization measures. **MM 4.4-1** would lessen potential impacts on sensitive habitat (including wildlife corridors) to a level that is less than significant. Additionally, the Modified Project would allow for these maintenance activities to occur in channels adjacent to sensitive habitats (including wildlife corridors) and would allow for a limited loss of sensitive habitats, with implementation of standardized avoidance and appropriate mitigation. As such, impacts would be less than significant with implementation of **MM 4.4-1** and applicable permit conditions. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

No significant impacts to wildlife nursery sites were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County (i.e., Prado Basin) and San Bernardino County (i.e., Seven Oaks Dam) that were not previously analyzed under IS/MND No. IP 11-444. The Modified Project would also include work within the County's mitigation sites. The Modified Project would allow work within and adjacent to sensitive habitat with the implementation of applicable Special Conditions that would avoid and minimize impacts on sensitive species and sensitive natural communities. As birds can nest in vegetation, on the ground, or on structures, all of the County's facilities have potential to support nesting birds, including the areas covered by Project and those now included under the Modified Project. Some of the County's bridges also have potential to support bats. The Modified Project would also incorporate **MM 4.4-2** from IS/MND No. IP 11-444 No. IP 11-444, which requires that maintenance work either be conducted outside of the nesting bird season (to the extent feasible), or that a pre-construction nesting bird survey be conducted prior to work during the breeding season, and that a biologist be present during work; it bats have potential to roost in a structure, a pre-construction roosting bat survey is required and protections are required during the breeding season. Implementation of **MM 4.4-2** and incorporation of permit conditions would lessen impacts to less than significant. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to local policies or ordinances protecting biological resources or adopted Habitat Conservation Plan, or Natural Community Plans were identified in IS/MND No. IP 11-444.

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

No Substantial Change from Previous Analysis. No significant impacts to local policies or ordinances protecting biological resources or adopted Habitat Conservation Plan, or Natural Community Plans were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444. Some of the County's facilities are located in the Central-Coastal NCCP, while some of the new facilities added under the Modified Project are within the Southern Subregion NCCP. These additional flood control features within Riverside County are located within the Western Riverside Multiple Species Habitat Conservation Plan. Seven Oaks Dam is not located within a Habitat Conservation Plan but is located approximately one mile upstream of the Upper Santa Ana River Wash Habitat Conservation Plan. The Modified Project would incorporate **MM 4.4-1** from IS/MND No. IP 11-444, which requires that a qualified biologist assess whether any sensitive species or sensitive habitat is present and recommend applicable avoidance and minimization measures; these measures would be consistent with the applicable Habitat Conservation Plan for the maintenance project location and would be reviewed and approved by the resource agencies along with the Annual Work Plan. **MM 4.4-1** would lessen potential impacts on sensitive natural communities and Habitat Conservation Plan's covered species to less than significant. Implementation of **MM 4.4-1** would ensure impacts would be less than significant with mitigation incorporated. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the biological resources analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

The following MMs from IS/MND No. IP 11-444 would be incorporated, and any modifications to the original measures are shown in ~~strikethrough~~ for deleted text and new, inserted text is <u>underlined</u>.

The discussion included in MM 4.4-2 has been altered primarily because the original MM from the IS/MND No. IP 11-444 required more nesting bird surveys than the current industry standards, and to make the Addendum IS/MND consistent with the standard

conditions outlined in the permit requirements. These minor modifications do not change the intent or efficacy of the measure, and would not modify the impact conclusions from what was identified in IS/MND No. IP 11-444.

MM 4.4-1 Prior to implementation of maintenance activities, a qualified biologist shall be retained by the OC Public Works, for any maintenance involving the disturbance of potentially sensitive vegetation, habitat or species within the NCCP and/or earthen channels. Once completed, the OC Public Works would submit relevant surveys to the CDFW and NROC (for sites within the NCCP) for compliance review and file. The biologist shall determine if any sensitive vegetation, species or habitat are on-site. If present, the biologist shall recommend avoidance or minimization that would address the impacts. Compensatory mitigation, if required, would include in-kind replacement at no less than a 1:1 ratio or as dictated by the regulatory agencies.

MM 4.4-2 Migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act (MBTA) of 1918 (50 C.F.R. §10.13). Sections 3503, 3503.5, and 3513 of the California Fish and Wildlife Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA).

Proposed project activities (including, but not limited to, staging and disturbances to native and on-native vegetation, structures, and substrates) shall occur outside of the avian breeding season which generally runs from ~~March 1-August 31 (as early as January 1 for some raptors)~~ February 1 to September 15 to avoid take of birds or their eggs. Depending on the avian species present (or non-present), a qualified biologist may determine that a change in the breeding season dates is warranted.

If avoidance of the avian breeding season is not feasible~~, beginning thirty days prior to the initiation of project activities,~~ a qualified biologist with experience in conducting breeding bird surveys shall conduct weekly bird a pre-construction nesting bird survey~~s~~ to detect ~~protected native~~ nesting birds (including raptors) occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300 feet of the disturbance area (within 500 feet for raptors). The survey~~s should continue on a weekly basis with the last survey being~~ shall be conducted no more than 3 days prior to the initiation of project activities. If an active nest ~~protected native bird~~ is found, the ~~project proponent~~ County ~~should~~ shall delay all project activities within 300 feet of on- and off-site suitable nesting habitat (within 500 feet for suitable raptor nesting habitat) until ~~August 31~~ the nest is no longer active as determined by a qualified biologist (e.g., until juveniles have fledged or the nest has failed). ~~Alternatively, the qualified biologist could continue the surveys in order to locate any nests. If an active nest is located, project activities within 300 feet of the nest (within 500 feet for raptor nests) or as determined by a qualified biological monitor, must be~~

~~postponed until the nest is vacated and juveniles have fledged and there is no evidence of a second attempt at nesting.~~ Flagging, stakes, and/or construction fencing should be used to demarcate the ~~inside boundary of the~~ protective buffer of ~~300 feet (or 500 feet)~~ between the project activities and the nest. Project personnel, including all contractors working on site, should be instructed on the sensitivity of the area. The OCFCD or County Bridge Maintenance should provide the County designated entity the results of the recommended protective measures described above to document compliance with applicable State and Federal laws pertaining to the protection of native birds. If the biological monitor determines that a narrower buffer between the project activities and observed active nests is warranted, he/she should submit the reasons why (e.g., species-specific information; ambient conditions and birds' habituation to them; and the terrain, vegetation, and birds' lines of sight between the project activities and the nest and foraging areas) in writing to the County designated entity.

The biological monitor shall be present on site during all grubbing and clearing of vegetation to ensure that these activities remain inside the demarcated area and that the flagging/stakes/fencing is being maintained, and to minimize the likelihood that active nests are abandoned or fail due to project activities. The biological monitor shall send weekly monitoring reports to the County during the grubbing and clearing of vegetation, and shall notify the County designated entity immediately if project activities damage active avian nests.

For bridge locations, a qualified biologist shall conduct a pre-construction survey for bats at bridges that have sufficient cover for bat roosting. Bats should be determined to be absent or ~~flushed~~ excluded from roost locations prior to the demolition or construction and maintenance of the bridge structure. If ~~flushing~~ exclusion of bats is required, it shall be done by the biologist during the non-breeding season from October 1 to March 31. During the maternity season from April 1 to September 30, prior to demolition or construction, a qualified biologist shall determine if a bat nursery is present at any sites identified as potential~~ly housing~~ bat roosts. If an active bat nursery is present, disturbance of the bat roosts shall be avoided until the biologist determines that breeding is complete and young are reared.

4.5 CULTURAL RESOURCES

4.5.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

According to IS/MND No. IP 11-444 prepared for the Project, the Project site does not contain any known historically significant resources, and the structures that would be affected by maintenance activities would include existing pump stations and bridges. Therefore, as none

of these facilities are historical resources, no impacts to historic resources were identified, and no mitigation was required.

IS/MND No. IP 11-444 determined that although no impacts to archaeological resources are anticipated as maintenance activities would only disturb the existing engineered fill materials and no native soils would be impacted, implementation of **MM 4.5-1** would be required should unknown archaeological resources be discovered during maintenance activities. With implementation of this mitigation measure, IS/MND No. IP 11-444 concluded that impacts pertaining to archaeological resources would be reduced to less than significant levels.

Similarly, although no impacts were anticipated to paleontological resources for the same reasons identified above, IS/MND No. IP 11-444 included **MM 4.5-2** in the case that paleontological resources are discovered during maintenance activities, which would reduce potential impacts pertaining to archeological resources to less than significant levels. This topic is further discussed in Section 4.7, Geology and Soils.

IS/MND No. IP 11-444 concluded that no known formal cemeteries are present on the Approved Project site and due to the level of disturbance, it is not anticipated that human remains would be encountered; but identified **MM 4.5-3** in the case that human remains are discovered, which would reduce potential impacts related to encountering undiscovered human remains to less than significant levels.

4.5.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

a) Cause a substantial adverse change in the significance of a historical resource pursuant to in § 15064.5?

No Substantial Change from Previous Analysis. No significant impacts to historical resources were identified in IS/MND No. IP 11-444. There are historic resources located in Riverside and San Bernardino Counties within the Prado Dam and Seven Oaks Dam facility vicinity, as identified on the Office of Historic Preservation's (OHP) Built Environment Resources Directory (BERD) (OHP 2024). However, although maintenance activities may be located within historic resource vicinities in Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam), the activities would be conducted on existing flood control facilities, are temporary and generally minor in nature, and would not impact any local historic resources. As such, the implementation of the Modified Project would not cause a substantial adverse change in the significance of a historical resource. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to archaeological resources were identified in IS/MND No. IP 11-444. Similar to IS/MND No. IP 11-444 analysis, the Modified Project would only disturb existing engineered fill materials associated with the existing drainage facilities throughout Orange County and associated infrastructure for OCFCD's facilities within Riverside and San Bernardino counties (i.e., Prado Basin and Seven Oaks Dam). No native soil would be disturbed during the Modified Project's maintenance activities. However, if any unknown archaeological resources and paleontological resources are inadvertently discovered during maintenance activities, the Modified Project would implement **MM 4.5-1** and **MM 4.5-2** from IS/MND No. IP 11-444 to ensure impacts would be less than significant with mitigation incorporated. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to human remains were identified in IS/MND No. IP 11-444. Similar to IS/MND No. IP 11-444 analysis, the Modified Project would only disturb existing engineered fill materials associated with the existing drainage facilities throughout Orange County and associated infrastructure for OCFCD's facilities within Riverside and San Bernardino counties (i.e., Prado Basin and Seven Oaks Dam). No native soil would be disturbed during the Modified Project's maintenance activities, and as the facilities are currently disturbed, it is not anticipated human remains would be encountered during routine maintenance activities. However, if any human remains are inadvertently discovered during maintenance activities, the Modified Project would implement **MM 4.5-3** from IS/MND No. IP 11-444 to ensure impacts would be less than significant with mitigation incorporated. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No.-IP 11-444. For these reasons, no major revisions to the cultural resources analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

The following MMs from IS/MND No. IP 11-444 would be incorporated:

MM 4.5-1 If evidence of archeological resources is found during maintenance activities, activities in that area shall cease and the Contractor shall immediately contact the Orange County Public Works Director. The Orange County Public Works Director, or his/her designee, shall ensure that a County-approved Archeologist has been retained to explore, salvage, and catalogue archeological resources, as necessary. If the archeological resources are found to be significant, the Archeologist shall determine appropriate actions in cooperation with the Contractor in order to ensure proper exploration and/or salvage.

Within 30 days of the completion of maintenance activities, the Orange County Public Works Director, or his/her designee, shall confirm that the Archeologist's follow up report has been approved. The report shall include the inspection period, an analysis of any artifacts found, and the present repository of the artifacts. The Contractor shall prepare excavated materials to the point of identification and offer excavated finds for curatorial purposes to the Orange County Public Works Director, or his/her designee, on a first-refusal basis. These actions, as well as final mitigation and disposition of the resources, shall be subject to approval by the Orange County Public Works Director, or his/her designee.

MM 4.5-2 If evidence of subsurface paleontological resources is found during maintenance activities, activities in that area shall cease and the Contractor shall immediately contact the Orange County Public Works Director. The Orange County Public Works Director, or his/her designee, shall ensure that a County-certified Paleontologist has been retained to explore, salvage, and catalogue fossils, as necessary. If the paleontological resources are found to be significant, the Paleontologist shall determine appropriate actions in cooperation with the Contractor in order to ensure proper exploration and/or salvage.

Within 30 days of the completion of maintenance activities, the Contractor shall submit the Paleontologist's follow up report for approval by the County Construction Engineer. The report shall include the period of inspection, a catalogue and analysis of the fossils found, and the present repository of the fossils. The Contractor shall prepare excavated materials to the point of identification and offer excavated finds for curatorial purposes to the Orange County Public Works Director, or his/her designee, on a first-refusal basis. These actions, as well as final mitigation and disposition of the resources, shall be subject to approval by the Orange County Public Works Director, or his/her designee.

MM 4.5-3 In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found during maintenance activities, no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the County Coroner has determined the appropriate treatment and disposition of the human remains.

The County Coroner shall make such a determination within two working days of notification of the discovery. The County Coroner shall be notified within 24 hours of the discovery. If the County Coroner determines that the remains are, or are believed to be, Native American, the County Coroner shall notify the Native American Heritage Commission (NAHC) in Sacramento within 24 hours. In accordance with Section 5097.98 of the Public Resources Code, the NAHC must immediately notify those persons it believes to be the most likely descended from the deceased Native American. The descendants shall complete their inspection within 48 hours of being granted access to the site. The designated Native American representative would then determine, in consultation with the County Construction Engineer, the treatment and disposition of the human remains.

4.6 ENERGY

4.6.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 for the Approved Project did not analyze energy or energy efficiency as a stand-alone topic as it was not required by CEQA in 2013.

4.6.2 PROJECT ENVIRONMENTAL REVIEW

Would the project:

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

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

No Substantial Change from Previous Analysis. IS/MND No. IP 11-444 did not specifically analyze energy efficiency impacts related to the Approved Project, as it was not required under CEQA in 2013.

Energy consumption associated with construction equipment and vehicle use from worker and truck trips would primarily involve diesel and gasoline. The quantification of the

consumption of transportation fuels would be speculative due to uncertainties associated with the number of construction workers, labor hours, and truck trips necessary for the development of the project. Fuel energy consumed during construction would be temporary in nature and would not represent a significant demand on energy resources. Furthermore, there are no unusual Project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than comparable equipment at construction sites in other parts of the State. Therefore, the proposed construction activities would not result in inefficient, wasteful, or unnecessary fuel consumption.

The Modified Project's operation and maintenance activities would be required to comply with all applicable local, state and federal energy standards and regulations. The Modified Project does not include the creation or expansion of new buildings or facilities, and all required maintenance machinery would be required to comply with applicable energy efficiency standards. The Modified Project would also result in less energy consumption than would have occurred during the adoption of IS/MND No. IP 11-444 due to the improvements in energy efficiency associated with roadway vehicles and construction equipment. As such, the modified project would not result in inefficient, wasteful, or unnecessary fuel consumption.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. Although IS/MND No. IP 11-444 did not specifically analyze energy efficiency impacts related to the Approved Project, no new impacts are identified and no major revisions to the IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for energy was required in IS/MND No. IP 11-444, as energy as a stand-alone topic was not required by CEQA in 2013.

4.7 GEOLOGY AND SOILS

4.7.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 determined that the Approved Project would not subject people or structures to risks from surface rupture of a known active fault. IS/MND No. IP 11-444 concluded that several active faults are present in the project region, and thus strong ground shaking and secondary seismic hazards (slope failure and liquefaction) is likely in the event of a seismic event; however, due to the nature of the project, and because maintenance activities would occur within existing facilities and would not disturb soils beyond the existing engineered fill materials for the on-site facilities, impacts would be less than significant and no mitigation measures were identified.

IS/MND No. IP 11-444 concluded that significant soil erosion impacts would not occur as, although maintenance activities could expose soil to short-term erosion by wind and water, any proposed maintenance activities that would disturb one acre or more of soil would be subject to compliance with the requirements set forth in the NPDES Storm Water General Construction Permit. Therefore, impacts related to soil erosion were found to be less than significant, and no mitigation measures were identified.

IS/MND No. IP 11-444 determined that the Approved Project development would not cause hazards arising from unstable soils or expansive soils because no large-scale grading and/or earthwork activities were proposed, maintenance activities would not disturb soils beyond the existing engineered fill materials for the on-site flood control facilities, and any unstable and/or expansive soil conditions within the project site have already been developed as part of the existing flood control facilities. Additionally, no habitable structures or buildings were proposed as part of the routine maintenance activities. Therefore, a less than significant impact finding was made, and no mitigation measures were identified.

4.7.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

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

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

ii) Strong seismic ground shaking?

iii) Seismic-related ground failure, including liquefaction? and

iv) Landslides?

No Substantial Change from Previous Analysis. No significant impacts to earthquake faults, ground shaking, liquefaction and landslides were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are located within seismically active southern California, and portions of these features traverse Alquist-Priolo Fault Zones (DOC 2024c). The additional facilities are not located within a liquefaction zone and/or landslide zone (DOC 2024d). However, the Modified Project does not propose expansion of existing facilities, or any habitable structures. Additional maintenance activities would not disturb soils beyond the engineered fill, and impacts would be less than significant. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to soil erosion were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with implementation of standardized avoidance measures. The Modified Project purpose aims to prevent flooding and erosion of adjacent roadways and properties during storm events. Additionally, if Modified maintenance activities would disturb more than one acre of soil, they would be subject to the NPDES Stormwater General Construction Permit for construction activities. With NPDES compliance, impacts would be less than significant. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

No Substantial Change from Previous Analysis. No significant impacts to landslides, lateral spreading, subsidence, liquefaction or collapse were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County that were not previously analyzed under IS/MND No. IP 11-444. As stated above, the additional facilities are not located within a liquefaction zone and/or landslide zone. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with

incorporation of permit conditions. The Modified Project does not include grading or earthwork activities and would only require minor sediment removal activities. The Modified Project would not disturb soil beyond the existing engineered fill for the on-site flood control maintenance activities. As such, the Project is not anticipated to result in unstable soil conditions that would lead to landslides, lateral spreading, subsidence, liquefaction or collapse. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with incorporation of permit conditions. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to expansive soils were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are associated with Prado Basin and Seven Oaks Dam, and although any of these facilities located throughout Orange, Riverside, and San Bernardino Counties may contain expansive soils, no habitable structures or buildings are proposed as part of the Modified Project. In addition, the Modified Project would not create or expand the existing flood control facilities. As such, the Modified Project would not create substantial risk to life or property and impacts would be less than significant. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to septic tanks were identified in IS/MND No. IP 11-444. The Modified Project would not include the use of septic tanks or alternative wastewater disposal systems, and no impact would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to paleontological resources were identified in IS/MND No. IP 11-444. Similar to IS/MND No. IP 11-444 analysis, the Modified Project would only disturb existing engineered fill materials associated with the existing drainage facilities throughout Orange County and associated

infrastructure for OCFCD's facilities within Riverside and San Bernardino counties (i.e., Prado Basin and Seven Oaks Dam). No native soil would be disturbed during the Modified Project's maintenance activities. However, if any unknown paleontological resources are inadvertently discovered during maintenance activities, the Modified Project would implement **MM 4.5-2** from IS/MND No. IP 11-444 to ensure impacts would be less than significant with mitigation incorporated. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to geology and soils analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

The following MMs from IS/MND No. IP 11-444 would be incorporated:

MM 4.5-2 If evidence of subsurface paleontological resources is found during maintenance activities, activities in that area shall cease and the Contractor shall immediately contact the Orange County Public Works Director. The Orange County Public Works Director, or his/her designee, shall ensure that a County-certified Paleontologist has been retained to explore, salvage, and catalogue fossils, as necessary. If the paleontological resources are found to be significant, the Paleontologist shall determine appropriate actions in cooperation with the Contractor in order to ensure proper exploration and/or salvage.

Within 30 days of the completion of maintenance activities, the Contractor shall submit the Paleontologist's follow up report for approval by the County Construction Engineer. The report shall include the period of inspection, a catalogue and analysis of the fossils found, and the present repository of the fossils. The Contractor shall prepare excavated materials to the point of identification and offer excavated finds for curatorial purposes to the Orange County Public Works Director, or his/her designee, on a first-refusal basis. These actions, as well as final mitigation and disposition of the resources, shall

be subject to approval by the Orange County Public Works Director, or his/her designee.

4.8 GREENHOUSE GAS EMISSIONS

4.8.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 concluded that Approved Project greenhouse gas (GHG) emissions would be below the SCAQMD's project-level significance threshold and would thus be less than significant. IS/MND No. IP 11-444 also determined that because the County did not have an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions, the proposed Approved Project would result in no impact. No mitigation measures related to GHG emissions were identified.

4.8.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

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

No Substantial Change from Previous Analysis. No significant impacts to greenhouse gas emissions were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features located throughout Riverside County include the Prado Basin Dikes, Dam, and Spillway and within San Bernardino County includes the Seven Oaks Dam. The maintenance activities are generally considered minor, would only be required on an as-needed basis and short-term in duration. Additionally, the Modified Project would only result in a minor increase in vehicle trips related to maintenance activities associated with the Riverside and San Bernardino County facilities. Due to the size and scale of the maintenance activities, GHG emissions associated with the Modified Project would be minimal, and impacts would be less than significant. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to an applicable GHG plan, policy or regulation were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND

No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. Orange County released a preliminary Climate Action Plan, dated August 1, 2024, Riverside County has a Climate Action Plan dated November 2019, and San Bernardino County has a Regional Greenhouse Gas Reduction Plan dated 2021. The Modified Project maintenance activities would not conflict with the applicable Climate Action Plans as they are temporary and necessary activities to ensure the County's flood control facilities are properly maintained and remain functional. Additionally, the Modified Project maintenance activities would be required to comply with all applicable local, state and federal energy standards and regulations. The Modified Project impacts would be less than significant. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. Although IS/MND No. IP 11-444 did not specifically analyze GHG impacts related to the Approved Project, no new impacts are identified and no major revisions to the IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for GHGs was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.9 HAZARDS AND HAZARDOUS MATERIALS

4.9.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 determined that the Approved Project would not create a significant hazard through the routine transport, use, or disposal of hazardous materials as any use of herbicides for vegetation control would be done so as a last resort using only U.S. Environmental Protection Agency (EPA)-approved materials and in compliance with all applicable local, State, and federal regulations. With the exception of utilizing

herbicides/pesticides, and gasoline and diesel fuels in some of the maintenance equipment, no other hazardous materials would be transported to or used on the Approved Project site. Therefore, impacts related to the routine transport, use, or disposal of hazardous materials were found to be less than significant, and no mitigation measures were identified.

IS/MND No. IP 11-444 found that during routine maintenance, there is a possibility of accidental release of hazardous substances, however, due to the small volume and low concentration of the materials utilized, the level of risk would not be considered significant. Additionally, IS/MND No. IP 11-444 determined that the OCPW staff would be required to use standard controls and safety procedures that would further minimize the risk. Therefore, impacts were determined to be less than significant and no mitigation measures were identified.

IS/MND No. IP 11-444 found that although the Approved Project site is located within one-quarter mile of multiple school locations, maintenance activities would not result in hazardous emissions or acutely hazardous materials that would pose a health hazard. A less than significant impact finding was made, and no mitigation measures were identified.

IS/MND No. IP 11-444 determined that the Approved Project is not included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5 and thus would not result in a significant impact or require mitigation.

IS/MND No. IP 11-444 determined that the Approved Project would not involve development that would result in a potential safety hazard associated with aviation operations, and thus, a less than significant impact finding was made. Additionally, IS/MND No. IP 11-444 found that there are no private airstrips or related facilities in Orange County; therefore, a no impact finding was made. No mitigation was required pertaining to these thresholds.

IS/MND No. IP 11-444 concluded that the Approved Project development would not involve changes to the local circulation system or traffic impacts that would interfere with implementation of the County's Emergency Operations Plan. Therefore, a no impact finding was made and no mitigation was required pertaining to these thresholds.

IS/MND No. IP 11-444 determined that, although some of the on-site drainages may be located in the vicinity of a wildfire hazard area, the Approved Project would not construct any new structures and thus would not expose people or structures to wildfire. A no impact finding was made and no mitigation measures were identified.

4.9.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

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

No Substantial Change from Previous Analysis. No significant impacts to the routine transport, use or disposal of hazardous materials were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with incorporation of permit conditions. These routine maintenance activities may include herbicides, pesticides, and gasoline/diesel fuel (for some maintenance equipment). The Modified Project would be required to comply with all applicable regulations related to herbicides and pesticides, including the EPA and Orange County's Aquatic Herbicide NPDES Permit Monitoring Plan. With regulatory compliance implemented, the Modified Project would result in less than significant impacts. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

No Substantial Change from Previous Analysis. No significant impacts related to the release of hazardous materials into the environment were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with incorporation of permit conditions. The routine maintenance activities are unlikely to result in a significant release of hazardous materials into the environment, however, the possibility exists of accidental release of fuels of hydraulic fluid related to maintenance equipment. The Modified Project would be required to comply with the applicable local, state and federal regulations to ensure any materials accidentally released are properly managed. With regulatory compliance implemented, the Modified Project would result in less than significant impacts. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts related to the emission of hazardous materials within one-quarter mile of an existing or proposed school were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that

were not previously analyzed under IS/MND No. IP 11-444. The Modified Project site is located within one-quarter mile of school locations; however, the Modified Project routine maintenance activities, which are largely the same as analyzed under IS/MND No. IP 11-444 do not pose a significant health risk, as these are common substances (i.e. include herbicides, pesticides, and gasoline/diesel fuel) utilized in standard maintenance practices, and the Modified Project would result in less than significant impacts. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Substantial Change from Previous Analysis. No significant impacts to Government Code Section 65962.5 (commonly referred to as the Cortese List) were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. Some of these additional flood control features are listed adjacent to/nearby sites located on the list of hazardous materials sites compiled pursuant to the Cortese List, including GeoTracker (SWRCB 2024) and EnviroStor (DTSC 2024). However, although maintenance activities may be located adjacent to hazardous materials sites within Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam), the activities would be conducted on existing flood control facilities, are temporary and generally minor in nature, and would not impact any existing hazardous sites. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to airport areas were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are associated with the Prado Basin, and include dikes, the dam and spillway. The Prado Basin is not located within two miles of a public airport, and the closest airport is Ontario Airport, located approximately 15 miles north of the northern boundary of the Prado Basin. The Seven Oaks Dam is also not located within two miles of a public airport, and the closest airport is San Bernadino International Airport, located 10 miles west. As such, the Modified Project would result in no impacts for people residing or working in the Project area regarding safety hazards or excessive noise. Therefore, Modified Project

implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to adopted emergency response or evacuation plans were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with implementation of standardized avoidance measures. The routine maintenance activities would not result in changes to traffic patterns, and all activities would occur within the existing facilities and associated rights-of way. As such, the Modified Project would result in no impact and would not interfere with an adopted emergency response plan or emergency evacuation plan. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to wildland fires were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are associated with the Prado Basin, and include dikes, the dam and spillway as well as the Seven Oaks Dam. Although these additional facilities may occur within the vicinity of a wildfire hazard severity zone, the Modified Project would not create new habitable structures or expand the use of the existing facilities. As such, the Modified Project would not expose people or structures to wildfire hazards, and no impact would occur. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP

11-444. For these reasons, no major revisions to the hazards analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for hazards was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.10 HYDROLOGY AND WATER QUALITY

4.10.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 determined that Approved Project construction may potentially result in erosion, siltation, and/or sedimentation, and would be required to obtain applicable permits from the RWQCB pertaining to waste discharge requirements and dewatering activities if these activities were required during proposed routine maintenance. IS/MND No. IP 11-444 noted that, although not likely due to the nature of the project, if one acre or more of soil disturbance were to occur, the Approved Project construction would comply with the Statewide General Construction permit through preparation and implementation of a Stormwater Pollution Prevention Plan (SWPPP), which would specify BMPs to be used during project construction to minimize water quality impacts or storm water pollution. Water quality and waste discharge construction impacts were identified as less than significant after regulatory compliance.

IS/MND No. IP 11-444 determined that because the Approved Project involves facility, channel, and right-of-way maintenance activities within the existing OCFCD/OC Public Works rights-of-way and did not propose any expansion to existing facilities, project implementation would not result in the increase of impervious surfaces or generate additional runoff, and operational water quality impacts were identified as less than significant.

IS/MND No. IP 11-444 concluded that due to the nature of the Approved Project area, it is anticipated that multiple on-site facilities are within the limits of a FEMA designated 100-year flood hazard area and/or a tsunami inundation zone; however, because no habitable structures would be constructed as part of the proposed project, no hazards related to impeded or redirected flows, failure of a levee or dam, or tsunami or seiches would increase or worsen as a result of project implementation. No significant impacts were found, and no mitigation measures were identified.

IS/MND No. IP 11-444 for the Approved Project provided a full and complete analysis of hydrology and water quality impacts. Although, the threshold questions stated below have been modified through updates to the CEQA Environmental Checklist since 2013, the intent

of the questions is consistent with what was previously analyzed in IS/MND No. IP 11-444 for the Approved Project.

4.10.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

No Substantial Change from Previous Analysis. No significant impacts to water quality standards or waste discharge standards were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with incorporation of permit conditions. The Modified Project purpose aims to prevent flooding and erosion of adjacent roadways and properties during storm events. Additionally, if Modified maintenance activities would disturb more than one acre of soil, they would be subject to the NPDES Stormwater General Construction Permit for construction activities, which requires a SWPPP. Additionally, the Modified Project would not propose the expansion of any existing facilities, and would continue to maintain the existing flood control facilities throughout Orange County and associated infrastructure for OCFCD's facilities within Riverside and San Bernardino counties (i.e., Prado Basin and Seven Oaks Dam). As such, impacts would be less than significant. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to groundwater were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with incorporation of permit conditions. No groundwater would be pumped during maintenance activities, and no impact would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

(i) result in substantial erosion or siltation on- or off-site;

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

No Substantial Change from Previous Analysis. No significant impacts to erosion, siltation, or flooding were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with incorporation of permit conditions. The Modified Project purpose aims to prevent flooding and erosion of adjacent roadways and properties during storm events. Additionally, the Modified Project does not propose the expansion of existing facilities, and the drainage patterns would not be altered compared to existing conditions. The Modified Project would result in a less than significant impact. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or

No Substantial Change from Previous Analysis. No significant impacts to stormwater capacity or drainage were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with implementation of standardized avoidance measures. The Modified Project purpose aims to prevent flooding and erosion of adjacent roadways and properties during storm events, in addition to optimizing flood control capacity. As the Modified Project would maintain capacity of the existing storm drain system, and the Project would not contribute to additional polluted runoff within Orange County and portions of Riverside County and San Bernardino County, impacts would be less than significant. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

(iv) impede or redirect flood flows?

No Substantial Change from Previous Analysis. No significant impacts to flood flows were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with implementation of standardized avoidance measures. The Modified Project purpose aims to prevent flooding and erosion of adjacent roadways and properties during storm events. Additionally, the Modified Project does not propose the expansion of existing facilities, and the drainage patterns would not be altered compared to existing conditions. The Modified Project would result in a less than significant impact. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to flood hazards, tsunami, or seiche zones were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. Some of these additional flood control features are located within the FEMA designated 100-year floodplain (FEMA 2024), and additional Facilities such as the Prado Dam or Seven Oaks Dam could result in inundation by seiche, as it is anticipated that these facilities may fall within the limits of an inundation zone. However, as the maintenance activities are largely the same as analyzed under IS/MND No. IP 11-444, and no new habitable structures or expanded facilities would be proposed as part of the Modified Project, no hazards related to failure of a levee or dam, or tsunami or seiches would increase or worsen as a result of Project implementation. The Modified Project purpose aims to prevent flooding and erosion of adjacent roadways and properties during storm events. Additionally, the Modified Project does not propose the expansion of existing facilities, and the risk of pollutant release would not be altered compared to existing conditions. The Modified Project would provide flood control within Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam), and thus impacts would be less than significant. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No Substantial Change from Previous Analysis. No significant impacts to water quality or groundwater plans were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with implementation of standardized avoidance measures. The Modified Project purpose aims to prevent flooding and erosion of adjacent roadways and properties during storm events. Additionally, if Modified maintenance activities would disturb more than one acre of soil, they would be subject to the NPDES Stormwater General Construction Permit for construction activities, which requires a SWPPP. Additionally, the Modified Project would not propose the expansion of any existing facilities, and would continue to maintain the existing flood control facilities throughout Orange County and associated infrastructure for OCFCD's facilities within Riverside and San Bernardino counties (i.e., Prado Basin and Seven Oaks Dam). As such, impacts would be less than significant.

Additionally, no significant impacts to groundwater were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with implementation of

standardized avoidance measures. No groundwater would be pumped during maintenance activities, and no impact would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the hydrology and water quality analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for hydrology and water quality was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.11 LAND USE AND PLANNING

4.11.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

As discussed in IS/MND No. IP 11-444, the Approved Project would neither physically divide an established community, nor would it conflict with a Habitat Conservation Plan (HCP) or Natural Community Conservation Plan (NCCP). A less than significant finding was made, and no mitigation was identified.

IS/MND No. IP 11-444 determined that each of the Approved Project sites are designated/zoned specifically for County Flood Control/Transportation Use within each city, and Approved Project implementation would not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project. However, some facilities are located within the coastal zone and would be subject to the Coastal Act. As stated in IS/MND No. IP 11-444 for the Approved Project, with compliance with the requirements set forth in the coastal development permit (CDP) and implementation of **MM 4.4-1** and **MM 4.4-2** from IS/MND No. IP 11-444, which would ensure that potential impacts to adjacent environmentally sensitive areas and migratory birds are reduced to less than

significant levels, impacts pertaining to compliance with a local coastal program would be reduced to less than significant.

4.11.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

a) Physically divide an established community?

No Substantial Change from Previous Analysis. No significant impacts to physically dividing an established community were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway, and the Seven Oaks Dam. Although the flood control features are located within communities, they are existing facilities and would not be expanded beyond their current use. Additionally, the maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with implementation of standardized avoidance measures. The minor and short-term routine maintenance activities would not physically divide any established community throughout Orange County, and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam), and impacts would be less than significant. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to conflict with land use plan, policy or regulations were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are existing flood control features and located within the Prado Basin and Seven Oaks Dam. The Prado Basin and Seven Oaks Dam facilities are currently designated/zoned specifically for County Flood Control/Transportation Use, and would comply with all applicable zoning requirements. The additional maintenance activities would remain largely the same as under the Approved Project, and aims to minimize flood-related hazards through routine maintenance of Orange and Riverside County's flood control facilities. Additionally, since the Modified Project still includes facilities within Orange County that may be within the coastal zone and would be subject to the Coastal Act. As stated in IS/MND No. IP 11-444 for the Approved Project, with compliance with the requirements set forth in the coastal development permit (CDP) and

implementation of MM 4.4-1 and MM 4.4-2, would ensure that potential impacts to adjacent environmentally sensitive areas and migratory birds are reduced to less than significant levels. As such, The Modified Project would not conflict with any applicable land use plan, policy, or regulation with agency over the Modified Project areas. Impacts would be less than significant with mitigation incorporated. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the land use and planning analysis provided in IS/MND No. IP 11-444 are required, as no impacts requiring mitigation were identified.

Mitigation Program

The following MMs from IS/MND No. IP 11-444 would be incorporated:

MM 4.4-1 Prior to implementation of maintenance activities, a qualified biologist shall be retained by the OC Public Works, for any maintenance involving the disturbance of potentially sensitive vegetation, habitat or species within the NCCP and/or earthen channels. Once completed, the OC Public Works would submit relevant surveys to the CDFW and NROC (for sites within the NCCP) for compliance review and file. The biologist shall determine if any sensitive vegetation, species or habitat are on-site. If present, the biologist shall recommend avoidance or minimization that would address the impacts. Compensatory mitigation, if required, would include in-kind replacement at no less than a 1:1 ratio or as dictated by the regulatory agencies.

MM 4.4-2 Migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act (MBTA) of 1918 (50 C.F.R. §10.13). Sections 3503, 3503.5, and 3513 of the California Fish and Wildlife Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA).

Proposed project activities (including, but not limited to, staging and disturbances to native and on-native vegetation, structures, and substrates) shall occur outside of the avian breeding season which generally runs from

March 1-August 31 (as early as January 1 for some raptors) to avoid take of birds or their eggs. Depending on the avian species present (or non-present), a qualified biologist may determine that a change in the breeding season dates is warranted.

If avoidance of the avian breeding season is not feasible, beginning thirty days prior to the initiation of project activities, a qualified biologist with experience in conducting breeding bird surveys conduct weekly bird surveys to detect protected native birds occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300 feet of the disturbance area {within 500 feet for raptors). The surveys should continue on a weekly basis with the last survey being conducted no more than 3 days prior to the initiation of project activities. If a protected native bird is found, the project proponent should delay all project activities within 300 feet of on- and off-site suitable nesting habitat (within 500 feet for suitable raptor nesting habitat) until August 31. Alternatively, the qualified biologist could continue the surveys in order to locate any nests. If an active nest is located, project activities within 300 feet of the nest (within 500 feet for raptor nests) or as determined by a qualified biological monitor, must be postponed until the nest is vacated and juveniles have fledged and there is no evidence of a second attempt at nesting. Flagging, stakes, and/or construction fencing should be used to demarcate the inside boundary of the buffer of 300 feet (or 500 feet) between the project activities and the nest. Project personnel, including all contractors working on site, should be instructed on the sensitivity of the area. The OCFCD or County Bridge Maintenance should provide the County designated entity the results of the recommended protective measures described above to document compliance with applicable State and Federal laws pertaining to the protection of native birds. If the biological monitor determines that a narrower buffer between the project activities and observed active nests is warranted, he/she should submit the reasons why (e.g., species-specific information; ambient conditions and birds' habituation to them; and the terrain, vegetation, and birds' lines of sight between the project activities and the nest and foraging areas) in writing to the County designated entity.

The biological monitor shall be present on site during all grubbing and clearing of vegetation to ensure that these activities remain inside the demarcated area and that the flagging/stakes/fencing is being maintained, and to minimize the likelihood that active nests are abandoned or fail due to project activities. The biological monitor shall send weekly monitoring reports to the County during the grubbing and clearing of vegetation, and shall notify the County designated entity immediately if project activities damage active avian nests.

For bridge locations, a qualified biologist shall conduct a pre-construction survey for bats at bridges that have sufficient cover for bat roosting. Bats should be determined to be absent or flushed from roost locations prior to the

demolition or construction and maintenance of the bridge structure. If flushing of bats is required, it shall be done by the biologist during the non-breeding season from October 1 to March 31. During the maternity season from April 1 to September 30, prior to demolition or construction, a qualified biologist shall determine if a bat nursery is present at any sites identified as potentially housing bats. If an active nursery is present, disturbance of bats shall be avoided until the biologist determines that breeding is complete and young are reared.

4.12 MINERAL RESOURCES

4.12.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

According to IS/MND No. IP 11-444 prepared for the Approved Project, known mineral resources within Orange County are within the Santa Ana River, Trabuco Canyon, and San Juan Creek. However, because the proposed maintenance activities would be similar to the existing maintenance activities that occur within the on-site drainages, the Approved Project implementation would not result in the loss of availability of a known mineral resource or value, nor the loss of availability of a locally-important mineral resource recovery site, as compared to the existing conditions. Less than significant impacts were found related to mineral resources, and no mitigation measures were identified.

4.12.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

No Substantial Change from Previous Analysis. No significant impacts to mineral resources were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are existing flood control features and located within the Prado Basin and Seven Oaks Dam and are likely to fall within areas of known mineral resources (CGS 2024). However, the maintenance activities would remain largely the same as under the Approved Project and aim to minimize flood-related hazards through routine maintenance of Orange, Riverside, and San Bernardino County's flood control facilities. These activities would occur within

existing and previously disturbed facilities and would not disturb mineral areas. The Modified Project would result in less than significant impacts. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the mineral resources analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for mineral resources was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.13 NOISE

4.13.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 found that construction noise generated from the Approved Project would not exceed the construction noise criteria at the nearest noise sensitive uses, which include residential uses adjacent to several channels. Although temporary noise levels and durations resulting from the project would vary based on the type of maintenance activity being performed, IS/MND No. IP 11-444 determined that, even during a worst-case scenario where the three loudest pieces of equipment are operating simultaneously within a focused area and continuously over at least one hour, construction noise levels would not exceed applicable noise standards. Additionally, the Approved Project incorporated BMPs and adhered to the County's Standard Conditionals of Approval to further reduce construction-related noise. Due to the nature of the Approved Project, operational noise levels were determined to consistent with the existing conditions. IS/MND No. IP 11-444 concluded that the Approved Project would result in less than significant impacts related to short-term and long-term noise generation.

Similarly to project-generated noise levels, IS/MND No. IP 11-444 found that short-term and long-term groundborne vibration impacts resulting from the project would be less than significant. IS/MND No. IP 11-444 found that construction groundborne vibration would result primarily from off-site haul-truck travel and would be below applicable threshold, and operational groundborne vibration generation was determined to be the same as existing conditions. Less than signififcant impacts related to groundborne vibration were identified.

Lastly, IS/MND No. IP 11-444 determined that no private airstrips or related facilities are located in Orange County, and that no residential development or other development was proposed that would expose sensitive receptors or other to excessive noise and/or safety levels associated with a private airstrip. A no impact finding was made, and no mitigation measures related to this topic were identified, as none were necessary.

4.13.2 PROJECT ENVIRONMENTAL REVIEW

Impact Analysis

Would the Project:

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

No Substantial Change from Previous Analysis. No significant impacts to temporary or permanent increase in noise levels were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway, some of which are located adjacent to residential communities. The maintenance activities proposed under the Approved Project would be similar to those analyzed under the Modified Project, and are typically temporary and short in duration. Temporary noise may be associated with these maintenance activities, which may include heavy machinery and earth moving/soil compaction. However, these activities would be short-term, and would comply with all required BMPs, in addition to the Orange, Riverside, and San Bernardino County Noise Ordinances, which limit hours of construction activities. As such, maintenance-related noise impacts would be less than significant. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

b) Generation of excessive groundborne vibration or ground borne noise levels?

No Substantial Change from Previous Analysis. No significant impacts to groundbourne vibration were identified in IS/MND No. IP 11-444. As stated above, the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside County and San Bernardino that were not previously analyzed under IS/MND No. IP 11-444.

These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway and Seven Oaks Dam, some of which are located adjacent to residential communities. Additionally, the maintenance activities proposed under the Approved Project would remain largely the same under the Modified Project, and are typically temporary and have a short duration. Project maintenance activities may generate varying degrees of groundbourne vibration depending on the activity type and equipment used. Based on IS/MND No. IP 11-444, the closest sensitive receptors typically vary based on each facility but are generally at least 25 feet from the channels where maintenance work would occur, which is consistent with the additional areas within the County's right-of-way. Based on this analysis, groundbourne vibration levels for common equipment types (trucks, bulldozers, drill rigs) would be less than the 0.20-inch-per-second peak particle velocity (PPV) significance threshold developed by the Federal Transit Administration, and impacts would be less than significant. Because the additional maintenance activities would utilize these typical equipment types, the analysis would remain consistent for the Modified Project. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to projects located within a private airstrip or airport land use plan were identified in IS/MND No. IP 11-444. As stated above, the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway, and Seven Oaks Dam, none of which are located within private airstrips or two miles of a public airport. The Modified Project would not expose sensitive receptors to excessive noise associated with a private airstrip or public airport, and no impact would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or

alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions Ato the noise and vibration analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for noise and vibration was required in IS/MND No. IP 11-444, as no impacts were identified that required mitigation.

4.14 POPULATION AND HOUSING

4.14.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 for the Approved Project determined that because the Project would only involve maintenance of existing flood control facilities, and no residential or occupied structures were proposed as part of the Approved Project, and would not induce population growth, nor would it displace existing housing or people. The IS/MND No. IP 11-444 concluded that no impacts related to population and housing would occur.

4.14.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

a) **Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?**

b) **Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?**

No Substantial Change from Previous Analysis. No significant impacts to population and housing were identified in IS/MND No. IP 11-444. As stated above, the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway, and Seven Oaks Dam, none of which are residential uses or occupied structures. The existing flood control facilities throughout Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam, would involve similar maintenance activities to the Approved Project, and would not displace housing or create an additional population. Jobs related to the additional maintenance are currently provided for and individuals would not be required to move into the area or require additional housing.

No impact would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the population and housing analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for population and housing was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.15 PUBLIC SERVICES

4.15.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 concluded that the Approved Project development would not generate increased demands for public services. IS/MND No. IP 11-444 determined that the Approved Project development would not impact existing, or require additional, fire and police protection, school services, parks, or other public facilities. Impacts to public services were identified as less than significant.

4.15.2 PROJECT ENVIRONMENTAL REVIEW

a) Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: fire protection, police protection, schools, parks, and other public facilities?

No Substantial Change from Previous Analysis. No significant impacts to public services were identified in IS/MND No. IP 11-444. As stated above, the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway, and Seven Oaks Dam, none of which are residential uses or occupied structures, and would not generate an increase in population. The existing flood control facilities throughout Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam), would involve similar maintenance activities to the Approved Project, and would not impact the existing or require additional fire and police protection, school services, parks or other public facilities. No impact would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No.IP 11-444. For these reasons, no major revisions to the public services analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for public services was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.16 RECREATION

4.16.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

As set forth in IS/MND No. IP 11-444 for the Approved Project, it was determined that, although multiple on-site channels include pedestrian access/bikeways within the County's right-of-way which could be subject to temporary interference during construction, the Approved Project would not result in the expansion or construction of any new facilities, and would not generate new residents within the County. Impacts related to demand or use of recreational facilities were identified as less than significant.

4.16.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

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

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

No Substantial Change from Previous Analysis. No significant impacts to recreation were identified in IS/MND No. IP 11-444. As stated above, the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway, and Seven Oaks Dam, none of which are residential uses or occupied structures, and would not generate an increase in population. The existing flood control facilities throughout Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam), would involve similar maintenance activities to the Approved Project. Although multiple on-site channels include pedestrian access/bikeways within the County's right-of-way which could be subject to temporary interference during construction, the Modified Project would not result in the expansion or construction of any new facilities, and would not generate new residents within the County. As such, the Modified Project would not significantly impact the existing parks and recreation facilities, and no impact would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the recreation analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for recreation was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.17 TRANSPORTATION

4.17.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 analyzed transportation impacts for the Approved Project using Vehicle Miles Travelled (VMT). The IS/MND No. IP 11-444 determined that traffic resulting from the Approved Project was only anticipated during the proposed maintenance activities, and that the only vehicle trips generated by the Approved Project would be from maintenance worker commutes, delivery of minor supplies and materials, and hauling of clearing debris from the site. IS/MND No. IP 11-444 determined that the number of Project-generated trips would be relatively small and short-term in nature, occurring between 6:30 a.m. to 3:30 p.m., and would not result in any traffic impacts to surrounding public roadways. Additionally, because the proposed maintenance activities were to occur along the on-site drainages and associated rights-of-way and would cease upon the completion of the maintenance activities, future traffic resulting from project implementation was anticipated to be similar to existing conditions.

IS/MND No. IP 11-444 determined that project implementation would not create a potential safety risk to/from air traffic, that vehicular and equipment access would occur along all of the existing maintenance access roads and no new roadways or access areas would be constructed, and that the proposed maintenance activities would not be incompatible with on- and off-site uses or conflict with adopted policies, plans, or programs regarding transit,

bicycle, or pedestrian facilities. Transportation and traffic impacts were identified as less than significant.

IS/MND No. IP 11-444 for the Approved Project provided a full and complete analysis of transportation impacts, including identifying the anticipated trip generation associated with the Project. Although, the threshold questions stated below have been modified through updates to the CEQA Environmental Checklist since 2013, the previous analysis related to Vehicle Miles Traveled is consistent with what was previously analyzed in IS/MND No. IP 11-444 for the Approved Project in terms of anticipated trip generation.

4.17.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

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

No Substantial Change from Previous Analysis. No significant impacts to conflict with a transportation plan, ordinance or policy was identified in IS/MND No. IP 11-444. The existing flood control facilities throughout Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam), would involve similar maintenance activities to the Approved Project, and although some additional traffic would be generated related to the additional Prado Basin and Seven Oaks Dam facilities and additional maintenance activities, Modified Project related trips would be short term in nature and would cease upon completion of the temporary maintenance activities. Additionally, all activities would occur within the existing facilities and associated rights-of-way. Less than significant impacts would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. IS/MND No. IP 11-444, was approved in 2013. At the time, the County utilized the Intersection Capacity Utilization methodology to determine transportation impacts under CEQA. Effective March 2010, the CEQA Guidelines were amended to require an analysis and mitigation for GHG emissions.

In 2013, Senate Bill (SB) 743 was passed, updating the way that transportation impacts are measured in California. SB 743 required a statewide change for transportation impacts under CEQA to utilize VMT as the metric to measure transportation impacts. The California Natural Resources Agency adopted revised CEQA Guidelines on December 28, 2018. Among the changes to the guidelines was the removal of vehicle delay and Level of Service from consideration for transportation impacts under CEQA. With the adopted guidelines, transportation impacts were to be evaluated based on a project's effect on VMT. Lead agencies could continue using their current impact criteria until June 30, 2020, or to opt into the revised transportation guidelines.

As discussed previously, IS/MND No. IP 11-444 characterized daily vehicular trips associated with the Project as minimal and infrequent due to the nature of the project. The quantification of VMT would be speculative due to uncertainties associated with the number of construction workers, labor hours, and truck trips necessary for the maintenance activities. However, the number of trips anticipated would be consistent with that as analyzed in IS/MND No. IP 11-444 and would be conducted in concert with other existing maintenance activities. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to geometric design features or incompatible uses were identified in IS/MND No. IP 11-444. The existing flood control facilities throughout Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam), would involve similar maintenance activities to the Approved Project, and all vehicular and equipment access to the Modified Project areas would occur within the existing facilities and associated rights-of-way. No new roadways or improvements would be constructed. The existing flood control facilities would continue under the same use, and would not create incompatible uses. No impact would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

d) Result in inadequate emergency access?

No Substantial Change from Previous Analysis. No significant impacts to inadequate emergency access were identified in IS/MND No. IP 11-444. The maintenance activities proposed under the Approved Project would remain largely the same, and the Modified Project would allow for these maintenance activities to occur adjacent to channels with sensitive habitats with incorporation of permit conditions. The routine maintenance activities would not result in changes to traffic patterns, and all activities would occur within the existing facilities and associated rights-of way. As such, the Modified Project would result in no impact. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of

substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the transportation analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for transportation was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.18 TRIBAL CULTURAL RESOURCES

4.18.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

Tribal cultural resources (TCRs) are defined by Public Resources Code (PRC) Section 21074, as sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe in California that is on the contact list maintained by the Native American Heritage Commission. IS/MND No. IP 11-444 for the Approved Project did not analyze Tribal Cultural Resources as a stand-alone topic as it was not required at the time of its preparation.

As part of IS/MND No. IP 11-444 prepared for the Approved Project, the City notified 14 tribes of the 2017 Approved Project and received one response. The Gabrielino Band of Mission Indians – Kizh Nation requested that a Certified Native American Monitor be present during any and all ground disturbance in an effort to protect any cultural resources that may be affected. IS/MND No. IP 11-444 addressed impacts to tribal cultural resources in Section 5.6b and 5.6e Cultural Resources. Effective December 28, 2018, the State adopted amendments to the State CEQA Guidelines requiring the analysis and mitigation of tribal cultural resources in draft CEQA documents. IS/MND No. IP 11-444 concluded that grading and excavation activities could disturb archaeological resources that may be buried in site soils. Impacts to TCRs were determined to be less than significant after implementation of **MM 4.5-1**.

4.18.2 PROJECT ENVIRONMENTAL REVIEW

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

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

ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

No Substantial Change from Previous Analysis. No significant impacts to tribal cultural resources were identified in IS/MND No. IP 11-444. Similar to the IS/MND No. IP 11-444 analysis, the Modified Project would only disturb existing engineered fill materials associated with the existing drainage facilities throughout Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam). No native soil would be disturbed during the Modified Project's additional maintenance activities. However, if any unknown archaeological resources are inadvertently discovered during maintenance activities, the Modified Project would implement **MM 4.5-1** from IS/MND No. IP 11-444 to ensure impacts would be less than significant with mitigation incorporated. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the tribal cultural resources analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

The following MMs from IS/MND No. IP 11-444 would be incorporated:

MM 4.5-1 If evidence of archeological resources is found during maintenance activities, activities in that area shall cease and the Contractor shall immediately contact the Orange County Public Works Director. The Orange County Public Works Director, or his/her designee, shall ensure that a County-approved Archeologist has been retained to explore, salvage, and catalogue archeological resources, as necessary. If the archeological resources are found to be significant, the Archeologist shall determine appropriate actions in cooperation with the Contractor in order to ensure proper exploration and/or salvage.

Within 30 days of the completion of maintenance activities, the Orange County Public Works Director, or his/her designee, shall confirm that the Archeologist's follow up report has been approved. The report shall include the inspection period, an analysis of any artifacts found, and the present repository of the artifacts. The Contractor shall prepare excavated materials to the point of identification and offer excavated finds for curatorial purposes to the Orange County Public Works Director, or his/her designee, on a first-refusal basis. These actions, as well as final mitigation and disposition of the resources, shall be subject to approval by the Orange County Public Works Director, or his/her designee.

4.19 UTILITIES AND SERVICE SYSTEMS

4.19.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

Water

IS/MND No. IP 11-444 found that the Approved Project would not cause an increase in population as the project would involve routine maintenance activities within existing channels within the County. The IS/MND No. IP 11-444 stated that project operations would not require the use of water supplies, and although project maintenance activities may require the temporary use of water trucks, potential impacts to water supply were less than significant.

Wastewater

IS/MND No. IP 11-444 determined that the Approved Project would have no impact on the existing wastewater system, as it involves routine maintenance activities within the existing drainages and did not contain components that would result in an increased population

leading to the need for new or expanded wastewater facilities. IS/MND No. IP 11-444 determined thar the on-site drainages are not connected to the County's wastewater system, and that any maintenance activities that would disturb one-acre or more of soil would be required to comply with the conditionals of the NPDES Permit and Waste Discharge Requirements (WDRs) adopted by the Santa Ana and San Diego Regional Water Quality Control Boards (RWCQBs). IS/MND No. IP 11-444 concluded that the Approved Project would improve existing flood control facilities within the County and would not involve any actions that would result in significant impacts to wastewater facilities. No impact was found.

Storm Drain

IS/MND No. IP 11-444 concluded that the Approved Project did not propose any expansion of existing storm drain facilities and would not result in the increased capacity of the storm water system as the project involved routine maintenance activities along existing flood control and bridge facilities that would not involve new development that cause an increase in population resulting in the demand for new or expanded storm drain facilities. No impact was found.

Solid Waste

IS/MND No. IP 11-444 determined that the Approved Project was only anticipated to generate solid waste during maintenance, and that no material would require transport to landfills following the completion of maintenance activities. IS/MND No. IP 11-444 stated that all sediment/debris created during maintenance would be hauled to an approved County facility, and cleared materials would be disposed of in the Olinda Alpha Landfill, the Prima Deshecha Landfill, or the Frank R. Bowerman Landfill, which are all fully permitted to receive such solid waste. Due to the nature of the maintenance activities, IS/MND No. IP 11-444 concluded that the project would not increase the amount of solid waste generated within the County, and a less than significant impact would occur.

IS/MND No. IP 11-444 for the Approved Project did not specifically analyze energy (electricity and natural gas) or telecommunications due to the nature of the Project and the lack of demand for these utilities or services.

4.19.2 PROJECT ENVIRONMENTAL REVIEW

Would the Project:

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

No Substantial Change from Previous Analysis. No significant impacts to water, wastewater, or storm drain were identified in IS/MND No. IP 11-444. As stated above, the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within

Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway, and Seven Oaks Dam, none of which are residential uses or occupied structures, and would not generate an increase in population. The existing flood control facilities throughout Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam), would involve similar maintenance activities to the Approved Project, and would not require the use of water supplies beyond temporary use of watering trucks and would not generate wastewater supplies. Additionally, the Modified Project purpose aims to prevent flooding and erosion of adjacent roadways and properties during storm events. If Modified maintenance activities would disturb more than one acre of soil, they would be subject to the NPDES Stormwater General Construction Permit for construction activities, which requires a SWPPP. Additionally, the Modified Project would not propose the expansion of any existing facilities and would continue to maintain the existing flood control facilities within Orange, Riverside and San Bernardino Counties. Although not specifically addressed in IS/MND No. IP 11-444, the Modified Project, similar to the previously Approved Project, would not require electricity, natural gas, or create new demand for telecommunications. The Modified Project would not require the relocation or construction of new or expanded utilities, and less than significant impacts would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to water supplies were identified in IS/MND No. IP 11-444. As stated above, the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway, and Seven Oaks Dam, none of which are residential uses or occupied structures, and would not generate an increase in population. The existing flood control facilities throughout Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam), would involve similar maintenance activities to the Approved Project, and would not require the use of water supplies beyond temporary use of watering trucks. Less than significant impacts would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

c) Result in a determination by the wastewater treatment provider which serves or may serve the Project that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments?

No Substantial Change from Previous Analysis. No significant impacts to wastewater supplies were identified in IS/MND No. IP 11-444. As stated above, the additional

maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway, and Seven Oaks Dam, none of which are residential uses or occupied structures, and would not generate an increase in population. The existing flood control facilities throughout Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam) would involve similar maintenance activities to the Approved Project and would not generate sewage or require wastewater treatment facilities. Less than significant impacts would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to solid waste standards were identified in IS/MND No. IP 11-444. Although the additional flood control facilities not previously analyzed under IS/MND No. IP 11-444 are located in Riverside and San Bernardino County, the nearest landfill is still Olinda Alpha Landfill in Orange County, which is fully permitted to receive any solid waste from the Modified Project. In addition, Riverside County consists of five landfills including the Badlands, Blyth, Desert Center, Lamb Canyon and Oasis Landfills, that would be able to receive solid waste from the Modified Project in the case the Olinda Alpha Landfill could no longer service the sites. Less than significant impacts would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

e) Comply with federal, State, and local statutes and regulations related to solid waste?

No Substantial Change from Previous Analysis. No significant impacts to solid waste were identified in IS/MND No. IP 11-444. The additional maintenance activities not previously analyzed under IS/MND No. IP 11-444 would be required to be in compliance with Federal, State and local solid waste regulations. Although the additional flood control facilities are located in Riverside and San Bernardino County, the nearest landfill is still Olinda Alpha Landfill in Orange County, which is fully permitted to receive any solid waste from the Modified Project. No impact would occur. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously

identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the utilities analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for utilities was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.20 WILDFIRE

4.20.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

Wildfire impacts of Approved Project were analyzed in the Hazards and Hazardous Materials section of the IS/MND No. IP 11-444. IS/MND No. IP 11-444 found that although some of the on-site drainages may be located in the vicinity of a wildfire hazard area, the Approved Project would not construct any new structures and thus would not expose people or structure to wildfires. Therefore, IS/MND No. IP 11-444 concluded that the Approved Project would have no impact regarding wildfire risks and no mitigation measures were identified.

4.20.2 PROJECT ENVIRONMENTAL REVIEW

If located in or near State responsibility areas or lands classified as very high fire hazard severity zones, would the project:

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

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

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

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

No Substantial Change from Previous Analysis. No significant impacts to wildland fires were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are associated with the Prado Basin, and include dikes, the dam and spillway, and the Seven Oaks Dam. Although these additional facilities may occur within the vicinity of a wildfire hazard severity zone (CAL Fire 2024), the Modified Project would not create new habitable structures or expand the use of the existing facilities. As such, the Modified Project would not expose people or structures to wildfire hazards, and no impact would occur. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the wildfire analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for wildfire was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

4.21 MANDATORY FINDINGS OF SIGNIFICANCE

4.21.1 SUMMARY OF PREVIOUS ENVIRONMENTAL REVIEW

County-Wide Long-Term Routine Maintenance Permitting Program (IP-11-444) Initial Study/Mitigated Negative Declaration No. IP 11-444

IS/MND No. IP 11-444 determined that potential impacts associated with the Approved Project would be encountered only during the proposed maintenance activities, which are temporary in nature, and no long-term operational impacts would occur. Short term maintenance activities may impact potential sensitive plant and wildlife species or habitat or nesting birds. Therefore, with implementation of **MMs 4.4.-1** and **4.4-2**, impacts would be less than significant related to degrading quality of the environment. Additionally, the Approved Project was not determined to result in elimination of important example of California history or prehistory with **MMs 4.5-1** through **4.5-3** incorporated. IS/MND No. IP 11-444 concluded that impacts would be less than significant with mitigation incorporated.

IS/MND No. IP 11-444 also determined that the Approved Project would not involve significant cumulate impacts, due to the nature of the flood control facility maintenance. Improvements would be confined to the OCFCD/OCPW rights-of-way, and would not result in population growth either directly or indirectly. Although the Approved Project may incrementally increase impacts to other resources (i.e. water quality, air quality, noise, etc.) temporarily these impacts were determined to be less than significant, and therefore the Approved Project's contribution to these effects would not be considered cumulative. Impacts were determined to be less than significant.

IS/MND No. IP 11-444 concluded that the Approved Project's impacts related to aesthetics, air pollution, noise, hazards and traffic would be short term in nature and similar to existing conditions. As such, the Approved Project would not result in significant adverse effects on human beings, and IS/MND No. IP 11-444 stated impact would be less than significant.

4.21.2 PROJECT ENVIRONMENTAL REVIEW

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

No Substantial Change from Previous Analysis. No significant impacts to reduction of wildlife habitat or elimination of important history/prehistory were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are associated with the

Prado Basin, and include dikes, the dam and spillway, and Seven Oaks Dam, that may contain sensitive species or nesting birds. As such, the Modified Project would incorporate **MM 4.4.-1** and **MM 4.4-2** from IS/MND No. IP 11-444, and impacts related to the natural environment would be less than significant with mitigation incorporated.

Additionally, if any unknown archaeological or paleontological resources or human remains are inadvertently discovered during maintenance activities, the Modified Project would implement **MMs 4.5-1** through **4.5-3** from IS/MND No. IP 11-444 to ensure impacts would be less than significant with mitigation incorporated related to periods or California history or prehistory. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required

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

No Substantial Change from Previous Analysis. No significant impacts related to cumulatively considerable were identified in IS/MND No. IP 11-444. As stated above, the additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are within the Prado Basin and include Dikes, the Dam and Spillway, and Seven Oaks Dam, none of which are residential uses or occupied structures. The existing flood control facilities throughout Orange County and Riverside and San Bernardino Counties (i.e., Prado Basin and Seven Oaks Dam) would involve similar maintenance activities as the Approved Project, and would not generate an additional population growth. Although the Modified Project may incrementally increase impacts to other resources (i.e. water quality, air quality, noise, etc.) temporarily, these impacts were determined to be less than significant, and therefore the Modified Project's contribution to these effects would not be considered cumulative. Therefore, the Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

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

No Substantial Change from Previous Analysis. No significant impacts to adverse effects on human beings were identified in IS/MND No. IP 11-444. The additional maintenance activities would occur primarily within the same areas discussed in IS/MND No. IP 11-444, in addition to a few areas within the County's right-of-way within Riverside and San Bernardino County that were not previously analyzed under IS/MND No. IP 11-444. These additional flood control features are associated with the Prado Basin, and include dikes, the dam and spillway, and Seven Oaks Dam, and additional maintenance activities would be largely the same as analyzed under IS/MND No. IP 11-444. Overall, the Modified Project's

impacts related to aesthetics, air pollution, noise, hazards and traffic would be short term in nature and similar to existing conditions. As such, the Modified Project would not result in significant adverse effects on human beings, and impacts would be less than significant. Therefore, Modified Project implementation would not cause new significant impacts or increased impacts and would not require new mitigation. No subsequent analysis is required.

Conclusion

The impacts of the Modified Project would be consistent with the impacts identified for the previously Approved Project analyzed in IS/MND No. IP 11-444. The Modified Project would not create a new significant impact or a substantial increase in the severity of previously identified effects. In regard to Section 15162 of the State CEQA Guidelines, the Modified Project (1) would not propose substantial changes; (2) would not have circumstantial changes when the project is undertaken; and (3) would bring about no new information of substantial importance that would (a) create new significant impacts, (b) increase the severity of previously examined effects, or (c) determine that mitigation measures or alternatives previously found not to be feasible would, in fact, be feasible; or (4) introduce mitigation measures that are considerably different from those analyzed in IS/MND No. IP 11-444. For these reasons, no major revisions to the mandatory findings of significance analysis provided in IS/MND No. IP 11-444 are required.

Mitigation Program

No mitigation for mandatory findings of significance was required in IS/MND No. IP 11-444, as no impacts requiring mitigation were identified.

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5.0 CONCLUSIONS

Based on the analysis provided in this Addendum No. 1, the record demonstrates sufficient evidence to determine that (1) the Modified Project does not represent a substantial change from the previously approved project evaluated in *County-Wide Long-Term Routine Maintenance Permitting Program Initial Study/Mitigated Negative Declaration No. IP 11-444*; (2) no substantial changes have occurred with respect to the circumstances under which the Project is undertaken; and (3) the modifications to the Modified Project have not introduced new information of substantial importance which was not known and could not have been known at the time the project was certified as complete. The Modified Project would not have any new or substantially more severe impacts than what was evaluated in *County-Wide Long-Term Routine Maintenance Permitting Program Initial Study/Mitigated Negative Declaration No. IP 11-444*. No new Mitigation Measures are recommended in addition to those adopted at the time the project was approved that would further reduce project impacts. The *County-Wide Long-Term Routine Maintenance Permitting Program Initial Study/Mitigated Negative Declaration No. IP 11-444,* when considered in conjunction with this Addendum No. 1, provides adequate documentation pursuant to the CEQA for the County-Wide Long-Term Routine Maintenance Permitting Program.

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APPENDIX A

FACILITIES LIST

Table A-1
List of County-Owned Basin and Dam Facilities

Name	FacilityNum
CRESCENT BASIN	B01B02
RAYMOND BASIN	B01B03
PLACENTIA BASIN	B01B04
LOS ALAMITOS BASIN	C01B01
ROSSMOOR BASIN	C01B02
WEST STREET BASIN	C05B01
HASTER BASIN	C05B02
MILLER BASIN	E02B01
YORBA LINDA RESEVOIR	E04D01
VILLA PARK DAM	E08D01
FLETCHER BASIN	E10B01
LOWER PETERS BASIN	F06B01
PETERS CANYON DAM	F06B03
EL MODENA BASIN	F07B01
SAN JOAQUIN BASIN	F14B01
MARSHBURN BASIN	F16B01
AGUA CHINON BASIN	F18B01
TRABUCO BASIN	F25B01
ORCHARD BASIN	F26B02
HICKS CANYON BASIN	F27B01
SULPHUR CREEK DAM	J03D01
GALIVAN BASIN	L03B02
HORNO CREEK BASIN	L05B01
TALEGA BASIN	M02B01
SEVEN OAKS DAM	7 OAKS DAM
NEWLAND BASIN	C05B03
BEE CANYON BASIN	F16B02
ROUND CANYON BASIN	F16B03
E. HICKS CANYON BASIN	F27B02
HARBOR VIEW DAM	G00D02
AUDUBON BASIN	I02B01
CYPRESS PUMP STATION	B01PS1
GOBERNADORA BASIN	L07B01
NORTHWESTERN BASIN	L02P22

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
206	Underground Conduit	F	F19-05	Alton Parkway/Muirlands Blvd RCB Culvert	Concrete	SERRANO CREEK CHANNEL	PM081
206	Concrete-Lined	F	F19-06	u/s Alton to d/s A.T.&S.F. R.R.	Concrete	SERRANO CREEK CHANNEL	PM081
206	Underground Conduit	F	F19-07.01	A.T.&S.F. R.R. RCB Culvert	Concrete	SERRANO CREEK CHANNEL	PM081
206	Underground Conduit	F	F19-07.02	u/s A.T.&S.F. R.R. to d/s transition	Concrete	SERRANO CREEK CHANNEL	PM081
206	Concrete-Lined	F	F19-08.01	u/s transition to junction structure	Concrete	SERRANO CREEK CHANNEL	PD196
206	Concrete-Lined	F	F19-08.02	junction structure to d/s transition	Concrete	SERRANO CREEK CHANNEL	PD196
206	Concrete-Lined	F	F19-08.03	u/s transition to d/s RCB	Concrete	SERRANO CREEK CHANNEL	PD196
206	Underground Conduit	F	F19-09.01	begin RCB to grade break	Concrete	SERRANO CREEK CHANNEL	PM082
206	Underground Conduit	F	F19-09.02	grade break to u/s Jeronimo	Concrete	SERRANO CREEK CHANNEL	PM082
206	Concrete-Lined	F	F19-10.01	u/s Jeronimo to	Concrete	SERRANO CREEK CHANNEL	PM082
206	Concrete-Lined	F	F19-10.02	d/s transition	Concrete	SERRANO CREEK CHANNEL	PM082
206	Concrete-Lined	F	F19-10.03	u/s transition to d/s Toledo/Bake	Concrete	SERRANO CREEK CHANNEL	PM082
206	Underground Conduit	F	F19-11	Toledo Way RCB Culvert	Concrete	SERRANO CREEK CHANNEL	PM082
206	Underground Conduit	F	F19-12	Bake Parkway RCB Culvert	Concrete	SERRANO CREEK CHANNEL	PM082
206	Natural Watercourse	F	F19-13	u/s Bake to d/s drop structure	Concrete	SERRANO CREEK CHANNEL	PM082
206	Riprap Channel	F	F19-14.01	u/s drop struture to grade break	Earth	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-14.02	grade break to d/s variable side slope	Riprap	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-14.03	u/s variable side slope to end protection	Riprap	SERRANO CREEK CHANNEL	PD197
206	Natural Watercourse	F	F19-15	Natural Watercourse	Riprap	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-16.01	u/s drop struture to grade break	Earth	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-16.02	grade break to grade break	Riprap	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-16.03	grade break to end protection	Riprap	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-16.04	begin protection to grade break	Riprap	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-16.05	grade break to grade break	Riprap	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-16.06	grade break to grade break	Riprap	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-16.07	grade break to end protection	Riprap	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-16.08	begin protection to d/s drop structure	Riprap	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-16.09	u/s drop structure to end protection	Riprap	SERRANO CREEK CHANNEL	PD197
206	Natural Watercourse	F	F19-17	Natural Watercourse	Riprap	SERRANO CREEK CHANNEL	PD197
207	Concrete-Lined	F	F20-06.01	u/s RCB to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
207	Concrete-Lined	F	F20-06.02	grade break to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
207	Concrete-Lined	F	F20-06.03	grade break to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
207	Concrete-Lined	F	F20-06.04	grade break to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
207	Concrete-Lined	F	F20-06.05	grade break to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
207	Concrete-Lined	F	F20-06.06	grade break to d/s Astor	Concrete	BORREGO CANYON CHANNEL	PD201
207	Underground Conduit	F	F20-07	Astor Road RCB Culvert	Concrete	BORREGO CANYON CHANNEL	PD201
207	Concrete-Lined	F	F20-08.01	u/s Astor to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
207	Concrete-Lined	F	F20-08.02	grade break to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
207	Concrete-Lined	F	F20-08.03	grade break to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
207	Concrete-Lined	F	F20-08.04	grade break to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
207	Concrete-Lined	F	F20-08.05	grade break to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
208	Riprap Channel	F	F23-01.03	u/s transition to end construction	Earth	CANADA CHANNEL	PD203
208	Earth Channel	F	F23-03	d/s Mill Creek to d/s Mill Creek	Earth	CANADA CHANNEL	PD203
208	Earth Channel	F	F23-04	Mill Creek Drive Bridge	Earth	CANADA CHANNEL	PD203
208	Earth Channel	F	F23-05	Mill Creek Drive to d/s F23S02 confluence	Earth	CANADA CHANNEL	PD203
208	Earth Channel	F	F23-06	u/s F23S02 confluence to	Earth	CANADA CHANNEL	PD203
208	Earth Channel	F	F23-07.01	36" RCP	Earth	CANADA CHANNEL	PD203
208	Earth Channel	F	F23-07.02	36" RCP to 36" RCP	Earth	CANADA CHANNEL	PD203
208	Earth Channel	F	F23-07.03	36" RCP to 30" RCP	Earth	CANADA CHANNEL	PD203

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
208	Earth Channel	F	F23-07.04	30" RCP to d/s Moulton	Earth	CANADA CHANNEL	PD203
208	Underground Conduit	F	F23-08	Moulton Parkway RCB Culvert	Earth	CANADA CHANNEL	PD203
208	Underground Conduit	F	F23-09	Moulton Parkway RCB Culvert	Concrete	CANADA CHANNEL	PD203
208	Underground Conduit	F	F23-10.01	Moulton Parkway RCB Culvert	Concrete	CANADA CHANNEL	PD203
208	Underground Conduit	F	F23-10.02	Moulton Parkway RCB Culvert	Concrete	CANADA CHANNEL	PD203
208	Underground Conduit	F	F23-10.03	Moulton Parkway RCB Culvert	Concrete	CANADA CHANNEL	PD203
208	Earth Channel	F	F23-11.01	u/s Moulton to inlet structure	Concrete	CANADA CHANNEL	PD203
208	Earth Channel	F	F23-11.02	inlet structure to d/s Del Lago	Earth	CANADA CHANNEL	PD203
208	Underground Conduit	F	F23-12	Del Lago RCB Culvert	Earth	CANADA CHANNEL	PD203
208	Earth Channel	F	F23-13.01	u/s Del Lago to d/s transition	Concrete	CANADA CHANNEL	PD203
218	Underground Conduit	F	F25-03.02	grade break to end RCB	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-04.01	begin RC channel to d/s grade break	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-04.02	u/s grade break to d/s grade break	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-04.03	u/s grade break to grade break	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-04.04	grade break to d/s transition	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-05.01	u/s transition to	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-06.01	u/s grade break to grade break	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-06.02	grade break to d/s Culver	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Underground Conduit	F	F25-07	Culver Drive RCB Culvert	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-08.01	u/s Culver to grade break	Concrete	CENTRAL IRVINE CHANNEL	PD205
345	Underground Conduit	F	F26-03.01	u/s F26P01 to	Concrete	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-02	height transition to d/s F26P01	Concrete	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-03.03	u/s grade break to grade break	Concrete	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-03.04	grade break to 24" RCP	Concrete	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-03.05	24" RCP to grade break	Concrete	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-03.06	grade break to 36" RCP	Concrete	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-03.07	36" RCP to grade break	Concrete	RATTLESNAKE CANYON CHANNEL	PM089
346	Concrete-Lined	F	F27-01.01	u/s Peters Canyon Channel confluence to d/s grade*	Concrete	HICKS CANYON CHANNEL	PM090
346	Concrete-Lined	F	F27-01.02	grade break to d/s RCB	Concrete	HICKS CANYON CHANNEL	PM090
224	Underground Conduit	G	G02-01.05	u/s manhole to d/s manhole	Concrete	EAST COSTA MESA CHANNEL	PD206
224	Underground Conduit	G	G02-01.06	u/s manhole to end RCP	Concrete	EAST COSTA MESA CHANNEL	PD206
224	Concrete-Lined	G	G02-02	u/s channel transition to d/s Grove	Concrete	EAST COSTA MESA CHANNEL	PD206
224	Underground Conduit	G	G02-03	Grove Lane RCB Culvert	Concrete	EAST COSTA MESA CHANNEL	PD206
224	Concrete-Lined	G	G02-04	u/s Grove to d/s Blue Gum	Concrete	EAST COSTA MESA CHANNEL	PD206
224	Underground Conduit	G	G02-05	Blue Gum Lane RCB Culvert	Concrete	EAST COSTA MESA CHANNEL	PD206
224	Concrete-Lined	G	G02-06	u/s Blue Gum to d/s Dover	Concrete	EAST COSTA MESA CHANNEL	PD206
224	Underground Conduit	G	G02-07	Dover Drive RCB Culvert	Concrete	EAST COSTA MESA CHANNEL	PD206
224	Underground Conduit	G	G02-09	Mariners Drive RCB Culvert	Concrete	EAST COSTA MESA CHANNEL	PD206
232	Concrete-Lined	I	I02-08	u/s RCB Culvert to d/s transition	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Concrete-Lined	I	I02-09	u/s transition to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Underground Conduit	I	I02-16	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Concrete-Lined	I	I02-17	u/s RCB Culvert to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Underground Conduit	I	I02-18	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Concrete-Lined	I	I02-19.02	grade break to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Concrete-Lined	I	I02-19.01	u/s RCB Culvert to grade break	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Underground Conduit	I	I02-20	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD210
232	Concrete-Lined	I	I02-21	u/s RCB Culvert to d/s Woodland	Concrete	LAGUNA CANYON CHANNEL	PD210
232	Underground Conduit	I	I02-22	Woodland Drive RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD210
232	Concrete-Lined	I	I02-23	u/s Woodland to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD210

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
232	Underground Conduit	I	I02-24	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD210
232	Concrete-Lined	I	I02-25	u/s RCB Culvert to d/s Canyon Acres	Concrete	LAGUNA CANYON CHANNEL	PD210
232	Underground Conduit	I	I02-26	Canyon Acres RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD210
232	Concrete-Lined	I	I02-27	u/s Canyon Acres to d/s transition	Concrete	LAGUNA CANYON CHANNEL	PD210
232	Concrete-Lined	I	I02-28	u/s transition to d/s Gill Bridge	Concrete	LAGUNA CANYON CHANNEL	PD210
232	Concrete-Lined	I	I02-29	Gill Bridge	Concrete	LAGUNA CANYON CHANNEL	PD210
232	Concrete-Lined	I	I02-30.01	u/s Gill Bridge to grade break	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-30.02	grade break to d/s Barrow Bridge	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-31	Barrow Bridge	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-32.01	u/s Barrow Bridge to	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-32.02	d/s Diemer Bridge	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-33	Diemer Bridge	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-34	u/s Diemer Bridge to d/s Kellog Bridge	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-35	Kellog Bridge	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-36	u/s Kellog Bridge to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Underground Conduit	I	I02-37	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-38	u/s RCB Culvert to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Underground Conduit	I	I02-39	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-40	u/s RCB Culvert to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Underground Conduit	I	I02-49	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD212
232	Concrete-Lined	I	I02-50	u/s RCB Culvert to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD212
232	Underground Conduit	I	I02-51	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD212
232	Concrete-Lined	I	I02-52	u/s RCB Culvert to	Concrete	LAGUNA CANYON CHANNEL	PD212
232	Concrete-Lined	I	I02-53	d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD212
232	Underground Conduit	I	I02-54	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD212
232	Concrete-Lined	I	I02-55	u/s RCB Culvert to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD212
232	Underground Conduit	I	I02-58.01	u/s transition to grade break	Concrete	LAGUNA CANYON CHANNEL	PD213
232	Underground Conduit	I	I02-58.03	grade break to d/s stilling basin (d/s Dog Park)	Concrete	LAGUNA CANYON CHANNEL	PD213
234	Concrete Soft Base	J	J01-22.03	u/s drop structure to d/s drop structure	Concrete/Earth	ALISO CREEK CHANNEL	PD217
234	Concrete Soft Base	J	J01-22.04	u/s drop structure to d/s drop structure	Concrete/Earth	ALISO CREEK CHANNEL	PD217
234	Concrete Soft Base	J	J01-23	begin const to d/s drop structure	Concrete/Earth	ALISO CREEK CHANNEL	PD217
234	Concrete-Lined	J	J01-25	u/s Los Alisos to	Concrete	ALISO CREEK CHANNEL	PD217
234	Concrete-Lined	J	J01-26.01	grade break	Concrete	ALISO CREEK CHANNEL	PD217
234	Concrete-Lined	J	J01-26.02	grade break to d/s Muirlands	Concrete	ALISO CREEK CHANNEL	PD217
234	Concrete-Lined	J	J01-27	Muirlands Blvd Bridge	Concrete	ALISO CREEK CHANNEL	PD217
234	Riprap Channel	J	J01-36.03	Natural Watercourse	Riprap	ALISO CREEK CHANNEL	PM095
234	Riprap Channel	J	J01-36.04	Natural Watercourse	Riprap	ALISO CREEK CHANNEL	PM095
234	Riprap Channel	J	J01-36.05	Natural Watercourse	Riprap	ALISO CREEK CHANNEL	PD218
234	Riprap Channel	J	J01-36.06	Natural Watercourse	Riprap	ALISO CREEK CHANNEL	PD218
234	Riprap Channel	J	J01-36.07	Natural Watercourse	Riprap	ALISO CREEK CHANNEL	PD218
234	Riprap Channel	J	J01-36.08	Natural Watercourse: d/s Trabuco	Riprap	ALISO CREEK CHANNEL	PD218
234	Riprap Channel	J	J01-37	Natural Watercourse:Trabuco Road Bridge	Riprap	ALISO CREEK CHANNEL	PD218
234	Riprap Channel	J	J01-38	Natural Watercourse u/s Trabuco to	Riprap	ALISO CREEK CHANNEL	PD218
234	Earth Channel	J	J01-49.01	earthen channel section	Earth	ALISO CREEK CHANNEL	PM096
234	Concrete Soft Base	J	J01-49.03	begin amorflex to grade break	Celluar Conc	ALISO CREEK CHANNEL	PM096
234	Concrete Soft Base	J	J01-49.04	grade break to	Celluar Conc	ALISO CREEK CHANNEL	PM096
234	Concrete Soft Base	J	J01-49.05	d/s Portola	Celluar Conc	ALISO CREEK CHANNEL	PM096
234	Concrete-Lined	J	J01-50	Portola Parkway Bridge	Celluar Conc	ALISO CREEK CHANNEL	PM096
234	Concrete Soft Base	J	J01-51.01	u/s Portola to d/s flowline transition	Concrete	ALISO CREEK CHANNEL	PM096

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
234	Concrete Soft Base	J	J01-51.02	flowline transition section	Celluar Conc	ALISO CREEK CHANNEL	PM096
234	Riprap Channel	J	J01-51.03	rip rap channel section	Celluar Conc	ALISO CREEK CHANNEL	PM096
244	Underground Conduit	K	K01-01.02	grade break to d/s Pacific Coast Highway	Concrete	SALT CREEK CHANNEL	PD230
244	Underground Conduit	K	K01-02	Pacific Coast Highway Arch Culvert	Concrete	SALT CREEK CHANNEL	PD230
244	Concrete-Lined	K	K01-04	RC channel section	Concrete	SALT CREEK CHANNEL	PD230
244	Underground Conduit	K	K01-08	Camino del Avion undercrossing	Metal	SALT CREEK CHANNEL	PD230
244	Underground Conduit	K	K01-06	begin RCB to d/s transition (u/s K01S02)	Concrete	SALT CREEK CHANNEL	PD230
244	Underground Conduit	K	K01-09.01	continue pipe to d/s junction structure	Metal	SALT CREEK CHANNEL	PD230
244	Underground Conduit	K	K01-09.02	u/s junction structure to end pipe	Metal	SALT CREEK CHANNEL	PD230
246	Concrete Soft Base	L	L01-01.01	u/s Pacific Coast Highway to	Conc Soft Base	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-01.02		Conc Soft Base	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-01.03		Concrete/Earth	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-01.04		Concrete/Earth	SAN JUAN CREEK CHANNEL	PD232
246	Sheetpile Soft Base	L	L01-05.02	grade break to	Steel/Earth	SAN JUAN CREEK CHANNEL	PD233
246	Sheetpile Soft Base	L	L01-05.03		Steel/Earth	SAN JUAN CREEK CHANNEL	PD233
246	Sheetpile Soft Base	L	L01-05.04		Steel/Earth	SAN JUAN CREEK CHANNEL	PD233
246	Sheetpile Soft Base	L	L01-05.05		Steel/Earth	SAN JUAN CREEK CHANNEL	PD233
246	Sheetpile Soft Base	L	L01-05.06		Steel/Earth	SAN JUAN CREEK CHANNEL	PD233
246	Sheetpile Soft Base	L	L01-05.07	to d/s transition (d/s Trabuco Creek confluence)	Steel/Earth	SAN JUAN CREEK CHANNEL	PD233
246	Sheetpile Soft Base	L	L01-06.01	u/s transition to grade break	Steel/Earth	SAN JUAN CREEK CHANNEL	PM100
246	Sheetpile Soft Base	L	L01-06.02	grade break to	Steel/Earth	SAN JUAN CREEK CHANNEL	PM100
246	Sheetpile Soft Base	L	L01-06.03	d/s transition	Steel/Earth	SAN JUAN CREEK CHANNEL	PM100
246	Sheetpile Soft Base	L	L01-07	u/s transition to	Steel/Earth	SAN JUAN CREEK CHANNEL	PM100
250	Sheetpile Soft Base	L	L02-01.03	d/s invert stabilizer #2 to invert stabilizer #2	Steel/Earth	TRABUCO CREEK CHANNEL	PD235
250	Sheetpile Soft Base	L	L02-01.04	invert stabilizer #2 to	Steel/Earth	TRABUCO CREEK CHANNEL	PD235
250	Sheetpile Soft Base	L	L02-01.05	d/s invert stabilizer #3	Steel/Earth	TRABUCO CREEK CHANNEL	PD235
250	Sheetpile Soft Base	L	L02-01.06	invert stabilizer #3	Steel/Earth	TRABUCO CREEK CHANNEL	PD235
250	Concrete Soft Base	L	L02-01.07	u/s invert stabilizer #3 to d/s Del Obispo	Steel/Earth	TRABUCO CREEK CHANNEL	PD235
250	Concrete Soft Base	L	L02-02	Del Obispo Street Bridge	Concrete/Earth	TRABUCO CREEK CHANNEL	PD236
250	Concrete Soft Base	L	L02-03.01	u/s Del Obispo to 48" RCP	Conc Soft Base	TRABUCO CREEK CHANNEL	PD236
250	Concrete Soft Base	L	L02-03.02	48" RCP to d/s invert stabilizer #4	Concrete/Earth	TRABUCO CREEK CHANNEL	PD236
250	Concrete Soft Base	L	L02-03.03	invert stabilizer #4	Concrete/Earth	TRABUCO CREEK CHANNEL	PD236
250	Concrete Soft Base	L	L02-03.04	u/s invert stabilizer #4 to	Concrete/Earth	TRABUCO CREEK CHANNEL	PD236
241	Underground Conduit	J	J04-05.01	begin RCB Culvert (d/s La Paz to grade break)	Concrete	NARCO CHANNEL	PD222
241	Underground Conduit	J	J04-05.02	grade break to d/s height transition	Concrete	NARCO CHANNEL	PD222
241	Underground Conduit	J	J04-06.01	u/s height transition to grade break	Concrete	NARCO CHANNEL	PD223
241	Underground Conduit	J	J04-06.02	grade break to	Concrete	NARCO CHANNEL	PD223
254	Concrete Soft Base	L	L03-14	u/s drop structure to d/s Crown Valley Parkway	Concrete/Earth	OSO CREEK CHANNEL	PM109
254	Riprap Channel	L	L03-13	begin construction to d/s transition	Concrete/Earth	OSO CREEK CHANNEL	PM109
254	Riprap Channel	L	L03-15	Crown Valley Parkway Bridge	Concrete/Earth	OSO CREEK CHANNEL	PM109
254	Riprap Channel	L	L03-16	u/s Crown Valley to d/s transition	Riprap	OSO CREEK CHANNEL	PM109
254	Concrete-Lined	L	L03-17.01	u/s transition to 36" inlet	Riprap	OSO CREEK CHANNEL	PM109
254	Concrete-Lined	L	L03-17.02	36" inlet to d/s transition	Concrete	OSO CREEK CHANNEL	PM109
254	Underground Conduit	L	L03-18	RCB Culvert	Concrete	OSO CREEK CHANNEL	PD241
254	Concrete-Lined	L	L03-19.03	grade break to d/s A.T.&S.F. R.R. (Galivan Retard*	Concrete	OSO CREEK CHANNEL	PM110
254	Underground Conduit	L	L03-53.02	u/s manhole to d/s mahole	Concrete	OSO CREEK CHANNEL	PD246
266	Underground Conduit	M	M01-22.01	u/s height transition to grade break and inlet	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD258
266	Underground Conduit	M	M01-22.02	grade break and inlet to d/s height transition	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD258
342	Concrete-Lined	F	F16-05.02	grade break to d/s Laguna Canyon Road	Concrete	MARSHBURN CHANNEL	PM075

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
342	Underground Conduit	F	F16-18.01	u/s Irvine Blvd to d/s transition	Concrete	MARSHBURN CHANNEL	PM076
208	Earth Channel	F	F23-13.02	u/s transition to d/s Avenida de la Carlota	Earth	CANADA CHANNEL	PD203
346	Underground Conduit	F	F27-03.01	u/s transition to 24" RCP	Concrete	HICKS CANYON CHANNEL	PM090
250	Concrete Soft Base	L	L02-03.05	d/s invert stabilizer #5	Concrete/Earth	TRABUCO CREEK CHANNEL	PD236
241	Underground Conduit	J	J04-07	EQUATION: Sta 79+65 back = Sta 79+60 ahead	Concrete	NARCO CHANNEL	PD224
268	Concrete-Lined	M	M02-08.04	d/s Calle de los Molinos	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Underground Conduit	M	M02-09	Calle de los Molinos RCB Culvert	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Concrete-Lined	M	M02-10.01	u/s Calle de los Molinos to grade break	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Concrete-Lined	M	M02-10.02	grade break to d/s transition	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Underground Conduit	M	M02-11	u/s transition to d/s transition and grade break	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Underground Conduit	M	M02-12	San Diego Freeway Arch Culvert	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Underground Conduit	M	M02-14	Avenida Pico RCB Culvert	Earth	SEGUNDA DESHECHA CANADA CHANNEL	PM120
268	Earth Channel	M	M02-15	u/s Avenida Pico to d/s RCB Culvert	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM120
268	Underground Conduit	M	M02-21.01	grade break to grade break (@ Camino Vera Cruz)	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM121
183	Riprap Channel	F	F07-39	d/s Esplanade Ave	Riprap	EL MODENA-IRVINE CHANNEL	PD160
218	Underground Conduit	F	F25-18	u/s access shaft to d/s transition	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Concrete-Lined	F	F25-15.03	Transition2	Concrete	CENTRAL IRVINE CHANNEL	PM088
241	Underground Conduit	J	J04-10.01	u/s junction structure to (along Via Pansa)	Concrete	NARCO CHANNEL	PD224
241	Underground Conduit	J	J04-10.02	d/s junction structure (along Via Pansa)	Concrete	NARCO CHANNEL	PD224
241	Underground Conduit	J	J04-10.03	u/s junction structure to d/s junction structure *	Concrete	NARCO CHANNEL	PD224
241	Underground Conduit	J	J04-10.04	u/s junction structure to San Joaquin Hills Trans*	Concrete	NARCO CHANNEL	PD224
241	Underground Conduit	J	J04-09	u/s Aliso Niguel Road to d/s junction structure (*	Concrete	NARCO CHANNEL	PD224
115	Earth Channel	C	C05-74	Haster Retarding Basin	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
115	Underground Conduit	C	C05-73.02	RCB at Haster Basin Outlet	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
204	Underground Conduit	F	F17-07.03	Santa Ana Freeway RCB Culvert	Concrete	BEE CANYON CHANNEL	PM077
205	Underground Conduit	F	F18-04.01	Santa Ana Freeway RCB Culvert	Concrete	AGUA CHINON CHANNEL	PM079
74	Concrete-Lined	A	A03-69.01	u/s Acacia to d/s grade break	Concrete	FULLERTON CREEK CHANNEL	PD023
74	Concrete-Lined	A	A03-69.02	u/s grade break to d/s Dorothy	Concrete	FULLERTON CREEK CHANNEL	PD023
74	Riprap Channel	A	A03-72.01	u/s transition to begin construction	Riprap	FULLERTON CREEK CHANNEL	PM009
74	Riprap Channel	A	A03-72.02	begin construction to u/s Walkway	Riprap	FULLERTON CREEK CHANNEL	PM009
74	Concrete-Lined	A	A03-71	u/s Dorothy to d/s transition	Riprap	FULLERTON CREEK CHANNEL	PD023
232	Underground Conduit	I	I02-04.01	Forest Ave RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD208
110	Underground Conduit	C	C03P03-01	Upstream confluence at Goldenwest Street	Concrete	BESTEL STORM CHANNEL	-9999
196	Underground Conduit	F	F11-16	u/s Seventeenth to end	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
242	Underground Conduit	J	J06-03	Aliso Viejo Parkway undercrossing	Concrete	DAIRY FORK	PD226
243	Underground Conduit	J	J07-05	Los Alisos RCB Culvert	Concrete	ENGLISH CANYON CHANNEL	PD227
148	Concrete-Lined	E	E05-07.03	u/s transition to d/s RCB Culvert	Concrete	RICHFIELD CHANNEL	PD115
156	Earth Channel	E	E08-04	u/s Bristol to d/s Flower	Earth	SANTIAGO CREEK CHANNEL	PD124
166	Earth Channel	E	E10-04.01	u/s bike trail RCB Culvert to d/s rip-rap section	Earth	FLETCHER CHANNEL	PD128
168	Underground Conduit	E	E11-06	Orange Freeway RCB Culvert	Concrete	BITTERBUSH CHANNEL	PD129
168	Concrete-Lined	E	E11-10.02	u/s grade break to d/s Eckhoff	Concrete	BITTERBUSH CHANNEL	PD129
169	Underground Conduit	E	E12-03.02	u/s transition (@ Orangewood) to d/s transition (*	Concrete	SOUTHEAST ANAHEIM CHANNEL	PD132
175	Earth Channel	F	F03-06.02	u/s transition to d/s transition	Earth	PAULARINO CHANNEL	PD143
168	Earth Channel	E	E11-18	u/s A.T. & S.F. to d/s Main Street	Earth	BITTERBUSH CHANNEL	PD131
266	Underground Conduit	M	M01-24.02	grade break and inlet to d/s height transition (u*	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD258
266	Underground Conduit	M	M01-24.01	u/s height transition to grade break and inlet	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD258
266	Underground Conduit	M	M01-23	u/s transition to d/s height transition (u/s Cami*	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD258
100	Underground Conduit	C	C02-32	S.P.R.R. to d/s Cerritos Ave	Concrete	BOLSA CHICA CHANNEL	PD059
115	Underground Conduit	C	C05-29	I-405 (San Diego) Freeway Box Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD083

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
207	Underground Conduit	F	F20-10.01	u/s Irvine Blvd to end of RCB	Concrete	BORREGO CANYON CHANNEL	PM085
207	Concrete-Lined	F	F20-10.02	RCB to high point of flow splitter structure	Concrete	BORREGO CANYON CHANNEL	PM085
160	Underground Conduit	E	E08P02-05	U/S Serrano Ave.	Concrete	VILLA PARK STORM DRAIN	-9999
251	Underground Conduit	L	L02P02-01	L02 to Calle La Purisima	Concrete	CASITAS CAPISTRANO ST. DRAIN	-9999
185	Underground Conduit	F	F07P04-02	U/S Redhill Ave to Grade Break	Concrete	TUSTIN HEIGHTS STORM DRAIN	-9999
188	Underground Conduit	F	F07S01-19	Redhill Ave	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-07	d/s Del Rey Dr	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-03	Irvine Blvd	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
184	Underground Conduit	F	F07P01-01	F07 Confluence to d/s Holt Ave	Concrete	EAST TUSTIN STORM DRAIN	-9999
79	Underground Conduit	A	A04S01-06	to next Grade Break	Concrete	MEMORY GARDEN STORM CHANNEL	-9999
79	Underground Conduit	A	A04S01-02	to Grade Break	Concrete	MEMORY GARDEN STORM CHANNEL	-9999
262	Underground Conduit	M	M00S01-02	Transition	Concrete	ESTRELLA STORM DRAIN	-9999
248	Underground Conduit	L	L01S02-12	Grade Break to d/s Doheny Park Rd	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-19	to 42" RCP	Concrete	CYPRESS STORM CHANNEL	-9999
370	Underground Conduit	B	B01P17-30	to Catch Basin	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
159	Underground Conduit	E	E08P01-06		Concrete	LA VETA STORM DRAIN	-9999
163	Concrete-Lined	E	E08S02-09	upstream to downstream	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Underground Conduit	E	E08S02-12	RC Box at Cannoil St. (Verify Stations)	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-27	Seal Beach Blvd Culvert	Concrete	FEDERAL STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-17	U/S of "older" construction manhole, Sh. 3 of 7	Concrete	JONATHAN STORM CHANNEL	-9999
112	Underground Conduit	C	C03S05-03	Downstream Magnolia Avenue	Concrete	SHANNON STORM CHANNEL	-9999
119	Underground Conduit	C	C05P21-08	At Pacifico Ave	Concrete	SPINNAKER STORM DRAIN	-9999
401	Underground Conduit	C	C05P22-05	Upstream Lewis Street	Concrete	HOLIDAY STORM DRAIN	-9999
97	Concrete-Lined	C	C01S04-18	EC to BC, Sh. 4	Concrete	BIXBY STORM CHANNEL	-9999
101	Underground Conduit	C	C02S01-05	Valley View RC Box	Concrete	STANTON STORM CHANNEL	-9999
101	Underground Conduit	C	C02S01-11	RC Box crossing Knott Ave.	Concrete	STANTON STORM CHANNEL	-9999
101	Underground Conduit	C	C02S01-28	RR Culvert	Concrete	STANTON STORM CHANNEL	-9999
101	Underground Conduit	C	C02S01-37	Beach Blvd. Culvert	Concrete	STANTON STORM CHANNEL	-9999
101	Underground Conduit	C	C02S01-46	RC Box crossing Katella Ave.	Concrete	STANTON STORM CHANNEL	-9999
164	Underground Conduit	E	E08S06-04	Upstream inlet structure	Concrete	HANDY CREEK STORM CHANNEL	-9999
386	Underground Conduit	C	C02P08-10	East of Yana Dr 36" Inlet to grade change	Concrete	STANTON STORM CHANNEL	-9999
85	Underground Conduit	B	B01P01-21	B01 Confluence to B01B02	Concrete	WEST ANAHEIM STORM DRAIN	-9999
409	Underground Conduit	D	D01P06-09	Upstream end, Delaware Street	Concrete	ADAMS STORM DRAIN	-9999
262	Underground Conduit	M	M00S01-08	PCH Culvert	Concrete	ESTRELLA STORM DRAIN	-9999
111	Underground Conduit	C	C03S04-01	Upstream of confluence with C03 (RC Box)	Concrete	ROSALIA STORM CHANNEL	-9999
101	Underground Conduit	C	C02S01-19	Western Ave.	Concrete	STANTON STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-26	Cambridge St. Dbl RC Box	Concrete	MARLBORO STORM CHANNEL	-9999
121	Underground Conduit	C	C05S01-19	Aspenwood Ave Culvert	Concrete	NEWLAND STORM CHANNEL	-9999
369	Underground Conduit	B	B01P08-02	to Transition at D/S Thistle St.	Concrete	BROADWAY STORM DRAIN	-9999
421	Underground Conduit	E	E01P79-04	Upstream Southpark Ave to Pump Station	Concrete	SOUTHPARK STORM DRAIN	-9999
190	Underground Conduit	F	F08P07-02	U/S San Diego Freeway	Concrete	MICHELSON STORM DRAIN	-9999
426	Underground Conduit	E	E01S02-27	Transtion	Concrete	CHANTILLY STORM CHANNEL	-9999
521	Underground Conduit	F	F12P04-02	to Grade Break (Manhole)	Concrete	YORBA STREET STORM DRAIN	-9999
490	Underground Conduit	F	F07SIP12-06	Grade break to manhole	Concrete	WARREN AVE STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-18	to Grade Break	Concrete	ARROYO STORM DRAIN	-9999
265	Underground Conduit	M	M00S08-02	Outlet Structure to Transition Structure	Concrete	ALESSANDRO STORM CHANNEL	-9999
265	Underground Conduit	M	M00S08-05	Ola Vista to Inlet Structure	Concrete	ALESSANDRO STORM CHANNEL	-9999
133	Underground Conduit	D	D03P08-02		Concrete	TIMES STORM DRAIN	-9999
133	Underground Conduit	D	D03P08-04		Concrete	TIMES STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
133	Underground Conduit	D	D03P08-06		Concrete	TIMES STORM DRAIN	-9999
262	Underground Conduit	M	M00S01-09		Concrete	ESTRELLA STORM DRAIN	-9999
232	Concrete-Lined	I	I02-04.02	u/s Forest to drop structure	Concrete	LAGUNA CANYON CHANNEL	PD208
232	Underground Conduit	I	I02-57	to d/s transition	Concrete	LAGUNA CANYON CHANNEL	PD213
234	Underground Conduit	J	J01-40	Creekside RCB Culvert	Concrete	ALISO CREEK CHANNEL	PD218
183	Concrete-Lined	F	F07-47.02	rectangular channel (El Modena-Irvine Basin)	Concrete	EL MODENA-IRVINE CHANNEL	PD161
78	Concrete-Lined	A	A04-12.03	u/s transition to d/s Central	Concrete	BREA CANYON CHANNEL	PM011
68	Concrete-Lined	A	A01-05	u/s Artesia to d/s S.P.R.R. Bridge	Concrete	COYOTE CREEK CHANNEL	PD001
68	Concrete-Lined	A	A01-11.01	u/s Lemont to transition	Riprap	COYOTE CREEK CHANNEL	PM002
68	Riprap Channel	A	A01-28	begin Rip Rap section to d/s Imperial Hwy/Beach Bl	Concrete	COYOTE CREEK CHANNEL	PD003
68	Underground Conduit	A	A01-53	begin RCB to Palm Ave	Concrete	COYOTE CREEK CHANNEL	PD010
73	Underground Conduit	A	A02-58	u/s Brea Blvd to end	Concrete	BREA CREEK CHANNEL	PD014
74	Concrete-Lined	A	A03-64.01	u/s Chapman to grade break	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-19	u/s Manchester to d/s Dale	Concrete	FULLERTON CREEK CHANNEL	PD018
74	Concrete-Lined	A	A03-66	u/s transition to	Concrete	FULLERTON CREEK CHANNEL	PD023
74	Underground Conduit	A	A03-70	Dorothy Lane RCB Culvert	Riprap	FULLERTON CREEK CHANNEL	PD023
74	Natural Watercourse	A	A03-73.01	Natural Watercourse to State College	Concrete	FULLERTON CREEK CHANNEL	PM009
78	Concrete-Lined	A	A04-12.02	Memory Garden Channel (A01S04) confluence to d/s *	Riprap	BREA CANYON CHANNEL	PM011
78	Riprap Channel	A	A04-15	end of Rip-rap section (begin Natural Watercourse)	Concrete	BREA CANYON CHANNEL	PM011
103	Concrete-Lined	C	C03-02	u/s Bolsa Chica Road to d/s Suffolk Street	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD060
103	Concrete-Lined	C	C03-03	Suffolk Street RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD060
103	Concrete-Lined	C	C03-04	u/s Suffolk Street to d/s Navy RR	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD060
103	Concrete-Lined	C	C03-05	Navy Railroad RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD060
103	Concrete-Lined	C	C03-08.01	u/s Westminster Ave to d/s San Diego Frwy (I-405)	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD061
103	Underground Conduit	C	C03-09.01	San Diego Freeway RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD061
103	Concrete-Lined	C	C03-63.01	u/s Cerritos to	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD069
113	Underground Conduit	C	C04-17.02		Earth	WESTMINSTER CHANNEL	PD072
74	Natural Watercourse	A	A03-73.03	Natural Watercourse from State College to Milton	Riprap	FULLERTON CREEK CHANNEL	PM009
138	Riprap Channel	E	E01-67.06	grade stabilizer to d/s grade stabilizer	Earth	SANTA ANA RIVER CHANNEL	PM048
143	Earth Channel	E	E02-15.01	u/s Miraloma to grade break	Concrete	CARBON CREEK DIVERSION CHANNEL	PD105
144	Concrete-Lined	E	E03-16.07	grade break to d/s Golden	Concrete	CARBON CANYON CHANNEL	PM052
145	Underground Conduit	E	E04-42	u/s Kellog Drive to golf course	Concrete	ATWOOD CHANNEL	PD113
148	Concrete-Lined	E	E05-33	u/s wall height transition to	Concrete	RICHFIELD CHANNEL	PD118
150	Concrete-Lined	E	E06-16.01	u/s Felipa to d/s transition	Earth	ESPERANZA CHANNEL	PD120
152	Earth Channel	E	E07-14	u/s Taft to d/s Blueridge	Concrete	COLLINS CHANNEL	PD123
152	Underground Conduit	E	E07-19.02	Orange-Olive Road Crossing	Concrete	COLLINS CHANNEL	PD123
174	Concrete-Lined	F	F02-28	u/s Myrtle to d/s First	Concrete	SANTA ANA GARDENS CHANNEL	PD142
175	Concrete-Lined	F	F03-10.01	u/s Fairview to d/s junciton structure	Concrete	PAULARINO CHANNEL	PD144
176	Underground Conduit	F	F05-52.08	u/s transition to d/s Santa Ana Freeway	Concrete	SAN DIEGO CREEK CHANNEL	PM067
192	Underground Conduit	F	F09-20	u/s Armstrong to d/s Future Aston St.	Concrete	BARRANCA CHANNEL	PM074
196	Underground Conduit	F	F11-14.03	24" RCP to 18" RCP	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
197	Underground Conduit	F	F12-14.10	u/s confluence to junction structure (in Yorba St*	Concrete	NORTH TUSTIN CHANNEL	PD181
199	Underground Conduit	F	F13-29.04	grade break to d/s manhole	Concrete	REDHILL CHANNEL	PD185
486	Underground Conduit	F	F07P23-06	to d/s Redhill Ave	Concrete	BRYAN AVE STORM DRAIN	-9999
200	Concrete-Lined	F	F14-23.06	grade break to d/s Sand Canyon	Concrete	SAN JOAQUIN CHANNEL	PD190
342	Concrete-Lined	F	F16-07.03	d/s transition	Concrete	MARSHBURN CHANNEL	PM075
342	Underground Conduit	F	F16-09	Railroad/Santa Ana Freeway RCB Culvert	Concrete	MARSHBURN CHANNEL	PD192
342	Concrete-Lined	F	F16-16.08	u/s grade break to d/s ramp	Concrete	MARSHBURN CHANNEL	PD194
342	Underground Conduit	F	F16-19	u/s transition to d/s Marshburn Retarding Basin	Concrete	MARSHBURN CHANNEL	PM076

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
204	Underground Conduit	F	F17-07.01	u/s transition to grade break	Concrete	BEE CANYON CHANNEL	PM077
204	Underground Conduit	F	F17-08.01	u/s Santa Ana Freeway to 60" inlet	Concrete	BEE CANYON CHANNEL	PM077
205	Underground Conduit	F	F18-03.03	u/s maintenance opening to d/s maintenance opening	Earth	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-07.02	u/s transition to d/s transition	Concrete	AGUA CHINON CHANNEL	PM079
206	Underground Conduit	F	F19-01.01	u/s San Diego Creek confluence to d/s transition	Earth	SERRANO CREEK CHANNEL	PD195
206	Earth Channel	F	F19-21.02	weir to weir	Concrete	SERRANO CREEK CHANNEL	PM083
224	Concrete-Lined	G	G02-08.01	u/s Dover to d/s Nottingham	Concrete	EAST COSTA MESA CHANNEL	PD206
226	Earth Channel	G	G03-01	u/s Newport Bay to d/s Irvine Avenue	Concrete	SANTA ISABEL CHANNEL	PD207
229	Concrete-Lined	H	H05-01	u/s Pacific Ocean confluence to end RC outlet str*	Concrete	EMERALD BAY CHANNEL	PM092
232	Concrete-Lined	I	I02-03	u/s grade break to d/s transition (portions bridg*	Riprap	LAGUNA CANYON CHANNEL	PD208
232	Underground Conduit	I	I02-56	begin RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD212
232	Underground Conduit	I	I02-58.02	grade break to grade break	Concrete	LAGUNA CANYON CHANNEL	PD213
234	Riprap Channel	J	J01-01	u/s Pacific Ocean confluence to d/s PCH	Concrete	ALISO CREEK CHANNEL	PD214
241	Underground Conduit	J	J04-08.01	u/s junction structure to d/s junction structure *	Metal	NARCO CHANNEL	PD224
243	Riprap Channel	J	J07-04.02	d/s Los Alisos	Steel/Earth	ENGLISH CANYON CHANNEL	PD227
244	Underground Conduit	K	K01-03	u/s Pacific Coast Highway to begin RC channel	Riprap	SALT CREEK CHANNEL	PD230
244	Underground Conduit	K	K01-07	u/s transition (u/s K01S02) to d/s transition	Concrete	SALT CREEK CHANNEL	PD230
246	Sheetpile Soft Base	L	L01-08	d/s A.T&S.F. R.R.	Concrete	SAN JUAN CREEK CHANNEL	PM100
254	Riprap Channel	L	L03-02	u/s transition to d/s transition	Concrete	OSO CREEK CHANNEL	PM108
254	Concrete-Lined	L	L03-04.03	grade break to grade break	Concrete	OSO CREEK CHANNEL	PM108
254	Concrete-Lined	L	L03-06.02	grade break to grade break	Concrete	OSO CREEK CHANNEL	PD240
254	Concrete-Lined	L	L03-07	u/s transition to d/s Paseo de la Colinas	Concrete	OSO CREEK CHANNEL	PD240
254	Concrete-Lined	L	L03-19.02	u/s weir to grade break (Galivan Retarding Basin)	Concrete	OSO CREEK CHANNEL	PM110
254	Underground Conduit	L	L03-51.03	u/s manhole to d/s manhole	Concrete	OSO CREEK CHANNEL	PD246
254	Underground Conduit	L	L03-52.02	u/s drop inlet to d/s manhole	Concrete	OSO CREEK CHANNEL	PD246
254	Underground Conduit	L	L03-54.01	u/s manhole to d/s Santa Margarita Parkway	Concrete	OSO CREEK CHANNEL	PD246
266	Underground Conduit	M	M01-04.01	u/s Pacific Coast Highway to d/s height transitio*	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD256
266	Underground Conduit	M	M01-21	u/s transition to d/s height transition	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD258
268	Underground Conduit	M	M02-19	u/s transition to end RCB Culvert (u/s Calle Fron*	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM120
268	Underground Conduit	M	M02-22.01	grade break to inlets	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM121
68	Concrete-Lined	A	A01-09.02	Firestone (N) Blvd Bridge	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-09.03	u/s Firestone (N) to d/s Lemont	Stone	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-10	Lemont Ave Bridge	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete Soft Base	A	A01-11.02	transition to	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-11.03	d/s Knott Ave	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-12	Knott Ave Bridge	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-13	u/s Knott to d/s A.T. & S.F. R.R.	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-14	A.T. & S.F. R.R. Bridge	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-15	Confluence with Brea Creek (A02) to d/s transition	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-16.01	u/s transition to d/s grade change	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-16.02	u/s grade change to d/s A.T. & S.F. R.R.	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-17	A.T. & S.F. R.R. Bridge	Concrete	COYOTE CREEK CHANNEL	PD002
68	Concrete-Lined	A	A01-18	u/s A.T. & S.F. R.R. to d/s Stage Road	Concrete	COYOTE CREEK CHANNEL	PD002
68	Concrete-Lined	A	A01-19	Stage Road Bridge	Concrete	COYOTE CREEK CHANNEL	PD002
68	Concrete-Lined	A	A01-20.01	u/s Stage Road to d/s transition	Concrete	COYOTE CREEK CHANNEL	PD002
68	Concrete-Lined	A	A01-20.02	u/s transition to d/s La Mirada/Malvern	Concrete	COYOTE CREEK CHANNEL	PD002
68	Concrete-Lined	A	A01-21	La Mirada/Malvern Bridge	Concrete	COYOTE CREEK CHANNEL	PM003
68	Concrete-Lined	A	A01-22.01	u/s La Mirada/Malvern to d/s transition	Concrete	COYOTE CREEK CHANNEL	PM003
68	Concrete-Lined	A	A01-22.02	u/s transition to d/s Rosecrans	Concrete	COYOTE CREEK CHANNEL	PM003

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
68	Concrete-Lined	A	A01-23.01	Rosecrans Ave Bridge	Concrete	COYOTE CREEK CHANNEL	PM003
68	Concrete-Lined	A	A01-23.02	u/s Rosecrans to d/s Pedestrian Bridge	Concrete	COYOTE CREEK CHANNEL	PM003
68	Concrete-Lined	A	A01-24.01	Pedestrian Bridge	Concrete	COYOTE CREEK CHANNEL	PM003
68	Concrete-Lined	A	A01-24.02	u/s Pedestrian Bridge to grade change	Concrete	COYOTE CREEK CHANNEL	PM003
68	Concrete-Lined	A	A01-24.03	grade change to grade change	Concrete	COYOTE CREEK CHANNEL	PM003
68	Concrete-Lined	A	A01-25	grade change to d/s Hillsborough	Riprap	COYOTE CREEK CHANNEL	PM003
68	Concrete-Lined	A	A01-26	Hillsborough Dr Bridge	Riprap	COYOTE CREEK CHANNEL	PM003
68	Concrete-Lined	A	A01-27.01	u/s Hillsborough to d/s transition	Concrete	COYOTE CREEK CHANNEL	PM003
68	Concrete-Lined	A	A01-27.02	u/s transition to d/s Rip-rap section	Concrete	COYOTE CREEK CHANNEL	PM003
68	Underground Conduit	A	A01-29.01	Imperial Highway/Beach Blvd RCB Culvert	Concrete	COYOTE CREEK CHANNEL	PD003
68	Riprap Channel	A	A01-29.02	u/s Imperial Hwy/Beach Blvd to d/s Fashion Square	Concrete	COYOTE CREEK CHANNEL	PD003
68	Underground Conduit	A	A01-40	Euclid Street RCB Culvert	Concrete	COYOTE CREEK CHANNEL	PD005
68	Concrete-Lined	A	A01-41	u/s Euclid to d/s A01P10 confluence	Concrete	COYOTE CREEK CHANNEL	PD005
68	Concrete-Lined	A	A01-42	Confluence with A01P01	Concrete	COYOTE CREEK CHANNEL	PD005
68	Concrete-Lined	A	A01-43	u/s confluence with A01P10 to d/s Cypress Street	Concrete	COYOTE CREEK CHANNEL	PD006
68	Underground Conduit	A	A01-44	Cypress St RCB Culvert	Concrete	COYOTE CREEK CHANNEL	PD006
68	Concrete-Lined	A	A01-45	u/s Cypress to d/s Railroad	Concrete	COYOTE CREEK CHANNEL	PD006
68	Underground Conduit	A	A01-46	Railroad RCB Culvert	Concrete	COYOTE CREEK CHANNEL	PD007
68	Concrete-Lined	A	A01-47.01	u/s Railroad to d/s grade break	Concrete	COYOTE CREEK CHANNEL	PD008
68	Concrete-Lined	A	A01-47.02	u/s grade break to	Concrete	COYOTE CREEK CHANNEL	PD008
68	Concrete-Lined	A	A01-48	d/s RCB	Concrete	COYOTE CREEK CHANNEL	PD008
68	Underground Conduit	A	A01-49	RCB Culvert west of Harbor	Concrete	COYOTE CREEK CHANNEL	PD008
68	Concrete-Lined	A	A01-50	u/s RCB to d/s RCB	Concrete	COYOTE CREEK CHANNEL	PD008
68	Underground Conduit	A	A01-51.01	RCB Culvert under Harbor Blvd	Concrete	COYOTE CREEK CHANNEL	PD008
68	Underground Conduit	A	A01-51.02	to d/s U.P. and S.P. R.R. Crossing	Concrete	COYOTE CREEK CHANNEL	PD008
68	Underground Conduit	A	A01-51.03	U.P. and S.P. R.R. Crossing	Concrete	COYOTE CREEK CHANNEL	PD009
68	Underground Conduit	A	A01-51.04	Grade Break to Grade Break	Concrete	COYOTE CREEK CHANNEL	PD010
68	Underground Conduit	A	A01-51.05	Grade Break to Grade Break	Concrete	COYOTE CREEK CHANNEL	PD010
68	Underground Conduit	A	A01-51.06	Grade Break to Grade Break d/s grade break	Concrete	COYOTE CREEK CHANNEL	PD010
68	Concrete-Lined	A	A01-52	u/s grade break to grade break	Concrete	COYOTE CREEK CHANNEL	PD010
68	Underground Conduit	A	A01-54	Palm Ave to La Habra Blvd	Concrete	COYOTE CREEK CHANNEL	PD010
73	Concrete-Lined	A	A02-01	u/s Coyote Creek to d/s Rostrata Ave	Concrete	BREA CREEK CHANNEL	PM004
73	Concrete-Lined	A	A02-11.02	u/s transition to d/s B.N. & S.F. R.R.	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-12	B.N. & S.F. R.R. Bridge	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-13.03	66" inlet to grade break to	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-13.01	u/s B.N. & S.F. R.R. to grade break	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-13.06	u/s transition to d/s Dale Ave	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-14	Dale Ave Bridge	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-15.01	u/s Dale to d/s transition	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-16.01	u/s transition to d/s transition	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-16.02	u/s transition to d/s Bridgeport	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-27	U.P.R.R. Bridge	Concrete	BREA CREEK CHANNEL	PM006
73	Concrete-Lined	A	A02-29	Bridgeport Circle Bridge	Concrete	BREA CREEK CHANNEL	PD012
73	Concrete-Lined	A	A02-28	grade break to d/s Bridgeport Circle	Concrete	BREA CREEK CHANNEL	PD012
73	Concrete-Lined	A	A02-30.02	Basque Ave Bridge	Concrete	BREA CREEK CHANNEL	PD012
73	Concrete-Lined	A	A02-30.01	u/s Bridgeport to d/s Basque	Concrete	BREA CREEK CHANNEL	PD012
73	Concrete-Lined	A	A02-31.04	Wesley Drive to west of Buena Vista Drive	Concrete	BREA CREEK CHANNEL	PD012
73	Concrete-Lined	A	A02-32	Euclid Street Bridge	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-33	u/s Euclid to d/s Malvern Bridge	Concrete	BREA CREEK CHANNEL	PD013

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
73	Concrete-Lined	A	A02-34	Malvern Ave Bridge	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-35	Malvern Ave Bridge	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-36.01	u/s Malvern to	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-49	Harbor Blvd Bridge	Concrete	BREA CREEK CHANNEL	PD014
73	Concrete-Lined	A	A02-50	u/s Harbor to d/s Union	Concrete	BREA CREEK CHANNEL	PD014
73	Concrete-Lined	A	A02-51	Union Ave Bridge	Concrete	BREA CREEK CHANNEL	PD014
73	Concrete-Lined	A	A02-52	u/s Union to d/s Berkeley	Concrete	BREA CREEK CHANNEL	PD014
73	Concrete-Lined	A	A02-53	Berkeley Ave Bridge	Concrete	BREA CREEK CHANNEL	PD014
73	Concrete-Lined	A	A02-54.01	u/s Berkeley to concrete drain	Concrete	BREA CREEK CHANNEL	PD014
73	Concrete-Lined	A	A02-54.02	concrete drain to d/s transition	Concrete	BREA CREEK CHANNEL	PD014
73	Concrete-Lined	A	A02-55	Valley View Dr Bridge	Concrete	BREA CREEK CHANNEL	PD014
73	Natural Watercourse	A	A02-56	Natural from Valley View Dr to Brea Blvd.	Concrete	BREA CREEK CHANNEL	PD014
73	Concrete-Lined	A	A02-57	Brea Blvd Bridge	Concrete	BREA CREEK CHANNEL	PD014
74	Concrete-Lined	A	A03-08.06	grade break to	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-08.07	end of construction	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-09	u/s transition to d/s Western	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-10	Western to d/s Beach Blvd	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-11	Beach Blvd Bridge	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-12	u/s Beach to d/s transition	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-13.01	u/s transition to d/s transition	Concrete	FULLERTON CREEK CHANNEL	PD016
74	Concrete-Lined	A	A03-13.02	u/s transition to d/s Stanton	Concrete	FULLERTON CREEK CHANNEL	PD016
74	Concrete-Lined	A	A03-14	Stanton Ave Bridge	Concrete	FULLERTON CREEK CHANNEL	PD016
74	Concrete-Lined	A	A03-15	u/s Stanton to d/s transition	Concrete	FULLERTON CREEK CHANNEL	PD016
74	Concrete-Lined	A	A03-16	S.P.R.R Bridge	Concrete	FULLERTON CREEK CHANNEL	PD017
74	Concrete-Lined	A	A03-29	Gilbert Street Bridge	Concrete	FULLERTON CREEK CHANNEL	PD019
74	Concrete-Lined	A	A03-30	u/s Gilbert to d/s Brookhusrt	Concrete	FULLERTON CREEK CHANNEL	PD020
74	Concrete-Lined	A	A03-31	Brookhurst Street Bridge	Concrete	FULLERTON CREEK CHANNEL	PD020
74	Concrete-Lined	A	A03-32	u/s Brookhurst to d/s Basque	Concrete	FULLERTON CREEK CHANNEL	PD020
74	Concrete-Lined	A	A03-33	Basque Ave Bridge	Concrete	FULLERTON CREEK CHANNEL	PD021
74	Concrete-Lined	A	A03-34	u/s Basque to d/s Valencia	Concrete	FULLERTON CREEK CHANNEL	PD021
74	Concrete-Lined	A	A03-35	Valencia Dr. Bridge	Concrete	FULLERTON CREEK CHANNEL	PD021
74	Concrete-Lined	A	A03-36	u/s Valencia to d/s Citrus	Concrete	FULLERTON CREEK CHANNEL	PD021
74	Concrete-Lined	A	A03-37	Citrus Ave Bridge	Concrete	FULLERTON CREEK CHANNEL	PD021
74	Concrete-Lined	A	A03-38	u/s Citrus to d/s Euclid	Concrete	FULLERTON CREEK CHANNEL	PD021
74	Underground Conduit	A	A03-49	begin RCB to d/s Harbor Blvd	Concrete	FULLERTON CREEK CHANNEL	PD022
74	Underground Conduit	A	A03-50	Harbor Blvd RCB Culvert	Concrete	FULLERTON CREEK CHANNEL	PD022
74	Concrete-Lined	A	A03-51	u/s Harbor to d/s Lemon	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Underground Conduit	A	A03-52	Lemon Street RCB Culvert	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-53.01	u/s Lemon to d/s transition	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-53.02	u/s transition to d/s Cypress Via	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Underground Conduit	A	A03-54	Cypress Via RCB Culvert	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-55	u/s Cypress Via to d/s U.P. and A.T. & S.R. R.R.	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Underground Conduit	A	A03-56	U.P. and A.T. & S.F. R.R. RCB Culvert (d/s A03S05)	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Underground Conduit	A	A03-58	A.T. & S.F. R.R. RCB Culvert	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-59	u/s A.T. & S.F. R.R. to Walnut	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-60	Walnut to d/s Commonwealth	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Underground Conduit	A	A03-61	Commonwealth Ave	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-62	u/s Commonwealth to d/s Wilshire	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Underground Conduit	A	A03-63.01	Wilshire/Raymond RCB Culvert	Concrete	FULLERTON CREEK CHANNEL	PM008

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
74	Underground Conduit	A	A03-63.02	Wilshire/Raymond RCB Culvert	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Underground Conduit	A	A03-63.03	Raymond/Chapman RCB Culvert	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-64.02	grade break to grade break	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-64.03	grade break to	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-64.04	d/s transition	Concrete	FULLERTON CREEK CHANNEL	PM008
74	Concrete-Lined	A	A03-65	u/s transition to d/s transition	Earth	FULLERTON CREEK CHANNEL	PD023
74	Underground Conduit	A	A03-68	Acacia Street RCB Culvert	Earth	FULLERTON CREEK CHANNEL	PD023
74	Concrete-Lined	A	A03-67	d/s Acacia	Earth	FULLERTON CREEK CHANNEL	PD023
74	Natural Watercourse	A	A03-73.04	Natural from Milton to 250' u/s Bastanchury	Earth	FULLERTON CREEK CHANNEL	PM009
78	Earth Channel	A	A04-02.03	d/s drop chute	Earth	BREA CANYON CHANNEL	PD024
78	Earth Channel	A	A04-02.02		Earth	BREA CANYON CHANNEL	PD024
78	Earth Channel	A	A04-02.01	Begin Improvements to	Earth	BREA CANYON CHANNEL	PD024
78	Earth Channel	A	A04-02.04	U/s drop chute to end 18 ft width to Sta 43+00	Earth	BREA CANYON CHANNEL	PD024
78	Earth Channel	A	A04-02.05	Station 43+00 to 26' base width	Earth	BREA CANYON CHANNEL	PD024
78	Earth Channel	A	A04-02.06	d/s drop chute	Concrete	BREA CANYON CHANNEL	PD024
78	Earth Channel	A	A04-02.07	u/s drop chute to end construction	Concrete	BREA CANYON CHANNEL	PD024
78	Concrete-Lined	A	A04-03	u/s transition to d/s Imperial Highway	Concrete	BREA CANYON CHANNEL	PD025
78	Concrete-Lined	A	A04-05.01	u/s Imperial Highway to grade break	Concrete/Earth	BREA CANYON CHANNEL	PD025
78	Concrete-Lined	A	A04-05.02	grade break to d/s transition	Conc Soft Base	BREA CANYON CHANNEL	PD025
78	Concrete Soft Base	A	A04-06	u/s transition to d/s Mercury Lane	Concrete/Earth	BREA CANYON CHANNEL	PD025
78	Concrete Soft Base	A	A04-07	Mercury Lane Bridge	Concrete/Earth	BREA CANYON CHANNEL	PD025
78	Concrete Soft Base	A	A04-08.01	u/s Mercury Lane to begin RC lining	Riprap	BREA CANYON CHANNEL	PD025
78	Concrete Soft Base	A	A04-08.02	begin RC lining to	Concrete	BREA CANYON CHANNEL	PD025
78	Riprap Channel	A	A04-08.03	d/s P.E. R.R.	Concrete	BREA CANYON CHANNEL	PD025
78	Underground Conduit	A	A04-09	P.E. R.R. RCB Culvert	Concrete	BREA CANYON CHANNEL	PD026
78	Concrete-Lined	A	A04-10	grade break to d/s Lambert	Concrete	BREA CANYON CHANNEL	PM011
78	Underground Conduit	A	A04-11	Lambert Ave RCB Culvert	Riprap	BREA CANYON CHANNEL	PM011
78	Concrete-Lined	A	A04-13	Central Ave Bridge	Earth	BREA CANYON CHANNEL	PM011
78	Concrete-Lined	A	A04-14.01	u/s Central to grade break	Earth	BREA CANYON CHANNEL	PM011
78	Riprap Channel	A	A04-14.02	u/s transition to	Concrete	BREA CANYON CHANNEL	PM011
80	Earth Channel	A	A06-01	u/s Craig Park Dam to d/s Orange Freeway	Earth	LOFTUS DIVERSION CHANNEL	PD027
80	Underground Conduit	A	A06-02	Orange Freeway RCB Culvert	Concrete	LOFTUS DIVERSION CHANNEL	PD027
80	Earth Channel	A	A06-03	u/s Orange Fwy Culvert to d/s Imperial Highway	Concrete	LOFTUS DIVERSION CHANNEL	PD027
80	Underground Conduit	A	A06-04	Imperial Highway RCB Culvert	Concrete	LOFTUS DIVERSION CHANNEL	PD028
80	Underground Conduit	A	A06-05	Imperial Highway RCB Culvert	Riprap	LOFTUS DIVERSION CHANNEL	PD028
80	Underground Conduit	A	A06-07	Shopping Center Road RCB Culvert	Concrete	LOFTUS DIVERSION CHANNEL	PD028
80	Riprap Channel	A	A06-08	u/s Shopping Center Road to d/s Greenbriar	Riprap	LOFTUS DIVERSION CHANNEL	PD028
80	Underground Conduit	A	A06-09	Greenbriar Lane RCB Culvert	Concrete	LOFTUS DIVERSION CHANNEL	PD028
80	Riprap Channel	A	A06-10.01	u/s Greenbriar to d/s lined section	Earth	LOFTUS DIVERSION CHANNEL	PD028
80	Concrete-Lined	A	A06-10.02	lined section	Concrete	LOFTUS DIVERSION CHANNEL	PD028
80	Earth Channel	A	A06-10.03	u/s lined section to d/s East Fullerton Creek con*	Earth	LOFTUS DIVERSION CHANNEL	PD028
80	Concrete-Lined	A	A06-10.04	East Fullerton Creek confluence	Concrete	LOFTUS DIVERSION CHANNEL	PD028
80	Earth Channel	A	A06-10.05	u/s Fullerton Creek confluence to d/s Associated *	Concrete	LOFTUS DIVERSION CHANNEL	PD028
80	Underground Conduit	A	A06-11	Associated Road RCB Culvert	Earth	LOFTUS DIVERSION CHANNEL	PD028
80	Concrete-Lined	A	A06-12.01	lined section	Earth	LOFTUS DIVERSION CHANNEL	PD028
80	Earth Channel	A	A06-12.02	u/s lined section to	Earth	LOFTUS DIVERSION CHANNEL	PD028
80	Earth Channel	A	A06-12.03	60" RCP inlet	Concrete	LOFTUS DIVERSION CHANNEL	PD028
80	Earth Channel	A	A06-12.04	60" RCP inlet to d/s transition	Concrete	LOFTUS DIVERSION CHANNEL	PD028
80	Concrete-Lined	A	A06-12.05	chute	Earth	LOFTUS DIVERSION CHANNEL	PD028

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
80	Concrete-Lined	A	A06-12.06	chute	Concrete	LOFTUS DIVERSION CHANNEL	PD028
80	Earth Channel	A	A06-12.07	u/s chute to d/s P.E. R.R.	Earth	LOFTUS DIVERSION CHANNEL	PD028
80	Underground Conduit	A	A06-12.08	P.E. R.R. RCB Culvert	Concrete	LOFTUS DIVERSION CHANNEL	PD029
80	Earth Channel	A	A06-13	u/s P.E.R.R to d/s Kraemer	Earth	LOFTUS DIVERSION CHANNEL	PD030
80	Underground Conduit	A	A06-14	Kraemer Blvd RCB Culvert	Riprap	LOFTUS DIVERSION CHANNEL	PD030
80	Earth Channel	A	A06-15.01	u/s Kraemer to 78" storm drain	Earth	LOFTUS DIVERSION CHANNEL	PD030
80	Riprap Channel	A	A06-15.02	78" storm drain to d/s transition	Concrete	LOFTUS DIVERSION CHANNEL	PD030
80	Earth Channel	A	A06-15.03	u/s transition to 36" storm drain	Concrete	LOFTUS DIVERSION CHANNEL	PD030
80	Earth Channel	A	A06-15.05	36" storm drain to approx 100' from end	Concrete	LOFTUS DIVERSION CHANNEL	PD030
81	Underground Conduit	A	A07-03	Imperial Highway RCB Culvert	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-04	d/s Imperial Highway to d/s transition	Concrete	IMPERIAL CHANNEL	PD031
81	Underground Conduit	A	A07-10.02	u/s grade break (Village Drive) to end RCB	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-10.03	begin RC Channel to d/s transition	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-10.04	u/s transition to grade break	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-10.05	grade break to d/s Harbor	Riprap	IMPERIAL CHANNEL	PD031
81	Underground Conduit	A	A07-11	Harbor Blvd RCB Culvert	Concrete	IMPERIAL CHANNEL	PD031
81	Riprap Channel	A	A07-12	u/s Harbor to d/s U.P.R.R.	Riprap	IMPERIAL CHANNEL	PD031
81	Underground Conduit	A	A07-13	U.P.R.R. RCB Culvert	Concrete	IMPERIAL CHANNEL	PD032
81	Riprap Channel	A	A07-14.01	u/s U.P.R.R. to d/s grade break	Concrete	IMPERIAL CHANNEL	PD033
81	Riprap Channel	A	A07-14.02	u/s grade break to d/s transition	Concrete	IMPERIAL CHANNEL	PD033
81	Underground Conduit	A	A07-21	P.E.R.R. tracks RCB Culvert	Concrete	IMPERIAL CHANNEL	PD034
81	Concrete-Lined	A	A07-22.01	drop	Concrete	IMPERIAL CHANNEL	PD035
81	Concrete-Lined	A	A07-22.02	u/s drop to d/s transition	Concrete	IMPERIAL CHANNEL	PD035
81	Underground Conduit	A	A07-23	Pioneer Street RCB Culvert	Concrete	IMPERIAL CHANNEL	PD035
81	Underground Conduit	A	A07-25	RCB Culvert	Concrete	IMPERIAL CHANNEL	PD035
81	Concrete-Lined	A	A07-24	u/s transition to d/s RCB	Concrete	IMPERIAL CHANNEL	PD035
81	Concrete-Lined	A	A07-26.02	u/s transition to d/s transition	Concrete	IMPERIAL CHANNEL	PD035
82	Concrete-Lined	A	A08-02.01	transition	Concrete	LA MIRADA CREEK CHANNEL	PD036
83	Concrete-Lined	B	B01-01.01	u/s Coyote Creek to d/s transition	Concrete	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-01.02	u/s transition to d/s Bloomfield	Concrete	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-02	Bloomfield Street Bridge	Conc/Riprap	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-08	Walker Street Bridge	Concrete	CARBON CREEK CHANNEL	PM016
83	Riprap Channel	B	B01-09	u/s Walker to d/s Ball	Concrete	CARBON CREEK CHANNEL	PM016
83	Concrete-Lined	B	B01-10	Ball Road Bridge	Conc/Riprap	CARBON CREEK CHANNEL	PM016
83	Riprap Channel	B	B01-11	u/s Ball to d/s Valley View	Conc/Riprap	CARBON CREEK CHANNEL	PM016
83	Concrete-Lined	B	B01-12	Valley View Street Bridge	Concrete	CARBON CREEK CHANNEL	PM016
83	Riprap Channel	B	B01-13	u/s Valley View to d/s Juanita	Conc/Riprap	CARBON CREEK CHANNEL	PD037
83	Underground Conduit	B	B01-14	Juanita Street RCB Culvert	Riprap	CARBON CREEK CHANNEL	PD037
83	Riprap Channel	B	B01-15.01	u/s Juanita to storm drain	Riprap	CARBON CREEK CHANNEL	PM017
83	Riprap Channel	B	B01-15.02	storm drain to d/s Holder	Concrete	CARBON CREEK CHANNEL	PM017
83	Riprap Channel	B	B01-25	u/s Orange to	Riprap	CARBON CREEK CHANNEL	PD039
83	Underground Conduit	B	B01-26	RCB Culvert under parking lot	Concrete	CARBON CREEK CHANNEL	PD040
83	Riprap Channel	B	B01-27	u/s parking lot to grade break	Riprap	CARBON CREEK CHANNEL	PD040
83	Concrete-Lined	B	B01-28	Beach Blvd Bridge	Concrete	CARBON CREEK CHANNEL	PD040
83	Riprap Channel	B	B01-29	u/s Beach to d/s Dale	Riprap	CARBON CREEK CHANNEL	PD040
83	Concrete-Lined	B	B01-30	Dale Avenue Bridge	Concrete	CARBON CREEK CHANNEL	PD040
83	Riprap Channel	B	B01-31.01	u/s Dale to end Rip-Rap	Concrete	CARBON CREEK CHANNEL	PD040
83	Concrete-Lined	B	B01-31.02	begin concrete to d/s Stinson	Riprap	CARBON CREEK CHANNEL	PD040
83	Concrete-Lined	B	B01-32	Stinson Street Bridge	Concrete	CARBON CREEK CHANNEL	PD040

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
83	Riprap Channel	B	B01-33	u/s Stinson to d/s Lincoln	Riprap	CARBON CREEK CHANNEL	PD040
83	Underground Conduit	B	B01-34	Lincoln Ave RCB Culvert	Concrete	CARBON CREEK CHANNEL	PD040
83	Riprap Channel	B	B01-35.01	u/s Lincoln to	Concrete	CARBON CREEK CHANNEL	PD040
83	Concrete-Lined	B	B01-35.02	d/s RCB	Earth/Riprap	CARBON CREEK CHANNEL	PM018
83	Concrete-Lined	B	B01-37	Magnolia Ave Bridge	Earth/Riprap	CARBON CREEK CHANNEL	PM018
83	Earth Channel	B	B01-38.01	u/s Magnolia to	Concrete	CARBON CREEK CHANNEL	PM018
83	Earth Channel	B	B01-38.02	d/s Gilbert Street	Concrete	CARBON CREEK CHANNEL	PD041
83	Underground Conduit	B	B01-39	Gilbert Street RCB Culvert	Concrete	CARBON CREEK CHANNEL	PM019
83	Underground Conduit	B	B01-40	Parking Lot RCB Culvert	Concrete	CARBON CREEK CHANNEL	PM019
83	Concrete-Lined	B	B01-41.01	u/s Parking lot Culvert to Gilbert Retarding Basi*	Concrete	CARBON CREEK CHANNEL	PM019
83	Concrete-Lined	B	B01-41.02	Gilbert Retarding Basin (B01B02)	Riprap	CARBON CREEK CHANNEL	PM019
83	Underground Conduit	B	B01-42	Brookhurst/Crescent RCB Culvert	Concrete	CARBON CREEK CHANNEL	PM019
83	Riprap Channel	B	B01-43	u/s Brookhurst/Crescent to d/s Valley St	Concrete	CARBON CREEK CHANNEL	PD042
83	Concrete-Lined	B	B01-44	Valley St Bridge	Concrete	CARBON CREEK CHANNEL	PD042
83	Concrete-Lined	B	B01-45.01	u/s Valley to Crescent Retarding Basin	Concrete	CARBON CREEK CHANNEL	PD042
83	Concrete-Lined	B	B01-45.02	Crescent Retarding Basin	Concrete	CARBON CREEK CHANNEL	PD042
83	Underground Conduit	B	B01-46	Santa Ana Freeway RCB Culvert	Concrete	CARBON CREEK CHANNEL	PD042
83	Riprap Channel	B	B01-47	u/s transition to d/s Chippewa	Concrete	CARBON CREEK CHANNEL	PD042
342	Underground Conduit	F	F16-02.03	grade break to u/s Waterworks	Riprap	MARSHBURN CHANNEL	PM075
83	Concrete-Lined	B	B01-52	Loara Street Bridge	Concrete	CARBON CREEK CHANNEL	PD042
83	Riprap Channel	B	B01-53	u/s Loara to d/s N West	Riprap	CARBON CREEK CHANNEL	PD043
83	Concrete-Lined	B	B01-54	N West Street Bridge	Concrete	CARBON CREEK CHANNEL	PD043
83	Riprap Channel	B	B01-57.01	u/s West to	Concrete	CARBON CREEK CHANNEL	PD043
83	Riprap Channel	B	B01-57.02	d/s La Palma	Concrete	CARBON CREEK CHANNEL	PD043
83	Underground Conduit	B	B01-58.02	Citron St to Harbor Blvd	Concrete	CARBON CREEK CHANNEL	PD043
83	Underground Conduit	B	B01-59.02	Anaheim Blvd to Pauline St	Concrete	CARBON CREEK CHANNEL	PM020
83	Concrete-Lined	B	B01-60	u/s La Palma to d/s Raymond Retarding Basin	Concrete	CARBON CREEK CHANNEL	PM020
83	Underground Conduit	B	B01-61	RCB Culvert d/s of Raymond Retarding Basin	Concrete	CARBON CREEK CHANNEL	PD044
83	Concrete-Lined	B	B01-62.01	Raymond Retarding Basin (B01B03)	Concrete	CARBON CREEK CHANNEL	PD044
83	Concrete-Lined	B	B01-62.02	Raymond Retarding Basin (B01B03)	Concrete	CARBON CREEK CHANNEL	PD044
83	Concrete-Lined	B	B01-62.03	Raymond Retarding Basin (B01B03)	Earth/Riprap	CARBON CREEK CHANNEL	PD044
83	Concrete-Lined	B	B01-63	Basalm Street Bridge	Concrete	CARBON CREEK CHANNEL	PD044
83	Earth Channel	B	B01-64	u/s Basalm to d/s Kenwood	Earth/Riprap	CARBON CREEK CHANNEL	PD044
83	Concrete-Lined	B	B01-65	Kenwood Street Bridge	Concrete	CARBON CREEK CHANNEL	PD044
83	Earth Channel	B	B01-66	u/s Kenwood to d/s East	Riprap	CARBON CREEK CHANNEL	PD044
83	Underground Conduit	B	B01-67	Riverside Freeway RCB Culvert	Concrete	CARBON CREEK CHANNEL	PD044
83	Riprap Channel	B	B01-68	u/s Riverside freeway to d/s Acacia St	Earth/Riprap	CARBON CREEK CHANNEL	PD044
83	Underground Conduit	B	B01-69	Acacia Street RCB Culvert	Concrete	CARBON CREEK CHANNEL	PD044
83	Riprap Channel	B	B01-70	u/s Acacia to d/s State College	Concrete	CARBON CREEK CHANNEL	PD045
83	Concrete-Lined	B	B01-72	Placentia Retarding Basin (B01B04)	Concrete	CARBON CREEK CHANNEL	PD045
83	Concrete-Lined	B	B01-74	u/s Placentia ave to d/s B01S03 confluence	Concrete	CARBON CREEK CHANNEL	PD045
83	Concrete-Lined	B	B01-75	Placentia Storm Channel confluence	Concrete	CARBON CREEK CHANNEL	PD045
83	Concrete-Lined	B	B01-76	grade break to d/s Orange Freeway	Riprap	CARBON CREEK CHANNEL	PD045
83	Underground Conduit	B	B01-87	Gaw Dr. RCB Culvert	Concrete	CARBON CREEK CHANNEL	PD046
83	Riprap Channel	B	B01-88	u/s Gaw to d/s Kraemer	Concrete	CARBON CREEK CHANNEL	PD046
83	Underground Conduit	B	B01-89	Kraemer Blvd RCB Culvert	Concrete	CARBON CREEK CHANNEL	PD046
90	Concrete-Lined	B	B02-01.01	u/s Coyote Creek confluence to 24" storm drain	Concrete	MOODY CREEK CHANNEL	PD047
90	Concrete-Lined	B	B02-01.02	24" storm drain to Acacia Street Storm drain	Concrete	MOODY CREEK CHANNEL	PD047
90	Concrete-Lined	B	B02-01.03	Acacia Street Storm drain to 24" storm drain	Concrete	MOODY CREEK CHANNEL	PD047

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
90	Concrete-Lined	B	B02-01.04	24" storm drain to d/s Guardian Drive	Concrete	MOODY CREEK CHANNEL	PD047
90	Underground Conduit	B	B02-02	Guardian Drive RCB Culvert	Earth	MOODY CREEK CHANNEL	PD047
90	Concrete-Lined	B	B02-03.01	u/s Guardian drive to grade break	Earth	MOODY CREEK CHANNEL	PD047
90	Concrete-Lined	B	B02-03.02	grade break	Earth	MOODY CREEK CHANNEL	PD047
93	Earth Channel	C	C01-03	Westminster Ave Bridge	Earth	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-04	u/s Westminster Bridge to d/s Railroad Bridge	Earth	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-05	Railroad Bridge	Earth	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-06.01	u/s Railroad Bridge to	Earth	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-06.02		Earth	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-06.03	d/s Garden Grove Freeway	Earth	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-06.04	Seventh Street Culvert	Concrete	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-07	u/s Garden Grove Feeway to d/s Access Road	Earth	LOS ALAMITOS CHANNEL	PD050
93	Underground Conduit	C	C01-08	Access Road RCB Culvert	Earth	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-09.01	u/s Access Road to Montecito Chnl confluence	Concrete	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-18	u/s Katella Ave to d/s San Gabriel River Freeway	Earth	LOS ALAMITOS CHANNEL	PD051
93	Underground Conduit	C	C01-19	San Gabriel River Freeway RCB Culvert	Earth	LOS ALAMITOS CHANNEL	PD051
93	Earth Channel	C	C01-20	u/s San Gabriel River Freeway to d/s Pedestrian B*	Earth	LOS ALAMITOS CHANNEL	PD051
93	Earth Channel	C	C01-21	Pedestrian Bridge	Earth	LOS ALAMITOS CHANNEL	PD051
93	Earth Channel	C	C01-22.01	u/s Pedestrian Bridge to	Earth	LOS ALAMITOS CHANNEL	PD051
93	Earth Channel	C	C01-22.02	d/s Cerritos Ave	Earth	LOS ALAMITOS CHANNEL	PD051
93	Underground Conduit	C	C01-23	Cerritos Ave RCB Culvert	Earth	LOS ALAMITOS CHANNEL	PD051
100	Earth Channel	C	C02-01	Tidelands to d/s Edinger Bridge	Earth	BOLSA CHICA CHANNEL	PD052
100	Earth Channel	C	C02-02	Edinger Bridge	Earth	BOLSA CHICA CHANNEL	PD052
100	Earth Channel	C	C02-10.01	u/s Westminster bridge to d/s transition	Concrete	BOLSA CHICA CHANNEL	PM022
100	Earth Channel	C	C02-10.02	u/s transition to d/s transition (near freeway)	Concrete	BOLSA CHICA CHANNEL	PM022
100	Riprap Channel	C	C02-10.03	transition before freeway	Concrete	BOLSA CHICA CHANNEL	PM022
100	Concrete-Lined	C	C02-12	u/s Freeway Culvert to d/s Lampson Ave	Concrete	BOLSA CHICA CHANNEL	PD056
100	Underground Conduit	C	C02-13	Lampson Ave RCB Culvert	Concrete	BOLSA CHICA CHANNEL	PD056
100	Concrete-Lined	C	C02-14.01	u/s Lampson to d/s Belgrave Storm Channel	Concrete	BOLSA CHICA CHANNEL	PD056
100	Concrete-Lined	C	C02-14.02	Belgrave Storm Channel	Earth	BOLSA CHICA CHANNEL	PD056
100	Concrete-Lined	C	C02-14.03	u/s Belgrave Storm Channel to d/s transition	Earth	BOLSA CHICA CHANNEL	PD056
100	Earth Channel	C	C02-15.01	u/s transition to Los Alamitos City Boundary	Concrete	BOLSA CHICA CHANNEL	PD057
100	Earth Channel	C	C02-16	Naval Air Station Bridge	Concrete	BOLSA CHICA CHANNEL	PD057
100	Earth Channel	C	C02-17.01	u/s Naval Air Station Bridge to Walker storm drain	Earth	BOLSA CHICA CHANNEL	PD057
100	Underground Conduit	C	C02-18	Golf Road Crossing	Earth	BOLSA CHICA CHANNEL	PD058
100	Earth Channel	C	C02-19	u/s Golf Road to d/s Naval Air Station Bridge	Earth	BOLSA CHICA CHANNEL	PD058
100	Earth Channel	C	C02-20	Naval Air Station Bridge	Earth	BOLSA CHICA CHANNEL	PD058
100	Earth Channel	C	C02-21	u/s Naval Air Station Bridge to d/s Maint Road	Earth	BOLSA CHICA CHANNEL	PD058
100	Earth Channel	C	C02-22	Maintenance Road	Concrete	BOLSA CHICA CHANNEL	PD058
100	Earth Channel	C	C02-23	u/s Maintenance Road to d/s Warland Dr	Earth	BOLSA CHICA CHANNEL	PD058
100	Underground Conduit	C	C02-24	Warland Drive RCB Culvert	Earth	BOLSA CHICA CHANNEL	PD058
100	Earth Channel	C	C02-25.01	u/s Warland Dr to d/s transition	Earth	BOLSA CHICA CHANNEL	PD058
100	Earth Channel	C	C02-25.02	transition	Riprap	BOLSA CHICA CHANNEL	PD058
100	Earth Channel	C	C02-25.03	u/s transition to d/s Stanton Storm Channel	Riprap	BOLSA CHICA CHANNEL	PD058
100	Riprap Channel	C	C02-26.01	u/s Stanton Storm Channel to d/s transition	Concrete	BOLSA CHICA CHANNEL	PD058
100	Riprap Channel	C	C02-26.02	transition	Concrete	BOLSA CHICA CHANNEL	PD058
100	Underground Conduit	C	C02-27	Katella Ave RCB Culvert	Concrete	BOLSA CHICA CHANNEL	PD058
100	Underground Conduit	C	C02-28.01	transition	Concrete	BOLSA CHICA CHANNEL	PD058
100	Underground Conduit	C	C02-28.02	u/s transition to 48" storm drain	Concrete	BOLSA CHICA CHANNEL	PD058

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
100	Underground Conduit	C	C02-28.03	48" storm drain to d/s transition	Concrete	BOLSA CHICA CHANNEL	PD058
100	Underground Conduit	C	C02-29	Plaza Dr RCB Culvert	Concrete	BOLSA CHICA CHANNEL	PD058
100	Underground Conduit	C	C02-30	Plaza Dr RCB Culvert	Concrete	BOLSA CHICA CHANNEL	PD058
103	Underground Conduit	C	C03-01	Bolsa Chica Road RCB Culverts	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD060
103	Concrete-Lined	C	C03-06.01	u/s Navy Railroad to d/s C03S01	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD060
103	Concrete-Lined	C	C03-06.02	u/s C03S01 to d/s Westminster Ave	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD060
103	Concrete-Lined	C	C03-12.01	u/s Edwards Street to	Concrete	ANAHEIM-BARBER CITY CHANNEL	PM023
103	Concrete-Lined	C	C03-12.02	d/s Pipe Bridge	Concrete	ANAHEIM-BARBER CITY CHANNEL	PM023
103	Concrete-Lined	C	C03-13	Pipe Bridge	Concrete	ANAHEIM-BARBER CITY CHANNEL	PM023
103	Underground Conduit	C	C03-15	Garden Grove Blvd RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD062
103	Concrete-Lined	C	C03-16	u/s Garden Grove Bl to d/s Garden Grove Fwy/Knott	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD062
103	Underground Conduit	C	C03-17	Garden Grove Freeway/Knott Ave RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD062
103	Concrete-Lined	C	C03-18	u/s Garden Grove Fwy/Knott to d/s Ped Bridge	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD062
103	Concrete-Lined	C	C03-19	Pedestrian Bridge	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD062
103	Concrete-Lined	C	C03-20	u/s Pedestrian Bridge to d/s Western Ave	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD062
103	Underground Conduit	C	C03-31	Dale St RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD065
103	Concrete-Lined	C	C03-32	u/s Dale to d/s MacDuff St	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD065
103	Underground Conduit	C	C03-33	MacDuff St RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD065
103	Concrete-Lined	C	C03-34.01	u/s MacDuff to d/s Grade Break	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD065
103	Concrete-Lined	C	C03-34.03	u/s Grade Break to	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD065
103	Concrete-Lined	C	C03-34.04	d/s P.E.R.R.	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD065
103	Concrete-Lined	C	C03-34.05	Former P.E.R.R. Bridge	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD066
103	Concrete-Lined	C	C03-34.06	u/s former P.E.R.R. Bridge to d/s Grade Break	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD066
103	Concrete-Lined	C	C03-34.07	u/s Grade Break to d/s Magnolia/Orangewood	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD066
103	Underground Conduit	C	C03-35	Magnolia/Orangewood RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD066
103	Concrete-Lined	C	C03-36.01	u/s Magnolia/Orangewood to Grade Break	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD066
103	Concrete-Lined	C	C03-36.02	Grade Break to d/s Gilbert Street	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD066
103	Underground Conduit	C	C03-37	Gilbert Street RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD066
103	Concrete-Lined	C	C03-38	u/s Gilbert St to d/s Barclay Dr	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD066
103	Concrete-Lined	C	C03-40	u/s Barclay Dr to d/s Biscayne Blvd	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD067
103	Underground Conduit	C	C03-39	Barclay Dr. RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD066
103	Underground Conduit	C	C03-41	Biscaynve Blvd RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD067
103	Concrete-Lined	C	C03-42	u/s Biscayne Blvd to d/s Brookhurst St	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD067
103	Underground Conduit	C	C03-43	Brookhurst St RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD067
103	Underground Conduit	C	C03-44	Brookhurst St RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD067
103	Concrete-Lined	C	C03-45	u/s Brookhurst to d/s Dallas Dr	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD067
103	Underground Conduit	C	C03-46	Dallas Dr RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD067
103	Concrete-Lined	C	C03-47	u/s Dallas Dr to d/s Palmwood Dr	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD067
103	Underground Conduit	C	C03-48	Palmwood Dr RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD067
103	Concrete-Lined	C	C03-49	u/s Palmwood to d/s Pedestrian Bridge	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD068
103	Concrete-Lined	C	C03-50	Pedestrian Bridge	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD068
103	Concrete-Lined	C	C03-51.01	u/s Pedestrian Bridge to	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD068
103	Concrete-Lined	C	C03-51.02	d/s Euclid St	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD068
103	Underground Conduit	C	C03-52	Euclid St RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD068
103	Concrete-Lined	C	C03-53	u/s Euclid to d/s Wakefield	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD068
103	Underground Conduit	C	C03-54	Wakefield St RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD068
103	Concrete-Lined	C	C03-55	u/s Wakefield to d/s Eileen/Flippen	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD068
103	Underground Conduit	C	C03-56	Eileen/Flippen RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD068
103	Concrete-Lined	C	C03-57.01	u/s Eileen/Flippen to grade break	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD069

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
103	Concrete-Lined	C	C03-57.02	grade break to d/s Katella	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD069
103	Underground Conduit	C	C03-58	Katella Ave RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD069
103	Concrete-Lined	C	C03-59	u/s Katella to d/s Kimberly	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD069
103	Underground Conduit	C	C03-60	Kimberly Ave RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD069
103	Concrete-Lined	C	C03-61	u/s Kimberly to d/s Cerritos	Earth	ANAHEIM-BARBER CITY CHANNEL	PD069
103	Underground Conduit	C	C03-62	Cerritos Ave RCB Culvert	Earth	ANAHEIM-BARBER CITY CHANNEL	PD069
103	Concrete-Lined	C	C03-63.02	d/s Ball Rd	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD069
113	Earth Channel	C	C04-01	Confluence with Bolsa Chica Channel C02 to d/s Bo*	Earth	WESTMINSTER CHANNEL	PD070
113	Earth Channel	C	C04-03	u/s Bolsa Chica St Bridge to d/s Graham St Bridge	Earth	WESTMINSTER CHANNEL	PD070
113	Earth Channel	C	C04-04	Graham St Bridge	Earth	WESTMINSTER CHANNEL	PD070
113	Earth Channel	C	C04-05	u/s Graham St to d/s vehicle bridge	Concrete	WESTMINSTER CHANNEL	PD070
113	Earth Channel	C	C04-06	Vehicle Bridge	Earth	WESTMINSTER CHANNEL	PD070
113	Earth Channel	C	C04-13.06	to d/s Bolsa Ave	Earth	WESTMINSTER CHANNEL	PD071
113	Underground Conduit	C	C04-14	Bolsa Ave RCB Culvert	Earth	WESTMINSTER CHANNEL	PD071
113	Concrete-Lined	C	C04-15.01	u/s Bolsa Ave to	Earth	WESTMINSTER CHANNEL	PD072
113	Earth Channel	C	C04-15.02		Earth	WESTMINSTER CHANNEL	PD072
113	Earth Channel	C	C04-15.03	d/s Edwards Street	Concrete	WESTMINSTER CHANNEL	PD072
113	Underground Conduit	C	C04-16	Edwards St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD072
113	Concrete-Lined	C	C04-17.01	u/s Edwards Street to	Concrete	WESTMINSTER CHANNEL	PD072
113	Concrete-Lined	C	C04-17.03	d/s Goldenwest Street	Concrete	WESTMINSTER CHANNEL	PD073
113	Underground Conduit	C	C04-18	Goldenwest St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD073
113	Concrete-Lined	C	C04-20.01	u/s San Diego Freeway	Concrete	WESTMINSTER CHANNEL	PD074
113	Concrete-Lined	C	C04-20.02	d/s Chestnut Street	Concrete	WESTMINSTER CHANNEL	PD074
113	Underground Conduit	C	C04-21	Chestnut St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD074
113	Concrete-Lined	C	C04-22	u/s Chestnut to d/s Private Bridge	Concrete	WESTMINSTER CHANNEL	PD074
113	Concrete-Lined	C	C04-23	Private Bridge	Concrete	WESTMINSTER CHANNEL	PD074
113	Concrete-Lined	C	C04-24	u/s Private Bridge to d/s Railroad Culvert	Concrete	WESTMINSTER CHANNEL	PD075
113	Underground Conduit	C	C04-25	Union Pacific Railroad RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD075
113	Concrete-Lined	C	C04-26.01	u/s Railroad Culvert	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-26.02	to transition	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-29.06	Grade Break to Grade Break	Concrete	WESTMINSTER CHANNEL	PM024
113	Underground Conduit	C	C04-31	Beach Blvd RCB Culverts	Concrete	WESTMINSTER CHANNEL	PD076
113	Concrete-Lined	C	C04-33	u/s Beach Blvd to d/s Maintenance Road	Concrete	WESTMINSTER CHANNEL	PD076
113	Underground Conduit	C	C04-34	Maintenance Road Culverts	Concrete	WESTMINSTER CHANNEL	PD076
113	Concrete-Lined	C	C04-35.01	u/s Maintenance road to	Concrete	WESTMINSTER CHANNEL	PD076
113	Concrete-Lined	C	C04-35.02	d/s Newland Street	Concrete	WESTMINSTER CHANNEL	PD076
113	Underground Conduit	C	C04-36	Newland St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD076
113	Concrete-Lined	C	C04-37.01	u/s Newland Street to	Concrete	WESTMINSTER CHANNEL	PD076
113	Underground Conduit	C	C04-38	Magnolia St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD076
113	Concrete-Lined	C	C04-39.01	u/s Magnolia Street to	Concrete	WESTMINSTER CHANNEL	PD077
113	Concrete-Lined	C	C04-39.02	d/s Bushard Street	Concrete	WESTMINSTER CHANNEL	PD077
113	Underground Conduit	C	C04-40	Bushard St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD077
113	Concrete-Lined	C	C04-41.01	u/s Bushard Street to	Concrete	WESTMINSTER CHANNEL	PD077
113	Concrete-Lined	C	C04-41.02	d/s Brookhurst Street	Riprap	WESTMINSTER CHANNEL	PD077
113	Underground Conduit	C	C04-42	Brookhurst St RCB Culvert	Riprap	WESTMINSTER CHANNEL	PD077
113	Earth Channel	C	C04-43.01	u/s Brookhurst Street to	Riprap	WESTMINSTER CHANNEL	PD077
113	Earth Channel	C	C04-43.02	Between Brookhurst and Ward	Riprap	WESTMINSTER CHANNEL	PD077
113	Earth Channel	C	C04-43.03	Between Brookhurst and Ward	Concrete	WESTMINSTER CHANNEL	PD077
113	Earth Channel	C	C04-43.04	d/s Ward Street	Riprap	WESTMINSTER CHANNEL	PD077

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
113	Underground Conduit	C	C04-44	Ward Street RCB Culvert	Riprap	WESTMINSTER CHANNEL	PD078
113	Earth Channel	C	C04-45.01	u/s Ward Street to	Earth	WESTMINSTER CHANNEL	PD078
113	Earth Channel	C	C04-45.02	d/s Westminster Ave	Earth	WESTMINSTER CHANNEL	PD078
113	Underground Conduit	C	C04-46	Westminster Ave RCB Culvert	Earth	WESTMINSTER CHANNEL	PD078
115	Riprap Channel	C	C05-03	Oil Bridge	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD079
115	Sheetpile Soft Base	C	C05-04.02	End of Rip-Rap to Beginning of South Sheet Piles	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD080
115	Sheetpile Soft Base	C	C05-05.01	Transition	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD080
115	Sheetpile Soft Base	C	C05-06	Transition to d/s Graham St Bridge	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD080
115	Sheetpile Soft Base	C	C05-07	Graham Street Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD080
115	Sheetpile Soft Base	C	C05-08	u/s Graham St Bridge to d/s Warner Ave Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD080
115	Earth Channel	C	C05-09	Warner Avenue Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD080
115	Concrete-Lined	C	C05-19	Gothard Street Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Concrete-Lined	C	C05-20	u/s Gothard Street Bridge to d/s Railroad Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Concrete-Lined	C	C05-21	Railroad Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Concrete-Lined	C	C05-22	u/s Railroad Bridge to d/s OceanView Channel Conf*	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Concrete-Lined	C	C05-23	OceanView Channel Confluence	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Concrete-Lined	C	C05-24.01	OceanView Channel Confluence to 150' u/s	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Earth Channel	C	C05-24.02	150' u/s OceanView Channel Confluence to d/s Beac*	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD082
115	Underground Conduit	C	C05-25	Beach Boulevard Box Culverts	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD082
115	Underground Conduit	C	C05-27	Woodruff Street Box Culverts	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD083
115	Earth Channel	C	C05-38.01	u/s Bushard St to C05S06	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD084
115	Earth Channel	C	C05-38.02	C05S06 to d/s McFadden/Brookhurst	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD084
115	Underground Conduit	C	C05-39	McFadden Street/Brookhurst Street IS Box Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD084
115	Earth Channel	C	C05-40	u/s McFadden/Brookhurst to d/s Ward	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD085
115	Underground Conduit	C	C05-41	Ward Street Box Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD085
115	Concrete-Lined	C	C05-54	u/s Fay to d/s Morningside (d/s of C05P23)	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
115	Concrete-Lined	C	C05-58	u/s Westminster to d/s OCTD Yard (d/s of C05S10)	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
115	Underground Conduit	C	C05-59	OCTD Yard RCB Culverts (u/s of C05S10)	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
115	Underground Conduit	C	C05-60	OCTD YARD RCB Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
115	Concrete-Lined	C	C05-61	u/s OCTD Yard to d/s Harbor Blvd	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
115	Underground Conduit	C	C05-62	Harbor Blvd RCB Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD088
115	Concrete-Lined	C	C05-63.01	u/s Harbor to C05P16	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD088
115	Concrete-Lined	C	C05-63.02	C05P16 to d/s Trask	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD088
115	Underground Conduit	C	C05-64	Trask Ave RCB Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD088
115	Concrete-Lined	C	C05-65	u/s Trask to d/s Pearce	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD088
115	Underground Conduit	C	C05-66	Pearce St RCB Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD088
115	Concrete-Lined	C	C05-67	u/s Pearce to d/s Garden Grove Freeway	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD088
115	Underground Conduit	C	C05-68	SR-22 Fwy RCB Culverts (d/s C05S11)	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD089
115	Underground Conduit	C	C05-70	Garden Grove Blvd RCB Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
115	Concrete-Lined	C	C05-69	u/s Garden Grove freeway to d/s Garden Grove Blvd	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD089
115	Underground Conduit	C	C05-72	Aspenwood Lane RCB Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
115	Concrete-Lined	C	C05-73.01	u/s Aspenwood lane to d/s Haster Basin RCB	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
115	Underground Conduit	C	C05-75	Haster/Lampson IS RCB Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
115	Concrete-Lined	C	C05-76	u/s Culverts to d/s Allard	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
115	Underground Conduit	C	C05-77	Allard Ave RCB Culverts	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
115	Concrete-Lined	C	C05-78.01	u/s Allard to	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
127	Earth Channel	C	C06-01	Confluence with C05 to d/s Beach Blvd	Concrete	OCEAN VIEW CHANNEL	PD091
127	Underground Conduit	C	C06-02	Beach Blvd RCB Culverts	Concrete	OCEAN VIEW CHANNEL	PD091
127	Underground Conduit	C	C06-10	Magnolia Street RCB Culverts	Concrete	OCEAN VIEW CHANNEL	PD092

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
127	Underground Conduit	C	C06-11	u/s Magnolia St to d/s I-405 FWY	Concrete	OCEAN VIEW CHANNEL	PD092
127	Underground Conduit	C	C06-12	I-405 (San Diego) Fwy RCB Culverts	Concrete	OCEAN VIEW CHANNEL	PD093
127	Concrete-Lined	C	C06-13	u/s I-405 FWY to d/s Bushard St	Earth	OCEAN VIEW CHANNEL	PD094
127	Underground Conduit	C	C06-14	Bushard Street RCB Culverts	Concrete	OCEAN VIEW CHANNEL	PD094
127	Earth Channel	C	C06-15.01	u/s Bushard St to 48-inch storm drain inlet (near*	Concrete	OCEAN VIEW CHANNEL	PD094
127	Earth Channel	C	C06-15.02	48-inch storm drain inlet (near Silk Tree Street)*	Concrete	OCEAN VIEW CHANNEL	PD094
128	Concrete-Lined	C	C07-04.01	Bolsa Chica Road Culverts to u/s Bolsa Chica Road	Earth	SUNSET CHANNEL	PD096
128	Concrete-Lined	C	C07-04.02	u/s Bolsa Chica Road to Curve Eastward	Steel/Earth	SUNSET CHANNEL	PD096
128	Earth Channel	C	C07-04.03	Curve Eastward to d/s Pedestrian Bridge	Steel/Earth	SUNSET CHANNEL	PD096
128	Earth Channel	C	C07-05	Pedestrian Bridge	Earth/Riprap	SUNSET CHANNEL	PD096
129	Sheetpile Soft Base	D	D01-01	Talbert channel Confluence to d/s Magnolia	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM026
129	Riprap Channel	D	D01-02	Magnolia Ave Bridge	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM026
129	Sheetpile Soft Base	D	D01-03.01	u/s Magnolia to d/s transition	Concrete	HUNTINGTON BEACH CHANNEL	PM026
129	Sheetpile Soft Base	D	D01-03.02	u/s transition to d/s Pipe Bridge	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM026
129	Concrete-Lined	D	D01-04	Pipe Bridge	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM026
129	Sheetpile Soft Base	D	D01-05.01	u/s Pipe bridge to d/s transition	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM026
129	Sheetpile Soft Base	D	D01-08.05	78' x 12.75' Rect Channel to	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-08.06	76' x 12.75' Rect Channel to	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-08.07	74' x 12.75' Rect Channel to	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-08.08	72' x 12.75' Rect Channel to	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-08.09	71' x 12.75' Rect Channel to	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-08.10	70' x 12.75' Rect Channel to	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-08.11	grade break	Concrete	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-08.12	grade break to d/s Atlanta	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM027
129	Underground Conduit	D	D01-09	Atlanta Ave RCB Culvert	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-10	u/s Atlanta to d/s Indianapolis	Earth	HUNTINGTON BEACH CHANNEL	PM027
129	Underground Conduit	D	D01-11	Indianapolis Ave RCB Culvert	Steel/Earth	HUNTINGTON BEACH CHANNEL	PM027
131	Sheetpile Soft Base	D	D02-06.01	u/s Brookhurst to d/s Huntington Beach Channel co*	Concrete	TALBERT CHANNEL	PM028
131	Sheetpile Soft Base	D	D02-06.02	u/s Huntington Beach Channel to d/s Banning	Steel/Earth	TALBERT CHANNEL	PM028
131	Underground Conduit	D	D02-07	Banning Street RCB Culvert	Steel/Earth	TALBERT CHANNEL	PM028
131	Sheetpile Soft Base	D	D02-08	u/s Banning to d/s Hamilton	Concrete	TALBERT CHANNEL	PM028
131	Underground Conduit	D	D02-09.01	Hamilton Ave RCB Culvert	Steel/Earth	TALBERT CHANNEL	PM029
131	Sheetpile Soft Base	D	D02-09.03	u/s transition to d/s transition	Steel/Earth	TALBERT CHANNEL	PM029
131	Sheetpile Soft Base	D	D02-09.02	u/s Hamilton to d/s transition	Concrete	TALBERT CHANNEL	PM029
131	Sheetpile Soft Base	D	D02-09.04	u/s transition to d/s Atlanta	Steel/Earth	TALBERT CHANNEL	PM029
131	Underground Conduit	D	D02-10	Atlanta Ave RCB Culvert	Concrete	TALBERT CHANNEL	PM029
131	Sheetpile Soft Base	D	D02-11	u/s Atlanta to d/s Indianapolis	Steel/Earth	TALBERT CHANNEL	PM029
131	Underground Conduit	D	D02-12	Indianapolis Ave RCB Culvert	Concrete	TALBERT CHANNEL	PM029
131	Sheetpile Soft Base	D	D02-13	u/s Indianapolis to d/s Adams	Steel/Earth	TALBERT CHANNEL	PM029
131	Underground Conduit	D	D02-14	Adams Ave RCB Culvert	Steel/Earth	TALBERT CHANNEL	PM029
131	Sheetpile Soft Base	D	D02-15.01	u/s Adams to d/s transition	Concrete	TALBERT CHANNEL	PM029
131	Sheetpile Soft Base	D	D02-15.02	u/s transition to d/s Yorktown	Concrete	TALBERT CHANNEL	PM029
131	Underground Conduit	D	D02-16	Yorktown Ave RCB Culvert	Concrete	TALBERT CHANNEL	PM029
131	Concrete-Lined	D	D02-17	u/s Yorktown to d/s Fountain Valley Channel (D05)*	Concrete	TALBERT CHANNEL	PM030
131	Concrete-Lined	D	D02-18	u/s Fountain Valley Channel (D05) confluence to	Concrete	TALBERT CHANNEL	PM030
131	Concrete-Lined	D	D02-19	d/s Garfield	Concrete	TALBERT CHANNEL	PM030
131	Underground Conduit	D	D02-20	Garfield Ave RCB Culvert	Concrete	TALBERT CHANNEL	PM030
131	Concrete-Lined	D	D02-21.01	u/s Garfield to d/s Walnut Pump Station	Concrete	TALBERT CHANNEL	PM030
131	Concrete-Lined	D	D02-21.02	u/s Walnut Pump Station to d/s Ellis	Concrete	TALBERT CHANNEL	PM030

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
131	Underground Conduit	D	D02-22	Ellis Ave RCB Culvert	Concrete	TALBERT CHANNEL	PM030
131	Concrete-Lined	D	D02-23.01	u/s Ellis to d/s transition (Toucan Ave)	Concrete	TALBERT CHANNEL	PM030
131	Concrete-Lined	D	D02-23.02	(Toucan Ave)u/s transition to d/s Talbert	Concrete	TALBERT CHANNEL	PM030
131	Underground Conduit	D	D02-24	Talbert Ave RCB Culvert	Concrete	TALBERT CHANNEL	PM030
132	Concrete-Lined	D	D03-01	u/s confluence with Santa Ana River to d/s Victor*	Concrete	GREENVILLE-BANNING CHANNEL	PM031
132	Concrete-Lined	D	D03-02	Victoria Street Bridge	Concrete	GREENVILLE-BANNING CHANNEL	PM031
132	Concrete-Lined	D	D03-03.01	u/s Victoria to d/s Fairview Channel Confluence (*	Concrete	GREENVILLE-BANNING CHANNEL	PM031
132	Concrete-Lined	D	D03-03.02	u/s Fairview Channel Confluence (D04) to d/s Adams	Concrete	GREENVILLE-BANNING CHANNEL	PM032
132	Concrete-Lined	D	D03-04	Adams Street Bridge	Concrete	GREENVILLE-BANNING CHANNEL	PM032
132	Concrete-Lined	D	D03-05.01	u/s Adams to grade change	Concrete	GREENVILLE-BANNING CHANNEL	PM032
132	Concrete-Lined	D	D03-05.02	grade change to grade change	Concrete	GREENVILLE-BANNING CHANNEL	PM032
132	Concrete-Lined	D	D03-05.03	grade change to d/s transition	Concrete	GREENVILLE-BANNING CHANNEL	PM032
132	Concrete-Lined	D	D03-06	u/s transition to d/s California	Earth	GREENVILLE-BANNING CHANNEL	PD097
132	Underground Conduit	D	D03-07	California Street RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD097
132	Earth Channel	D	D03-08	u/s California to d/s New Hampshire	Earth	GREENVILLE-BANNING CHANNEL	PD097
132	Underground Conduit	D	D03-09	New Hampshire Street RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD097
132	Earth Channel	D	D03-10	u/s New Hampshire to d/s San Diego Freeway (d/s o*	Earth	GREENVILLE-BANNING CHANNEL	PD097
132	Underground Conduit	D	D03-11	San Diego Freeway RCB Culvert (u/s of Hyland Stor*	Concrete	GREENVILLE-BANNING CHANNEL	PD097
132	Earth Channel	D	D03-12	u/s San Diego Freeway to d/s street	Earth	GREENVILLE-BANNING CHANNEL	PD097
132	Underground Conduit	D	D03-13	RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD097
132	Earth Channel	D	D03-14	u/s street to d/s Harbor	Concrete	GREENVILLE-BANNING CHANNEL	PD098
132	Underground Conduit	D	D03-15	Harbor Blvd RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD098
132	Underground Conduit	D	D03-16	Harbor-South coast RCB Culvert (d/s Times Storm D*	Concrete	GREENVILLE-BANNING CHANNEL	PD098
132	Underground Conduit	D	D03-17	Harbor-South coast RCB Culvert (u/s Times Storm D*	Earth	GREENVILLE-BANNING CHANNEL	PD098
132	Underground Conduit	D	D03-18	Harbor-South coast RCB Culvert	Earth	GREENVILLE-BANNING CHANNEL	PD098
132	Underground Conduit	D	D03-19	Harbor-South coast RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD098
113	Earth Channel	C	C04-02	Bolsa Chica St Bridge	Concrete	WESTMINSTER CHANNEL	PD070
113	Earth Channel	C	C04-10	Marine Viking Way bridge	Earth	WESTMINSTER CHANNEL	PD071
135	Underground Conduit	D	D04-02	Placentia Ave RCB Culvert	Concrete	FAIRVIEW CHANNEL	PD101
135	Underground Conduit	D	D04-03	Placentia Ave RCB Culvert	Concrete	FAIRVIEW CHANNEL	PD101
135	Concrete-Lined	D	D04-04.01	u/s Placentia Ave to d/s transition	Concrete	FAIRVIEW CHANNEL	PD101
135	Concrete-Lined	D	D04-04.03	grade break to end	Concrete	FAIRVIEW CHANNEL	PD101
136	Concrete-Lined	D	D05-01.01	u/s Talbert Channel confluence to d/s transition	Concrete	FOUNTAIN VALLEY CHANNEL	PM033
136	Concrete-Lined	D	D05-01.02	u/s transition to d/s Bushard	Concrete	FOUNTAIN VALLEY CHANNEL	PM033
136	Underground Conduit	D	D05-02	Bushard Street RCB Culvert	Concrete	FOUNTAIN VALLEY CHANNEL	PM033
136	Concrete-Lined	D	D05-03.01	u/s Bushard to grade break	Concrete	FOUNTAIN VALLEY CHANNEL	PM033
136	Concrete-Lined	D	D05-03.02	grade break to d/s transition	Concrete	FOUNTAIN VALLEY CHANNEL	PM033
136	Underground Conduit	D	D05-04	Garfield Ave RCB Culvert	Concrete/Earth	FOUNTAIN VALLEY CHANNEL	PM033
136	Concrete-Lined	D	D05-05.01	u/s Garfield to d/s transition	Concrete/Earth	FOUNTAIN VALLEY CHANNEL	PM033
136	Concrete Soft Base	D	D05-05.02	u/s transition to grade break	Concrete	FOUNTAIN VALLEY CHANNEL	PM033
136	Concrete Soft Base	D	D05-05.03	grade break to d/s Brookhurst	Concrete/Earth	FOUNTAIN VALLEY CHANNEL	PM033
136	Underground Conduit	D	D05-06	Brookhurst Street RCB Culvert	Concrete/Earth	FOUNTAIN VALLEY CHANNEL	PM033
136	Concrete Soft Base	D	D05-07.01	u/s Brookhurst to 60" RCP	Concrete	FOUNTAIN VALLEY CHANNEL	PM033
136	Concrete Soft Base	D	D05-07.02	60" RCP to d/s Ellis	Riprap	FOUNTAIN VALLEY CHANNEL	PM033
136	Underground Conduit	D	D05-08	Ellis Ave RCB Culvert	Concrete	FOUNTAIN VALLEY CHANNEL	PM033
136	Riprap Channel	D	D05-09.01	u/s Ellis to grade break	Concrete	FOUNTAIN VALLEY CHANNEL	PD102
136	Riprap Channel	D	D05-09.02	grade break to end construction	Concrete	FOUNTAIN VALLEY CHANNEL	PD102
136	Underground Conduit	D	D05-18.02	Euclid Street RCB Culvert	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
136	Underground Conduit	D	D05-18.03	Euclid Street RCB Culvert	Riprap	FOUNTAIN VALLEY CHANNEL	PM034

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
136	Underground Conduit	D	D05-18.04	Euclid Street RCB Culvert	Riprap	FOUNTAIN VALLEY CHANNEL	PM034
136	Underground Conduit	D	D05-18.05	Euclid Street Storm Drain	Riprap	FOUNTAIN VALLEY CHANNEL	PM034
138	Riprap Channel	E	E01-01	end of dike to d/s Pacific Coast Highway	Concrete	SANTA ANA RIVER CHANNEL	PM035
138	Riprap Channel	E	E01-02	Pacific Coast Highway Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM035
138	Riprap Channel	E	E01-03.02	u/s transition to d/s Greenville-Banning channel *	Concrete	SANTA ANA RIVER CHANNEL	PM035
138	Riprap Channel	E	E01-04	Victoria/Hamilton Bridge (excluding reach in 40' *	Concrete	SANTA ANA RIVER CHANNEL	PM036
138	Riprap Channel	E	E01-03.03	u/s transition (u/s Greenville Banning Channel D0*	Concrete	SANTA ANA RIVER CHANNEL	PM035
138	Concrete-Lined	E	E01-08.09	transition to 246'(W) X 27.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.10	transition to 246'(W) X 28'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.11	transition to 246'(W) X 28.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.12	to grade break	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.13	grade break to d/s transition	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.14	u/s transition to d/s transition	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.15	u/s transition to	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.16	transition to 246'(W) X 26'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.18	transition to 246'(W) X 25'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.19	transition to 246'(W) X 24.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.17	transition to 246'(W) X 25.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.20	d/s transition	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-09	u/s transition to d/s transition (I-405 Bridge)	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-19.01	u/s Harbor to grade break	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-19.02	grade break to	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-19.03	transition to 160'(W) X 21.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-19.04	transition to 160'(W) X 21'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-19.05	transition to 160'(W) X 20.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-19.06	transition to 160'(W) X 20'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-19.07	transition to 160'(W) X 19.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-19.08	transition to 160'(W) X 19'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-19.09	transition to 160'(W) X 14'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-19.10	transition to 160'(W) X 13.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-19.11	to d/s Edinger	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-20	Edinger Ave Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-21.01	u/s Edinger to grade break	Concrete	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-23.04	transition to 180'(W) X 17'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-23.05	transition to 180'(W) X 15'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-23.06	transition to 180'(W) X 13'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-23.07	d/s Bolsa/First	Concrete	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-24	Bolsa Ave/First Street Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-25.01	u/s Bolsa/First to grade break	Concrete	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-25.04	d/s Fifth Street	Concrete	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-26	Fifth Street Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-27.01	u/s Fifth Street to	Riprap	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-27.02	transition to 180'(W) X 12.5'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM041
138	Riprap Channel	E	E01-34.02	u/s drop structure to d/s Garden Grove Freeway	Riprap	SANTA ANA RIVER CHANNEL	PM042
138	Riprap Channel	E	E01-35	Garden Grove Freeway Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM042
138	Riprap Channel	E	E01-36	u/s Garden Grove Freeway to d/s Santa Ana Freeway	Riprap	SANTA ANA RIVER CHANNEL	PM042
138	Riprap Channel	E	E01-37	Santa Ana Freeway Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-38	u/s Santa Ana Freeway to d/s Chapman	Riprap	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-39	Chapman Ave Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM043

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
138	Riprap Channel	E	E01-40.01	u/s Chapman to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-40.02	u/s grade stabilizer to d/s Orangewood	Riprap	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-41	Orangewood Ave Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-50.01	u/s S.P.T. R.R. Bridge to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-50.02	u/s grade stabilizer to d/s Ball Road	Riprap	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-51	Ball Road Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-52.01	u/s Ball Road to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-52.02	u/s grade stabilizer to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-52.03	u/s grade stabilizer to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-52.04	u/s grade stabilizer to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-52.05	u/s grade stabilizer to d/s Lincoln	Riprap	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-53	Lincoln Ave Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-54.01	u/s Lincoln to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-60	u/s Tustin to d/s Riverside Freeway	Riprap	SANTA ANA RIVER CHANNEL	PM046
138	Riprap Channel	E	E01-61	Riverside Freeway Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM046
138	Riprap Channel	E	E01-62.01	u/s Riverside Freeway to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM046
138	Riprap Channel	E	E01-62.02	u/s grade stabilizer to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM046
138	Riprap Channel	E	E01-62.03	u/s grade stabilizer to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM046
138	Riprap Channel	E	E01-62.04	u/s grade stabilizer to d/s Lakeview	Riprap	SANTA ANA RIVER CHANNEL	PM046
138	Riprap Channel	E	E01-63	Lakeview Ave Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM046
138	Riprap Channel	E	E01-64.02	u/s grade stabilizer to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM047
138	Riprap Channel	E	E01-64.01	u/s Lakeview to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM047
138	Riprap Channel	E	E01-67.05	u/s grade stabilizer to grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM048
138	Riprap Channel	E	E01-67.07	u/s grade stabilizer to d/s Weir Canyon	Riprap	SANTA ANA RIVER CHANNEL	PM048
138	Riprap Channel	E	E01-68	Weir Canyon Road Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM049
138	Riprap Channel	E	E01-69	u/s Weir Canyon to end construction	Concrete	SANTA ANA RIVER CHANNEL	PM049
143	Riprap Channel	E	E02-01	u/s Santa Ana River confluence to d/s R.R.	Riprap	CARBON CREEK DIVERSION CHANNEL	PD103
143	Underground Conduit	E	E02-02	Railroad RCB Culvert	Concrete	CARBON CREEK DIVERSION CHANNEL	PD103
143	Riprap Channel	E	E02-03	u/s R.R. to d/s Frontrera	Riprap	CARBON CREEK DIVERSION CHANNEL	PD103
143	Underground Conduit	E	E02-04	Frontrera Street/Offramp RCB Culvert	Riprap	CARBON CREEK DIVERSION CHANNEL	PD103
143	Riprap Channel	E	E02-05	u/s Frontrera to d/s Riverside Freeway	Concrete	CARBON CREEK DIVERSION CHANNEL	PD103
143	Riprap Channel	E	E03-06	u/s Chapman to d/s Golf Course RCB	Riprap	CARBON CREEK DIVERSION CHANNEL	PD106
143	Underground Conduit	E	E03-05	Chapman Ave RCB Culvert	Riprap	CARBON CREEK DIVERSION CHANNEL	PD106
143	Concrete-Lined	E	E03-01	Orangethorpe Ave Bridge	Concrete	CARBON CREEK DIVERSION CHANNEL	PD106
143	Riprap Channel	E	E02-16	Miller Retarding Basin (E02B01), Desilting Basin	Concrete	CARBON CREEK DIVERSION CHANNEL	PD105
144	Underground Conduit	E	E03-08.02	Alta Vista Street RCB Culvert	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-08.01	begin RCB (u/s Golf Course RCB) to d/s transition	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-09.02	u/s Newton to	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-10.01	begin construction to 42" RCP @ west wall	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-10.02	42" RCP @ west wall to 42" RCP @ east wall	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-10.03	42" RCP @ east wall to 24" RCP @ east wall	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-10.04	24" RCP @ east wall to 24" RCP @ east wall	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-10.06	24" RCP @ west wall to d/s transition	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-10.07	u/s transition to 36" RCP @ east wall	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-11.01	u/s Palm to d/s grade break	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-11.02	u/s grade break to grade break	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-11.03	grade break to grade break	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-11.04	grade break to d/s Yorba Linda Blvd	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-12	Yorba Linda Blvd RCB Culvert	Concrete	CARBON CANYON CHANNEL	PM051

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
144	Concrete-Lined	E	E03-13	u/s Yorba Linda Blvd to d/s Yorba Pl	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-14	Yorba Pl Bridge	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-14.01	u/s Yorba Pl to d/s truck crossing	Riprap	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-14.02	Truck Crossing RCB Culvert	Riprap	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-16.06	u/s truck crossing to grade break	Riprap	CARBON CANYON CHANNEL	PM052
145	Riprap Channel	E	E04-01	Miller Basin to d/s Miller	Riprap	ATWOOD CHANNEL	PD107
145	Riprap Channel	E	E04-02	Miller Street Bridge	Concrete	ATWOOD CHANNEL	PD107
145	Riprap Channel	E	E04-03.01	u/s Miller Street to d/s concrete lined section	Earth	ATWOOD CHANNEL	PD107
145	Concrete-Lined	E	E04-03.02	concrete lined section	Earth	ATWOOD CHANNEL	PD107
145	Earth Channel	E	E04-03.03	u/s concrete lined section to	Earth	ATWOOD CHANNEL	PD107
145	Earth Channel	E	E04-03.04	d/s Tustin	Concrete/Earth	ATWOOD CHANNEL	PD107
145	Earth Channel	E	E04-04	Tustin Ave Bridge	Concrete/Earth	ATWOOD CHANNEL	PD107
145	Earth Channel	E	E04-05	u/s Tustin to d/s Richfield Channel confluence	Earth	ATWOOD CHANNEL	PD108
145	Concrete Soft Base	E	E04-16.01	u/s Fee Ana to d/s transition	Concrete	ATWOOD CHANNEL	PD110
145	Earth Channel	E	E04-16.02	u/s transition to d/s Lakeview	Concrete	ATWOOD CHANNEL	PD110
145	Underground Conduit	E	E04-17	Lakeview Ave RCB Culvert	Concrete	ATWOOD CHANNEL	PD110
145	Concrete-Lined	E	E04-18.01	u/s Lakeview to d/s transition	Concrete	ATWOOD CHANNEL	PD110
145	Concrete-Lined	E	E04-18.02	u/s transition to d/s transition	Concrete	ATWOOD CHANNEL	PD110
145	Concrete-Lined	E	E04-18.03	u/s transition to d/s A.T. & S.F. R.R.	Concrete	ATWOOD CHANNEL	PD110
145	Underground Conduit	E	E04-19	A.T. & S.F. R.R./Orangethorpe RCB Culvert	Concrete	ATWOOD CHANNEL	PD111
145	Concrete-Lined	E	E04-20.01	u/s Orangethorpe to	Concrete	ATWOOD CHANNEL	PD112
145	Concrete-Lined	E	E04-20.02	d/s trap channel	Concrete	ATWOOD CHANNEL	PD112
145	Concrete-Lined	E	E04-20.03	begin trap channel to Glenview Storm Drain E04P01	Concrete	ATWOOD CHANNEL	PD112
145	Concrete-Lined	E	E04-32	u/s Grandview to d/s transition	Concrete	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-33	u/s transition to box to	Concrete	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-34.01	36" RCP	Concrete	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-34.02	36" RCP to d/s transition	Concrete	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-35.01	u/s transition to d/s 24" RCP @ west wall	Concrete	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-35.02	24" RCP @ east wall to grade break	Concrete	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-35.03	grade break to d/s transition	Concrete	ATWOOD CHANNEL	PD113
145	Concrete-Lined	E	E04-36	u/s transition to d/s Kellog Heights	Concrete	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-37	Kellog Heights RCB Culvert	Concrete	ATWOOD CHANNEL	PD113
145	Concrete-Lined	E	E04-38.01	u/s Kellog Heights to d/s transition	Concrete	ATWOOD CHANNEL	PD113
145	Concrete-Lined	E	E04-38.02	u/s transition to d/s Mountain View	Concrete	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-39	Mountain View RCB Culvert	Concrete	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-40.01	u/s Mountain View to d/s transition	Earth	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-40.02	u/s transition to join existing RCB	Concrete	ATWOOD CHANNEL	PD113
145	Underground Conduit	E	E04-41	Kellog Drive RCB Culvert	Concrete	ATWOOD CHANNEL	PD113
148	Concrete-Lined	E	E05-01	u/s Atwood Channel Confluence to d/s A.T.&S.F. R.*	Concrete	RICHFIELD CHANNEL	PD108
148	Concrete-Lined	E	E05-02	A.T.&S.F. R.R. Bridge	Concrete	RICHFIELD CHANNEL	PD114
148	Underground Conduit	E	E05-03	Orangethorpe Ave RCB Culvert	Concrete	RICHFIELD CHANNEL	PD115
148	Underground Conduit	E	E05-04	Orangethorpe Ave RCB Culvert	Concrete	RICHFIELD CHANNEL	PD115
148	Concrete-Lined	E	E05-05	u/s Orangethorpe to d/s Jefferson	Concrete	RICHFIELD CHANNEL	PD115
148	Concrete-Lined	E	E05-07.01	u/s Jefferson to grade break	Concrete	RICHFIELD CHANNEL	PD115
148	Underground Conduit	E	E05-06	Jefferson Street RCB Culvert	Concrete	RICHFIELD CHANNEL	PD115
148	Concrete-Lined	E	E05-07.02	grade break to d/s transition	Concrete	RICHFIELD CHANNEL	PD115
148	Underground Conduit	E	E05-18	Willow Way RCB Culvert	Concrete	RICHFIELD CHANNEL	PD117
148	Concrete-Lined	E	E05-19.01	u/s Willow way to grade break	Concrete	RICHFIELD CHANNEL	PD117
148	Concrete-Lined	E	E05-19.02	grade break to	Concrete	RICHFIELD CHANNEL	PD117

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
148	Concrete-Lined	E	E05-21	Monette Circle Bridge	Concrete	RICHFIELD CHANNEL	PD117
148	Concrete-Lined	E	E05-20	d/s Monette	Concrete	RICHFIELD CHANNEL	PD117
148	Concrete-Lined	E	E05-22	u/s Monette to d/s Buena Vista	Concrete	RICHFIELD CHANNEL	PD117
148	Underground Conduit	E	E05-23.01	begin RCB to d/s transition	Concrete	RICHFIELD CHANNEL	PD117
148	Underground Conduit	E	E05-23.02	u/s transition to d/s transition	Concrete	RICHFIELD CHANNEL	PD117
148	Underground Conduit	E	E05-23.03	u/s transition to u/s Rockrose	Concrete	RICHFIELD CHANNEL	PD117
148	Concrete-Lined	E	E05-24	u/s Rockrose to d/s Page	Concrete	RICHFIELD CHANNEL	PD118
148	Underground Conduit	E	E05-25	Page Court RCB Culvert	Concrete	RICHFIELD CHANNEL	PD118
148	Concrete-Lined	E	E05-26	u/s Page Court to	Concrete	RICHFIELD CHANNEL	PD118
148	Concrete-Lined	E	E05-27	d/s Cerro Vista Dr	Concrete	RICHFIELD CHANNEL	PD118
148	Underground Conduit	E	E05-28	Cerro Vista RCB Culvert	Concrete	RICHFIELD CHANNEL	PD118
148	Concrete-Lined	E	E05-29.01	u/s Cerro Vista to d/s transition	Concrete	RICHFIELD CHANNEL	PD118
148	Underground Conduit	E	E05-29.02	u/s transition to d/s transition (u/s of Yorba Li*	Concrete	RICHFIELD CHANNEL	PD118
148	Concrete-Lined	E	E05-29.03	u/s transition (u/s of Yorba Linda Blvd) to d/s V*	Concrete	RICHFIELD CHANNEL	PD118
148	Underground Conduit	E	E05-30	Valley View Ave RCB Culvert	Concrete	RICHFIELD CHANNEL	PD118
148	Concrete-Lined	E	E05-31.01	u/s Valley View to d/s wall height transition	Concrete	RICHFIELD CHANNEL	PD118
148	Concrete-Lined	E	E05-31.02	u/s wall height transition to d/s covered portion	Concrete	RICHFIELD CHANNEL	PD118
148	Concrete-Lined	E	E05-31.03	begin covered portion to grade break	Concrete	RICHFIELD CHANNEL	PD118
148	Concrete-Lined	E	E05-31.04	grade break to d/s wall height transition	Riprap	RICHFIELD CHANNEL	PD118
148	Underground Conduit	E	E05-32	Casa Loma Street RCB Culvert	Concrete	RICHFIELD CHANNEL	PD118
148	Underground Conduit	E	E05-35	Imperial Highway RCB Culvert	Concrete	RICHFIELD CHANNEL	PD118
150	Underground Conduit	E	E06-01	u/s Santa Ana River Confluence to d/s La Palma	Concrete	ESPERANZA CHANNEL	PD119
150	Underground Conduit	E	E06-02	La Palma Ave RCB Culvert	Concrete	ESPERANZA CHANNEL	PD119
150	Underground Conduit	E	E06-03	La Palma Ave RCB Culvert	Concrete	ESPERANZA CHANNEL	PD119
150	Concrete-Lined	E	E06-04.01	u/s La Palma to d/s transition	Concrete	ESPERANZA CHANNEL	PD119
150	Concrete-Lined	E	E06-04.02	u/s transition to	Concrete	ESPERANZA CHANNEL	PD119
150	Concrete-Lined	E	E06-05	d/s RCB (d/s Blue Mud Storm Channel E06S01)	Concrete	ESPERANZA CHANNEL	PD119
150	Underground Conduit	E	E06-06.01	u/s RCB (u/s Blue Mud Storm Channel E06S01) tran*	Concrete	ESPERANZA CHANNEL	PD119
150	Underground Conduit	E	E06-06.02	grade break (u/s Esperanza) to grade break	Concrete	ESPERANZA CHANNEL	PD119
150	Underground Conduit	E	E06-06.03	grade break to grade break (near Via Del Puma)	Concrete	ESPERANZA CHANNEL	PD119
150	Underground Conduit	E	E06-06.04	grade break (near Via Del Puma) to grade break (d*	Concrete	ESPERANZA CHANNEL	PD119
150	Underground Conduit	E	E06-06.05	grade break (d/s Via del Cuervo) to grade break (*	Concrete	ESPERANZA CHANNEL	PD119
150	Underground Conduit	E	E06-07	Dominguez Ranch Road RCB Culvert	Concrete	ESPERANZA CHANNEL	PD119
150	Underground Conduit	E	E06-09	Yorba Ranch Road RCB Culvert	Concrete	ESPERANZA CHANNEL	PD120
150	Concrete-Lined	E	E06-10	u/s Yorba Ranch to d/s transition	Concrete	ESPERANZA CHANNEL	PD120
150	Underground Conduit	E	E06-11.01	begin RCB to grade break	Concrete	ESPERANZA CHANNEL	PD120
150	Underground Conduit	E	E06-11.02	grade break to d/s transition	Concrete	ESPERANZA CHANNEL	PD120
150	Underground Conduit	E	E06-11.03	u/s transition to d/s transition	Concrete	ESPERANZA CHANNEL	PD120
150	Concrete-Lined	E	E06-12	u/s transition to d/s transition	Concrete	ESPERANZA CHANNEL	PD120
150	Underground Conduit	E	E06-13	Yorba Linda Blvd RCB Culvert	Concrete	ESPERANZA CHANNEL	PD120
150	Concrete-Lined	E	E06-14	u/s transition to d/s transition	Concrete	ESPERANZA CHANNEL	PD120
150	Underground Conduit	E	E06-15	Felipa Road RCB Culvert	Concrete	ESPERANZA CHANNEL	PD120
150	Concrete-Lined	E	E06-16.02	u/s transition to d/s transition	Concrete	ESPERANZA CHANNEL	PD120
152	Concrete-Lined	E	E07-01	begin outlet structure to begin RCB	Concrete	COLLINS CHANNEL	PD121
152	Underground Conduit	E	E07-02	Bike Trail RCB Culvert	Riprap	COLLINS CHANNEL	PD121
152	Concrete-Lined	E	E07-03	u/s Bike trail to end RC Channel	Riprap	COLLINS CHANNEL	PD121
152	Riprap Channel	E	E07-04.01	begin rip-rap section to grade break	Riprap	COLLINS CHANNEL	PD121
152	Riprap Channel	E	E07-04.02	grade break to grade break	Concrete	COLLINS CHANNEL	PD121
152	Riprap Channel	E	E07-04.03	u/s grade break to d/s Main Street	Riprap	COLLINS CHANNEL	PD121

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
152	Underground Conduit	E	E07-05	Main Street RCB Culvert	Riprap	COLLINS CHANNEL	PD121
152	Riprap Channel	E	E07-06.01	u/s Main Street to grade break	Concrete	COLLINS CHANNEL	PD121
152	Riprap Channel	E	E07-06.02	grade break to d/s Struck	Riprap	COLLINS CHANNEL	PD121
152	Underground Conduit	E	E07-07	Struck Ave RCB Culvert	Concrete	COLLINS CHANNEL	PD121
152	Riprap Channel	E	E07-08	u/s Struck to d/s Katella	Riprap	COLLINS CHANNEL	PD121
152	Underground Conduit	E	E07-09	Katella ave/Batavia St RCB Culvert	Concrete	COLLINS CHANNEL	PD121
152	Riprap Channel	E	E07-10	u/s Katella to d/s S.P. R.R. (d/s E07S01)	Earth	COLLINS CHANNEL	PD122
152	Underground Conduit	E	E07-11	S.P.R.R RCB Culvert (u/s E07S01)	Earth	COLLINS CHANNEL	PD122
152	Earth Channel	E	E07-12	u/s S.P. R.R. to d/s Taft	Concrete	COLLINS CHANNEL	PD123
152	Underground Conduit	E	E07-13	Taft Ave RCB Culvert	Concrete	COLLINS CHANNEL	PD123
152	Underground Conduit	E	E07-15	Blueridge Ave RCB Culvert	Earth	COLLINS CHANNEL	PD123
152	Underground Conduit	E	E07-17	Glassel Street RCB Culvert	Earth	COLLINS CHANNEL	PD123
152	Concrete-Lined	E	E07-18.01	u/s Glassel to d/s E07S03 confluence	Earth	COLLINS CHANNEL	PD123
156	Earth Channel	E	E08-11.01	u/s Chapman to grade break	Earth	SANTIAGO CREEK CHANNEL	PD126
156	Earth Channel	E	E08-11.02	grade break to u/s Dana	Riprap	SANTIAGO CREEK CHANNEL	PD126
156	Natural Watercourse	E	E08-11.03	u/s Dana to d/s Walnut	Concrete	SANTIAGO CREEK CHANNEL	PD126
156	Riprap Channel	E	E08-12.01	d/s rip-rap to begin rip-rap	Concrete	SANTIAGO CREEK CHANNEL	PD126
156	Concrete-Lined	E	E08-12.02	u/s rip-rap to d/s transition	Riprap	SANTIAGO CREEK CHANNEL	PM054
156	Concrete-Lined	E	E08-12.04	u/s Walnut Storm Channel 75" RCP inlet	Concrete	SANTIAGO CREEK CHANNEL	PM054
156	Concrete-Lined	E	E08-12.05	grade break to d/s transition	Concrete	SANTIAGO CREEK CHANNEL	PM054
169	Concrete-Lined	E	E12-01	begin structure to d/s RCB	Concrete	SOUTHEAST ANAHEIM CHANNEL	PD132
169	Underground Conduit	E	E12-02	RCB @ bike trail	Concrete	SOUTHEAST ANAHEIM CHANNEL	PD132
169	Underground Conduit	E	E12-03.01	Bike Trail to d/s transition (@ Orangewood)	Concrete	SOUTHEAST ANAHEIM CHANNEL	PD132
169	Underground Conduit	E	E12-04.01	u/s transition (@ Katella) to d/s transition (@ H*	Concrete	SOUTHEAST ANAHEIM CHANNEL	PD132
169	Underground Conduit	E	E12-04.02	u/s transition (@ Howell) to	Concrete	SOUTHEAST ANAHEIM CHANNEL	PD132
169	Underground Conduit	E	E12-05	d/s S.P.R.R	Riprap	SOUTHEAST ANAHEIM CHANNEL	PD132
169	Underground Conduit	E	E12-06.01	d/s S.P.R.R. to d/s grade break	Concrete	SOUTHEAST ANAHEIM CHANNEL	PD132
169	Underground Conduit	E	E12-06.02	u/s grade break to d/s State College	Earth	SOUTHEAST ANAHEIM CHANNEL	PD132
168	Concrete-Lined	E	E11-01	u/s Santa Ana River confluence to d/s bike trail *	Earth	BITTERBUSH CHANNEL	PD129
168	Underground Conduit	E	E11-13	Sycamore Ave RCB Culvert	Concrete	BITTERBUSH CHANNEL	PD130
171	Earth Channel	F	F01-01	u/s Newport Bay to u/s University	Concrete	SANTA ANA-DELHI CHANNEL	PD133
171	Concrete-Lined	F	F01-02.01	begin channel lining to grade break	Concrete/Earth	SANTA ANA-DELHI CHANNEL	PD133
171	Concrete-Lined	F	F01-02.02	grade break to	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete Soft Base	F	F01-03.01	d/s transition	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete-Lined	F	F01-03.02	u/s transition to d/s Mesa	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Underground Conduit	F	F01-04	Mesa Drive RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Underground Conduit	F	F01-05.01	u/s Mesa Dr to end RCB	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete-Lined	F	F01-05.02	u/s transition to d/s Irvine	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Underground Conduit	F	F01-06	Irvine Ave RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete-Lined	F	F01-07	u/s Irvine Ave to	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete-Lined	F	F01-08.01	d/s RCB inlet	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete-Lined	F	F01-08.02	d/s RCB inlet to grade break	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete-Lined	F	F01-08.03	grade break to	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete-Lined	F	F01-09	d/s Santa Ana	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete-Lined	F	F01-10	Santa Ana Ave Bridge	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Underground Conduit	F	F01-12	RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete-Lined	F	F01-11	u/s Santa Ana to d/s transition	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Concrete-Lined	F	F01-13	u/s transition to d/s Bristol St	Concrete	SANTA ANA-DELHI CHANNEL	PM058
171	Underground Conduit	F	F01-14	Bristol Street RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PM058

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
171	Underground Conduit	F	F01-15.01	u/s Bristol to d/s Corona Del Mar Freeway	Concrete	SANTA ANA-DELHI CHANNEL	PM059
171	Underground Conduit	F	F01-15.02	Cornoa Del Mar Freeway RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PM059
171	Concrete-Lined	F	F01-16.01	u/s Corona Del Mar Freeway to d/s 36" RCP	Concrete	SANTA ANA-DELHI CHANNEL	PM059
171	Concrete-Lined	F	F01-16.02	u/s 36" RCP to d/s 24" RCP	Concrete	SANTA ANA-DELHI CHANNEL	PM059
171	Concrete-Lined	F	F01-16.03	u/s 24" RCP to d/s Baker	Concrete	SANTA ANA-DELHI CHANNEL	PM059
171	Underground Conduit	F	F01-17	Baker Street RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PM059
171	Concrete-Lined	F	F01-18	u/s Baker to d/s Paularino	Concrete	SANTA ANA-DELHI CHANNEL	PM059
171	Underground Conduit	F	F01-19	Paularino Street RCB Culvert	Earth	SANTA ANA-DELHI CHANNEL	PM059
171	Concrete-Lined	F	F01-20.01	u/s Paularino to d/s 60" RCP	Earth	SANTA ANA-DELHI CHANNEL	PM059
168	Earth Channel	E	E11-14.01	u/s Sycamore to d/s transition	Concrete	BITTERBUSH CHANNEL	PD130
168	Earth Channel	E	E11-14.02	u/s transition to d/s Orangewood	Earth	BITTERBUSH CHANNEL	PD130
168	Underground Conduit	E	E11-15	Orangewood Ave RCB Culvert	Earth	BITTERBUSH CHANNEL	PD130
168	Earth Channel	E	E11-16.01	u/s Orangewood to d/s transition	Earth	BITTERBUSH CHANNEL	PD130
168	Earth Channel	E	E11-16.02	u/s transition to d/s transition	Earth	BITTERBUSH CHANNEL	PD130
168	Earth Channel	E	E11-16.03	u/s transition to d/s transition	Earth	BITTERBUSH CHANNEL	PD130
168	Earth Channel	E	E11-16.04	u/s transition to d/s transition	Concrete	BITTERBUSH CHANNEL	PD130
168	Earth Channel	E	E11-16.05	u/s transition to d/s A.T.&S.F. R.R.	Concrete	BITTERBUSH CHANNEL	PD130
168	Earth Channel	E	E11-17	A.T. & S.F. R.R. Crossing	Concrete	BITTERBUSH CHANNEL	PD131
171	Underground Conduit	F	F01-25	Sunflower Ave RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PM060
171	Concrete-Lined	F	F01-35	d/s S.P.R.R.	Concrete	SANTA ANA-DELHI CHANNEL	PD135
171	Underground Conduit	F	F01-36	S.P.R.R. RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PD136
171	Concrete-Lined	F	F01-37.01	u/s S.P.R.R. to 60" RCP	Concrete	SANTA ANA-DELHI CHANNEL	PD137
171	Concrete-Lined	F	F01-37.02	60" RCP to grade break	Concrete	SANTA ANA-DELHI CHANNEL	PD137
171	Concrete-Lined	F	F01-37.03	grade break to d/s Dyer Road	Concrete	SANTA ANA-DELHI CHANNEL	PD137
171	Underground Conduit	F	F01-38	Dyer Road RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PD137
171	Concrete-Lined	F	F01-40.02	u/s transition to d/s Warner	Concrete	SANTA ANA-DELHI CHANNEL	PD137
174	Underground Conduit	F	F02-01	u/s Santa Ana-Delhi Channel confluence to d/s tra*	Concrete	SANTA ANA GARDENS CHANNEL	PD138
174	Underground Conduit	F	F02-03.01	begin RCB to d/s MacArthur	Concrete	SANTA ANA GARDENS CHANNEL	PD138
174	Underground Conduit	F	F02-03.02	at MacArthur	Concrete	SANTA ANA GARDENS CHANNEL	PD138
174	Underground Conduit	F	F02-04	u/s MacArthur to end RCB	Concrete	SANTA ANA GARDENS CHANNEL	PD138
174	Concrete-Lined	F	F02-14.03	curve	Concrete	SANTA ANA GARDENS CHANNEL	PD141
101	Underground Conduit	C	C02S01-44	RR	Concrete	STANTON STORM CHANNEL	-9999
101	Underground Conduit	C	C02S01-52	Southern Pacific RR	Concrete	STANTON STORM CHANNEL	-9999
104	Underground Conduit	C	C03P01-01	C03 confluence to Garden Grove Blvd	Concrete	KNOTT AVENUE STORM DRAIN	-9999
389	Underground Conduit	C	C03P02-07	Upstream Hopi Rd. transition to Orangewood Ave.	Concrete	DALE STREET STORM DRAIN	-9999
577	Underground Conduit	G	G00P07-01	County Road to Bayside (Manhole)	Concrete	BAYSIDE STORM DRAIN	-9999
75	Riprap Channel	A	A03S01-18	to Next Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-13	Upstream Martha Ann Dr. Culvert Transition	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-09	E.C. upstream to downstream bridge transition	Concrete	KEMPTON STORM CHANNEL	-9999
141	Concrete-Lined	E	E01S04-10	Downstream of Addington Drive	Concrete	DEERFIELD CHANNEL	-9999
163	Concrete-Lined	E	E08S02-01	D/S end junction with E01 to Vertical Curve	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Concrete-Lined	E	E08S02-08	Upstream of Hewes St. at grade change	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-05	D/S Del Monte trans. to Burning Tree u/s trans.	Concrete	FEDERAL STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-14	Sh.4, to transition	Concrete	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-20	EC to transition (Sh. 5)	Concrete	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-24	Transition to BC D/S end from Los Alamitos Blvd.	Concrete	BIXBY STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-02	BC to EC	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-09	Upstream Holder St to downstream Knott Ave	Concrete	STANTON STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-25	Transition to upstream end	Concrete	ROSSMOOR STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
95	Concrete-Lined	C	C01S02-34	Upstream Rochelle St.	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-38	Upstream Maple St.	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-46	Upstream United States Dr.	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-50	Downstream Lexington Dr.	Concrete	ROSSMOOR STORM CHANNEL	-9999
98	Concrete-Lined	C	C01S05-04	Reach between Fwy Ramp & Fwy I-605	Concrete	KATELLA STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-15	Upstream wall transition to BC	Riprap	STANTON STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-23	Trapezoidal Channel upstream Martha Ann Drive	Concrete	MONTECITO STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-34	EC to Montecito Road (D/S Transition)	Earth	KEMPTON STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-05.02	Grade Break to Grade Break	Concrete	COMO STORM CHANNEL	-9999
188	Concrete-Lined	F	F07S01-21	u/s Redhill Ave	Earth/Gunite	LA COLINA-REDHILL ST. CHANNEL	-9999
191	Earth Channel	F	F08S01-05	to Transition Structure	Concrete	ARMSTRONG STORM CHANNEL	-9999
172	Concrete-Lined	F	F01S01-14.01	Upstream Red Hill Ave. to the end	Concrete	AIRPORT STORM CHANNEL	-9999
95	Earth Channel	C	C01S02-55	End of open channel	Concrete	ROSSMOOR STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-10		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-16		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-18		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-18		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-18		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-21		Concrete	NEWLAND STORM CHANNEL	-9999
140	Underground Conduit	E	E01S01-16	RC Box at RR, upstream Orangethorpe Ave.	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
225	Underground Conduit	G	G02P02-01	G02 to Rutland	Concrete	WESTCLIFF STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-14	to End Construction on Livingston Ave.	Concrete	TUFFREE STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-06	Junction Structure to Existing Manhole	Concrete	FAIRVIEW ROAD STORM DRAIN	-9999
107	Underground Conduit	C	C03P17-02	Upstream to Western Avenue	Concrete	GARDEN GROVE STORM DRAIN	-9999
390	Underground Conduit	C	C03P05-02	To grade break downstream Beach Blvd.	Concrete	LAMPSON STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-15	Florence Ave., D/S reach from Transition	Concrete	CERRITOS STORM DRAIN	-9999
384	Underground Conduit	C	C02P03-06	EC to upstream end Sheet 2 of 11	Concrete	JONATHAN STORM CHANNEL	-9999
436	Underground Conduit	E	E08P12-06	To Almond d/s of Squash Box	Concrete	CAMBRIDGE STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-14	to U/S Vale Ave (Grade Break)	Concrete	HEWES STORM DRAIN	-9999
198	Underground Conduit	F	F12P03-06	d/s Santa Clara Avenue (junction)	Concrete	MALENA STORM DRAIN	-9999
198	Underground Conduit	F	F12P03-04	to manhole	Concrete	MALENA STORM DRAIN	-9999
520	Underground Conduit	F	F12P02-05	Wellington Ave	Concrete	NORTH TUSTIN STORM DRAIN	-9999
525	Underground Conduit	F	F13P03-07	to Manhole	Concrete	S.E. SKYLINE STORM DRAIN	-9999
522	Underground Conduit	F	F12P11-06	to Darmel Pl.	Concrete	PROSPECT STORM DRAIN	-9999
526	Underground Conduit	F	F13P05-02	Bubbling Well Rd to d/s Browning Ave	Concrete	RAINBOW STORM DRAIN	-9999
201	Concrete-Lined	F	F14S01-01	F14 Confluence	Concrete	CULVER STORM CHANNEL	-9999
163	Concrete-Lined	E	E08S02-16		Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Underground Conduit	E	E08S02-17	Jamestown Way Culvert	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
572	Concrete-Lined	F	F26P01-03	to Grade Break	Concrete	EASTFOOT STORM DRAIN	-9999
164	Underground Conduit	E	E08S06-02	To downstream Santiago Canyon Rd.	Concrete	HANDY CREEK STORM CHANNEL	-9999
223	Underground Conduit	G	G00P01-16	to d/s Irvine Ave	Earth	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
92	Underground Conduit	C	C00P02-00	Pump Station outlet	Concrete	SEAL BEACH STORM DRAIN	-9999
151	Underground Conduit	E	E06S01-24	upstream Via de la Roca	Concrete	BLUE MUD CANYON CHANNEL	-9999
71	Earth Channel	A	A01P13-02	d/s Railroaf right-of-way	Concrete	EAST LA HABRA STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-24	to Grade Break	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
76	Concrete-Lined	A	A03S02-26	to Next Grade Break	Concrete	HOUSTON STORM CHANNEL	-9999
89	Concrete-Lined	B	B01S03-36	d/s Yorba Linda Blvd	Earth	PLACENTIA CHANNEL	-9999
79	Underground Conduit	A	A04S01-10	to Next Transition	Earth	MEMORY GARDEN STORM CHANNEL	-9999
173	Concrete-Lined	F	F01S03-08	Begin Trap to Baker Street	Concrete	BAKER STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
164	Earth Channel	E	E08S06-12	Private ownership drainage. OCFCD Esmt	Concrete	HANDY CREEK STORM CHANNEL	-9999
164	Natural Watercourse	E	E08S06-06	Private ownership drainage. OCFCD Esmt	Concrete	HANDY CREEK STORM CHANNEL	-9999
577	Underground Conduit	G	G00P07-04	to d/s Fernleaf Ave	Concrete	BAYSIDE STORM DRAIN	-9999
578	Underground Conduit	G	G02P01-04	Walnut Pl/ Linda Ln to d/s 20th St/ Highland Dr	Riprap	IRVINE-BAYCREST STORM DRAIN	-9999
134	Underground Conduit	D	D03S03-06	Upstream D03 to downstream Fairview St	Concrete	GISLER STORM CHANNEL	-9999
118	Underground Conduit	C	C05P19-18	BC at Chapman	Concrete	OERTLEY STORM DRAIN	-9999
423	Underground Conduit	E	E01P81-01		Concrete	MANCHESTER COMPLEX STORM DRAIN	-9999
254	Underground Conduit	L	L03-03.03	u/s transition to end RCB	Concrete	OSO CREEK CHANNEL	PM108
254	Concrete-Lined	L	L03-04.01	begin RC Channel to grade break	Concrete	OSO CREEK CHANNEL	PM108
254	Concrete-Lined	L	L03-04.02	grade break to grade break	Concrete	OSO CREEK CHANNEL	PM108
254	Concrete-Lined	L	L03-05	Crean Ranch Bridge	Concrete	OSO CREEK CHANNEL	PM108
254	Concrete-Lined	L	L03-04.04	grade break to d/s Crean Ranch Bridge	Concrete	OSO CREEK CHANNEL	PM108
254	Concrete-Lined	L	L03-06.04	grade break to grade break (@ San Joaquin Hills T*	Concrete	OSO CREEK CHANNEL	PD240
254	Concrete-Lined	L	L03-10	u/s transition to d/s transition	Riprap	OSO CREEK CHANNEL	PD240
254	Concrete-Lined	L	L03-06.05	grade break to d/s transition	Concrete	OSO CREEK CHANNEL	PD240
254	Concrete-Lined	L	L03-08	Paseo de la Colinas Bridge	Concrete	OSO CREEK CHANNEL	PD240
254	Concrete-Lined	L	L03-09	u/s Paseo de la Colinas to d/s transition	Concrete	OSO CREEK CHANNEL	PD240
254	Riprap Channel	L	L03-12	end construction	Concrete	OSO CREEK CHANNEL	PD240
258	Underground Conduit	L	L04-05.05	grade break to grade break	Concrete	LA PAZ CHANNEL	PD248
258	Underground Conduit	L	L04-05.06	grade break to 36" inlet	Concrete	LA PAZ CHANNEL	PD248
258	Underground Conduit	L	L04-05.07	36" inlet to 48" inlet	Concrete	LA PAZ CHANNEL	PD248
258	Underground Conduit	L	L04-05.08	48" inlet to 66" inlet	Concrete/Earth	LA PAZ CHANNEL	PD248
258	Underground Conduit	L	L04-05.09	66" inlet to grade break	Riprap	LA PAZ CHANNEL	PD248
258	Underground Conduit	L	L04-05.10	grade break to grade break	Concrete	LA PAZ CHANNEL	PD248
234	Concrete-Lined	J	J01-30	u/s transition to d/s Jeronimo (El Toro Retarding*	Earth	ALISO CREEK CHANNEL	PM095
250	Concrete Soft Base	L	L02-04.01	u/s east bank curve to end const	Concrete	TRABUCO CREEK CHANNEL	PD236
250	Riprap Channel	L	L02-06.01	u/s transition to d/s transition	Concrete	TRABUCO CREEK CHANNEL	PD238
174	Concrete-Lined	F	F02-14.05	curve	Concrete	SANTA ANA GARDENS CHANNEL	PD141
174	Underground Conduit	F	F02-15	Occidental Street RCB Culvert	Concrete	SANTA ANA GARDENS CHANNEL	PD141
174	Concrete-Lined	F	F02-26	u/s Willits to d/s Myrtle	Concrete	SANTA ANA GARDENS CHANNEL	PD142
174	Underground Conduit	F	F02-27	Myrtle Street Crossing	Concrete	SANTA ANA GARDENS CHANNEL	PD142
175	Concrete-Lined	F	F03-01	u/s Santa Ana-Delhi Channel confluence to d/s Cor*	Riprap	PAULARINO CHANNEL	PD143
175	Underground Conduit	F	F03-02.01	Corona Del Mar Freeway RCB Culvert	Earth	PAULARINO CHANNEL	PD143
175	Underground Conduit	F	F03-02.02	Bristol Street RCB Culvert	Earth	PAULARINO CHANNEL	PD143
175	Riprap Channel	F	F03-03	u/s Bristol to d/s St. Clair	Earth	PAULARINO CHANNEL	PD143
175	Underground Conduit	F	F03-04	St. Clair Street RCB Culvert	Earth	PAULARINO CHANNEL	PD143
176	Earth Channel	F	F05-06.01	u/s MacArthur to d/s Weir	Earth	SAN DIEGO CREEK CHANNEL	PM061
176	Earth Channel	F	F05-06.02	u/s Weir to d/s transition	Earth	SAN DIEGO CREEK CHANNEL	PM061
176	Earth Channel	F	F05-06.03	u/s transition to d/s transition	Earth	SAN DIEGO CREEK CHANNEL	PM061
176	Earth Channel	F	F05-07	Campus Drive Bridge	Earth	SAN DIEGO CREEK CHANNEL	PM062
176	Earth Channel	F	F05-08	u/s Weir to d/s transition	Earth	SAN DIEGO CREEK CHANNEL	PM062
176	Earth Channel	F	F05-09.01	u/s transition to d/s transition	Riprap	SAN DIEGO CREEK CHANNEL	PM062
176	Earth Channel	F	F05-09.02	u/s transition to d/s Michelson	Riprap	SAN DIEGO CREEK CHANNEL	PM062
176	Earth Channel	F	F05-10	Michelson Drive Bridge	Riprap	SAN DIEGO CREEK CHANNEL	PM062
176	Earth Channel	F	F05-11	u/s Michelson to d/s San Diego Freeway	Concrete	SAN DIEGO CREEK CHANNEL	PM062
176	Riprap Channel	F	F05-21.02	u/s transition to d/s Peters Canyon Channel confl*	Riprap	SAN DIEGO CREEK CHANNEL	PD147
176	Riprap Channel	F	F05-21.03	u/s Peters Canyon Channel confluence to d/s trans*	Concrete	SAN DIEGO CREEK CHANNEL	PM063
176	Concrete-Lined	F	F05-22	Harvard Ave Bridge	Riprap	SAN DIEGO CREEK CHANNEL	PM063
176	Riprap Channel	F	F05-23	u/s Harvard to d/s Paseo Westpark	Concrete	SAN DIEGO CREEK CHANNEL	PM063

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
176	Concrete-Lined	F	F05-24	Paseo Westpark Bridge	Earth	SAN DIEGO CREEK CHANNEL	PM063
176	Riprap Channel	F	F05-25.01	u/s Paseo Westpark to d/s transition	Earth	SAN DIEGO CREEK CHANNEL	PM063
176	Concrete-Lined	F	F05-25.02	u/s transition to d/s Culver	Concrete	SAN DIEGO CREEK CHANNEL	PM063
176	Concrete-Lined	F	F05-26	Culver Drive Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PM063
176	Earth Channel	F	F05-28	West Yale Loop Bridge	Soil Cement	SAN DIEGO CREEK CHANNEL	PD148
176	Earth Channel	F	F05-29	u/s West Yale to d/s drop structure	Soil Cement	SAN DIEGO CREEK CHANNEL	PD148
176	Concrete Soft Base	F	F05-38	Valley Oak Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-39.01	u/s Valley Oak to d/s transition	Soil Cement	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-39.02	u/s transition to end construction	Soil Cement	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-40	Sand Canyon Ave Bridge	Soil Cement	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-41.01	u/s Sand Canyon to d/s Marshburn Chnl Confluence	Soil Cement	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-41.02	u/s Marshburn Chnl confluence to d/s Laguna Canyon	Soil Cement	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-42	Laguna Canyon Road Bridge	Soil Cement	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-43	Alton Parkway Bridge	Soil Cement	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-44	grade control structure to d/s Laguna Freeway	Concrete	SAN DIEGO CREEK CHANNEL	PM065
176	Concrete Soft Base	F	F05-51.06		Concrete	SAN DIEGO CREEK CHANNEL	PM067
176	Concrete Soft Base	F	F05-51.05		Riprap	SAN DIEGO CREEK CHANNEL	PM067
176	Concrete Soft Base	F	F05-51.08	d/s Irvine Center Drive	Riprap	SAN DIEGO CREEK CHANNEL	PM067
176	Concrete-Lined	F	F05-52.01	u/s Irvine Center Drive to d/s transition	Riprap	SAN DIEGO CREEK CHANNEL	PM067
176	Underground Conduit	F	F05-52.02	u/s transition to 84" RCP	Riprap	SAN DIEGO CREEK CHANNEL	PM067
179	Concrete Soft Base	F	F06-04	Warner Ave Bridge	PPCB	PETERS CANYON CHANNEL	PM068
179	Riprap Channel	F	F06-05	Transition to d/s Moffet	PPCB	PETERS CANYON CHANNEL	PD151
179	Riprap Channel	F	F06-06	Moffet Drive Bridge	PPCB	PETERS CANYON CHANNEL	PD151
179	Riprap Channel	F	F06-07	u/s Moffet to d/s Edinger	Concrete	PETERS CANYON CHANNEL	PD152
179	Riprap Channel	F	F06-08	Edinger Ave Bridge	Concrete	PETERS CANYON CHANNEL	PD152
179	Concrete Soft Base	F	F06-16.06		Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-16.07		Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete-Lined	F	F06-16.08	drop structure d/s of Santa Ana Freeway transition	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete-Lined	F	F06-17	Santa Ana Freeway Bridge	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-18.01	u/s Santa Ana Freeway to d/s transition	Riprap	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-18.02	u/s transition to d/s El Camino Real	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-19	El Camino Real Bridge	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-20	u/s El Camino Real to	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-21.01	d/s transition	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-21.02	u/s transition to d/s Bryan	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-22	Bryan Ave Bridge	Concrete	PETERS CANYON CHANNEL	PM069
179	Underground Conduit	F	F06-26	begin RCB to	Concrete	PETERS CANYON CHANNEL	PM069
179	Underground Conduit	F	F06-27.01	d/s transition	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-27.03	u/s transition to d/s transition (@ Jamboree)	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.01	golf course inlet to line D-1	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.02	line D-1 to d/s line D-2	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.03	u/s line D-2 to d/s junction structure (Tustin Ra*	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.04	u/s junction structure to line D-3 (Tustin Ranch *	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.05	line D-3 to d/s line D-4 (Tustin Ranch Road)	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.06	u/s line D-4 to line D-5 (Tustin Ranch Road)	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.07	line D-5 to d/s lines D-6 & D-7 (Tustin Ranch Roa*	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.19	u/s junction structure to D-18	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.20	line D-18 to d/s junction structure	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.21	u/s junction structure to line D-25	Concrete	PETERS CANYON CHANNEL	PM070

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
179	Underground Conduit	F	F06-29.22	line D-25 to line D-21	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.23	line D-21 to d/s line D-23	Earth	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.24	line D-23 to line D-24	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.25	line D-24 to line D-26	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.26	line D-26 to d/s junction structure	Earth	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.27	u/s junction structure to d/s junction structure	Concrete	PETERS CANYON CHANNEL	PM070
189	Earth Channel	F	F08-01	u/s San Diego Creek confluence to d/s NB San Dieg*	Concrete	LANE CHANNEL	PD162
189	Concrete-Lined	F	F08-11.01	u/s driveway to d/s transition	Concrete	LANE CHANNEL	PD163
189	Concrete-Lined	F	F08-11.02	trap channel section	Riprap	LANE CHANNEL	PD163
192	Underground Conduit	F	F09-01	u/s San Diego Crk Confl. to u/s Main RCB Culvert	Concrete	BARRANCA CHANNEL	PD167
192	Riprap Channel	F	F09-02	u/s Main to d/s Jamboree	Concrete	BARRANCA CHANNEL	PD167
192	Underground Conduit	F	F09-03	Jamboree Road RCB Culvert (u/s F09P01)	Concrete	BARRANCA CHANNEL	PD167
192	Earth Channel	F	F09-04	u/s Jamboree to d/s A.T.&S.F. R.R.	Concrete	BARRANCA CHANNEL	PD167
194	Underground Conduit	F	F10-01.01	Jamboree Road RCB Culvert	Concrete	SANTA ANA-SANTA FE CHANNEL	PD170
194	Underground Conduit	F	F10-01.02	Jamboree Road RCB Culvert	Concrete	SANTA ANA-SANTA FE CHANNEL	PD170
194	Underground Conduit	F	F10-01.03	Jamboree Road RCB Culvert	Concrete	SANTA ANA-SANTA FE CHANNEL	PD170
194	Riprap Channel	F	F10-02	u/s Jamboree to d/s Edinger	Concrete	SANTA ANA-SANTA FE CHANNEL	PD170
194	Underground Conduit	F	F10-03	Edinger Ave RCB Culvert	Concrete	SANTA ANA-SANTA FE CHANNEL	PD170
194	Concrete-Lined	F	F10-04	u/s Edinger to d/s A.T.& S.F. R.R.	Concrete	SANTA ANA-SANTA FE CHANNEL	PD170
194	Concrete-Lined	F	F10-05	A.T.&S.F. R.R. Bridge	Concrete	SANTA ANA-SANTA FE CHANNEL	PD171
194	Concrete-Lined	F	F10-06	u/s A.T.S.F. R.R. to d/s transition	Concrete	SANTA ANA-SANTA FE CHANNEL	PD171
194	Riprap Channel	F	F10-07	u/s transition to d/s Venta Spur R.R.	Concrete	SANTA ANA-SANTA FE CHANNEL	PD172
194	Underground Conduit	F	F10-08	Venta Spur R.R. RCB Culvert (d/s F10S01)	Concrete	SANTA ANA-SANTA FE CHANNEL	PD172
194	Riprap Channel	F	F10-09	u/s Venta Spur R.R.(u/s F10S01) to d/s Red Hill	Concrete	SANTA ANA-SANTA FE CHANNEL	PD173
194	Underground Conduit	F	F10-10	Red Hill Ave RCB Culvert	Concrete	SANTA ANA-SANTA FE CHANNEL	PD173
194	Riprap Channel	F	F10-11	u/s Red Hill to d/s Newport (d/s F10P02)	Concrete	SANTA ANA-SANTA FE CHANNEL	PD174
194	Concrete-Lined	F	F10-12	u/s Newport (u/s F10P02) to d/s Costa Mesa Freeway	Concrete	SANTA ANA-SANTA FE CHANNEL	PD174
183	Concrete-Lined	F	F07-07	Santa Ana Freeway Bridge (to d/s confluence struc*	Riprap	EL MODENA-IRVINE CHANNEL	PD157
183	Concrete-Lined	F	F07-08	u/s confluence structure to d/s El Camino Real	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-09	El Camino Real Bridge	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-10.01	u/s el Camino Real to grade break	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-10.03	u/s transition to 72" RCP	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-10.02	grade break to d/s transition	Riprap	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-10.04	72" RCP to d/s Bryan	Riprap	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-11	Bryan Ave Bridge	Riprap	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-12	u/s Bryan to	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-13.01	d/s transition	Riprap	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-21.02	u/s transition to d/s Redhill	Riprap	EL MODENA-IRVINE CHANNEL	PM072
183	Underground Conduit	F	F07-22	Red Hill Ave RCB Culvert	Riprap	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-23.01	u/s Red Hill to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-23.02	u/s transition to d/s transition	Riprap	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-23.03	u/s transition to d/s transition	Riprap	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-23.04	u/s transition to d/s Newport	Riprap	EL MODENA-IRVINE CHANNEL	PD159
183	Underground Conduit	F	F07-24	Newport Ave RCB Culvert	Riprap	EL MODENA-IRVINE CHANNEL	PD159
183	Underground Conduit	F	F07-25	u/s Newport to d/s Irvine	Riprap	EL MODENA-IRVINE CHANNEL	PD159
183	Underground Conduit	F	F07-26	Irvine Blvd RCB Culvert	Riprap	EL MODENA-IRVINE CHANNEL	PD159
183	Underground Conduit	F	F07-27	u/s Irvine to d/s Plaza	Riprap	EL MODENA-IRVINE CHANNEL	PD159
183	Underground Conduit	F	F07-28	Plaza Drive RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Underground Conduit	F	F07-29	u/s Plaza to d/s North Tustin Channel confluence	Concrete	EL MODENA-IRVINE CHANNEL	PD159

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
183	Riprap Channel	F	F07-30.01	u/s North Tustin Channel confluence to d/s transi*	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-30.02	u/s transition to d/s Warren	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Underground Conduit	F	F07-31	Warren Ave RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-32.01	u/s Warren to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-32.02	u/s transition to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-32.03	u/s transition to d/s Vanderlip	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Underground Conduit	F	F07-33	Vanderlip Ave RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-34.01	u/s Vanderlip to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-34.02	u/s transition to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-34.03	u/s transition to d/s 17th Street	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Underground Conduit	F	F07-35	17th Street RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD159
183	Riprap Channel	F	F07-36.01	u/s 17th Street to d/s drop structure	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Riprap Channel	F	F07-36.02	u/s drop structure to d/s drop structure	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Riprap Channel	F	F07-36.03	u/s drop structure to d/s drop structure	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Riprap Channel	F	F07-36.04	u/s drop structure to d/s drop structure	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Riprap Channel	F	F07-36.05	u/s drop structure to d/s drop structure	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Riprap Channel	F	F07-36.06	u/s drop structure to d/s Santa Clara	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Underground Conduit	F	F07-37	Santa Clara RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Underground Conduit	F	F07-40	Esplanade Ave/S.P.R.R. RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Concrete-Lined	F	F07-47.04	u/s trans to d/s trans (El Modena-Irvine Basin)	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Underground Conduit	F	F07-48.01	d/s Hewes to F07P12 (@ Hewes Street)	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Underground Conduit	F	F07-48.02	F07P12 to u/s Hewes (@ Hewes Street)	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Concrete-Lined	F	F07-49	u/s Hewes to d/s Via El Modena	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Underground Conduit	F	F07-50	Via El Modena RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Concrete-Lined	F	F07-51.01	u/s Via El Modena to	Riprap	EL MODENA-IRVINE CHANNEL	PD161
183	Concrete-Lined	F	F07-51.02	grade break	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Concrete-Lined	F	F07-51.03	grade break to grade break	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Concrete-Lined	F	F07-51.04	grade break to d/s Washington	Concrete	EL MODENA-IRVINE CHANNEL	PD161
196	Underground Conduit	F	F11-05	Santa Ana Freeway Undercrossing	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Concrete-Lined	F	F11-06	u/s Santa Ana Freeway to d/s transition	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Concrete-Lined	F	F11-07.01	u/s transition to grade break	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Concrete-Lined	F	F11-07.02	grade break to begin RCB	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Underground Conduit	F	F11-08	begin RCB to d/s First Street	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Underground Conduit	F	F11-10	u/s First Street to d/s Fourth Street/Irvine Blvd	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
196	Underground Conduit	F	F11-11	Fourth Street/Irvine Blvd RCB Culvert	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
196	Underground Conduit	F	F11-12	u/s Fourth Street/Irvine Blvd to d/s Fruit	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
196	Underground Conduit	F	F11-14.01	u/s Fruit to	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
196	Underground Conduit	F	F11-14.02	24" RCP	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
197	Concrete-Lined	F	F12-01	u/s El Modena-Irvine Channel confluence to d/s Ho*	Concrete	NORTH TUSTIN CHANNEL	PD179
197	Underground Conduit	F	F12-02	Holt Ave RCB Culvert	Concrete	NORTH TUSTIN CHANNEL	PD179
197	Concrete-Lined	F	F12-03	u/s Holt to d/s Livingston	Concrete	NORTH TUSTIN CHANNEL	PD179
197	Underground Conduit	F	F12-04	Livingston Street RCB Culvert	Concrete	NORTH TUSTIN CHANNEL	PD179
197	Riprap Channel	F	F12-05	u/s Livingston to d/s Shasta	Concrete	NORTH TUSTIN CHANNEL	PD179
197	Underground Conduit	F	F12-06	Shasta Way RCB Culvert	Concrete	NORTH TUSTIN CHANNEL	PD179
197	Riprap Channel	F	F12-07	u/s Shasta to d/s Prospect	Concrete	NORTH TUSTIN CHANNEL	PD179
197	Underground Conduit	F	F12-08	Prospect Ave RCB Culvert	Concrete	NORTH TUSTIN CHANNEL	PD179
197	Concrete-Lined	F	F12-09.01	u/s Prospect to grade break	Concrete	NORTH TUSTIN CHANNEL	PD180
197	Concrete-Lined	F	F12-09.02	grade break to	Concrete	NORTH TUSTIN CHANNEL	PD180
197	Concrete-Lined	F	F12-10.01	grade break	Concrete	NORTH TUSTIN CHANNEL	PD180

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
197	Concrete-Lined	F	F12-10.02	grade break to d/s Vandenburg	Concrete	NORTH TUSTIN CHANNEL	PD180
197	Underground Conduit	F	F12-11	Vandenburg Lane RCB Culvert	Concrete	NORTH TUSTIN CHANNEL	PD181
197	Concrete-Lined	F	F12-12	u/s Vandenburg to d/s transition	Concrete	NORTH TUSTIN CHANNEL	PD181
197	Underground Conduit	F	F12-13	begin RCB to u/s Seventeenth Street RCB Culvert	Earth	NORTH TUSTIN CHANNEL	PD181
199	Underground Conduit	F	F13-02	Riverford Road RCB Culvert	Earth	REDHILL CHANNEL	PD182
199	Concrete-Lined	F	F13-03	u/s Riverford to d/s Bent Twig	Concrete	REDHILL CHANNEL	PD182
199	Underground Conduit	F	F13-04	Bent Twig Lane RCB Culvert	Concrete	REDHILL CHANNEL	PD182
199	Concrete-Lined	F	F13-05	u/s Bent Twig to d/s Irvine	Earth	REDHILL CHANNEL	PD182
199	Underground Conduit	F	F13-06	Irvine Blvd RCB Culvert	Concrete	REDHILL CHANNEL	PD182
199	Concrete-Lined	F	F13-07.01	u/s Irvine to grade break	Concrete	REDHILL CHANNEL	PD182
199	Concrete-Lined	F	F13-07.02	grade break to d/s Rainbow	Concrete	REDHILL CHANNEL	PD182
199	Concrete-Lined	F	F13-08	Rainbow Drive Bridge	Concrete	REDHILL CHANNEL	PD182
199	Underground Conduit	F	F13-14.01	Red Hill Ave RCB Culvert	Concrete	REDHILL CHANNEL	PD183
199	Underground Conduit	F	F13-14.02	Red Hill Ave RCB Culvert (to d/s transition)	Concrete	REDHILL CHANNEL	PD183
199	Underground Conduit	F	F13-14.03	Red Hill Ave RCB Culvert (u/s transition to d/s g*	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-15.01	u/s grade break to d/s grade break	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-15.02	u/s grade break to begin RCB	Concrete	REDHILL CHANNEL	PD183
199	Underground Conduit	F	F13-16	RCB Culvert	Concrete	REDHILL CHANNEL	PD184
199	Concrete-Lined	F	F13-17.01	begin RC Channel to d/s grade break	Concrete	REDHILL CHANNEL	PD184
199	Concrete-Lined	F	F13-17.02	u/s grade break to grade break	Concrete	REDHILL CHANNEL	PD184
199	Concrete-Lined	F	F13-17.03	grade break to d/s Pedestrian Bridge	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-18	Pedestrian Bridge	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-22.06	grade break to grade break	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-22.07	grade break to grade break	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-22.08	grade break to u/s Dodge	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-24	Foothill Blvd RCB Culvert	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-25.01	u/s Foothill to 27" RCP	Concrete	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-25.02	u/s 27" RCP to grade break	Concrete	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-25.03	grade break to 18" RCP	Concrete	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-25.04	18" RCP to end RCB	Concrete	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-26.01	begin RCP to grade break	Concrete	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-26.02	grade break to	Concrete	REDHILL CHANNEL	PD185
200	Concrete-Lined	F	F14-02	u/s Harvard to d/s transition	Concrete	SAN JOAQUIN CHANNEL	PD186
200	Earth Channel	F	F14-03	u/s transition to d/s Michelson	Concrete	SAN JOAQUIN CHANNEL	PD186
200	Earth Channel	F	F14-05	Michelson Drive Bridge	Concrete	SAN JOAQUIN CHANNEL	PD186
200	Earth Channel	F	F14-06	u/s Michelson to d/s San Diego Freeway	Concrete	SAN JOAQUIN CHANNEL	PD186
200	Underground Conduit	F	F14-07	San Diego Freeway RCB Culvert	Concrete	SAN JOAQUIN CHANNEL	PD187
200	Earth Channel	F	F14-08	u/s San Diego Freeway to d/s Old Main	Concrete	SAN JOAQUIN CHANNEL	PD188
200	Underground Conduit	F	F14-09	Old Main Street RCB Culvert	Concrete	SAN JOAQUIN CHANNEL	PD188
200	Underground Conduit	F	F14-10	u/s Old Main to d/s transition	Concrete	SAN JOAQUIN CHANNEL	PD188
200	Underground Conduit	F	F14-11.01	u/s transition to junction structure	Concrete	SAN JOAQUIN CHANNEL	PD188
200	Underground Conduit	F	F14-11.02	juction structure to junction structure	Concrete	SAN JOAQUIN CHANNEL	PD188
200	Underground Conduit	F	F14-15.09	junction structure to junction structure	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.10	junction structure to junction structure	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.11	junction structure to junction structure	Concrete	SAN JOAQUIN CHANNEL	PD189
179	Riprap Channel	F	F06-03.02	Transition to Ramp	Concrete	PETERS CANYON CHANNEL	PM068
199	Underground Conduit	F	F13-20.05	u/s confluence to d/s Arroyo	Concrete	REDHILL CHANNEL	PD184
200	Underground Conduit	F	F14-15.12	junction to junction (at Blue Lake South)	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.13	junction to junction (at Blue Lake South)	Concrete	SAN JOAQUIN CHANNEL	PD189

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
200	Underground Conduit	F	F14-15.14	junction structure to junction structure	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.15	junction structure to junction structure	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.11	u/s manhole to d/s transition	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Concrete-Lined	F	F14-17	begin channel to d/s Basin	Concrete	SAN JOAQUIN CHANNEL	PD190
200	Concrete-Lined	F	F14-18	Basin No. 1/No. 2	Concrete	SAN JOAQUIN CHANNEL	PD190
200	Concrete-Lined	F	F14-19	u/s Basin to d/s San Diego Freeway	Concrete	SAN JOAQUIN CHANNEL	PD190
200	Underground Conduit	F	F14-20	San Diego Freeway RCB Culvert	Concrete	SAN JOAQUIN CHANNEL	PD190
200	Concrete-Lined	F	F14-21	u/s San Diego Freeway to d/s University	Concrete	SAN JOAQUIN CHANNEL	PD190
200	Underground Conduit	F	F14-22	University Drive RCB Culvert	Concrete	SAN JOAQUIN CHANNEL	PD190
200	Concrete-Lined	F	F14-23.01	u/s University to d/s transition	Concrete	SAN JOAQUIN CHANNEL	PD190
200	Concrete-Lined	F	F14-23.02	u/s transition to d/s transition	Concrete	SAN JOAQUIN CHANNEL	PD190
200	Concrete-Lined	F	F14-23.03	u/s transition to grade break	Concrete	SAN JOAQUIN CHANNEL	PD190
200	Concrete-Lined	F	F14-23.04	grade break to d/s transition	Concrete	SAN JOAQUIN CHANNEL	PD190
200	Concrete-Lined	F	F14-23.05	u/s transition to grade break	Concrete	SAN JOAQUIN CHANNEL	PD190
342	Underground Conduit	F	F16-02.01	u/s Barranca to hydraulic drop (going u/s)	Riprap	MARSHBURN CHANNEL	PM075
342	Underground Conduit	F	F16-02.02	hydraulic drop (going u/s) to grade break	Riprap	MARSHBURN CHANNEL	PM075
342	Concrete-Lined	F	F16-03	u/s transition to d/s Irvine Center Drive	Concrete	MARSHBURN CHANNEL	PM075
342	Concrete-Lined	F	F16-05.01	u/s Irvine Center Drive to grade break	Concrete	MARSHBURN CHANNEL	PM075
342	Concrete-Lined	F	F16-14.03	low flow crossing to low flow crossing	Concrete	MARSHBURN CHANNEL	PD193
342	Concrete-Lined	F	F16-14.04	low flow crossing to d/s Trabuco	Concrete	MARSHBURN CHANNEL	PD193
342	Underground Conduit	F	F16-15	Trabuco Road RCB Culvert	Concrete	MARSHBURN CHANNEL	PD193
342	Concrete-Lined	F	F16-16.01	u/s Trabuco to d/s grade break	Concrete	MARSHBURN CHANNEL	PD194
342	Concrete-Lined	F	F16-16.02	u/s grade break to d/s grade break	Concrete	MARSHBURN CHANNEL	PD194
342	Concrete-Lined	F	F16-16.03	u/s grade break to d/s grade break	Concrete	MARSHBURN CHANNEL	PD194
342	Concrete-Lined	F	F16-16.04	u/s grade break to d/s grade break	Concrete	MARSHBURN CHANNEL	PD194
342	Concrete-Lined	F	F16-16.05	u/s grade break to d/s grade break	Concrete	MARSHBURN CHANNEL	PD194
342	Concrete-Lined	F	F16-16.06	u/s grade break to d/s grade break	Concrete	MARSHBURN CHANNEL	PD194
342	Concrete-Lined	F	F16-16.07	u/s grade break to d/s grade break	Concrete	MARSHBURN CHANNEL	PD194
342	Concrete-Lined	F	F16-16.09	u/s ramp to d/s Irvine	Concrete	MARSHBURN CHANNEL	PD194
205	Concrete-Lined	F	F18-01	u/s San Diego Creek confluence to d/s outlet stru*	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-02	u/s outlet structure to	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-03.01	d/s maintenance opening	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-03.02	maintenance opening	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-03.04	maintenance opening	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-03.05	u/s maintenance opening to d/s Santa Ana Freeway	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-05.01	u/s Santa Ana Freeway to d/s transition	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-05.02	u/s transition to d/s transition	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-06.01	u/s transition to grade break	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-06.02	grade break to d/s Borrego Canyon channel conflue*	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-07.01	u/s Borrego Canyon Channel confluence to d/s tran*	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-07.03	u/s transition to	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-08	d/s A.T.&S.F. R.R.	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-09	A.T.&S.F. R.R. RCB Culvert	Concrete	AGUA CHINON CHANNEL	PM079
205	Concrete-Lined	F	F18-10	u/s A.T.&S.F. R.R. to d/s transition	Concrete	AGUA CHINON CHANNEL	PM079
206	Underground Conduit	F	F19-01.02	u/s transition to d/s transition	Concrete	SERRANO CREEK CHANNEL	PD195
206	Underground Conduit	F	F19-02	u/s trans to d/s Bake (join existing facility)	Concrete	SERRANO CREEK CHANNEL	PD195
250	Riprap Channel	L	L02-06.02	u/s transition to	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Natural Watercourse	L	L02-15	rip rap channel section (u/s Rancho Viejo)	Concrete	TRABUCO CREEK CHANNEL	PD238
267	Underground Conduit	M	M01S01-03	Transition Structure to Transition Structure	Concrete	CASCADITA STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
267	Concrete-Lined	M	M01S01-05	Transition Structure to Via Cascadita	Concrete	CASCADITA STORM CHANNEL	-9999
78	Underground Conduit	A	A04-04	Imperial Highway RCB Culvert	Concrete	BREA CANYON CHANNEL	PD025
200	Underground Conduit	F	F14-12.02	juction structure to d/s Culver	Concrete	SAN JOAQUIN CHANNEL	PD188
435	Underground Conduit	E	E08P04-01	Downstream Junction with E08P02	Concrete	MESA DRIVE STORM DRAIN	-9999
438	Underground Conduit	E	E08P47-02	Upstream of E08P02	Concrete	LEMON-TAFT STORM DRAIN	-9999
154	Underground Conduit	E	E07S02-01	Downstream Junction with E07S01	Concrete	WANDA STORM CHANNEL	-9999
207	Concrete-Lined	F	F20-08.06	grade break to grade break	Concrete	BORREGO CANYON CHANNEL	PD201
207	Underground Conduit	F	F20-09	Irvine Blvd RCB Culvert	Concrete	BORREGO CANYON CHANNEL	PM085
207	Underground Conduit	F	F20-14.01	d/s Cook to grade break at Foothill Trans Corridor	Concrete	BORREGO CANYON CHANNEL	PM086
207	Underground Conduit	F	F20-14.02	grade break to d/s vertical curve	Concrete	BORREGO CANYON CHANNEL	PM086
207	Underground Conduit	F	F20-14.03	u/s vertical curve to d/s grade break	Concrete	BORREGO CANYON CHANNEL	PM086
207	Underground Conduit	F	F20-14.04	u/s grade break to d/s vertical curve	Concrete	BORREGO CANYON CHANNEL	PM086
207	Underground Conduit	F	F20-14.05	u/s vertical curve to d/s vertical curve at Alton	Concrete	BORREGO CANYON CHANNEL	PM086
207	Underground Conduit	F	F20-14.06	u/s vertical curve to d/s vertical curve	Concrete	BORREGO CANYON CHANNEL	PM086
207	Underground Conduit	F	F20-14.07	u/s vertical curve d/s transition at Portola	Concrete	BORREGO CANYON CHANNEL	PM086
218	Concrete-Lined	F	F25-01	u/s Peters Canyon Channel confluence to u/s Santa*	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-02	u/s Santa Ana Freeway to d/s RCB	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Underground Conduit	F	F25-03.01	begin RCB to d/s grade break	Concrete	CENTRAL IRVINE CHANNEL	PD205
224	Concrete-Lined	G	G02-10	u/s Mariners to d/s transition	Concrete	EAST COSTA MESA CHANNEL	PD206
224	Underground Conduit	G	G02-11	u/s transition to begin G02P01 (d/s Irvine Blvd)	Concrete	EAST COSTA MESA CHANNEL	PD206
232	Concrete-Lined	I	I02-02	u/s Beach to d/s grade break	Concrete	LAGUNA CANYON CHANNEL	PD208
232	Concrete-Lined	I	I02-05	drop structure to (portions bridged)	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Concrete-Lined	I	I02-15	u/s RCB Culvert to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Underground Conduit	I	I02-14	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Concrete-Lined	I	I02-13	u/s RCB Culvert to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Underground Conduit	I	I02-12	RCB Culvert	Riprap	LAGUNA CANYON CHANNEL	PD209
232	Concrete-Lined	I	I02-11	u/s RCB Culvert to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Underground Conduit	I	I02-10	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Concrete-Lined	I	I02-06	to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
232	Underground Conduit	I	I02-07	RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD209
254	Underground Conduit	L	L03-53.01	u/s manhole to d/s mahole	Concrete	OSO CREEK CHANNEL	PD246
254	Underground Conduit	L	L03-52.01	u/s manhole to d/s drop inlet (@ La Barca)	Concrete	OSO CREEK CHANNEL	PD246
254	Underground Conduit	L	L03-51.01	begin pipe to d/s drop inlet	Concrete	OSO CREEK CHANNEL	PD246
254	Underground Conduit	L	L03-51.02	u/s drop inlet to d/s manhole	Concrete	OSO CREEK CHANNEL	PD246
258	Concrete-Lined	L	L04-03.02	Oso Parkway to u/s El Paseo	Concrete	LA PAZ CHANNEL	PD247
266	Concrete-Lined	M	M01-01	A.T.&S.F. R. R. Bridge	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD255
266	Concrete-Lined	M	M01-02	u/s A.T.&S.F. to d/s Pacific Coast Highway	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD255
266	Concrete-Lined	M	M01-03	Pacific Coast Highway Bridge	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD256
266	Underground Conduit	M	M01-04.02	u/s height transition to end RCB (u/s M01S02)	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD256
266	Concrete-Lined	M	M01-05	begin RC Channel to d/s Avenida Vaquero	Concrete	PRIMA DESHECHA CANADA CHANNEL	PD256
268	Concrete-Lined	M	M02-01	u/s Pacific Ocean confluence to d/s RCB Culvert	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Underground Conduit	M	M02-02	RCB Culvert	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Concrete-Lined	M	M02-03	u/s RCB Culvert to d/s A.T.&S.F. R.R.	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Underground Conduit	M	M02-04.01	A.T.&S.F. R.R. RCB Culvert (to grade break)	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Underground Conduit	M	M02-04.02	Avenida Estacion to u/s El Camino Real	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Underground Conduit	M	M02-05	u/s transition to end RCB	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Concrete-Lined	M	M02-06	grade break to d/s Avenida Pico	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Underground Conduit	M	M02-07	Avenida Pico RCB Culvert	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Concrete-Lined	M	M02-08.01	u/s Avenida Pico to grade break	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
268	Concrete-Lined	M	M02-08.02	grade break to 60" RCP	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
268	Concrete-Lined	M	M02-08.03	60" RCP to	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM119
241	Underground Conduit	J	J04-08.04	u/s junction structure to u/s Aliso Niguel Road	Concrete	NARCO CHANNEL	PD224
241	Underground Conduit	J	J04-08.03	u/s junction structure to d/s junction structure	Concrete	NARCO CHANNEL	PD224
241	Underground Conduit	J	J04-08.02	u/s junction structure to d/s junction structure	Concrete	NARCO CHANNEL	PD224
156	Underground Conduit	E	E08-13	Collins/Prospect Culvert #1 (Pipe Arch)	Concrete	SANTIAGO CREEK CHANNEL	PM054
156	Underground Conduit	E	E08-15	Collins/Prospect Culvert #3 (Pipe)	Concrete	SANTIAGO CREEK CHANNEL	PM054
206	Underground Conduit	F	F19-26	Foothill Transportation Corridor RCB Culvert	Concrete	SERRANO CREEK CHANNEL	PM084
234	Riprap Channel	J	J01-03.01	d/s Aliso Creek Road to begin west lining	Concrete	ALISO CREEK CHANNEL	PD216
749	Underground Conduit	M	M02S02-16	Puerta del Sol	Concrete	NO NAME	-9999
342	Underground Conduit	F	F16-21	u/s Marshburn Retarding Basin	Concrete	MARSHBURN CHANNEL	PM076
0	Underground Conduit	F	F07P30-01	F07 Confluence to Ryals Lane	Concrete	NO NAME	-9999
94	Underground Conduit	C	C01S01-28	Kempton Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
94	Underground Conduit	C	C01S01-22	Silver Fox Rd. Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
94	Underground Conduit	C	C01S01-16	D/S Foster Rd. Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
94	Underground Conduit	C	C01S01-11	Martha Ann Dr. Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
375	Underground Conduit	B	B02P04-25	to Transition Structure at Knott Ave.	Concrete	LA PALMA STORM DRAIN	-9999
96	Underground Conduit	C	C01S03-25	Foster Road RC Box	Concrete	MONTECITO STORM CHANNEL	-9999
96	Underground Conduit	C	C01S03-21	Martha Ann Drive RC Box	Concrete	MONTECITO STORM CHANNEL	-9999
96	Underground Conduit	C	C01S03-17	Double Box Culvert under I-405	Earth	MONTECITO STORM CHANNEL	-9999
96	Underground Conduit	C	C01S03-13	Ramp # 10 Culvert	Concrete	MONTECITO STORM CHANNEL	-9999
443	Underground Conduit	E	E12P01-32	Westport Drive to Lincoln Ave.	Concrete	STATE COLLEGE STORM DRAIN	-9999
155	Underground Conduit	E	E07S03-24	Highland Ave culvert	Concrete	BUCKEYE STORM CHANNEL	-9999
249	Underground Conduit	L	L01S06-03	to end of OCFCD R/W at Camino del Avion	Concrete	ALIPAZ STORM CHANNEL	-9999
121	Underground Conduit	C	C05S01-14	McFadden Ave Culvert	Concrete	NEWLAND STORM CHANNEL	-9999
121	Underground Conduit	C	C05S01-11	Palos Verdes Ave Culvert	Concrete	NEWLAND STORM CHANNEL	-9999
121	Underground Conduit	C	C05S01-09	Carnegie Ave Culvert	Earth	NEWLAND STORM CHANNEL	-9999
99	Underground Conduit	C	C01S06-21	Dorado Drive	Steel/Earth	FEDERAL STORM CHANNEL	-9999
99	Underground Conduit	C	C01S06-17	Cedar Crest Lane RC Box	Concrete	FEDERAL STORM CHANNEL	-9999
99	Underground Conduit	C	C01S06-11	St. Andrews Drive	Concrete	FEDERAL STORM CHANNEL	-9999
99	Underground Conduit	C	C01S06-04	Del Monte Drive Culvert	Concrete	FEDERAL STORM CHANNEL	-9999
386	Underground Conduit	C	C02P08-05	BC at Dale Street.	Concrete	STANTON STORM CHANNEL	-9999
382	Underground Conduit	C	C02P01-01	Confluence with C02 to upstream	Riprap	ORANGEWOOD STORM DRAIN	-9999
111	Underground Conduit	C	C03S04-04	Culvert at Chapman	Concrete	ROSALIA STORM CHANNEL	-9999
106	Underground Conduit	C	C03P04-07	Downstream Nearing Drive	Concrete	CHAPMAN-BEACH STORM DRAIN	-9999
98	Underground Conduit	C	C01S05-06	Fwy I-605	Concrete	KATELLA STORM CHANNEL	-9999
98	Underground Conduit	C	C01S05-08	u/s of Fwy I-605 ramp to d/s Walnut St.	Concrete	KATELLA STORM CHANNEL	-9999
98	Underground Conduit	C	C01S05-12	to Los Alamitos Blvd	Concrete	KATELLA STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-07	Martha Ave. Box Culvert	Riprap	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-11	Foster Rd. Box Culvert	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-23	Weatherby Rd. Culvert	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-27	Los Alamitos Blvd.	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-32	Rochelle St.	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-36	Maple St.	Earth	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-44	United States Dr.	Earth/Riprap	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-48	America Dr.	Concrete	ROSSMOOR STORM CHANNEL	-9999
98	Underground Conduit	C	C01S05-01	605 Freeway Entrance	Concrete	KATELLA STORM CHANNEL	-9999
257	Underground Conduit	L	L03P18-28	to Grade Break	Riprap	OSO DIVERSION STORM DRAIN	-9999
147	Underground Conduit	E	E04P01-02	Downstream Orchard Drive	Earth	GLENVIEW STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
418	Underground Conduit	E	E01P63-01	Downstream end, Santa Ana River	Riprap	YORBA PARK STORM DRAIN	-9999
406	Underground Conduit	C	C06P05-01	Junction w/ C06	Concrete	NEWHOPE STORM DRAIN	-9999
80	Earth Channel	A	A06-15.04	36" storm drain to 36" storm drain	Concrete	LOFTUS DIVERSION CHANNEL	PD030
81	Concrete-Lined	A	A07-26.01	u/s RCB to d/s transition	Concrete	IMPERIAL CHANNEL	PD035
82	Concrete-Lined	A	A08-02.02	u/s transition to end construction	Earth	LA MIRADA CREEK CHANNEL	PD036
83	Riprap Channel	B	B01-90	u/s Kraemer Blvd to end (near Kraemer Retarding B*	Concrete	CARBON CREEK CHANNEL	PD046
90	Concrete-Lined	B	B02-05	u/s Crescent to d/s S.P.R.R.	Concrete	MOODY CREEK CHANNEL	PD048
90	Concrete-Lined	B	B02-11.02	u/s transition to d/s La Palma Ave	Concrete	MOODY CREEK CHANNEL	PD049
93	Concrete-Lined	C	C01-15.02	Rossmoor Pump Station and Retarding Basin	Concrete	LOS ALAMITOS CHANNEL	PM021
128	Earth Channel	C	C07-08	1300' d/s Edinger Ave to Edinger Ave	Concrete	SUNSET CHANNEL	PD096
129	Sheetpile Soft Base	D	D01-14.02	78 RCP	Concrete	HUNTINGTON BEACH CHANNEL	PM027
131	Earth Channel	D	D02-25	u/s Talbert to d/s Slater	Concrete	TALBERT CHANNEL	PM030
132	Earth Channel	D	D03-36	u/s Centennial to d/s Edinger	Concrete	GREENVILLE-BANNING CHANNEL	PD100
135	Concrete-Lined	D	D04-04.02	u/s transition to grade break	Concrete	FAIRVIEW CHANNEL	PD101
135	Earth Channel	D	D04-01	u/s confluence with Greenville-Banning Channel to*	Concrete	FAIRVIEW CHANNEL	PD101
136	Riprap Channel	D	D05-17	grade break to d/s Euclid	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
176	Underground Conduit	F	F05-52.05	u/s junction structure to d/s junction structure	Concrete	SAN DIEGO CREEK CHANNEL	PM067
176	Riprap Channel	F	F05-27	u/s Culver to d/s transition	Concrete	SAN DIEGO CREEK CHANNEL	PM063
176	Concrete Soft Base	F	F05-48.03	u/s Bee Canyon Chl confluence to d/s Agua Chinon	Concrete	SAN DIEGO CREEK CHANNEL	PM065
179	Underground Conduit	F	F06-27.02	u/s transition to d/s transition	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-30	u/s junction str to face of headwall (d/s F06B01)	Concrete	PETERS CANYON CHANNEL	PD155
183	Riprap Channel	F	F07-38	u/s Santa Clara to	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Concrete-Lined	F	F07-45.01	u/s Esplanade Street to grade break	Concrete	EL MODENA-IRVINE CHANNEL	PM073
206	Underground Conduit	F	F19-23	Lake Forest Drive RCB Culvert	Concrete	SERRANO CREEK CHANNEL	PD198
207	Concrete-Lined	F	F20-08.07	grade break to d/s Irvine	Concrete	BORREGO CANYON CHANNEL	PD201
207	Underground Conduit	F	F20-01	u/s Agua Chinon Channel confluence to u/s Barranca	Concrete	BORREGO CANYON CHANNEL	PD199
218	Concrete-Lined	F	F25-12.03	U/s Transition1 to d/s Transition2	Concrete	CENTRAL IRVINE CHANNEL	PD205
345	Underground Conduit	F	F26-03.08	grade break to d/s transition (d/s Gate Park)	Concrete	RATTLESNAKE CANYON CHANNEL	PM089
346	Underground Conduit	F	F27-03.06	36" RCP to d/s grade break	Concrete	HICKS CANYON CHANNEL	PM090
234	Natural Watercourse	J	J01-39	Natural Watercourse u/s Trabuco to d/s Creekside	Concrete	ALISO CREEK CHANNEL	PD218
234	Natural Watercourse	J	J01-48	Natural Watercourse from u/s Normandie to d/s Por*	Concrete	ALISO CREEK CHANNEL	PM096
68	Concrete-Lined	A	A01-30.01	Fashion Square Lane Bridge	Conc/Riprap	COYOTE CREEK CHANNEL	PD004
68	Riprap Channel	A	A01-30.02	u/s Fashion Square Lane to d/s Imperial Channel	Concrete	COYOTE CREEK CHANNEL	PD004
68	Underground Conduit	A	A01-32	Idaho Street RCB Culvert	Conc/Riprap	COYOTE CREEK CHANNEL	PD004
68	Earth Channel	A	A01-33	Natural Watercourse from Idaho St to Lambert	Earth	COYOTE CREEK CHANNEL	PD004
68	Underground Conduit	A	A01-34	Lambert Road RCB Culvert	Riprap	COYOTE CREEK CHANNEL	PD004
68	Concrete-Lined	A	A01-35.01	u/s Lambert to d/s grade break	Concrete	COYOTE CREEK CHANNEL	PD004
68	Concrete-Lined	A	A01-35.02	u/s grade break to d/s Monte Vista	Concrete	COYOTE CREEK CHANNEL	PD004
68	Underground Conduit	A	A01-36	Monte Vista RCB Culvert	Concrete	COYOTE CREEK CHANNEL	PD004
68	Concrete-Lined	A	A01-37	u/s Monte Vista to d/s Walnut	Concrete	COYOTE CREEK CHANNEL	PD004
68	Underground Conduit	A	A01-38	Walnut Ave RCB Culvert	Concrete	COYOTE CREEK CHANNEL	PD004
68	Concrete-Lined	A	A01-39	u/s Walnut to d/s Euclid	Riprap	COYOTE CREEK CHANNEL	PD005
74	Concrete-Lined	A	A03-01	u/s Coyote Creek to d/s Valley View	Concrete	FULLERTON CREEK CHANNEL	PD015
74	Concrete-Lined	A	A03-02	Valley View Bridge	Concrete	FULLERTON CREEK CHANNEL	PD015
74	Concrete-Lined	A	A03-03	grade break to d/s S.P.R.R.	Concrete	FULLERTON CREEK CHANNEL	PD015
74	Concrete-Lined	A	A03-04	S.P.R.R. Bridge	Concrete	FULLERTON CREEK CHANNEL	PD015
74	Concrete-Lined	A	A03-05	u/s S.P.R.R. Bridge to	Concrete	FULLERTON CREEK CHANNEL	PD015
74	Concrete-Lined	A	A03-06.01	confluence with Buena Park Storm Channel	Concrete	FULLERTON CREEK CHANNEL	PD015
74	Concrete-Lined	A	A03-06.02	u/s confluence to Grade Break	Concrete	FULLERTON CREEK CHANNEL	PM007

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
74	Concrete-Lined	A	A03-07	Knott Ave Bridge	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-08.02	u/s Knott to Melrose storm channel	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-08.03	Melrose Storm channel to	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-08.05	u/s transition to grade break	Concrete	FULLERTON CREEK CHANNEL	PM007
83	Concrete-Lined	B	B01-03.01	u/s bloomfield to Pump Station	Earth	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-03.02	Pump Station to B01S01 (Cypress Basin Outlet)	Earth	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-03.03	B01S01 (Cypress Basin Outlet) to d/s Denni Street	Concrete	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-04	Denni Street Bridge	Earth	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-05.01	u/s Denni Street to Pump Station	Concrete	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-05.02	Pump station to d/s Moody Street	Earth	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-06	Moody Street Bridge	Earth	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-07.01	u/s Moody Street to Pump Station	Concrete	CARBON CREEK CHANNEL	PM015
83	Concrete-Lined	B	B01-07.02	Pump Station to	Concrete	CARBON CREEK CHANNEL	PM016
83	Concrete-Lined	B	B01-07.03	d/s Walker Street	Concrete	CARBON CREEK CHANNEL	PM016
83	Concrete-Lined	B	B01-16	Holder Street Bridge	Earth	CARBON CREEK CHANNEL	PM017
83	Riprap Channel	B	B01-17	u/s Holder to d/s S.P.R.R.	Earth	CARBON CREEK CHANNEL	PM017
83	Riprap Channel	B	B01-18	S.P.R.R. Bridge	Earth	CARBON CREEK CHANNEL	PM017
83	Riprap Channel	B	B01-19.01	u/s S.P.R.R. to d/s	Earth	CARBON CREEK CHANNEL	PD038
83	Riprap Channel	B	B01-19.02	d/s Knott Ave	Earth	CARBON CREEK CHANNEL	PD038
83	Concrete-Lined	B	B01-20	Knott Ave Bridge	Concrete	CARBON CREEK CHANNEL	PD038
83	Concrete-Lined	B	B01-21.01	u/s Knott to grade break	Earth	CARBON CREEK CHANNEL	PD038
83	Concrete-Lined	B	B01-21.02	grade break to d/s Western	Concrete	CARBON CREEK CHANNEL	PD038
83	Concrete-Lined	B	B01-22	Western Ave Bridge	Earth	CARBON CREEK CHANNEL	PD039
83	Riprap Channel	B	B01-23	u/s Western to d/s Orange	Earth	CARBON CREEK CHANNEL	PD039
83	Underground Conduit	B	B01-24	Orange Ave RCB Culvert	Earth	CARBON CREEK CHANNEL	PD039
83	Underground Conduit	B	B01-77	Orange Freeway RCB Culvert	Earth	CARBON CREEK CHANNEL	PD046
83	Concrete-Lined	B	B01-78	u/s Orange Freeway to d/s Gonzales	Concrete	CARBON CREEK CHANNEL	PD046
83	Underground Conduit	B	B01-79	Gonzales Street RCB Culvert	Concrete	CARBON CREEK CHANNEL	PD046
83	Concrete-Lined	B	B01-80	u/s Gonzales to d/s Tafolla	Concrete	CARBON CREEK CHANNEL	PD046
83	Underground Conduit	B	B01-81	Tafolla Street RCB Culvert	Concrete	CARBON CREEK CHANNEL	PD046
83	Concrete-Lined	B	B01-82	u/s Tafolla to d/s Melrose	Concrete	CARBON CREEK CHANNEL	PD046
83	Underground Conduit	B	B01-83	Melrose Street RCB Culvert	Concrete	CARBON CREEK CHANNEL	PD046
83	Concrete-Lined	B	B01-84	u/s Melrose to d/s Pedestrian Bridge	Concrete	CARBON CREEK CHANNEL	PD046
83	Underground Conduit	B	B01-85	Pedestrian Bridge	Concrete	CARBON CREEK CHANNEL	PD046
83	Concrete-Lined	B	B01-86.01	u/s transition to d/s transition	Concrete	CARBON CREEK CHANNEL	PD046
83	Riprap Channel	B	B01-86.02	u/s transition to d/s Gaw	Concrete	CARBON CREEK CHANNEL	PD046
93	Earth Channel	C	C01-09.02	Montecito Chnl confluence to d/s College Park	Concrete	LOS ALAMITOS CHANNEL	PM021
93	Underground Conduit	C	C01-10	College Park RCB culvert	Concrete	LOS ALAMITOS CHANNEL	PM021
93	Earth Channel	C	C01-11	u/s College Park to d/s San Diego Freeway	Concrete	LOS ALAMITOS CHANNEL	PM021
93	Underground Conduit	C	C01-12	San Diego Freeway RCB Culvert	Concrete	LOS ALAMITOS CHANNEL	PM021
93	Earth Channel	C	C01-13.01	u/s San Diego Freeway to Kempton Storm Channel co*	Concrete	LOS ALAMITOS CHANNEL	PM021
93	Earth Channel	C	C01-13.02	Grade Break to d/s NB San Diego Freeway Connector*	Concrete	LOS ALAMITOS CHANNEL	PM021
93	Underground Conduit	C	C01-14	NB San Diego Freeway Connector Ramp RCB Culvert	Concrete	LOS ALAMITOS CHANNEL	PM021
93	Concrete-Lined	C	C01-15.01	u/s San Diego Freeway ramp to d/s Rossmoor Retard*	Riprap	LOS ALAMITOS CHANNEL	PM021
93	Underground Conduit	C	C01-15.03	Access Road RCB Culvert	Concrete	LOS ALAMITOS CHANNEL	PM021
93	Concrete-Lined	C	C01-16	transition	Riprap	LOS ALAMITOS CHANNEL	PM021
93	Underground Conduit	C	C01-17	Katella Ave RCB Culvert	Concrete	LOS ALAMITOS CHANNEL	PM021
100	Earth Channel	C	C02-03	u/s Edinger Bridge to d/s C04 confluence	Riprap	BOLSA CHICA CHANNEL	PD053
100	Earth Channel	C	C02-04.01	u/s C04 confluence to begin curve	Concrete	BOLSA CHICA CHANNEL	PD054

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
100	Earth Channel	C	C02-04.02	begin curve to d/s Bolsa Bridge	Riprap	BOLSA CHICA CHANNEL	PD054
100	Earth Channel	C	C02-05	Bolsa Bridge	Riprap	BOLSA CHICA CHANNEL	PD055
100	Earth Channel	C	C02-06.01	u/s Bolsa Bridge to d/s C03 Confluence	Concrete	BOLSA CHICA CHANNEL	PD055
100	Earth Channel	C	C02-06.03	u/s transition to d/s Navy RR bridge	Earth	BOLSA CHICA CHANNEL	PM022
100	Earth Channel	C	C02-06.02	u/s C03 Confluence to d/s transition	Earth	BOLSA CHICA CHANNEL	PM022
100	Earth Channel	C	C02-07	Navy RR Bridge	Riprap	BOLSA CHICA CHANNEL	PM022
100	Earth Channel	C	C02-08	u/s Navy Bridge to d/s Westminster Bridge	Concrete	BOLSA CHICA CHANNEL	PM022
100	Earth Channel	C	C02-09	Westminster Bridge	Concrete	BOLSA CHICA CHANNEL	PM022
127	Earth Channel	C	C06-21.01	u/s Euclid to 48-inch storm drain inlet (near Cor*	Concrete	OCEAN VIEW CHANNEL	PD095
128	Underground Conduit	C	C07-01	Huntington Harbor Marina to u/s Heil	Concrete	SUNSET CHANNEL	PD096
128	Concrete-Lined	C	C07-02.04	d/s Bolsa Chica Road to Bolsa Chica Road Culverts	Concrete	SUNSET CHANNEL	PD096
128	Underground Conduit	C	C07-03	Bolsa Chica Road Culverts	Concrete	SUNSET CHANNEL	PD096
138	Concrete-Lined	E	E01-10.01	u/s transition to	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-10.02	d/s transition	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-11	u/s transition to d/s Talbert	Concrete	SANTA ANA RIVER CHANNEL	PM038
138	Concrete-Lined	E	E01-12	Talbert Ave Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM038
138	Concrete-Lined	E	E01-13.01	u/s Talbert to	Concrete	SANTA ANA RIVER CHANNEL	PM038
138	Concrete-Lined	E	E01-13.02	transition to 160'(W) X 14'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM038
138	Concrete-Lined	E	E01-13.03	transition to 160'(W) X 14.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM038
138	Concrete-Lined	E	E01-13.04	to d/s Slater	Concrete	SANTA ANA RIVER CHANNEL	PM038
138	Concrete-Lined	E	E01-14	Slater Ave Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM038
138	Concrete-Lined	E	E01-15.02	transition to 160'(W) X 14'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM038
138	Concrete-Lined	E	E01-15.03	d/s Warner	Earth	SANTA ANA RIVER CHANNEL	PM038
138	Concrete-Lined	E	E01-16	Warner Ave Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-17	u/s Warner to d/s Harbor	Concrete	SANTA ANA RIVER CHANNEL	PM039
138	Concrete-Lined	E	E01-18	Harbor Blvd Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM039
143	Concrete-Lined	E	E02-06	Riverside Freeway Bridge	Concrete	CARBON CREEK DIVERSION CHANNEL	PD104
143	Riprap Channel	E	E02-07	u/s Riverside Freeway to d/s Kraemer	Concrete	CARBON CREEK DIVERSION CHANNEL	PD104
143	Underground Conduit	E	E02-08	Kraemer Blvd RCB Culvert	Earth	CARBON CREEK DIVERSION CHANNEL	PD105
143	Riprap Channel	E	E02-09	u/s Kraemer to d/s La Palma	Concrete	CARBON CREEK DIVERSION CHANNEL	PD105
143	Concrete-Lined	E	E02-10	La Palma Ave Bridge	Concrete	CARBON CREEK DIVERSION CHANNEL	PD105
143	Riprap Channel	E	E02-11.01	u/s La Palma to d/s transition	Concrete	CARBON CREEK DIVERSION CHANNEL	PD105
143	Riprap Channel	E	E02-11.02	u/s transition to d/s Coronado	Concrete	CARBON CREEK DIVERSION CHANNEL	PD105
143	Concrete-Lined	E	E02-12	Coronado Street Bridge	Concrete	CARBON CREEK DIVERSION CHANNEL	PD105
143	Earth Channel	E	E02-13	u/s Coronado to d/s Miraloma	Concrete	CARBON CREEK DIVERSION CHANNEL	PD105
143	Concrete-Lined	E	E02-14	Miraloma Street Bridge	Concrete	CARBON CREEK DIVERSION CHANNEL	PD105
143	Earth Channel	E	E02-15.02	grade break to Miller Retarding Basin outlet	Earth	CARBON CREEK DIVERSION CHANNEL	PD105
144	Underground Conduit	E	E03-07	Golf Course RCB Culvert	Concrete	CARBON CANYON CHANNEL	PD106
144	Concrete-Lined	E	E03-14.03	u/s truck crossing to grade break	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-14.04	grade break to	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-14.05	30" RCP @ west wall (ext ofF Huggins Ave)	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-14.06	30" RCP @ west wall (ext of Huggins Ave) to	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-14.07	d/s Bastanchury	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-15	Bastanchury Road RCB Culvert	Concrete	CARBON CANYON CHANNEL	PM051
144	Concrete-Lined	E	E03-16.01	u/s Bastanchury to d/s truck crossing	Earth	CARBON CANYON CHANNEL	PM052
144	Underground Conduit	E	E03-16.02	Truck Crossing RCB Culvert	Concrete	CARBON CANYON CHANNEL	PM052
144	Concrete-Lined	E	E03-16.03	u/s truck crossing to grade break	Concrete	CARBON CANYON CHANNEL	PM052
144	Concrete-Lined	E	E03-16.04	grade break to d/s truck crossing	Concrete	CARBON CANYON CHANNEL	PM052
144	Underground Conduit	E	E03-16.05	Truck Crossing RCB Culvert	Concrete	CARBON CANYON CHANNEL	PM052

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
92	Underground Conduit	C	C00P02-01	Pump Station C00PS1 to upstream PCH	Concrete	SEAL BEACH STORM DRAIN	-9999
401	Underground Conduit	C	C05P22-06	Upstream Chapman to GB	Concrete	HOLIDAY STORM DRAIN	-9999
384	Underground Conduit	C	C02P03-13	Upstream transition	Earth	JONATHAN STORM CHANNEL	-9999
154	Underground Conduit	E	E07S02-05	Upstream of Wanda Rd./Santiago Blvd. Intersection	Concrete	WANDA STORM CHANNEL	-9999
391	Underground Conduit	C	C03P06-01	Confluence with C03	Concrete	CHAPMAN-DALE STORM DRAIN	-9999
96	Earth Channel	C	C01S03-03	Downstream of Ramp's culvert/transition	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-33	BC downstream from Montecito Rd. (Sh. 7)	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-31	Upstream to downstream	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-29	Trap section between transitions, Sh. 5	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-27	Trapezoidal Channel upstream from Foster Rd.	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-15	Reach upstream Ramp # 10/Transition	Concrete	MONTECITO STORM CHANNEL	-9999
96	Earth Channel	C	C01S03-08	BC to EC	Concrete	MONTECITO STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-31	Between invert drops, Sheet 6	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-25	900 Curve U/S from Silver Fox Transition	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-20	Transition at 27" RCP to D/S Silver Fox Transition	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-18	Transition U/S Foster Rd. Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-05	Grade Break to Inlet	Earth	DEL OBISPO STORM CHANNEL	-9999
110	Concrete-Lined	C	C03S03-02	Upstream Edwards to downstream of Siskiyou	Earth	BESTEL STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-12		Concrete	NEWLAND STORM CHANNEL	-9999
99	Earth Channel	C	C01S06-26	Downstream RR to C01 Confluence	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-23	Train tracks, upstream transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-19	Cedar Crest, d/s trans. to Dorado Dr. u/s trans.	Concrete	FEDERAL STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-13	Knott Ave. ustream to wall transition	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-17	EC to downstream transition Western Ave.	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-21	Upstream Western Ave, rectangular channel	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-23	Downstream RR	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-39	Upstream Beach Blvd.	Concrete	STANTON STORM CHANNEL	-9999
101	Earth Channel	C	C02S01-48	Upstream Katella Ave. to downstream Monroe	Earth	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-56	BC to Dale Street	Concrete	STANTON STORM CHANNEL	-9999
111	Concrete-Lined	C	C03S04-02	Upstream of Lampson Street to Chapman	Concrete	ROSALIA STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-09	U/S Transition to Foster Rd (D/S Transition)	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-13	Upstream transition to 24" RCP	Concrete	ROSSMOOR STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-30	U/S Transition to D/S invert drop	Concrete	KEMPTON STORM CHANNEL	-9999
188	Concrete-Lined	F	F07S01-15	to vary wall Ht.	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
99	Earth Channel	C	C01S06-39	To box transition	Earth	FEDERAL STORM CHANNEL	-9999
188	Earth Channel	F	F07S01-02	Grade Break to d/s Irvine Blvd	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
99	Concrete-Lined	C	C01S06-15	St. Andrews Dr. to Cedar Crest u/s end transition	Concrete	FEDERAL STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-07		Concrete	NEWLAND STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-03	Upstream of Orange - Olive	Concrete	BUCKEYE STORM CHANNEL	-9999
172	Underground Conduit	F	F01S01-02.06	Upstream Open Channel to d/s Open Channel	Concrete	AIRPORT STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-02	Los Alamitos Channel to transition structure	Concrete	KEMPTON STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-02	EC to BC	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-15	PRC to d/s transition at Shakespeare Drive	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-19	From transition to 10' Drainage Easement	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-30	Downstream Rochelle St.	Riprap	ROSSMOOR STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-19	upstream to downstream	Riprap	MONTECITO STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-09	Burning Tree Ln. to St. Andrews u/s transition	Riprap	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-01	Just downstream of the Seal Beach Blvd.	Riprap	FEDERAL STORM CHANNEL	-9999
99	Earth Channel	C	C01S06-30	to first BC (going u/s)	Concrete	FEDERAL STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
99	Earth Channel	C	C01S06-37	Angle point to d/s channel height transition	Concrete	FEDERAL STORM CHANNEL	-9999
70	Underground Conduit	A	A01P03-25	to Sandburg Dr.	Riprap	ORANGETHORPE STORM DRAIN	-9999
430	Underground Conduit	E	E03P01-03	Cedarlawn Drive to Valencia Ave.	Concrete	PALM-VALENCIA STORM DRAIN	-9999
99	Underground Conduit	C	C01S06-07	Burning Tree Ln.	Earth	FEDERAL STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-40	Curve	Earth	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-41	Downstream RR & Katella	Earth	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-36	Between RR and Beach Blvd (U/S grade break)	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-35	Between RR and Beach Blvd.	Concrete	STANTON STORM CHANNEL	-9999
69	Underground Conduit	A	A01P01-01B	Coyote Creek to Grade Break	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-13A	Junction Box to Grade Break (per 1959 plan)	Earth	MONTE VISTA STORM DRAIN	-9999
216	Earth Channel	F	F23S02-01	Confluence with F23	Earth	VEEH STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-12		Earth	EDINGER STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-20	to Grade Break	Earth	WALNUT CANYON STORM CHANNEL	-9999
92	Underground Conduit	C	C00P02-06	From midway 13th/14th St. to d/s Balboa Drive	Concrete	SEAL BEACH STORM DRAIN	-9999
92	Underground Conduit	C	C00P02-10	upstream to downstream	Concrete	SEAL BEACH STORM DRAIN	-9999
92	Underground Conduit	C	C00P02-08	Balboa Drive	Concrete	SEAL BEACH STORM DRAIN	-9999
97	Concrete-Lined	C	C01S04-09	EC to BC (Sh. 3)	Concrete	BIXBY STORM CHANNEL	-9999
254	Natural Watercourse	L	L03-24	u/s transition (end curve) to property line	Concrete	OSO CREEK CHANNEL	PM110
258	Concrete-Lined	L	L04-04	begin RC channel to d/s RCB transition	Concrete	LA PAZ CHANNEL	PD247
258	Underground Conduit	L	L04-05	u/s transition to d/s transition	Concrete	LA PAZ CHANNEL	PD247
258	Underground Conduit	L	L04-05.02	39" RCP to 18" RCP	Concrete	LA PAZ CHANNEL	PD248
258	Underground Conduit	L	L04-05.01	u/s transition to 39" RCP	Concrete	LA PAZ CHANNEL	PD247
258	Concrete-Lined	L	L04-06	grade break to d/s transition	Concrete	LA PAZ CHANNEL	PD248
258	Underground Conduit	L	L04-05.12	36" inlet to end RCB	Concrete	LA PAZ CHANNEL	PD248
258	Underground Conduit	L	L04-05.11	grade break to 36" inlet	Earth	LA PAZ CHANNEL	PD248
258	Underground Conduit	L	L04-05.03	18" RCP to 45" inlet	Concrete	LA PAZ CHANNEL	PD248
258	Underground Conduit	L	L04-05.04	45" inlet to grade break	Earth	LA PAZ CHANNEL	PD248
234	Riprap Channel	J	J01-03.02	begin west lining to begin east lining	Earth	ALISO CREEK CHANNEL	PD216
234	Riprap Channel	J	J01-04	Aliso Creek Road Bridge	Earth	ALISO CREEK CHANNEL	PD216
234	Riprap Channel	J	J01-05.01	begin west lining to begin east lining	Concrete	ALISO CREEK CHANNEL	PD216
234	Natural Watercourse	J	J01-05.02	begin east lining to end rock protection	Concrete	ALISO CREEK CHANNEL	PD216
242	Natural Watercourse	J	J06-02	begin channel to d/s Aliso Viejo Parkway	Concrete	DAIRY FORK	PD226
243	Riprap Channel	J	J07-06	u/s Los Alisos to d/s Los Alisos	Concrete	ENGLISH CANYON CHANNEL	PD227
243	Riprap Channel	J	J07-06	u/s Los Alisos to d/s Los Alisos	Concrete	ENGLISH CANYON CHANNEL	PD227
175	Underground Conduit	F	F03-05	St. Clair Street RCB Culvert	Concrete	PAULARINO CHANNEL	PD143
175	Earth Channel	F	F03-06.01	u/s St. Clair to d/s transition	Concrete	PAULARINO CHANNEL	PD143
175	Earth Channel	F	F03-06.03	u/s transition to d/s Mendoza	Earth	PAULARINO CHANNEL	PD143
175	Underground Conduit	F	F03-07	Mendoza Street RCB Culvert	Concrete	PAULARINO CHANNEL	PD144
175	Earth Channel	F	F03-08	u/s Mendoza to d/s Fairview	Earth	PAULARINO CHANNEL	PD144
175	Underground Conduit	F	F03-09	Fairview Street RCB Culvert	Concrete	PAULARINO CHANNEL	PD144
175	Underground Conduit	F	F03-10.02	u/s junction structure to end	Earth	PAULARINO CHANNEL	PD144
176	Earth Channel	F	F05-05.03	MacArthur Blvd Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PM061
176	Earth Channel	F	F05-05.02	u/s Corona Del mar Freeway to d/s MacArthur	Earth	SAN DIEGO CREEK CHANNEL	PM061
176	Earth Channel	F	F05-05.01	Corona Del Mar Freeway Bridges	Concrete	SAN DIEGO CREEK CHANNEL	PM061
176	Earth Channel	F	F05-04	u/s Jamboree to Corona Del mar Freeway	Earth/Riprap	SAN DIEGO CREEK CHANNEL	PM061
179	Underground Conduit	F	F06-29.08	u/s lines D-6 & D-7 to d/s Line C (Tustin Ranch R*	Earth	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.09	u/s Line C to line D-8 (Tustin Ranch Road)	Riprap	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.10	line D-8 to line D-9 (Pioneer Way)	Riprap	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.11	line D-9 to d/s line D-10 (Pioneer Way)	Riprap	PETERS CANYON CHANNEL	PM070

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
179	Underground Conduit	F	F06-29.12	u/s line D-10 to d/s lines D-11 & D-12 (Pioneer W*	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.13	u/s lines D-11 & D-12 to line D-13	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.14	line D-13 to line D-14	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.15	line D-14 to d/s junction structure	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.16	u/s junction structure to line D-15	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.17	line D-15 to line D-16	Concrete	PETERS CANYON CHANNEL	PM070
179	Underground Conduit	F	F06-29.18	line D-16 to d/s junction structure	Concrete	PETERS CANYON CHANNEL	PM070
189	Underground Conduit	F	F08-02	Jamboree Road RCB Culvert	Riprap	LANE CHANNEL	PD162
189	Earth Channel	F	F08-03	u/s NB San Diego Freeway Onramp to d/s Von Karman	Concrete	LANE CHANNEL	PD162
189	Earth Channel	F	F08-04	Von Karman Ave Bridge	Concrete	LANE CHANNEL	PD163
189	Earth Channel	F	F08-05	u/s Von Karman to d/s RCB Culvert	Concrete	LANE CHANNEL	PD163
189	Underground Conduit	F	F08-06.01	begin RCB Culvert to 96" RCP	Concrete	LANE CHANNEL	PD163
189	Underground Conduit	F	F08-06.02	96" RCP to d/s shorter RCB	Concrete	LANE CHANNEL	PD163
189	Underground Conduit	F	F08-06.03	shorter RCB	Concrete	LANE CHANNEL	PD163
189	Underground Conduit	F	F08-07	Main Street RCB Culvert	Concrete	LANE CHANNEL	PD163
189	Underground Conduit	F	F08-08.01	u/s Main Street to d/s taller RCB	Concrete	LANE CHANNEL	PD163
189	Underground Conduit	F	F08-08.02	taller RCB	Concrete	LANE CHANNEL	PD163
189	Concrete-Lined	F	F08-09	begin RC Channel to d/s driveway	Concrete	LANE CHANNEL	PD163
189	Underground Conduit	F	F08-10	Driveway RCB Culvert	Concrete	LANE CHANNEL	PD163
192	Underground Conduit	F	F09-05	A.T.&S.F. R.R. RCB Culvert	Concrete	BARRANCA CHANNEL	PD168
192	Earth Channel	F	F09-06	u/s A.T.&S.R. R.R. to d/s McGaw	Concrete	BARRANCA CHANNEL	PD169
192	Underground Conduit	F	F09-07	McGaw Ave RCB Culvert (d/s F09P04)	Concrete	BARRANCA CHANNEL	PD169
192	Earth Channel	F	F09-08	u/s McGaw to d/s RCB (u/s F09P04)	Concrete	BARRANCA CHANNEL	PD169
192	Underground Conduit	F	F09-09	RCB Culvert (d/s Alton)	Concrete	BARRANCA CHANNEL	PD169
192	Earth Channel	F	F09-10	u/s RCB to d/s Alton (d/s F09P06)	Concrete	BARRANCA CHANNEL	PD169
192	Underground Conduit	F	F09-11	Alton Parkway RCB Culvert (u/s F09P06)	Concrete	BARRANCA CHANNEL	PD169
192	Earth Channel	F	F09-12.01	u/s Alton to grade break (d/s F09P08)	Concrete	BARRANCA CHANNEL	PD169
192	Earth Channel	F	F09-12.02	grade break (u/s F09P08) to 60" RCP	Concrete	BARRANCA CHANNEL	PD169
192	Earth Channel	F	F09-12.03	60" RCP to d/s Barranca	Concrete	BARRANCA CHANNEL	PD169
192	Underground Conduit	F	F09-15.01	at Von Karman	Concrete	BARRANCA CHANNEL	PM074
250	Riprap Channel	L	L02-06.03	d/s transition	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Riprap Channel	L	L02-06.04	u/s transition to d/s transition	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Concrete-Lined	L	L02-07	u/s transition to d/s Camino Capistrano	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Concrete-Lined	L	L02-08	Camino Capistrano Bridge	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Concrete-Lined	L	L02-09	u/s Camino Capistrano to d/s San Diego Freeway	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Concrete-Lined	L	L02-10	San Diego Freeway Bridge	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Concrete-Lined	L	L02-11	Rancho Viejo Road Bridge	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Concrete-Lined	L	L02-12.01	u/s Rancho Viejo to	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Concrete-Lined	L	L02-12.02	d/s transition	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Riprap Channel	L	L02-13	u/s transition to	Concrete	TRABUCO CREEK CHANNEL	PD238
250	Natural Watercourse	L	L02-14	Natural Watercourse	Concrete	TRABUCO CREEK CHANNEL	PD238
262	Underground Conduit	M	M00S01-01	Pacific Ocean outlet to d/s Beach Road	Concrete	ESTRELLA STORM DRAIN	-9999
262	Underground Conduit	M	M00S01-04	Transition	Concrete	ESTRELLA STORM DRAIN	-9999
262	Underground Conduit	M	M00S01-06	Transition	Concrete	ESTRELLA STORM DRAIN	-9999
74	Concrete-Lined	A	A03-17	Santa Ana Freeway Bridge	Concrete	FULLERTON CREEK CHANNEL	PD017
74	Concrete-Lined	A	A03-18	Manchester Ave Bridge	Concrete	FULLERTON CREEK CHANNEL	PD018
74	Concrete-Lined	A	A03-20	Dale Street Bridge	Concrete	FULLERTON CREEK CHANNEL	PD018
74	Concrete-Lined	A	A03-21	u/s Dale to Houston Storm Channel (A03S02)	Concrete	FULLERTON CREEK CHANNEL	PD018
74	Concrete-Lined	A	A03-22	Houston Storm Channel (A03S02) to d/s Whitaker St*	Concrete	FULLERTON CREEK CHANNEL	PD018

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
74	Concrete-Lined	A	A03-23	Whitaker Street Bridge	Riprap	FULLERTON CREEK CHANNEL	PD018
74	Concrete-Lined	A	A03-24	u/s Whitaker to d/s Edwards	Concrete	FULLERTON CREEK CHANNEL	PD018
74	Concrete-Lined	A	A03-25	Edwards Street Bridge	Concrete	FULLERTON CREEK CHANNEL	PD018
74	Concrete-Lined	A	A03-26	u/s Edwards to d/s Mangnolia	Concrete	FULLERTON CREEK CHANNEL	PD019
74	Concrete-Lined	A	A03-27	Magnolia Ave Bridge	Concrete	FULLERTON CREEK CHANNEL	PD019
74	Concrete-Lined	A	A03-28	u/s Magnolia to d/s Gilbert	Concrete	FULLERTON CREEK CHANNEL	PD019
74	Concrete-Lined	A	A03-39	Euclid Ave Bridge	Concrete	FULLERTON CREEK CHANNEL	PD021
74	Concrete-Lined	A	A03-40.01	u/s Euclid to	Concrete	FULLERTON CREEK CHANNEL	PD021
74	Concrete-Lined	A	A03-40.02	grade change to grade change	Concrete	FULLERTON CREEK CHANNEL	PD021
74	Concrete-Lined	A	A03-40.03	grade change to d/s Woods	Earth	FULLERTON CREEK CHANNEL	PD021
74	Concrete-Lined	A	A03-41	Woods Ave Bridge	Riprap	FULLERTON CREEK CHANNEL	PD021
74	Concrete-Lined	A	A03-42	u/s Woods to d/s Richman	Earth	FULLERTON CREEK CHANNEL	PD022
74	Concrete-Lined	A	A03-43	Richman Ave Bridge	Riprap	FULLERTON CREEK CHANNEL	PD022
74	Concrete-Lined	A	A03-44.01	u/s Richman to d/s transition	Earth	FULLERTON CREEK CHANNEL	PD022
74	Concrete-Lined	A	A03-44.02	u/s transition to d/s Highland	Concrete	FULLERTON CREEK CHANNEL	PD022
74	Concrete-Lined	A	A03-45	Highland Ave Bridge	Concrete	FULLERTON CREEK CHANNEL	PD022
74	Concrete-Lined	A	A03-46	u/s Highland to d/s Malden	Concrete	FULLERTON CREEK CHANNEL	PD022
74	Concrete-Lined	A	A03-47	Malden Ave Bridge	Concrete	FULLERTON CREEK CHANNEL	PD022
74	Concrete-Lined	A	A03-48	u/s Malden to d/s transition	Concrete	FULLERTON CREEK CHANNEL	PD022
81	Concrete-Lined	A	A07-05.01	u/s transition to grade break	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-05.02	grade break to grade break	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-05.03	grade break to Walnut Street	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-05.04	Walnut Street to grade break	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-05.05	grade break to	Earth	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-05.06	d/s Euclid	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-06	Euclid Street Bridge	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-07.01	u/s Euclid to	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-07.02	42" RCP	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-07.03	42" RCP to	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-07.04	d/s Lakeview	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-08	Lakeview Ave Bridge	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-09	u/s Lakeview to d/s transition	Concrete	IMPERIAL CHANNEL	PD031
81	Underground Conduit	A	A07-10.01	begin RCB Culvert to d/s grade break (Village Dri*	Concrete	IMPERIAL CHANNEL	PD031
81	Concrete-Lined	A	A07-14.03	u/s transition to d/s transition	Concrete	IMPERIAL CHANNEL	PD033
81	Concrete-Lined	A	A07-15	u/s transition to d/s Imperial Highway	Concrete	IMPERIAL CHANNEL	PD033
81	Underground Conduit	A	A07-16	Imperial Highway RCB Culvert (beg to d/s transiti*	Concrete	IMPERIAL CHANNEL	PD033
81	Underground Conduit	A	A07-17	Imperial Highway RCB Culvert (u/s transition to e*	Concrete	IMPERIAL CHANNEL	PD033
81	Concrete-Lined	A	A07-18.01	u/s Imperial Highway to grade break	Concrete	IMPERIAL CHANNEL	PD033
81	Concrete-Lined	A	A07-18.02	grade break to d/s Gemini	Concrete	IMPERIAL CHANNEL	PD033
81	Underground Conduit	A	A07-19	Gemini Ave RCB Culvert	Concrete	IMPERIAL CHANNEL	PD033
81	Concrete-Lined	A	A07-20.01	u/s transition to grade break	Concrete	IMPERIAL CHANNEL	PD033
81	Concrete-Lined	A	A07-20.02	grade break to d/s P.E.R.R. tracks	Concrete	IMPERIAL CHANNEL	PD033
206	Riprap Channel	F	F19-18	slope protection	Concrete	SERRANO CREEK CHANNEL	PD197
206	Natural Watercourse	F	F19-19	Natural Watercourse	Concrete	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-20.01	begin protection to d/s drop structure	Concrete	SERRANO CREEK CHANNEL	PD197
206	Riprap Channel	F	F19-20.02	u/s drop structure to end protection	Concrete	SERRANO CREEK CHANNEL	PD197
206	Earth Channel	F	F19-21.01	u/s Trabuco to weir	Concrete	SERRANO CREEK CHANNEL	PM083
206	Concrete-Lined	F	F19-24	u/s Lake Forest to	Concrete	SERRANO CREEK CHANNEL	PD198
206	Riprap Channel	F	F19-25	d/s Foothill Transportation Corridor	Concrete	SERRANO CREEK CHANNEL	PD198

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
207	Concrete-Lined	F	F20-04.01	u/s transition to grade break	Concrete	BORREGO CANYON CHANNEL	PD200
207	Concrete-Lined	F	F20-04.02	grade break to d/s RCB	Concrete	BORREGO CANYON CHANNEL	PD200
207	Underground Conduit	F	F20-05	RCB Culvert	Concrete	BORREGO CANYON CHANNEL	PD201
218	Concrete-Lined	F	F25-08.02	grade break to d/s grade break	Concrete/Earth	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-08.03	u/s grade break to grade break	Concrete/Earth	CENTRAL IRVINE CHANNEL	PD205
218	Underground Conduit	F	F25-09	grade break to d/s transition (NB Trabuco Undercr*	Concrete/Earth	CENTRAL IRVINE CHANNEL	PD205
218	Earth Channel	F	F25-10.01	u/s transition to d/s 60" RCP	Concrete/Earth	CENTRAL IRVINE CHANNEL	PD205
218	Riprap Channel	F	F25-10.02	u/s 60" RCP to end barrier wall	Concrete/Earth	CENTRAL IRVINE CHANNEL	PD205
345	Underground Conduit	F	F26-01.01	u/s Peters Canyon Channel confluence to grade bre*	Concrete/Earth	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-01.02	grade break to 30" RCP	Concrete/Earth	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-01.03	30" RCP to	Concrete/Earth	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-01.04	grade break	Concrete/Earth	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-01.05	grade break to d/s height transition	Concrete	RATTLESNAKE CANYON CHANNEL	PM089
345	Underground Conduit	F	F26-03.02	d/s grade break	Concrete	RATTLESNAKE CANYON CHANNEL	PM089
346	Underground Conduit	F	F27-02.01	begin RCB to 36" RCP	Concrete	HICKS CANYON CHANNEL	PM090
346	Underground Conduit	F	F27-02.02	36" RCP to d/s transition	Concrete	HICKS CANYON CHANNEL	PM090
346	Underground Conduit	F	F27-03.02	24" RCP to 24" RCP	Concrete	HICKS CANYON CHANNEL	PM090
346	Underground Conduit	F	F27-03.03	24" RCP to grade break (@ Central Park Ave)	Concrete	HICKS CANYON CHANNEL	PM090
346	Underground Conduit	F	F27-03.04	grade break to 36" RCP	Concrete	HICKS CANYON CHANNEL	PM090
346	Underground Conduit	F	F27-03.05	36" RCP to 36" RCP	Concrete	HICKS CANYON CHANNEL	PM090
346	Underground Conduit	F	F27-03.07	u/s grade break to d/s grade break	Concrete	HICKS CANYON CHANNEL	PM090
224	Underground Conduit	G	G02-01.01	begin pipe to grade change	Riprap	EAST COSTA MESA CHANNEL	PD206
224	Underground Conduit	G	G02-01.02	grade change to grade change	Concrete	EAST COSTA MESA CHANNEL	PD206
224	Underground Conduit	G	G02-01.03	grade change to grade change	Earth	EAST COSTA MESA CHANNEL	PD206
224	Underground Conduit	G	G02-01.04	grade change to d/s manhole	Riprap	EAST COSTA MESA CHANNEL	PD206
232	Underground Conduit	I	I02-41.01	RCB Culvert (begin to grade break)	Riprap	LAGUNA CANYON CHANNEL	PD211
232	Underground Conduit	I	I02-41.02	RCB Culvert (grade break to grade break)	Concrete	LAGUNA CANYON CHANNEL	PD211
232	Underground Conduit	I	I02-41.03	RCB Culvert (grade break to end)	Riprap	LAGUNA CANYON CHANNEL	PD211
232	Underground Conduit	I	I02-43	RCB Culvert	Riprap	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-44	u/s RCB Culvert to d/s RCB Culvert	Earth	LAGUNA CANYON CHANNEL	PD211
232	Underground Conduit	I	I02-45	RCB Culvert	Earth	LAGUNA CANYON CHANNEL	PD211
232	Concrete-Lined	I	I02-46	u/s RCB Culvert to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD212
232	Underground Conduit	I	I02-47	RCB Culvert	Concrete/Earth	LAGUNA CANYON CHANNEL	PD212
232	Concrete-Lined	I	I02-48.01	u/s RCB Culvert to grade break	Concrete/Earth	LAGUNA CANYON CHANNEL	PD212
232	Concrete-Lined	I	I02-48.02	grade break to grade break	Concrete/Earth	LAGUNA CANYON CHANNEL	PD212
232	Concrete-Lined	I	I02-48.03	grade break to d/s RCB Culvert	Concrete/Earth	LAGUNA CANYON CHANNEL	PD212
234	Concrete Soft Base	J	J01-20.01	u/s San Diego Freeway to d/s drop structure	Concrete/Earth	ALISO CREEK CHANNEL	PM094
234	Concrete Soft Base	J	J01-20.02	u/s drop structure to d/s drop structure	Concrete/Earth	ALISO CREEK CHANNEL	PM094
234	Concrete Soft Base	J	J01-20.04	us drop structure to 42" RCP	Concrete/Earth	ALISO CREEK CHANNEL	PM094
234	Concrete Soft Base	J	J01-20.03	u/s drop structure to d/s drop structure	Conc Soft Base	ALISO CREEK CHANNEL	PM094
234	Concrete Soft Base	J	J01-20.05	42" RCP to d/s drop structure	Concrete/Earth	ALISO CREEK CHANNEL	PM094
234	Concrete Soft Base	J	J01-20.06	u/s drop structure to 48" RCP	Steel/Earth	ALISO CREEK CHANNEL	PM094
234	Concrete Soft Base	J	J01-20.07	48" RCP to d/s drop structure	Steel/Earth	ALISO CREEK CHANNEL	PD217
234	Concrete Soft Base	J	J01-20.08	u/s drop structure to	Steel/Earth	ALISO CREEK CHANNEL	PD217
234	Concrete Soft Base	J	J01-21		Steel/Earth	ALISO CREEK CHANNEL	PD217
234	Concrete-Lined	J	J01-29.01	u/s A.T.&S.F. R.R. to (El Toro Basin J01B01)	Steel/Earth	ALISO CREEK CHANNEL	PM095
234	Concrete-Lined	J	J01-29.02	d/s transition (El Toro Retarding Basin)	Steel/Earth	ALISO CREEK CHANNEL	PM095
234	Concrete-Lined	J	J01-31	Jeronimo Road Bridge	Riprap	ALISO CREEK CHANNEL	PM095
234	Concrete-Lined	J	J01-32	u/s Jeronimo to	Riprap	ALISO CREEK CHANNEL	PM095

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
234	Concrete-Lined	J	J01-33	d/s 2nd Street	Soil Cement	ALISO CREEK CHANNEL	PM095
234	Concrete-Lined	J	J01-34.01	2nd Street Bridge	Earth	ALISO CREEK CHANNEL	PM095
234	Concrete-Lined	J	J01-34.02	2nd Street Bridge	Steel/Earth	ALISO CREEK CHANNEL	PM095
234	Concrete-Lined	J	J01-35	Natural Watercourse:u/s 2nd Street to	Steel/Earth	ALISO CREEK CHANNEL	PM095
234	Riprap Channel	J	J01-36.01	Natural Watercourse	Concrete/Earth	ALISO CREEK CHANNEL	PM095
234	Riprap Channel	J	J01-36.02	Natural Watercourse	Concrete/Earth	ALISO CREEK CHANNEL	PM095
234	Natural Watercourse	J	J01-41	Natural Watercourse u/s Creekside to d/s El Toro	Concrete/Earth	ALISO CREEK CHANNEL	PD218
234	Riprap Channel	J	J01-42.01	begin Rip-Rap protection to grade break	Concrete/Earth	ALISO CREEK CHANNEL	PD218
234	Riprap Channel	J	J01-42.02	grade break to end Rip-Rap protection	Riprap	ALISO CREEK CHANNEL	PD218
234	Underground Conduit	J	J01-43	El Toro Road Crossing	Earth	ALISO CREEK CHANNEL	PD218
234	Riprap Channel	J	J01-44	u/s El Toro to	Riprap	ALISO CREEK CHANNEL	PM096
234	Riprap Channel	J	J01-45	d/s Normandie	Riprap	ALISO CREEK CHANNEL	PM096
234	Riprap Channel	J	J01-46	Normandie Drive Bridge	Concrete	ALISO CREEK CHANNEL	PM096
234	Riprap Channel	J	J01-47	u/s Normandie to	Concrete	ALISO CREEK CHANNEL	PM096
234	Riprap Channel	J	J01-49.02	rip rap channel section	Earth	ALISO CREEK CHANNEL	PM096
244	Underground Conduit	K	K01-01.01	u/s Pacific Ocean confluence to grade break	Concrete	SALT CREEK CHANNEL	PD230
246	Concrete Soft Base	L	L01-01.05		Concrete	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-01.06	grade break	Concrete	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-01.07	grade break to	Concrete	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-01.08		Concrete	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-01.09		Concrete	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-01.10		Concrete	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-02	d/s Stonehill	Concrete	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-03	Stonehill Drive Bridge	Concrete	SAN JUAN CREEK CHANNEL	PD232
246	Concrete Soft Base	L	L01-04.01	u/s Stonehill to	Concrete	SAN JUAN CREEK CHANNEL	PD233
246	Concrete Soft Base	L	L01-04.02		Concrete	SAN JUAN CREEK CHANNEL	PD233
246	Concrete Soft Base	L	L01-04.03		Concrete	SAN JUAN CREEK CHANNEL	PD233
246	Concrete Soft Base	L	L01-05.01	to grade break	Concrete	SAN JUAN CREEK CHANNEL	PD233
246	Sheetpile Soft Base	L	L01-09	A.T.&S.F. R.R. Bridge	Concrete	SAN JUAN CREEK CHANNEL	PM100
246	Sheetpile Soft Base	L	L01-10	u/s A.T.&S.F. R.R. to d/s Camino Capistrano	Concrete	SAN JUAN CREEK CHANNEL	PM100
246	Sheetpile Soft Base	L	L01-11	Camino Capistrano Bridge	Concrete	SAN JUAN CREEK CHANNEL	PM100
246	Sheetpile Soft Base	L	L01-12.01	u/s Camino Capistrano to grade break	Concrete	SAN JUAN CREEK CHANNEL	PD234
246	Sheetpile Soft Base	L	L01-12.02	grade break to d/s San Diego Freeway	Concrete	SAN JUAN CREEK CHANNEL	PD234
246	Riprap Channel	L	L01-13	u/s La Novia to	Concrete	SAN JUAN CREEK CHANNEL	PD234
246	Concrete Soft Base	L	L01-14	unnamed creek u/s La Novia	Concrete	SAN JUAN CREEK CHANNEL	PM101
246	Natural Watercourse	L	L01-15.01	unnamed creek to grade break	Concrete	SAN JUAN CREEK CHANNEL	PM101
246	Natural Watercourse	L	L01-15.02	grade break to grade break	Concrete	SAN JUAN CREEK CHANNEL	PM101
250	Sheetpile Soft Base	L	L02-01.01	u/s San Juan Creek confluence to invert stabilize*	Concrete	TRABUCO CREEK CHANNEL	PD235
250	Sheetpile Soft Base	L	L02-01.02	invert stabilizer #1 to d/s invert stabilizer #2	Concrete	TRABUCO CREEK CHANNEL	PD235
250	Concrete Soft Base	L	L02-03.06	invert stabilizer #5	Concrete	TRABUCO CREEK CHANNEL	PD236
250	Concrete Soft Base	L	L02-03.07	u/s invert stabilizer #5 to	Concrete	TRABUCO CREEK CHANNEL	PD236
250	Concrete Soft Base	L	L02-03.08	d/s east bank curve	Concrete	TRABUCO CREEK CHANNEL	PD236
250	Earth Channel	L	L02-04.02	u/s east bank curve to end const	Concrete	TRABUCO CREEK CHANNEL	PD236
243	Earth Channel	J	J07-01	u/s Aliso Creek channel confluence to end rip-rap	Concrete	ENGLISH CANYON CHANNEL	PD227
243	Riprap Channel	J	J07-02	begin rock slope protection to d/s RCB Culvert	Concrete	ENGLISH CANYON CHANNEL	PD227
243	Underground Conduit	J	J07-03	RCB Culvert	Concrete	ENGLISH CANYON CHANNEL	PD227
243	Riprap Channel	J	J07-04.01	u/s RCB Culvert to	Concrete	ENGLISH CANYON CHANNEL	PD227
254	Concrete-Lined	L	L03-06.01	u/s Crean Ranch Bridge to grade break	Concrete	OSO CREEK CHANNEL	PD240
254	Concrete-Lined	L	L03-06.03	grade break to grade break	Concrete	OSO CREEK CHANNEL	PD240

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
268	Underground Conduit	M	M02-16	RCB Culvert	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM120
268	Earth Channel	M	M02-17	u/s RCB Culvert to d/s Calle Frontera	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM120
268	Underground Conduit	M	M02-18	Calle Frontera RCB Culvert (to d/s transition)	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM120
268	Underground Conduit	M	M02-24	u/s transition to d/s inlet structure	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM121
268	Underground Conduit	M	M02-23	u/s transition to d/s transition	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM121
268	Underground Conduit	M	M02-22.05	inlets and grade break to d/s transition (@ Aveni*	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM121
268	Underground Conduit	M	M02-22.04	inlets grade break to inlets and grade break	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM121
268	Underground Conduit	M	M02-22.03	inlets to inlets and grade break	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM121
268	Underground Conduit	M	M02-22.02	inlets to inlets	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM121
268	Underground Conduit	M	M02-21.03	grade break to grade break (@ Camino Vera Cruz)	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM121
268	Underground Conduit	M	M02-21.02	grade break to grade break (@ Camino Vera Cruz)	Concrete	SEGUNDA DESHECHA CANADA CHANNEL	PM121
0	Underground Conduit	F	F07P30-03	RCP	Concrete	NO NAME	-9999
113	Concrete-Lined	C	C04-58	u/s Mallard Drive to d/s Garden Grove Fwy (SR-22)	Concrete	WESTMINSTER CHANNEL	PD078
238	Concrete-Lined	J	J03-01.01	d/s Sulphur Creek Reservoir to grade break	Concrete	SULPHUR CREEK CHANNEL	PD220
342	Underground Conduit	F	F16-18.02	u/s transition to d/s transition	Concrete	MARSHBURN CHANNEL	PM076
181	Underground Conduit	F	F06S02-05	to d/s Harvard Ave	Concrete	VALENCIA STORM CHANNEL	-9999
188	Underground Conduit	F	F07S01-27	d/s Newport Ave	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-23	d/s La Colina Dr	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-26	to Grade Break	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-08	Del Rey Dr	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
113	Underground Conduit	C	C04-32	Beach Blvd RCB Culverts	Concrete	WESTMINSTER CHANNEL	PD076
115	Earth Channel	C	C05-26	u/s Beach Blvd Culverts to d/s Woodruff St Culver*	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD082
115	Underground Conduit	C	C05-71	u/s Garden Grove Blvd to d/s Aspenwood Lane	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
68	Concrete-Lined	A	A01-01	u/s North Fork to d/s Valley View	Concrete	COYOTE CREEK CHANNEL	PM001
68	Concrete-Lined	A	A01-02	Valley View Bridge	Concrete	COYOTE CREEK CHANNEL	PM001
68	Concrete-Lined	A	A01-03.01	u/s Valley View to grade change	Concrete	COYOTE CREEK CHANNEL	PM001
68	Concrete-Lined	A	A01-03.02	grade change to d/s transition	Concrete	COYOTE CREEK CHANNEL	PM001
68	Concrete-Lined	A	A01-03.03	u/s transition to d/s Artesia	Concrete	COYOTE CREEK CHANNEL	PD001
68	Concrete-Lined	A	A01-04	Artesia Blvd Bridge	Concrete	COYOTE CREEK CHANNEL	PD001
68	Concrete-Lined	A	A01-06	S.P.R.R. Bridge	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-07.01	u/s S.P.R.R. to d/s Firestone (S)	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-07.02	Firestone (S) Blvd Bridge	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-08	Santa Ana Freeway Bridge	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-07.03	u/s Firestone (S) to d/s Santa Ana Freeway	Concrete	COYOTE CREEK CHANNEL	PM002
68	Concrete-Lined	A	A01-09.01	u/s Santa Ana Freeway to d/s Firestone (N)	Concrete	COYOTE CREEK CHANNEL	PM002
73	Concrete-Lined	A	A02-02	Rostrata Ave Bridge	Concrete	BREA CREEK CHANNEL	PM004
73	Concrete-Lined	A	A02-03.01	u/s Rostrata to grade break	Concrete	BREA CREEK CHANNEL	PM004
73	Concrete-Lined	A	A02-03.02	u/s grade break to d/s Western Ave	Concrete	BREA CREEK CHANNEL	PM004
73	Concrete-Lined	A	A02-04	Western Ave Bridge	Riprap	BREA CREEK CHANNEL	PM004
73	Concrete-Lined	A	A02-05.01	u/s Western to grade break	Concrete	BREA CREEK CHANNEL	PM004
73	Concrete-Lined	A	A02-05.02	grade break to grade break	Concrete	BREA CREEK CHANNEL	PM004
73	Concrete-Lined	A	A02-06	to d/s Beach Blvd	Riprap	BREA CREEK CHANNEL	PD011
73	Concrete-Lined	A	A02-07	Beach Blvd Crossing	Concrete	BREA CREEK CHANNEL	PD011
73	Concrete-Lined	A	A02-08	u/s Beach to	Riprap	BREA CREEK CHANNEL	PD011
73	Concrete-Lined	A	A02-09	d/s Darlington	Riprap	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-10	Darlington Ave Bridge	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-11.01	u/s Darlington to d/s transition	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-17	Bridgeport Dr Bridge	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-18	u/s Bridgeport to	Concrete	BREA CREEK CHANNEL	PM005

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
73	Concrete-Lined	A	A02-19	d/s Burning Tree Road	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-20	Burning Tree Road Bridge	Concrete	BREA CREEK CHANNEL	PM006
73	Concrete-Lined	A	A02-21.01	u/s Burning Tree Road to d/s transition	Concrete	BREA CREEK CHANNEL	PM006
73	Concrete-Lined	A	A02-21.02	u/s transition to d/s Gilbert	Concrete	BREA CREEK CHANNEL	PM006
73	Concrete-Lined	A	A02-22	Gilbert Street Bridge	Concrete	BREA CREEK CHANNEL	PM006
73	Concrete-Lined	A	A02-23.01	u/s Gilbert to d/s transition	Concrete	BREA CREEK CHANNEL	PM006
73	Concrete-Lined	A	A02-23.02	u/s transition to d/s Crossroads	Earth	BREA CREEK CHANNEL	PM006
73	Concrete-Lined	A	A02-25	u/s Crossroad to d/s transition	Earth	BREA CREEK CHANNEL	PM006
73	Concrete-Lined	A	A02-24	Crossroads Way Bridge	Earth	BREA CREEK CHANNEL	PM006
73	Concrete-Lined	A	A02-26	u/s transition to d/s U.P.R.R.	Concrete	BREA CREEK CHANNEL	PM006
73	Concrete-Lined	A	A02-36.02	d/s Drake	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-37	Drake Ave area	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-38	u/s Drake to d/s Richman	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-39	Richman Ave Bridge	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-40	u/s Richman to d/s Ford	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-41	Ford Ave Bridge	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-42	u/s Ford to d/s Highland	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-43	Highland Ave Bridge	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-44	u/s Highland to	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-45	d/s Malden	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-46	Malden Ave Bridge	Concrete	BREA CREEK CHANNEL	PD013
73	Concrete-Lined	A	A02-47	u/s Malden to	Concrete	BREA CREEK CHANNEL	PD014
73	Concrete-Lined	A	A02-48	grade break	Concrete	BREA CREEK CHANNEL	PD014
227	Underground Conduit	G	G03P01-02	Grade Break to Del Mar Ave.	Concrete	COSTA MESA STORM DRAIN	-9999
246	Natural Watercourse	L	L01-12.04	Natural Watercourse d/s San Diego Freeway to 1500*	Concrete	SAN JUAN CREEK CHANNEL	PD234
78	Concrete-Lined	A	A04-12.01	u/s Lambert to Memory Garden Channel (A01S04) con*	Concrete	BREA CANYON CHANNEL	PM011
83	Underground Conduit	B	B01-36	RCB Culvert under Apartments	Concrete	CARBON CREEK CHANNEL	PM018
83	Concrete-Lined	B	B01-48	Chippewa Street Bridge	Concrete	CARBON CREEK CHANNEL	PD042
83	Riprap Channel	B	B01-49.01	u/s Chippewa to d/s transition	Concrete	CARBON CREEK CHANNEL	PD042
83	Riprap Channel	B	B01-49.02	u/s transtition to d/s Euclid	Earth	CARBON CREEK CHANNEL	PD042
83	Concrete-Lined	B	B01-50	Euclid Street	Concrete	CARBON CREEK CHANNEL	PD042
83	Riprap Channel	B	B01-51	u/s Euclid to d/s Loara Street	Earth	CARBON CREEK CHANNEL	PD042
90	Underground Conduit	B	B02-04	Crescent Ave RCB Culvert	Earth	MOODY CREEK CHANNEL	PD047
90	Concrete-Lined	B	B02-06	S.P.R.R. Bridge (Dairyland Storm Channel Confluen*	Earth	MOODY CREEK CHANNEL	PD048
90	Concrete-Lined	B	B02-07	u/s S.P.R.R. brdige to d/s Moody Street	Concrete	MOODY CREEK CHANNEL	PD049
90	Underground Conduit	B	B02-08	Moody Street RCB Culvert	Earth	MOODY CREEK CHANNEL	PD049
90	Concrete-Lined	B	B02-09.01	u/s Moody to 36" RCP	Concrete	MOODY CREEK CHANNEL	PD049
90	Concrete-Lined	B	B02-09.02	36" RCP to ramp	Concrete	MOODY CREEK CHANNEL	PD049
90	Underground Conduit	B	B02-10	Walker Street RCB Culvert	Concrete	MOODY CREEK CHANNEL	PD049
90	Concrete-Lined	B	B02-09.03	ramp to d/s Walker Street	Earth	MOODY CREEK CHANNEL	PD049
90	Concrete-Lined	B	B02-11.01	u/s Walker to d/s transition	Concrete	MOODY CREEK CHANNEL	PD049
93	Earth Channel	C	C01-01	u/s Los Alamitos Basin to Federal Storm Drain	Concrete	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-02.01	Federal Storm Channel to d/s transition	Concrete	LOS ALAMITOS CHANNEL	PD050
93	Earth Channel	C	C01-02.02	transition	Concrete	LOS ALAMITOS CHANNEL	PD050
103	Underground Conduit	C	C03-07	Wetminster Ave RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD060
103	Concrete-Lined	C	C03-08.02	Grade Break	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD061
103	Concrete-Lined	C	C03-09.02	u/s San Diego Freeway to d/s Springdale Street	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD061
103	Underground Conduit	C	C03-09.03	Springdale Street/Sioux Road RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD061
103	Concrete-Lined	C	C03-09.04	u/s Sioux Road	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD061

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
103	Concrete-Lined	C	C03-09.05		Concrete	ANAHEIM-BARBER CITY CHANNEL	PD061
103	Concrete-Lined	C	C03-09.06	to u/s Sioux Road	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD061
103	Concrete-Lined	C	C03-10.02	grade break to d/s Edwards Street	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD061
103	Underground Conduit	C	C03-11	Edwards Street RCB Culvert	Earth	ANAHEIM-BARBER CITY CHANNEL	PD061
103	Underground Conduit	C	C03-21	Western Ave RCB Culvert	Earth	ANAHEIM-BARBER CITY CHANNEL	PD062
103	Concrete-Lined	C	C03-22	u/s Western Ave to d/s S.P.R.R. Crossing	Earth	ANAHEIM-BARBER CITY CHANNEL	PD062
103	Concrete-Lined	C	C03-23	S.P.R.R Crossing Culvert	Earth	ANAHEIM-BARBER CITY CHANNEL	PD063
103	Concrete-Lined	C	C03-24	u/s S.P.R.R. to d/s Lampson Ave	Earth	ANAHEIM-BARBER CITY CHANNEL	PD063
103	Underground Conduit	C	C03-25	Lampson Ave RCB Culvert	Earth	ANAHEIM-BARBER CITY CHANNEL	PD064
103	Concrete-Lined	C	C03-26	u/s Lampson Ave to d/s Beach Blvd	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD064
103	Underground Conduit	C	C03-27	Beach Blvd RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD064
103	Concrete-Lined	C	C03-28.01	u/s Beach Blvd to Grade Break	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD064
103	Concrete-Lined	C	C03-28.02	Grade Break to d/s Chapman Ave	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD064
103	Underground Conduit	C	C03-29	Chapman Ave RCB Culvert	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD065
103	Concrete-Lined	C	C03-30	u/s Chapman Ave to d/s Dale St	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD065
113	Earth Channel	C	C04-07	u/s Vehicle Bridge to d/s Pedestrian Bridge	Concrete	WESTMINSTER CHANNEL	PD070
113	Earth Channel	C	C04-08	Pedestrian Bridge	Concrete	WESTMINSTER CHANNEL	PD071
113	Earth Channel	C	C04-09	u/s Pedestrian Bridge to d/s Marina Viking way	Concrete	WESTMINSTER CHANNEL	PD071
113	Earth Channel	C	C04-11.01	u/s Marina Viking Way to	Concrete	WESTMINSTER CHANNEL	PD071
113	Concrete-Lined	C	C04-13.02	curve	Earth	WESTMINSTER CHANNEL	PD071
113	Earth Channel	C	C04-13.03		Earth	WESTMINSTER CHANNEL	PD071
113	Earth Channel	C	C04-13.04		Earth	WESTMINSTER CHANNEL	PD071
113	Earth Channel	C	C04-13.05		Earth	WESTMINSTER CHANNEL	PD071
113	Underground Conduit	C	C04-57	Mallard Drive RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD078
115	Underground Conduit	C	C05-01	Tidegates	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD079
115	Earth Channel	C	C05-10	us/ Warner Ave Bridge to d/s Springdale St Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD081
115	Earth Channel	C	C05-11	Springdale Street Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD081
115	Earth Channel	C	C05-12	u/s Springdale St Bridge to d/s Edwards St Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD081
115	Earth Channel	C	C05-13	Edwards Street Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD081
115	Earth Channel	C	C05-14.01	u/s Edwards St Bridge to 1300' d/s Goldenwest St *	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD081
115	Concrete-Lined	C	C05-14.02	1300' d/s Goldenwest St Bridge to d/s Goldenwest *	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Concrete-Lined	C	C05-15	Goldenwest Street Bridge	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Concrete-Lined	C	C05-16	u/s Goldenwest St to d/s Murdy Channel Confluence	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Concrete-Lined	C	C05-17	Murdy Channel Inlet	Earth/Riprap	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Concrete-Lined	C	C05-18	u/s Murdy Channel Confluence to d/s Gothard St	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PM025
115	Concrete-Lined	C	C05-28	u/s Woodruff St Culverts to d/s I-405 Fwy Culverts	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD083
115	Concrete-Lined	C	C05-30	u/s I-405 Fwy Culverts to d/s Newland Storm Chann*	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD083
115	Concrete-Lined	C	C05-31	Newland Storm Channel Inlet (C05S01)	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD083
115	Concrete-Lined	C	C05-32	u/s Newland Storm Channel (C05S01) Inlet to d/s Q*	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD083
115	Underground Conduit	C	C05-33	Quartz Street Box Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD083
115	Concrete-Lined	C	C05-34.01	u/s Quartz St Culverts to transition's end	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD083
115	Earth Channel	C	C05-34.02	transition's end to d/s Magnolia Street/Edinger IS	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD083
115	Underground Conduit	C	C05-35	Magnolia Street/Edinger Avenue IS Box Culverts	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD083
115	Earth Channel	C	C05-36	u/s Magnolia/Edinger IS Culverts to d/s Bushard S*	Steel/Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD084
115	Underground Conduit	C	C05-37	Bushard Street Box Culverts	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD084
115	Underground Conduit	C	C05-50.02	d/s Hazard/Newhope	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD086
115	Concrete-Lined	C	C05-52	u/s Hazard Newhope to d/s W. Fay	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
127	Earth Channel	C	C06-03.01	u/s Beach Blvd to 96" RCP inlet (near Minoru Lane)	Earth	OCEAN VIEW CHANNEL	PD091
127	Earth Channel	C	C06-03.02	96" RCP inlet (near Minoru Lane) to d/s Newland	Concrete	OCEAN VIEW CHANNEL	PD091

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
127	Underground Conduit	C	C06-04	Newland Street RCB Culverts	Earth	OCEAN VIEW CHANNEL	PD091
127	Earth Channel	C	C06-05	u/s Newland St to d/s Ross St	Concrete	OCEAN VIEW CHANNEL	PD091
127	Underground Conduit	C	C06-06	Ross Street RCB Culverts	Earth	OCEAN VIEW CHANNEL	PD092
127	Concrete-Lined	C	C06-07	u/s Ross St to d/s Asari St	Earth	OCEAN VIEW CHANNEL	PD092
127	Underground Conduit	C	C06-08	Asari Street RCB Culverts	Riprap	OCEAN VIEW CHANNEL	PD092
127	Concrete-Lined	C	C06-09.01	u/s Asari St to d/s covered Channel Section	Riprap	OCEAN VIEW CHANNEL	PD092
127	Concrete-Lined	C	C06-09.02	Covered Channel Section to d/s Magnolia Street	Riprap	OCEAN VIEW CHANNEL	PD092
129	Sheetpile Soft Base	D	D01-05.02	u/s transition to d/s transition	Concrete	HUNTINGTON BEACH CHANNEL	PM026
129	Sheetpile Soft Base	D	D01-05.03	u/s transition to d/s Newland Pump Station	Riprap	HUNTINGTON BEACH CHANNEL	PM026
129	Sheetpile Soft Base	D	D01-05.04	u/s Newland Pump Station to d/s Newland	Concrete	HUNTINGTON BEACH CHANNEL	PM026
129	Underground Conduit	D	D01-06	Newland Street Bridge	Riprap	HUNTINGTON BEACH CHANNEL	PM026
129	Sheetpile Soft Base	D	D01-07.01	u/s Newland to d/s transition	Concrete	HUNTINGTON BEACH CHANNEL	PM026
129	Sheetpile Soft Base	D	D01-07.02	u/s transition to	Riprap	HUNTINGTON BEACH CHANNEL	PM026
129	Sheetpile Soft Base	D	D01-08.01	80'x 12.75' Rect Channel to	Concrete	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-08.02	79.5' x 12.75' Rect Channel to	Riprap	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-08.03	79' x 12.75' Rect Channel to	Riprap	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-08.04	78.5' x 12.75' Rect Channel to	Riprap	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-12.01	u/s Indianapolis to 24" RCP	Riprap	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-12.02	24" RCP to d/s Seabridge	Concrete	HUNTINGTON BEACH CHANNEL	PM027
129	Riprap Channel	D	D01-13	Seabridge Lane Bridge	Concrete	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-14.01	u/s Seabridge Lane to	Concrete	HUNTINGTON BEACH CHANNEL	PM027
129	Sheetpile Soft Base	D	D01-14.03	78 RCP to d/s Pump Station	Concrete	HUNTINGTON BEACH CHANNEL	PM027
131	Earth Channel	D	D02-01.01	Pacific Ocean to d/s transition	Concrete	TALBERT CHANNEL	PM028
131	Concrete Soft Base	D	D02-01.02	u/s transition to d/s Parking Lot bridge	Concrete	TALBERT CHANNEL	PM028
131	Earth Channel	D	D02-02	Parking Lot Bridge	Concrete	TALBERT CHANNEL	PM028
131	Earth Channel	D	D02-03	Pacific Coast Highway Bridge	Concrete	TALBERT CHANNEL	PM028
131	Natural Watercourse	D	D02-04	Unimproved from u/s PCH to d/s Brookhurst	Concrete	TALBERT CHANNEL	PM028
131	Earth Channel	D	D02-05	Brookhurst Street Bridge	Concrete	TALBERT CHANNEL	PM028
132	Earth Channel	D	D03-20	u/s Harbor to d/s AAA drive	Concrete	GREENVILLE-BANNING CHANNEL	PD098
132	Underground Conduit	D	D03-21	AAA drive RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD098
132	Earth Channel	D	D03-22	u/s AAA drive to d/s Sunflower	Concrete	GREENVILLE-BANNING CHANNEL	PD098
136	Riprap Channel	D	D05-10.01	Cabrillo Court to Muir Woods Court	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
136	Riprap Channel	D	D05-10.02	Muir Woods Court to d/s Ward	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
136	Underground Conduit	D	D05-11	Ward Street RCB Culvert	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
136	Riprap Channel	D	D05-12	u/s Ward to d/s San Diego Freeway	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
136	Underground Conduit	D	D05-13	San Diego Freeway RCB Culvert	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
136	Riprap Channel	D	D05-14	u/s San Diego Freeway to d/s Talbert	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
136	Underground Conduit	D	D05-15	Talbert Ave RCB Culvert	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
136	Riprap Channel	D	D05-16.01	u/s Talbert to grade break	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
136	Concrete-Lined	D	D05-16.02	grade break to	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
136	Underground Conduit	D	D05-18.01	Euclid Street RCB Culvert	Concrete	FOUNTAIN VALLEY CHANNEL	PM034
138	Riprap Channel	E	E01-05.01	u/s Victoria/Hamilton to d/s transition	Concrete	SANTA ANA RIVER CHANNEL	PM036
138	Riprap Channel	E	E01-05.03	grade change to d/s transition	Riprap	SANTA ANA RIVER CHANNEL	PM036
138	Riprap Channel	E	E01-05.02	u/s transition to grade change	Riprap	SANTA ANA RIVER CHANNEL	PM036
138	Concrete-Lined	E	E01-06	u/s transition to d/s Adams	Riprap	SANTA ANA RIVER CHANNEL	PM036
138	Concrete-Lined	E	E01-07	Adams Ave Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM036
138	Concrete-Lined	E	E01-08.01	u/s Adams to grade change	Riprap	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.02	grade change to d/s transition	Riprap	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.03	u/s transition to	Riprap	SANTA ANA RIVER CHANNEL	PM037

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
138	Concrete-Lined	E	E01-08.04	transition to 246'(W) X 25'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.05	transition to 246'(W) X 25.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.06	transition to 246'(W) X 26'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.07	transition to 246'(W) X 26.5'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-08.08	transition to 246'(W) X 27'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM037
138	Concrete-Lined	E	E01-21.03	d/s transition	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-21.05	transition to 180'(W) X 19.5'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-21.06	transition to 180'(W) X 19'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-21.07	transition to 180'(W) X 18.5'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-21.08	transition to 180'(W) X 15.5'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-21.09	transition to 180'(W) X 13'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-21.10	transition to 180'(W) X 19'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-21.11	d/s McFadden	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-22	McFadden Ave Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-23.01	u/s McFadden to grade break	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-23.02	grade break to	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-23.03	transition to 180'(W) X 17.5'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-28	Fairview Street Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-29.01	u/s Fairview to	Riprap	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-29.02	transition to 180'(W) X 13'(H) Channel	Riprap	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-29.03	d/s Seventeenth Street	Riprap	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-30	Seventeenth Street Bridge	Riprap	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-31.02	d/s transition	Riprap	SANTA ANA RIVER CHANNEL	PM041
138	Riprap Channel	E	E01-32.02	u/s drop structure to d/s drop structure	Earth	SANTA ANA RIVER CHANNEL	PM042
138	Riprap Channel	E	E01-32.03	u/s drop structure to d/s Memory	Earth	SANTA ANA RIVER CHANNEL	PM042
138	Riprap Channel	E	E01-33	Memory Lane Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM042
138	Riprap Channel	E	E01-42	u/s Orangewood to d/s Orange Freeway	Earth	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-43	Orange Freeway Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-44.01	u/s Orange Freeway to d/s grade stabilizer	Earth	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-44.02	u/s grade stabilizer to d/s O.C.T.A./S.C.R.R.A R.*	Concrete	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-45	O.C.T.A/S.C.R.R.A R.R. Bridge	Concrete/Earth	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-46.01	O.C.T.A/S.C.R.R.A R.R. to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-46.02	u/s grade stabilizer to d/s Katella Ave	Concrete/Earth	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-47	Katella Ave Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM043
138	Riprap Channel	E	E01-48.01	u/s Katella to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-48.02	u/s grade stabilizer to d/s S.P.T. R.R.	Concrete	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-49	S.P.T. R.R. Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM044
138	Riprap Channel	E	E01-54.02	u/s grade stabilizer to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-54.03	u/s grade stabilizer to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-54.04	u/s grade stabilizer to d/s Glassel	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-55	Glassel St Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-56.01	u/s Glassel to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-56.02	u/s grade stabilizer to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-56.03	u/s grade stabilizer to d/s A.T.& S.F. R.R.	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-57	A.T.& S.F. R.R. Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-58.01	u/s A.T. & S.F. R.R. to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-58.02	u/s grade stabilizer to d/s Tustin	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-59	Tustin Ave Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM045
138	Riprap Channel	E	E01-64.03	u/s grade stabilizer to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM047

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
138	Riprap Channel	E	E01-64.04	u/s grade stabilizer to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM047
138	Riprap Channel	E	E01-64.05	u/s grade stabilizer to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM047
138	Riprap Channel	E	E01-64.06	u/s grade stabilizer to d/s Imperial Highway	Concrete	SANTA ANA RIVER CHANNEL	PM047
138	Riprap Channel	E	E01-65	Imperial Highway Bridge	Concrete	SANTA ANA RIVER CHANNEL	PM047
138	Riprap Channel	E	E01-66	u/s Imperial Highway to	Concrete	SANTA ANA RIVER CHANNEL	PM047
138	Riprap Channel	E	E01-67.01	grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM048
138	Riprap Channel	E	E01-67.02	grade stabilizer to d/s grade stabilizer	Concrete	SANTA ANA RIVER CHANNEL	PM048
138	Riprap Channel	E	E01-67.03	u/s grade stabilizer to grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM048
138	Riprap Channel	E	E01-67.04	grade stabilizer to d/s grade stabilizer	Riprap	SANTA ANA RIVER CHANNEL	PM048
145	Earth Channel	E	E04-06	u/s Richfield Channel confluence to d/s Jefferson	Earth	ATWOOD CHANNEL	PD108
145	Underground Conduit	E	E04-07	Jefferson Street RCB Culvert	Soil Cement	ATWOOD CHANNEL	PD108
145	Earth Channel	E	E04-08	u/s Jefferson to d/s A.T. & S.F. R.R.	Soil Cement	ATWOOD CHANNEL	PD108
145	Underground Conduit	E	E04-09	A.T. & S.F. R.R. RCB Culvert	Soil Cement	ATWOOD CHANNEL	PD109
145	Earth Channel	E	E04-10	u/s A.T. & S.F. R.R. to d/s Van Buren	Soil Cement	ATWOOD CHANNEL	PD110
145	Underground Conduit	E	E04-11	Van Buren Street RCB Culvert	Soil Cement	ATWOOD CHANNEL	PD110
145	Concrete Soft Base	E	E04-12	u/s Van Buren to d/s Richfield	Concrete	ATWOOD CHANNEL	PD110
145	Underground Conduit	E	E04-13	Richfield Road RCB Culvert	Concrete	ATWOOD CHANNEL	PD110
145	Concrete Soft Base	E	E04-14	u/s Richfield to d/s Fee Ana	Concrete	ATWOOD CHANNEL	PD110
145	Underground Conduit	E	E04-15	Grandview Ave RCB Culvert	Concrete	ATWOOD CHANNEL	PD110
145	Concrete-Lined	E	E04-21.02	d/s transition to 42" inlet	Concrete	ATWOOD CHANNEL	PD112
145	Concrete-Lined	E	E04-21.03	d/s transition to 42" inlet	Concrete	ATWOOD CHANNEL	PD112
145	Underground Conduit	E	E04-22	Glenview Ave RCB Culvert	Concrete	ATWOOD CHANNEL	PD112
145	Concrete-Lined	E	E04-23.01	u/s Glenview to d/s transition	Concrete	ATWOOD CHANNEL	PD112
145	Concrete-Lined	E	E04-23.02	u/s transition to d/s Brandon Circle	Concrete	ATWOOD CHANNEL	PD112
145	Underground Conduit	E	E04-24	Brandon Circle RCB Culvert	Concrete	ATWOOD CHANNEL	PD112
145	Underground Conduit	E	E04-25	Brandon Circle RCB Culvert	Concrete	ATWOOD CHANNEL	PD112
145	Concrete-Lined	E	E04-26.01	u/s Brandon Circle to grade break	Concrete	ATWOOD CHANNEL	PD112
145	Concrete-Lined	E	E04-26.02	grade break to d/s Short Street	Concrete	ATWOOD CHANNEL	PD112
148	Underground Conduit	E	E05-08	RCB Culvert near Draft Way	Concrete	RICHFIELD CHANNEL	PD115
148	Concrete-Lined	E	E05-09	u/s RCB Culvert to d/s A.T.&S.F. R.R.	Concrete	RICHFIELD CHANNEL	PD115
148	Underground Conduit	E	E05-10	A.T.&S.F. R.R. RCB Culvert	Concrete	RICHFIELD CHANNEL	PD116
148	Concrete-Lined	E	E05-11	u/s A.T.&S.F. R.R. to d/s Van Buren	Concrete	RICHFIELD CHANNEL	PD116
148	Underground Conduit	E	E05-12	Van Buren Street RCB Culvert	Concrete	RICHFIELD CHANNEL	PD117
148	Underground Conduit	E	E05-13	Van Buren Street RCB Culvert	Concrete	RICHFIELD CHANNEL	PD117
148	Concrete-Lined	E	E05-14	u/s Van Buren to d/s RCB Culvert	Concrete	RICHFIELD CHANNEL	PD117
148	Underground Conduit	E	E05-15	RCB Culvert u/s Van Buren	Concrete	RICHFIELD CHANNEL	PD117
148	Concrete-Lined	E	E05-16	u/s RCB Culvert to	Concrete	RICHFIELD CHANNEL	PD117
148	Concrete-Lined	E	E05-17.01	d/s transition	Concrete	RICHFIELD CHANNEL	PD117
148	Concrete-Lined	E	E05-17.02	u/s transition to d/s 72" RCP	Concrete	RICHFIELD CHANNEL	PD117
148	Concrete-Lined	E	E05-17.03	u/s 72" RCP to d/s CMP	Concrete	RICHFIELD CHANNEL	PD117
152	Concrete-Lined	E	E07-18.02	u/s E07S03 confluence to d/s Orange-Olive	Concrete	COLLINS CHANNEL	PD123
152	Underground Conduit	E	E07-19.01	Orange-Olive Road Crossing	Concrete	COLLINS CHANNEL	PD123
156	Earth Channel	E	E08-02	u/s rip-rap section to d/s Bristol	Concrete	SANTIAGO CREEK CHANNEL	PD124
156	Earth Channel	E	E08-03	Bristol Street Bridge	Riprap	SANTIAGO CREEK CHANNEL	PD124
156	Concrete Soft Base	E	E08-07	Rock Creek Bridge	Riprap	SANTIAGO CREEK CHANNEL	PM053
156	Concrete Soft Base	E	E08-06	u/s transition to d/s Rock Creek	Riprap	SANTIAGO CREEK CHANNEL	PM053
156	Concrete Soft Base	E	E08-08.02	drop structure	Concrete	SANTIAGO CREEK CHANNEL	PM053
156	Concrete Soft Base	E	E08-08.01	u/s Rock Creek to d/s drop structure	Concrete	SANTIAGO CREEK CHANNEL	PM053
156	Concrete Soft Base	E	E08-08.03	Tustin Ave Bridge	Concrete	SANTIAGO CREEK CHANNEL	PM053

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
166	Concrete-Lined	E	E10-06.03	u/s rip-rap section to end channel lining	Concrete	FLETCHER CHANNEL	PD128
166	Earth Channel	E	E10-06.04	end channel lining to d/s Fletcher Retarding Basin	Concrete	FLETCHER CHANNEL	PD128
168	Underground Conduit	E	E11-02	Bike Trail RCB Culvert	Concrete	BITTERBUSH CHANNEL	PD129
168	Concrete-Lined	E	E11-03	u/s Bike Trail to d/s Anita Dr	Concrete	BITTERBUSH CHANNEL	PD129
168	Underground Conduit	E	E11-04	Anita Drive RCB Culvert	Steel/Earth	BITTERBUSH CHANNEL	PD129
168	Concrete-Lined	E	E11-05	u/s Anita to d/s Orange Freeway	Concrete	BITTERBUSH CHANNEL	PD129
168	Underground Conduit	E	E11-07	Chapman Ave RCB Culvert	Concrete	BITTERBUSH CHANNEL	PD129
168	Concrete-Lined	E	E11-08.01	u/s Chapman to end covered portion	Concrete	BITTERBUSH CHANNEL	PD129
168	Concrete-Lined	E	E11-08.02	begin open trap channel to d/s Maple Ave	Earth	BITTERBUSH CHANNEL	PD129
168	Underground Conduit	E	E11-09	Maple Ave RCB Culvert	Concrete	BITTERBUSH CHANNEL	PD129
168	Concrete-Lined	E	E11-10.01	Maple Ave to d/s grade break	Concrete	BITTERBUSH CHANNEL	PD129
168	Underground Conduit	E	E11-11	Eckhoff Street RCB Culvert	Riprap	BITTERBUSH CHANNEL	PD129
168	Earth Channel	E	E11-12	u/s Eckhoff to d/s Sycamore	Concrete	BITTERBUSH CHANNEL	PD129
171	Concrete-Lined	F	F01-20.02	u/s 60" RCP to	Concrete	SANTA ANA-DELHI CHANNEL	PM059
171	Concrete-Lined	F	F01-21.01	d/s transition	Concrete	SANTA ANA-DELHI CHANNEL	PD134
171	Concrete-Lined	F	F01-21.02	u/s transition to d/s San Diego Freeway	Concrete	SANTA ANA-DELHI CHANNEL	PD134
171	Underground Conduit	F	F01-22	San Diego Freeway RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PD134
171	Underground Conduit	F	F01-23	u/s San Diego Freeway to d/s Anton	Earth	SANTA ANA-DELHI CHANNEL	PM060
171	Underground Conduit	F	F01-24	Anton to d/s Sunflower	Concrete	SANTA ANA-DELHI CHANNEL	PM060
138	Concrete-Lined	E	E01-15.01	u/s Slater to	Earth	SANTA ANA RIVER CHANNEL	PM038
144	Underground Conduit	E	E03-10.05	24" RCP @ east wall to 24" RCP @ west wall	Concrete	CARBON CANYON CHANNEL	PM051
150	Underground Conduit	E	E06-06.06	grade break (@ Via del Parque) to d/s Dominguez R*	Concrete	ESPERANZA CHANNEL	PD119
150	Concrete-Lined	E	E06-08	u/s Dominguez Ranch to d/s transitions	Riprap	ESPERANZA CHANNEL	PD120
171	Underground Conduit	F	F01-27	RCB Culvert	Riprap	SANTA ANA-DELHI CHANNEL	PD135
171	Underground Conduit	F	F01-29	Flower Street RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PD135
186	Underground Conduit	F	F07P08-04	Manhole to Grade Break	Riprap	RANCHWOOD STORM DRAIN	-9999
184	Underground Conduit	F	F07P01-06	Manhole to Manhole	Riprap	EAST TUSTIN STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-15	to Laguna Road	Riprap	TUSTIN-NEWPORT STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-08	Upstream of James St.	Riprap	EL MODENA STORM DRAIN	-9999
393	Underground Conduit	C	C04P12-07	From 106' upstream Dorothy Ave to 600' upstream	Riprap	TAFT STORM DRAIN	-9999
198	Underground Conduit	F	F12P03-02	Anglin Lane	Riprap	MALENA STORM DRAIN	-9999
130	Underground Conduit	D	D01P05-03	upstream end	Earth	HUNTINGTON BEACH STORM DRAIN	-9999
130	Underground Conduit	D	D01P05-01	Adams Ave. to downstream transition	Concrete	HUNTINGTON BEACH STORM DRAIN	-9999
409	Underground Conduit	D	D01P06-02	To downstream End of Transition	Earth	ADAMS STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-11	to d/s Bell Ave	Concrete	BARRANCA STORM DRAIN	-9999
121	Concrete-Lined	C	C05S01-05		Earth	NEWLAND STORM CHANNEL	-9999
752	Underground Conduit	F	F25S05-13	d/s Groveland	Earth	NORTHWEST COLLECTOR CHANNEL	-9999
156	Natural Watercourse	E	E08-16.02	Santiago Oaks Park	Concrete	SANTIAGO CREEK CHANNEL	PD127
77	Concrete-Lined	A	A03S03-04	to Next Transition D/S Olin St.	Earth	ASH STORM CHANNEL	-9999
254	Riprap Channel	L	L03-11	u/s transition to	Concrete	OSO CREEK CHANNEL	PD240
254	Underground Conduit	L	L03-03.01	begin RCB to d/s transition	Concrete	OSO CREEK CHANNEL	PM108
254	Underground Conduit	L	L03-03.02	u/s transition to d/s transition	Soil Cement	OSO CREEK CHANNEL	PM108
254	Concrete-Lined	L	L03-19.01	u/s transition to d/s weir (Galivan Retarding Bas*	Soil Cement	OSO CREEK CHANNEL	PD241
254	Concrete-Lined	L	L03-20	A.T.&S.F. R.R. Bridge (to grade change)	Soil Cement	OSO CREEK CHANNEL	PM110
254	Concrete-Lined	L	L03-21	Camino Capistrano Bridge	Soil Cement	OSO CREEK CHANNEL	PM110
254	Concrete-Lined	L	L03-22	u/s Camino Capistrano to d/s transition	Soil Cement	OSO CREEK CHANNEL	PM110
254	Riprap Channel	L	L03-23	u/s transition to d/s transition	Soil Cement	OSO CREEK CHANNEL	PM110
174	Underground Conduit	F	F02-17	RCB Culvert under apartments	Soil Cement	SANTA ANA GARDENS CHANNEL	PD141
174	Underground Conduit	F	F02-18	Edinger Ave RCB Culvert	Soil Cement	SANTA ANA GARDENS CHANNEL	PD141

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
174	Riprap Channel	F	F02-19.02	u/s transition to d/s transition	Soil Cement	SANTA ANA GARDENS CHANNEL	PD142
176	Earth Channel	F	F05-12	San Diego Freeway Bridge	PPCB	SAN DIEGO CREEK CHANNEL	PD145
176	Riprap Channel	F	F05-13	u/s San Diego Freeway to u/s Lane Channel Conflue*	PPCB	SAN DIEGO CREEK CHANNEL	PD145
176	Riprap Channel	F	F05-14	u/s Lane Channel confluence to d/s Coronado	PPCB	SAN DIEGO CREEK CHANNEL	PD145
176	Riprap Channel	F	F05-15	Coronado Street Bridge	PPCB	SAN DIEGO CREEK CHANNEL	PD145
176	Riprap Channel	F	F05-16.01	u/s Coronado to d/s Barranca Channel confluence	PPCB	SAN DIEGO CREEK CHANNEL	PD145
176	Riprap Channel	F	F05-16.02	d/s Barranca Channel confluence to d/s Main Street	PPCB	SAN DIEGO CREEK CHANNEL	PD145
176	Riprap Channel	F	F05-17	Main Street Bridge	PPCB	SAN DIEGO CREEK CHANNEL	PD145
176	Riprap Channel	F	F05-18.01	u/s Main Street to d/s transition	Concrete	SAN DIEGO CREEK CHANNEL	PD146
176	Riprap Channel	F	F05-19	u/s transition to d/s Alton	Concrete	SAN DIEGO CREEK CHANNEL	PD146
176	Riprap Channel	F	F05-20	Alton Parkway Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PD147
176	Riprap Channel	F	F05-21.01	u/s Alton to d/s transition	Concrete	SAN DIEGO CREEK CHANNEL	PD147
176	Concrete-Lined	F	F05-30	Lake Road Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PD148
176	Earth Channel	F	F05-31	u/s Lake to d/s Creek	Concrete	SAN DIEGO CREEK CHANNEL	PD148
176	Concrete-Lined	F	F05-32	Creek Road Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PD148
176	Earth Channel	F	F05-33.01	u/s Creek to d/s independent drop structure	Concrete	SAN DIEGO CREEK CHANNEL	PD148
176	Earth Channel	F	F05-33.02	u/s independent drop structure to d/s East Yale	Concrete	SAN DIEGO CREEK CHANNEL	PD148
176	Concrete-Lined	F	F05-34	East Yale Loop Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PD148
176	Earth Channel	F	F05-35	u/s East Yale to d/s Jeffrey	Concrete	SAN DIEGO CREEK CHANNEL	PD148
176	Concrete-Lined	F	F05-36	Jeffrey Road Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-37.01	u/s Jeffrey to d/s transition	Concrete	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-37.02	u/s transition to d/s Valley Oak	Concrete	SAN DIEGO CREEK CHANNEL	PM064
176	Concrete Soft Base	F	F05-45	Laguna Freeway Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PM065
176	Concrete Soft Base	F	F05-46	u/s Laguna Freeway to d/s Road	Concrete	SAN DIEGO CREEK CHANNEL	PM065
176	Concrete Soft Base	F	F05-47	Road Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PM065
176	Concrete Soft Base	F	F05-48.01	u/s Road to	Concrete	SAN DIEGO CREEK CHANNEL	PM065
176	Concrete Soft Base	F	F05-48.02	d/s rip-rap blanket	Concrete	SAN DIEGO CREEK CHANNEL	PM065
176	Concrete Soft Base	F	F05-48.04	u/s Agua Chinon Chl confluence to d/s San Diego Fy	Concrete	SAN DIEGO CREEK CHANNEL	PM065
176	Concrete Soft Base	F	F05-49	San Diego Freeway Bridge	Concrete	SAN DIEGO CREEK CHANNEL	PM065
176	Concrete Soft Base	F	F05-51.04	grade stabilizer to	Concrete	SAN DIEGO CREEK CHANNEL	PM067
176	Concrete Soft Base	F	F05-51.03	grade stabilizer	Concrete	SAN DIEGO CREEK CHANNEL	PM067
176	Concrete Soft Base	F	F05-51.02		Concrete	SAN DIEGO CREEK CHANNEL	PM067
176	Concrete Soft Base	F	F05-51.07		Concrete	SAN DIEGO CREEK CHANNEL	PM067
176	Underground Conduit	F	F05-52.03	84" RCP to grade break	Concrete	SAN DIEGO CREEK CHANNEL	PM067
176	Underground Conduit	F	F05-52.04	grade break to d/s junction structure	Concrete	SAN DIEGO CREEK CHANNEL	PM067
176	Underground Conduit	F	F05-52.06	u/s junction structure to begin debris nose	Concrete	SAN DIEGO CREEK CHANNEL	PM067
176	Underground Conduit	F	F05-52.07	begin debris nose to d/s transition	Concrete	SAN DIEGO CREEK CHANNEL	PM067
179	Riprap Channel	F	F06-09	u/s Edinger to d/s AT&SF RR	Concrete	PETERS CANYON CHANNEL	PD152
179	Concrete-Lined	F	F06-10	AT&SF R.R. Bridge	Concrete	PETERS CANYON CHANNEL	PD153
179	Concrete-Lined	F	F06-11.01	u/s AT&SF Bridge to d/s F07 confluence	Earth	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-12	drop structure d/s Walnut;Transition Structure	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-15.01	Transition to D/S Harvard Ave Bridge	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-13.03	u/s Walnut Ave Bridge past old F07 alignment	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-15.03	U/S Harvard Ave Bridge to end of Transition	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-16.03		Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-16.04		Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete-Lined	F	F06-16.05	drop structure	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete-Lined	F	F06-23.01	u/s Bryan Ave to grade break	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-23.02	grade break to d/s grade break	Concrete	PETERS CANYON CHANNEL	PM069

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
179	Concrete-Lined	F	F06-23.03	u/s grade break to 90" RCP	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-23.04	90" RCP to grade break	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-23.05	grade break to d/s Irvine	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-24	Irvine Blvd Bridge	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-25.01	u/s Irvine to 72" RCP	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-25.02	72" RCP to d/s grade break	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-25.03	u/s grade break to d/s transition	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-25.04	u/s transition to d/s Hicks Canyon Channel conflu*	Concrete	PETERS CANYON CHANNEL	PM069
179	Concrete-Lined	F	F06-25.05	u/s Hicks Canyon Channel confluence to d/s transi*	Concrete	PETERS CANYON CHANNEL	PM069
183	Concrete-Lined	F	F07-01	u/s Peters Canyon Channel confluence to d/s Easte*	Concrete	EL MODENA-IRVINE CHANNEL	PM071
183	Underground Conduit	F	F07-02.01	Eastern Transportation Corridor RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PM071
183	Underground Conduit	F	F07-02.02	Walnut Ave RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PM071
183	Concrete-Lined	F	F07-03.01	u/s Walnut to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PD156
183	Concrete-Lined	F	F07-03.02	u/s transition to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PD156
183	Concrete-Lined	F	F07-03.03	u/s transition to d/s Michelle	Concrete	EL MODENA-IRVINE CHANNEL	PD156
183	Concrete-Lined	F	F07-04	Michelle Dr Bridge	Concrete	EL MODENA-IRVINE CHANNEL	PD156
183	Concrete-Lined	F	F07-05	u/s Michelle to	Concrete	EL MODENA-IRVINE CHANNEL	PD156
183	Concrete-Lined	F	F07-06	d/s Santa Ana Freeway	Concrete	EL MODENA-IRVINE CHANNEL	PD157
183	Concrete-Lined	F	F07-13.02	u/s transition to d/s Tustin Ranch	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Underground Conduit	F	F07-14	Tustin Ranch Road RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-15	u/s Tustin Ranch to d/s Parkcenter	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Underground Conduit	F	F07-16	Parkcenter Lane RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Concrete-Lined	F	F07-17	u/s Parkcenter to d/s Bryan	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Underground Conduit	F	F07-18	Bryan Ave RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD158
183	Underground Conduit	F	F07-19	Bryan Ave RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PM072
183	Concrete-Lined	F	F07-20.01	u/s Bryan to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PM072
183	Concrete-Lined	F	F07-20.02	d/s Redhill Channel confluence to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PM072
183	Concrete-Lined	F	F07-21.01	u/s F07S01 confluence to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PM072
183	Concrete-Lined	F	F07-41.01	u/s grade break to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Earth Channel	F	F07-41.02	u/s transition to d/s Fairhaven	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Underground Conduit	F	F07-42	Fairhaven Ave RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Concrete-Lined	F	F07-43	u/s Fairhaven to d/s Esplanade Street	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Underground Conduit	F	F07-44	Esplanade Street RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PD160
183	Concrete-Lined	F	F07-45.02	grade break to grade break	Concrete	EL MODENA-IRVINE CHANNEL	PM073
183	Concrete-Lined	F	F07-45.03	grade break to grade break	Concrete	EL MODENA-IRVINE CHANNEL	PM073
183	Concrete-Lined	F	F07-45.04	grade break to d/s Jordan	Concrete	EL MODENA-IRVINE CHANNEL	PM073
183	Underground Conduit	F	F07-46	Jordan Ave RCB Culvert	Concrete	EL MODENA-IRVINE CHANNEL	PM073
183	Underground Conduit	F	F07-47.01	u/s Jordan to d/s transition	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Underground Conduit	F	F07-47.03	channel bypass in park (El Modena-Irvine Basin)	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Underground Conduit	F	F07-52.02	u/s grade break to d/s Chapman	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Underground Conduit	F	F07-53.02	u/s transition to end (in Chapman Ave)	Concrete	EL MODENA-IRVINE CHANNEL	PD161
196	Concrete-Lined	F	F11-02.03	grade break to d/s RCB	Earth	SOUTHWEST TUSTIN CHANNEL	PD177
196	Underground Conduit	F	F11-03.01	begin RCB to d/s transition	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Underground Conduit	F	F11-03.02	u/s transition to	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Underground Conduit	F	F11-03.03	d/s grade break	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Underground Conduit	F	F11-03.04	u/s grade break to d/s transition	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Underground Conduit	F	F11-04	u/s transition to d/s Santa Ana Freeway	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
197	Underground Conduit	F	F12-14.01	u/s Seventeenth Street to grade break	Concrete	NORTH TUSTIN CHANNEL	PD181
197	Underground Conduit	F	F12-14.02	grade break to junction structure	Concrete	NORTH TUSTIN CHANNEL	PD181

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
197	Underground Conduit	F	F12-14.03	juction structure to d/s confluence with F12P03	Concrete	NORTH TUSTIN CHANNEL	PD181
197	Underground Conduit	F	F12-14.04	u/s confluence with F12P03 to drop inlet	Concrete	NORTH TUSTIN CHANNEL	PD181
197	Underground Conduit	F	F12-14.05	drop inlet to grade break	Concrete	NORTH TUSTIN CHANNEL	PD181
197	Underground Conduit	F	F12-14.06	grade break to d/s junction structure	Concrete	NORTH TUSTIN CHANNEL	PD181
197	Underground Conduit	F	F12-14.07	u/s junction structure to 36" RCP	Concrete	NORTH TUSTIN CHANNEL	PD181
197	Underground Conduit	F	F12-14.08	36" RCP to d/s confluence (in Loretta Drive)	Concrete	NORTH TUSTIN CHANNEL	PD181
197	Underground Conduit	F	F12-14.09	u/s confluence to d/s confluence (in Leafwood Lan*	Concrete	NORTH TUSTIN CHANNEL	PD181
197	Underground Conduit	F	F12-14.11	juction structure to end (in Yorba Street)	Concrete	NORTH TUSTIN CHANNEL	PD181
199	Concrete-Lined	F	F13-01	u/s El Modena-Irvine Channel confluence to d/s Ri*	Concrete	REDHILL CHANNEL	PD182
199	Concrete-Lined	F	F13-09.01	u/s Rainbow to grade break	Concrete	REDHILL CHANNEL	PD182
199	Concrete-Lined	F	F13-09.02	grade break to d/s La Colina	Concrete	REDHILL CHANNEL	PD182
199	Underground Conduit	F	F13-10	La Colina Drive RCB Culvert	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-11.01	u/s La Colina to grade break	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-11.02	grade break to grade break	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-11.03	grade break to 18" RCP	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-11.04	18" RCP to	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-11.05	d/s RCB	Concrete	REDHILL CHANNEL	PD183
199	Underground Conduit	F	F13-12	RCB Culvert	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-13.01	begin RC channel to	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-13.02	grade break	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-13.03	grade break to d/s Red Hill/Skyline	Concrete	REDHILL CHANNEL	PD183
199	Concrete-Lined	F	F13-19	u/s Pedestrian Bridge to d/s RCB	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-20.01	begin RCB Culvert to d/s transition	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-20.02	u/s transition to grade break	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-20.03	grade break to d/s transition	Soil Cement	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-20.04	u/s transition to d/s confluence	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-21	Arroyo Drive RCB Culvert	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-22.01	u/s transition to d/s transition (in La Loma Drive	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-22.02	u/s transition to grade break (in La Loma Drive)	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-22.03	grade break to d/s transition (in La Loma Drive)	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-22.04	u/s transition to d/s transition (in La Loma Drive	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-22.05	u/s transition to grade break	Concrete	REDHILL CHANNEL	PD184
199	Underground Conduit	F	F13-27.01	u/s transition to manhole	Concrete	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-27.02	manhole to grade break	Concrete	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-27.03	grade break to 36" CMP	Earth	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-27.04	36" CMP to grade break	Concrete	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-27.05	grade break to begin local facility	Concrete	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-28	Local Facility from Kiersey Place to Marcy Drive	Riprap	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-29.01	begin pipe to grade break	Earth	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-29.02	grade break to d/s manhole	Earth	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-29.03	u/s manhole to grade break	Concrete	REDHILL CHANNEL	PD185
199	Underground Conduit	F	F13-29.05	u/s manhole to end pipe	Concrete	REDHILL CHANNEL	PD185
200	Underground Conduit	F	F14-01	Harvard Ave RCB Culvert	Concrete	SAN JOAQUIN CHANNEL	PD186
200	Underground Conduit	F	F14-11.03	juction structure to junction structure	Concrete	SAN JOAQUIN CHANNEL	PD188
200	Underground Conduit	F	F14-11.04	juction structure to d/s transition	Concrete	SAN JOAQUIN CHANNEL	PD188
200	Underground Conduit	F	F14-11.05	u/s transition to d/s transition	Concrete	SAN JOAQUIN CHANNEL	PD188
200	Underground Conduit	F	F14-12.01	u/s transition to juction structure	Concrete	SAN JOAQUIN CHANNEL	PD188
200	Underground Conduit	F	F14-13	d/s Culver to begin Culver Bridge Box Transition	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-14.01	begin Culver Bridge Box Transition to grade break	Concrete	SAN JOAQUIN CHANNEL	PD189

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
200	Underground Conduit	F	F14-14.02	grade break to end Culver Bridge Box Transition	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.01	begin RCB to junction structure	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.16	junction to d/s transition (in Misty Run)	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.01	u/s transition to junction (in Misty Run)	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.02	junction to storm drain inlet (in Misty Run)	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.03	drain inlet to d/s junction (in Misty Run)	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.04	u/s junction to junction (in Misty Run)	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.05	junction structure to grade break (in Misty Run)	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.06	grade break to junction structure (in Misty Run)	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.07	junction structure to d/s manhole	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.08	u/s manhole to grade break	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.09	grade break to d/s manhole	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-16.10	u/s manhole to d/s manhole	Steel	SAN JOAQUIN CHANNEL	PD189
342	Underground Conduit	F	F16-06	Laguna Canyon Road RCB Culvert	Concrete	MARSHBURN CHANNEL	PM075
342	Concrete-Lined	F	F16-07.01	u/s Laguna Canyon Road to d/s transition	Concrete	MARSHBURN CHANNEL	PM075
342	Concrete-Lined	F	F16-08	u/s transition to d/s Railroad	Concrete	MARSHBURN CHANNEL	PD192
342	Concrete-Lined	F	F16-07.02	u/s transition to	Riprap	MARSHBURN CHANNEL	PM075
342	Concrete-Lined	F	F16-10	u/s Santa Ana Freeway to d/s Marine Way	Concrete	MARSHBURN CHANNEL	PD192
342	Underground Conduit	F	F16-11	Marine Way RCB Culvert	Concrete	MARSHBURN CHANNEL	PD193
342	Concrete-Lined	F	F16-12.01	u/s Marine Way to grade break	Concrete	MARSHBURN CHANNEL	PD193
342	Concrete-Lined	F	F16-12.02	grade break to d/s Eastern Transportation Corridor	Concrete	MARSHBURN CHANNEL	PD193
342	Underground Conduit	F	F16-13	Eastern Transportation Corridor RCB Culvert	Concrete	MARSHBURN CHANNEL	PD193
342	Concrete-Lined	F	F16-14.01	u/s Eastern Transportation Corridor to juction st*	Concrete	MARSHBURN CHANNEL	PD193
342	Concrete-Lined	F	F16-14.02	juction structure to low flow crossing	Concrete	MARSHBURN CHANNEL	PD193
342	Concrete-Lined	F	F16-17	Irvine Blvd Bridge	Concrete	MARSHBURN CHANNEL	PD194
204	Underground Conduit	F	F17-01	u/s San Diego Creek confluence to d/s transition	Concrete	BEE CANYON CHANNEL	PM077
204	Underground Conduit	F	F17-02	u/s transition to d/s transition Alton Parkway	Concrete	BEE CANYON CHANNEL	PM077
204	Underground Conduit	F	F17-03	u/s transition to d/s transtion	Concrete	BEE CANYON CHANNEL	PM077
204	Underground Conduit	F	F17-04	modified box section (u/s Gateway)	Concrete	BEE CANYON CHANNEL	PM077
204	Underground Conduit	F	F17-05	u/s Gateway to d/s transition Barranca Pkwy	Concrete	BEE CANYON CHANNEL	PM077
204	Underground Conduit	F	F17-06	u/s transition to d/s transition Irvine Center Dr	Concrete	BEE CANYON CHANNEL	PM077
204	Underground Conduit	F	F17-07.02	grade break to d/s Santa Ana Freeway	Concrete	BEE CANYON CHANNEL	PM077
204	Underground Conduit	F	F17-08.02	60" inlet to grade break	Concrete	BEE CANYON CHANNEL	PM077
204	Underground Conduit	F	F17-08.03	grade break to d/s A.T&S.F. R.R.	Concrete	BEE CANYON CHANNEL	PM077
152	Earth Channel	E	E07-16	u/s Blueridge to d/s Glassel	Concrete	COLLINS CHANNEL	PD123
156	Earth Channel	E	E08-10.01	d/s Costa Mesa Fwy to Costa Mesa Fwy	Concrete	SANTIAGO CREEK CHANNEL	PD126
156	Underground Conduit	E	E08-14	Collins/Prospect Culvert #2 (Pipe Arch)	Concrete	SANTIAGO CREEK CHANNEL	PM054
166	Underground Conduit	E	E10-02	Bike Trail RCB Culvert	Earth	FLETCHER CHANNEL	PD128
166	Concrete-Lined	E	E10-01	begin outlet to d/s bike trail RCB culvert	Concrete	FLETCHER CHANNEL	PD128
166	Underground Conduit	E	E10-03	Bike Trail RCB Culvert	Concrete	FLETCHER CHANNEL	PD128
166	Concrete-Lined	E	E10-04.02	u/s rip-rap section to d/s Batavia	Concrete	FLETCHER CHANNEL	PD128
166	Underground Conduit	E	E10-05	Batavia Street RCB Culvert	Concrete	FLETCHER CHANNEL	PD128
166	Concrete-Lined	E	E10-06.01	u/s Batavia to end channel lining	Riprap	FLETCHER CHANNEL	PD128
166	Earth Channel	E	E10-06.02	end channel lining to d/s rip-rap section	Concrete/Earth	FLETCHER CHANNEL	PD128
412	Underground Conduit	D	D03P02-10	Upstream of Squash Box to Wintergreen Pl.	Earth	MESA VERDE STORM DRAIN	-9999
577	Underground Conduit	G	G00P07-03	to Manhole	Earth	BAYSIDE STORM DRAIN	-9999
113	Underground Conduit	C	C04-19	San Diego Freeway RCB Culverts	Concrete/Earth	WESTMINSTER CHANNEL	PD073
96	Underground Conduit	C	C01S03-05	Ramp's Culvert	Concrete/Earth	MONTECITO STORM CHANNEL	-9999
94	Underground Conduit	C	C01S01-04	Double 6' x 6' RC Box Section	Conc Soft Base	KEMPTON STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
348	Underground Conduit	A	A01P09-04	to Central Ave. (La Habra Ave.)	Concrete	EUCLID STORM DRAIN	-9999
721	Underground Conduit	L	L06-02.01	u/s energy dissipator to 24" RCP (@ Tesoro Creek *	Concrete	CANADA CHIQUITA	PM115
721	Underground Conduit	L	L06-05	Oso Parkway RCB Culvert (to d/s transition)	Concrete	CANADA CHIQUITA	PM115
108	Underground Conduit	C	C03S01-03	Westminister Ave.	Concrete	MILAN STORM DRAIN	-9999
108	Underground Conduit	C	C03S01-13	Vallecito Drive culvert	Concrete	MILAN STORM DRAIN	-9999
108	Concrete-Lined	C	C03S01-07	Upstream to downstream	Concrete	MILAN STORM DRAIN	-9999
108	Concrete-Lined	C	C03S01-01	Confluence w/ C03	Concrete	MILAN STORM DRAIN	-9999
108	Concrete-Lined	C	C03S01-05	To downstream transition	Concrete	MILAN STORM DRAIN	-9999
108	Concrete-Lined	C	C03S01-12	Upstream Milan Street	Concrete	MILAN STORM DRAIN	-9999
108	Concrete-Lined	C	C03S01-14	Upstream Vallecito Drive	Concrete	MILAN STORM DRAIN	-9999
108	Concrete-Lined	C	C03S01-08	Confluence to upstream	Concrete	MILAN STORM DRAIN	-9999
108	Underground Conduit	C	C03S01-10	Milan Street culvert	Concrete	MILAN STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-21	Grade Change to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
147	Underground Conduit	E	E04P01-05	Existing steel pipe through dam str	Concrete	GLENVIEW STORM CHANNEL	-9999
144	Underground Conduit	E	E03-09.03	end construction	Concrete	CARBON CANYON CHANNEL	PM051
144	Underground Conduit	E	E03-10.08	36" RCP @ east wall to d/s Palm	Concrete	CARBON CANYON CHANNEL	PM051
109	Concrete-Lined	C	C03S02-07	From La Pat Place to Siskiyou St.	Concrete	HUMBOLDT STORM CHANNEL	-9999
100	Underground Conduit	C	C02-11	Garden Grove/San Diego Freeway RCB Culvert	Concrete	BOLSA CHICA CHANNEL	PD056
387	Underground Conduit	C	C02S02-07	405 Fwy	Concrete	GARDEN GROVE STORM CHANNEL	-9999
115	Underground Conduit	C	C05-78.02	Chapman Ave	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD090
85	Underground Conduit	B	B01P01-19	to End of Construction on Walnut St.	Concrete	WEST ANAHEIM STORM DRAIN	-9999
218	Underground Conduit	F	F25-20	begin RCB to d/s outlet structure (d/s Trabuco Re*	Concrete	CENTRAL IRVINE CHANNEL	PM088
184	Underground Conduit	F	F07P01-02	to u/s Holt Ave	Concrete	EAST TUSTIN STORM DRAIN	-9999
184	Underground Conduit	F	F07P01-04	u/s H St (Manhole)	Concrete	EAST TUSTIN STORM DRAIN	-9999
184	Underground Conduit	F	F07P01-05	to Manhole	Earth	EAST TUSTIN STORM DRAIN	-9999
184	Underground Conduit	F	F07P01-07	Prospect Ave	Concrete	EAST TUSTIN STORM DRAIN	-9999
551	Underground Conduit	F	F19S02-06	Grade Break	Concrete	LOS ALISOS CHANNEL	-9999
99	Concrete-Lined	C	C01S06-02	Upstream Del Monte Dr.	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-06	Burning Tree Ln. upstream transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-08	Burning Tree Ln., downstream transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-12	St. Andrews downstream transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-10	St. Andrews Drive, St. Andrews u/s transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-18	Cedar Crest Lane, downstream transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-16	Cedar Crest Lane, upstream transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-22	Dorado Drive downstream transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-20	Dorado Drive upstream transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-13	St. Andrews Dr. to Thunderblind d/s end transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-14	St. Andrews Dr. to Thunderblind u/s end transition	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-25	RR Culvert	Concrete	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-24	Upstream triple-CMP	Concrete	FEDERAL STORM CHANNEL	-9999
264	Concrete-Lined	M	M00S07-04	u/s of A.T.& S.F. Track to 48" RCP	Concrete	MARQUITA STORM CHANNEL	-9999
264	Concrete-Lined	M	M00S07-02	at A.T.& S.F. Track	Concrete	MARQUITA STORM CHANNEL	-9999
80	Concrete-Lined	A	A06-06	u/s Imperial Highway to d/s Shopping Center Road	Concrete	LOFTUS DIVERSION CHANNEL	PD028
234	Natural Watercourse	J	J01-06.01	u/s Aliso Creek Road	Concrete	ALISO CREEK CHANNEL	PD216
189	Concrete Soft Base	F	F08-14.05	Rectangular (Section E-E)	Concrete	LANE CHANNEL	PD164
189	Earth Channel	F	F08-12.02	Sky Park East (u/s Armstrong Storm Chnl F08S01)	Concrete	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-12.03	U/S Armstrong (Rectangular Unsymmetrical Channel)	Concrete	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-12.07	U/S of 54" inlet (Section B-B)	Concrete	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-12.08	Transition D/S Red Hill Ave RCB	Concrete	LANE CHANNEL	PD164

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
189	Underground Conduit	F	F08-12.09	Transition D/S Red Hill Ave RCB	Concrete	LANE CHANNEL	PD164
189	Earth Channel	F	F08-12.01	begin earth channel to Sky Park East	Concrete	LANE CHANNEL	PD164
154	Underground Conduit	E	E07S02-04	Wanda Rd./Santiago Blvd. Intersection	Concrete	WANDA STORM CHANNEL	-9999
207	Underground Conduit	F	F20-13.02	grade break to grade break	Concrete	BORREGO CANYON CHANNEL	PM086
207	Concrete-Lined	F	F20-13.06	Transition Structure	Concrete	BORREGO CANYON CHANNEL	PM086
183	Underground Conduit	F	F07-52.01	d/s Washington to d/s grade break	Concrete	EL MODENA-IRVINE CHANNEL	PD161
183	Underground Conduit	F	F07-53.01	d/s Chapman to d/s transition (in Chapman Ave)	Concrete	EL MODENA-IRVINE CHANNEL	PD161
101	Concrete-Lined	C	C02S01-20	Upstream trasition, Western Ave.	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-22	Downstream RR	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-24	BC downstream RR	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-27	End of downstream transition from RR	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-26	Beginning of downstream transition from RR	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-25	EC downstream RR	Concrete	STANTON STORM CHANNEL	-9999
223	Underground Conduit	G	G00P01-06	to Grade Break	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-01	to Grade Break	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-04	to Grade Break	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
577	Underground Conduit	G	G00P07-02	to d/s Carnation Ave	Concrete	BAYSIDE STORM DRAIN	-9999
577	Underground Conduit	G	G00P07-05	to 130' u/s Fernleaf Ave	Concrete	BAYSIDE STORM DRAIN	-9999
92	Underground Conduit	C	C00P02-02	Upstream PCH at Seal Blvd., to 200 ft NW (at 17th)	Concrete	SEAL BEACH STORM DRAIN	-9999
92	Underground Conduit	C	C00P02-03	PCH at 17th to 137' upstream MH	Concrete	SEAL BEACH STORM DRAIN	-9999
92	Underground Conduit	C	C00P02-04	To just upstream 15th and PCH	Concrete	SEAL BEACH STORM DRAIN	-9999
92	Underground Conduit	C	C00P02-05	To midway 13th St. and 14th st. on PCH	Concrete	SEAL BEACH STORM DRAIN	-9999
92	Underground Conduit	C	C00P02-07	Balboa Drive downstream transition	Concrete	SEAL BEACH STORM DRAIN	-9999
92	Underground Conduit	C	C00P02-09	Balboa Drive upstream transition	Concrete	SEAL BEACH STORM DRAIN	-9999
380	Underground Conduit	C	C01P02-02	to end of OCFCD responsibility	Earth	BLOOMFIELD STORM DRAIN	-9999
94	Concrete-Lined	C	C01S01-01	Los Alamitos Channel confluence	Earth	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-03	Downstream transition to upstream transition	Earth	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-05	Downstream RC Box transition to u/s trap channel	Earth	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-06	To upstream I-405 Transition	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-07	Begin Transition to upstream transition/B.C.	Earth	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-08	B.C. to E.C.	Earth	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-10	D/S Transition to Martha Ann Dr. Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-12	Martha Ann Dr. Culvert to U/S Transition	Earth	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-14	D/S Foster Rd. Culvert Transition	Concrete	KEMPTON STORM CHANNEL	-9999
94	Underground Conduit	C	C01S01-15	Transition D/S Foster Rd. Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
94	Underground Conduit	C	C01S01-17	Transition U/S Foster Rd. Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-19	Transition at 27" RCP	Concrete	KEMPTON STORM CHANNEL	-9999
94	Underground Conduit	C	C01S01-21	Transition D/S Silver Fox	Concrete	KEMPTON STORM CHANNEL	-9999
94	Underground Conduit	C	C01S01-23	Transition U/S Silver Fox	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-24	U/S Transition Silver Fox to BC	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-26	From EC to Transition D/S Kempton Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
94	Underground Conduit	C	C01S01-27	Transition D/S Kempton Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-29	Transition U/S Kempton Culvert	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-32	U/S End of Sheet 6 (Tract Boundary)	Concrete	KEMPTON STORM CHANNEL	-9999
94	Concrete-Lined	C	C01S01-33	Tract Boundary to BC	Concrete	KEMPTON STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-06	Trap transition to Martha Ave. Box Culvert	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-05	Transition from Dbl. Box to Trap	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-04	Dbl. Box EC to trap transition, D/S Martha Ave.	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-01	Upstream Los Alamitos Channel to EC	Concrete	ROSSMOOR STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
95	Underground Conduit	C	C01S02-03	BC to EC D/S Martha Ave.	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-08	Martha Ave. Box Culvert, U/S Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-10	Trap transition to Foster Rd. Box Culvert	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-12	Foster Rd. Box Culvert, upstream transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-14	Upstream 24" RCP to PRC	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-17	Shakespeare Drive Box Culvert	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-18	Upstream transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-16	Transition downstream D/S Shakespeare Dr.	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-21	From EC toTransition D/S Weatherby Rd. Culvert	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-20	10' Drainage Easement to EC (Sh. 5)	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-22	D/S Transition to Weatherby Rd. Culvert	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-24	Weatherby Rd. Culvert to U/S Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-26	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-42	Upstream Little Cottonwood Park	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-40	Little Cottonwood Park Entrance	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-33	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-35	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-37	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-39	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-41	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-43	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-45	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-47	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-49	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Underground Conduit	C	C01S02-52	Lexington Dr.	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-51	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
96	Earth Channel	C	C01S03-01	Los Alamitos Channel Junction to U/S end of Riprap	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-02	Upstream of Los Alamitos Channel (at the EC)	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-04	Transition downstream of culvert	Concrete	MONTECITO STORM CHANNEL	-9999
96	Earth Channel	C	C01S03-10	BC to downstream ramp # 10, riprap D/S end	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-06	Upstream transition	Concrete	MONTECITO STORM CHANNEL	-9999
96	Earth Channel	C	C01S03-07	Upstream channel reach from Fwy Ramp to BC	Concrete	MONTECITO STORM CHANNEL	-9999
96	Earth Channel	C	C01S03-09	EC to BC	Riprap	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-12	Transition, D/S from Ramp # 10	Earth/Riprap	MONTECITO STORM CHANNEL	-9999
96	Earth Channel	C	C01S03-11	Riprap section, D/S from Ramp # 10	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-14	Transition, U/S from Ramp # 10	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-16	Transition downstream from I-405	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-18	Transition upstream of I-405	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-20	Transition downstream Martha Ann Drive	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-22	Transition upstream Martha Ann Drive	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-26	Transition upstream Foster Rd.	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-24	Transition downstream Foster Rd.	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-35	Montecito Rd.	Concrete	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-34	EC downstream from Montecito Rd. (Sh. 7)	Earth	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-32	Transition Sheet 6	Earth	MONTECITO STORM CHANNEL	-9999
96	Concrete-Lined	C	C01S03-28	Foster Rd., upstream transition	Conc Soft Base	MONTECITO STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-02	Upstream EC, from confluence	Concrete/Earth	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-03	EC to upstream transition (Sh. 2)	Concrete	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-04	Transition	Concrete	BIXBY STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
97	Concrete-Lined	C	C01S04-05	Transition to upstream BC (Sh. 2)	Conc Soft Base	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-06	BC to EC (Sh. 3)	Conc Soft Base	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-07	EC to BC (Sh. 3)	Concrete/Earth	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-08	BC to EC (Sh. 3)	Concrete/Earth	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-11	EC to transition (Sh. 3)	Concrete/Earth	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-10	BC to EC (Sh. 3)	Earth	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-12	Transition (Sh. 3)	Riprap	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-13	Upstream Sh. 3, Sta 24+78.01	Concrete	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-19	BC to EC	Concrete	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-15	Transition	Concrete	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-16	Transition to BC	Concrete	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-17	BC to EC	Earth/Riprap	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-22	From transition to transition Sh. 5	Earth/Riprap	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-21	Transition Sh.5	Concrete	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-23	Transition	Concrete	BIXBY STORM CHANNEL	-9999
97	Concrete-Lined	C	C01S04-25	BC to EC to Los Alamitos Blvd.	Earth/Riprap	BIXBY STORM CHANNEL	-9999
98	Underground Conduit	C	C01S05-02	Culvert at Fwy Ramp	Concrete	KATELLA STORM CHANNEL	-9999
98	Concrete-Lined	C	C01S05-03	Upstream transition from Fwy Ramp	Concrete	KATELLA STORM CHANNEL	-9999
98	Concrete-Lined	C	C01S05-05	Transition Downstream of Fwy I-605	Earth/Riprap	KATELLA STORM CHANNEL	-9999
98	Underground Conduit	C	C01S05-07	New Stations upstream of Fwy I-605 Ramp	Concrete	KATELLA STORM CHANNEL	-9999
721	Underground Conduit	L	L06-02.03	grade break to junction structure	Concrete	CANADA CHIQUITA	PM115
721	Underground Conduit	L	L06-02.02	24" RCP to grade break (@ Tesoro Creek Road)	Earth/Riprap	CANADA CHIQUITA	PM115
721	Underground Conduit	L	L06-02.04	junction structure to end RCB	Concrete	CANADA CHIQUITA	PM115
720	Concrete-Lined	L	L05-04.01	u/s Horno Basin to d/s transition	Riprap	HORNO CREEK CHANNEL	PD250
720	Underground Conduit	L	L05-05.01	begin RCB to grade break	Riprap	HORNO CREEK CHANNEL	PD250
720	Underground Conduit	L	L05-05.02	grade break to grade break	Concrete	HORNO CREEK CHANNEL	PD250
720	Underground Conduit	L	L05-05.03	grade break to d/s transition	Concrete	HORNO CREEK CHANNEL	PD250
205	Underground Conduit	F	F18-04.03	Santa Ana Freeway RCB Culvert	Concrete	AGUA CHINON CHANNEL	PM079
205	Underground Conduit	F	F18-04.02	Santa Ana Freeway RCB Culvert	Concrete	AGUA CHINON CHANNEL	PM079
83	Underground Conduit	B	B01-71	State College RCB Culvert	Concrete	CARBON CREEK CHANNEL	PD045
83	Underground Conduit	B	B01-73	Placentia Ave RCB Culvert	Earth	CARBON CREEK CHANNEL	PD045
100	Underground Conduit	C	C02-31.01	u/s Plaza Dr to Jonathan Storm Channel confluence	Earth	BOLSA CHICA CHANNEL	PD058
200	Underground Conduit	F	F14-15.07	drain to junction (at West Yale Loop)	Earth	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.06	drain to drain (at West Yale Loop)	Earth	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.08	junction to junction (at Springacre)	Earth	SAN JOAQUIN CHANNEL	PD189
73	Concrete-Lined	A	A02-31.01	u/s Basque to Stephens Avenue	Earth	BREA CREEK CHANNEL	PD012
73	Concrete-Lined	A	A02-31.02	Stephens Avenue to Beverly Drive	Earth	BREA CREEK CHANNEL	PD012
73	Concrete-Lined	A	A02-31.03	Beverly Drive to Wesley Drive	Earth	BREA CREEK CHANNEL	PD012
73	Concrete-Lined	A	A02-31.05	west of Buena Vista Drive e to d/s Euclid	Concrete	BREA CREEK CHANNEL	PD012
144	Underground Conduit	E	E03-09.01	u/s Alta Vista to u/s Newton	Concrete	CARBON CANYON CHANNEL	PM051
100	Earth Channel	C	C02-15.02	Los Alamitos City Bndy to d/s Naval Air Station	Concrete	BOLSA CHICA CHANNEL	PD057
100	Earth Channel	C	C02-17.02	Walker storm drain to d/s Orangewood Storm Drain	Concrete	BOLSA CHICA CHANNEL	PD057
189	Concrete Soft Base	F	F08-12.04	(Rectangular Unsimetrical Channel)	Concrete	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-12.05	Access ramp (Section A-A)	Concrete	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-12.06	End of access ramp to (Section A-A)	Concrete	LANE CHANNEL	PD164
189	Underground Conduit	F	F08-13	Red Hill Ave RCB Culvert	Earth	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-14.01	Transition U/S Red Hill Ave RCB	Metal	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-14.02	Transition U/S Red Hill Ave RCB	Metal	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-14.03	U/S Red Hill Ave RCB (Section D-D)	Riprap	LANE CHANNEL	PD164

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
189	Concrete Soft Base	F	F08-14.04	Transition	Concrete	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-14.06	Rectangular (Section F-F)	Riprap	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-14.07	Transition/ Access Ramp (Section F-F)	Concrete	LANE CHANNEL	PD164
189	Concrete Soft Base	F	F08-14.08	Transition, to Fitch	Concrete	LANE CHANNEL	PD164
192	Underground Conduit	F	F09-16	Transition at u/s Von Karman	Concrete	BARRANCA CHANNEL	PM074
192	Underground Conduit	F	F09-17	Transition to Grade Break d/s Armstrong	Concrete	BARRANCA CHANNEL	PM074
192	Underground Conduit	F	F09-18	Grade breaks d/s and u/s Armstrong	Concrete	BARRANCA CHANNEL	PM074
192	Riprap Channel	F	F09-19	Transition	Concrete	BARRANCA CHANNEL	PM074
192	Underground Conduit	F	F09-15	Barrance Parkway RCB Culvert	Concrete	BARRANCA CHANNEL	PM074
218	Underground Conduit	F	F25-17	d/s access shaft	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Underground Conduit	F	F25-16	u/s transition to (NB Trabuco Undercrossing)	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Concrete-Lined	F	F25-15.02	U/s Transition1 to d/s Transition2	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Concrete-Lined	F	F25-15.01	Remington Bridge to d/s transition1	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Underground Conduit	F	F25-15	Remington Bridge	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Concrete-Lined	F	F25-14.05	U/s Transition2 to Remington Bridge	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Underground Conduit	F	F25-19	u/s transition to Jeffrey	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Concrete-Lined	F	F25-14.03	U/s Transition1 to d/s Transition2	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Underground Conduit	F	F25-13	Yale Bridge	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Concrete-Lined	F	F25-14.01	Yale Bridge to d/s transition1	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Concrete-Lined	F	F25-14.02	Transition1	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Concrete-Lined	F	F25-14.04	Transition2	Concrete	CENTRAL IRVINE CHANNEL	PM088
218	Concrete-Lined	F	F25-10.03	End barrier wall to d/s Transition	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Underground Conduit	F	F25-11	Monroe Bridge	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-12.05	U/s Transition2 to Yale Bridge	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-12.04	Transition2	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-12.01	Monroe Bridge to d/s transition1	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-12.02	Transition1	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-10.05	U/s Transition to Monroe Bridge	Concrete	CENTRAL IRVINE CHANNEL	PD205
218	Concrete-Lined	F	F25-10.04	Transition	Concrete	CENTRAL IRVINE CHANNEL	PD205
224	Concrete-Lined	G	G02-08.02	u/s Nottingham to d/s Mariners	Concrete	EAST COSTA MESA CHANNEL	PD206
258	Concrete-Lined	L	L04-02	begin graded earth channel to d/s Oso Parkway	Concrete	LA PAZ CHANNEL	PD247
258	Concrete-Lined	L	L04-03.01	d/s Oso Parkway to Oso Parkway	Concrete	LA PAZ CHANNEL	PD247
720	Concrete-Lined	L	L05-04.02	u/s Horno Basin to d/s transition	Concrete	HORNO CREEK CHANNEL	PD250
200	Underground Conduit	F	F14-15.02	junction structure to d/s transition	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.03	u/s transition to junction structure	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.04	junction structure to d/s transition	Concrete	SAN JOAQUIN CHANNEL	PD189
200	Underground Conduit	F	F14-15.05	u/s transition to storm drain inlet	Concrete	SAN JOAQUIN CHANNEL	PD189
99	Concrete-Lined	C	C01S06-29	Transition upstream of Seal Beach Blvd.	Concrete	FEDERAL STORM CHANNEL	-9999
99	Earth Channel	C	C01S06-31	Curve, EC	Concrete	FEDERAL STORM CHANNEL	-9999
99	Earth Channel	C	C01S06-32	To BC	Earth	FEDERAL STORM CHANNEL	-9999
99	Earth Channel	C	C01S06-33	Curve, EC	Concrete/Earth	FEDERAL STORM CHANNEL	-9999
99	Earth Channel	C	C01S06-34	To BC	Riprap	FEDERAL STORM CHANNEL	-9999
99	Earth Channel	C	C01S06-35	Curve, EC	Concrete	FEDERAL STORM CHANNEL	-9999
99	Earth Channel	C	C01S06-36	To angle point	Concrete	FEDERAL STORM CHANNEL	-9999
99	Earth Channel	C	C01S06-38	Channel height transition	Concrete	FEDERAL STORM CHANNEL	-9999
121	Underground Conduit	C	C05S01-06	Edinger Ave Culvert	Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-01		Earth	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-02		Earth	NEWLAND STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-45	Transition	Earth	STANTON STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
101	Concrete-Lined	C	C02S01-43	Transition	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-47	Transition	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-50	Upstream Monroe Ave. to downstream the RR	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-49	Monroe Ave.	Riprap	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-53	RR upstream transition	Soil Cement	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-51	RR downstream transition	Earth	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-54	RR upstream transition to BC	Earth	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-55	BC to EC	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-01	Confluence with C02 to BC	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-04	Transition	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-03	EC to Transition	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-06	Upstream transition	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-07	Downstream from Holder Street	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-08	Holder Street Section	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-10	Downstream transition at Knott Ave.	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-12	Transition upstream from Knott Ave.	Riprap	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-14	Wall transition	Riprap	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-16	BC to EC	Riprap	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-18	Downstream transition Western Ave.	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-29	RR upstream transition	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-30	Reach upstream RR	Riprap	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-32	BRC (PRC)	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-31	Reach upstream RR, at BC	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-33	Upstream RR EC	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-34	End of Construction	Concrete	STANTON STORM CHANNEL	-9999
231	Underground Conduit	I	I00P03-12	Grade Break to u/s Glenneyre St.	Concrete	BLUEBIRD STORM DRAIN	-9999
384	Underground Conduit	C	C02P03-02	Transition to BC	Concrete	JONATHAN STORM CHANNEL	-9999
384	Underground Conduit	C	C02P03-01	Junction with C02S03 at Knott Street	Concrete	JONATHAN STORM CHANNEL	-9999
384	Underground Conduit	C	C02P03-03	BC to EC at Knott St.	Concrete	JONATHAN STORM CHANNEL	-9999
384	Underground Conduit	C	C02P03-04	BC to PRC, at Jonathan Ave. intersection	Concrete	JONATHAN STORM CHANNEL	-9999
384	Underground Conduit	C	C02P03-05	PRC to EC, at Jonathan Ave. intersection	Concrete	JONATHAN STORM CHANNEL	-9999
384	Underground Conduit	C	C02P03-11	EC to Transition Structure	Concrete	JONATHAN STORM CHANNEL	-9999
384	Underground Conduit	C	C02P03-07	U/S end Sh. 2 of 11(Sta 73+00) to BC (Sh. 3)	Concrete	JONATHAN STORM CHANNEL	-9999
384	Underground Conduit	C	C02P03-08	BC to EC (Sheet 3)	Concrete	JONATHAN STORM CHANNEL	-9999
384	Underground Conduit	C	C02P03-09	EC to BC	Concrete	JONATHAN STORM CHANNEL	-9999
384	Underground Conduit	C	C02P03-10	BC to EC	Concrete	JONATHAN STORM CHANNEL	-9999
384	Underground Conduit	C	C02P03-12	Transition Structure	Concrete	JONATHAN STORM CHANNEL	-9999
79	Underground Conduit	A	A04S01-01	Beginning construction at Brea Canyon Channel	Concrete	MEMORY GARDEN STORM CHANNEL	-9999
79	Underground Conduit	A	A04S01-03	to Transition Structure	Concrete	MEMORY GARDEN STORM CHANNEL	-9999
79	Underground Conduit	A	A04S01-04	to End Transition	Earth	MEMORY GARDEN STORM CHANNEL	-9999
79	Underground Conduit	A	A04S01-05	to Grade Break	Concrete	MEMORY GARDEN STORM CHANNEL	-9999
79	Underground Conduit	A	A04S01-07	to next Grade Break	Concrete	MEMORY GARDEN STORM CHANNEL	-9999
79	Underground Conduit	A	A04S01-09	to End Transition	Concrete	MEMORY GARDEN STORM CHANNEL	-9999
79	Underground Conduit	A	A04S01-08	to Begin Transition	Concrete	MEMORY GARDEN STORM CHANNEL	-9999
79	Underground Conduit	A	A04S01-11	to End Construction d/s Central Avenue	Concrete	MEMORY GARDEN STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-38	Transition upstream Beach Blvd.	Concrete	STANTON STORM CHANNEL	-9999
101	Concrete-Lined	C	C02S01-42	Downstream RR & Katella	Concrete	STANTON STORM CHANNEL	-9999
227	Underground Conduit	G	G03P01-01	Beginning to Grade Break	Concrete	COSTA MESA STORM DRAIN	-9999
227	Underground Conduit	G	G03P01-03	End	Concrete	COSTA MESA STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
115	Riprap Channel	C	C05-02	u/s Tidegates to d/s Oil Bridge	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD079
252	Riprap Channel	L	L02S02-01	O'Neill Regional Park	Concrete	HICKEY CANYON STORM CHANNEL	-9999
83	Underground Conduit	B	B01-58.01	La Palma Ave RCB Culvert (beg to Citron St)	Concrete	CARBON CREEK CHANNEL	PD043
83	Underground Conduit	B	B01-58.03	Harbor Blvd to Helene St	Concrete	CARBON CREEK CHANNEL	PM020
83	Underground Conduit	B	B01-59.01	Helena St to Anaheim Blvd (La Palma RCB)	Concrete	CARBON CREEK CHANNEL	PM020
100	Underground Conduit	C	C02-31.02	Jonathan Storm Channel confluence to S.P.R.R.	Concrete	BOLSA CHICA CHANNEL	PD059
103	Concrete-Lined	C	C03-34.02	Grade Break	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD065
127	Earth Channel	C	C06-21.02	u/s 48-inch storm drain inlet to d/s Newhope	Concrete	OCEAN VIEW CHANNEL	PD095
128	Earth Channel	C	C07-06	u/s Pedestrian Bridge to 550' west of Graham St	Concrete	SUNSET CHANNEL	PD096
128	Earth Channel	C	C07-07	550' w/o Graham St to 1300' d/s Edinger Ave	Concrete	SUNSET CHANNEL	PD096
145	Concrete-Lined	E	E04-20.04	Glenview Storm Drain (E04P01) begin trap channel t	Concrete	ATWOOD CHANNEL	PD112
145	Concrete-Lined	E	E04-21.01	d/s transition	Concrete	ATWOOD CHANNEL	PD112
148	Underground Conduit	E	E05-34	d/s Imperial Highway	Concrete	RICHFIELD CHANNEL	PD118
176	Riprap Channel	F	F05-18.02	d/s tradition to d/s transition	Concrete	SAN DIEGO CREEK CHANNEL	PD146
176	Concrete Soft Base	F	F05-51.01	u/s Bake Pkwy	Concrete	SAN DIEGO CREEK CHANNEL	PM067
208	Riprap Channel	F	F23-01.01	confluence with San Diego Creek to d/s transition	Concrete	CANADA CHANNEL	PD203
208	Riprap Channel	F	F23-01.02	u/s transition to d/s transition	Concrete	CANADA CHANNEL	PD203
179	Concrete-Lined	F	F06-16.09	transition structure to d/s Santa Ana Freeway	Steel	PETERS CANYON CHANNEL	PD154
207	Concrete-Lined	F	F20-03.03	to grade break	Concrete	BORREGO CANYON CHANNEL	PD200
207	Concrete-Lined	F	F20-03.01	transition to u/s grade break	Concrete	BORREGO CANYON CHANNEL	PD200
207	Concrete-Lined	F	F20-03.04	to grade break	Concrete	BORREGO CANYON CHANNEL	PD200
207	Concrete-Lined	F	F20-03.05	grade break to turnaround lot	Concrete	BORREGO CANYON CHANNEL	PD200
207	Concrete-Lined	F	F20-03.02	transition to u/s grade break	Concrete	BORREGO CANYON CHANNEL	PD200
207	Underground Conduit	F	F20-13.08	u/s baffle structure to d/s transition	Riprap	BORREGO CANYON CHANNEL	PM086
232	Underground Conduit	I	I02-42	u/s RCB Culvert to d/s RCB Culvert	Concrete	LAGUNA CANYON CHANNEL	PD211
234	Concrete-Lined	J	J01-14.01	u/s Laguna Hills Drive to d/s slope transition	Riprap	ALISO CREEK CHANNEL	PM094
234	Concrete-Lined	J	J01-14.03	u/s slope transition section to Laguna Woods bndy	Concrete	ALISO CREEK CHANNEL	PM094
234	Concrete-Lined	J	J01-14.02	slope transition section	Concrete	ALISO CREEK CHANNEL	PM094
578	Underground Conduit	G	G02P01-01	G02 to Irvine Ave	Concrete	IRVINE-BAYCREST STORM DRAIN	-9999
198	Underground Conduit	F	F12P03-00	F12 confluence to Malena Drive	Concrete	MALENA STORM DRAIN	-9999
198	Underground Conduit	F	F12P03-01	Malena Drive	Concrete	MALENA STORM DRAIN	-9999
198	Underground Conduit	F	F12P03-03	Prospect Avenue	Concrete	MALENA STORM DRAIN	-9999
198	Underground Conduit	F	F12P03-05	to Leafwood Lane (manhole)	Concrete	MALENA STORM DRAIN	-9999
198	Underground Conduit	F	F12P03-07	Santa Clara Avenue	Concrete	MALENA STORM DRAIN	-9999
490	Underground Conduit	F	F07SIP12-01	F07 to upstream of railroad	Concrete	WARREN AVE STORM DRAIN	-9999
490	Underground Conduit	F	F07SIP12-02	Upstream of railroad to grade break	Concrete	WARREN AVE STORM DRAIN	-9999
490	Underground Conduit	F	F07SIP12-03	Grade break to manhole	Concrete	WARREN AVE STORM DRAIN	-9999
490	Underground Conduit	F	F07SIP12-04	Manhole to Ehlen Way	Concrete	WARREN AVE STORM DRAIN	-9999
490	Underground Conduit	F	F07SIP12-05	Ehlen Way to grade break	Concrete	WARREN AVE STORM DRAIN	-9999
490	Underground Conduit	F	F07SIP12-07	Manhole to manhole	Concrete	WARREN AVE STORM DRAIN	-9999
490	Underground Conduit	F	F07SIP12-08	Manhole to Vear St.	Concrete	WARREN AVE STORM DRAIN	-9999
490	Underground Conduit	F	F07SIP12-09	Vear St. to end	Concrete	WARREN AVE STORM DRAIN	-9999
119	Underground Conduit	C	C05P21-01	Downstream Chapman, C05 Confluence	Concrete	SPINNAKER STORM DRAIN	-9999
119	Underground Conduit	C	C05P21-02	C05 Confluence to 300' u/s Simmons & Spinnaker	Concrete	SPINNAKER STORM DRAIN	-9999
119	Underground Conduit	C	C05P21-03	Just downstream of Orangewood	Concrete	SPINNAKER STORM DRAIN	-9999
119	Underground Conduit	C	C05P21-04	At Orangewood Ave.	Concrete	SPINNAKER STORM DRAIN	-9999
119	Underground Conduit	C	C05P21-05	Upstream Orangewood	Concrete	SPINNAKER STORM DRAIN	-9999
119	Underground Conduit	C	C05P21-06	Transition downstream Santa Ana Freeway	Concrete	SPINNAKER STORM DRAIN	-9999
119	Underground Conduit	C	C05P21-07	Upstream Santa Ana Freeway	Concrete	SPINNAKER STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
119	Underground Conduit	C	C05P21-12	Upstream Katella	Concrete	SPINNAKER STORM DRAIN	-9999
119	Underground Conduit	C	C05P21-09	At Katella (D/S Transition)	Concrete	SPINNAKER STORM DRAIN	-9999
119	Underground Conduit	C	C05P21-10	At Katella (RC Box)	Concrete	SPINNAKER STORM DRAIN	-9999
119	Underground Conduit	C	C05P21-11	At Katella (U/S Transition)	Concrete	SPINNAKER STORM DRAIN	-9999
401	Underground Conduit	C	C05P22-01	Confluence w/ C05 to Lewis Street	Steel/Earth	HOLIDAY STORM DRAIN	-9999
401	Underground Conduit	C	C05P22-02	Lewis Street downstream transition	Concrete	HOLIDAY STORM DRAIN	-9999
401	Underground Conduit	C	C05P22-03	54 " RCP under Lewis Street	Concrete	HOLIDAY STORM DRAIN	-9999
401	Underground Conduit	C	C05P22-04	Squash Box under Lewis Street	Concrete	HOLIDAY STORM DRAIN	-9999
401	Underground Conduit	C	C05P22-07	Grade break to upstream end	Riprap	HOLIDAY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-01	Upstream Haster Retarding Basin	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-02	BC-EC at Lampson Ave.	Riprap	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-03	Lampson Ave.	Concrete	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-04	Upstream Lampson Ave.	Concrete	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-05	Upstream Lampson Ave. at EC	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-06	PRC	Riprap	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-07	To EC	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-08	EC to BC	Concrete	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-09	PRC	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-10	PRC to EC	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-11	Downstream Manhole	Soil Cement	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-12	Upstream Manhole	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-13	Upstream from Manhole	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-14	To EC	Concrete	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-15	BC and Grade Break	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-16	To BC and Grade Break	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-17	BC and Grade Break	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-20	Upstream end, join City of Anaheim	Earth	OERTLEY STORM DRAIN	-9999
118	Underground Conduit	C	C05P19-19	EC at Chapman	Soil Cement	OERTLEY STORM DRAIN	-9999
98	Underground Conduit	C	C01S05-09	Transition downstream Walnut St.	Concrete	KATELLA STORM CHANNEL	-9999
98	Underground Conduit	C	C01S05-10	Walnut St. RC Box	Concrete	KATELLA STORM CHANNEL	-9999
98	Underground Conduit	C	C01S05-11	u/s Wallingsford Road	Earth	KATELLA STORM CHANNEL	-9999
380	Underground Conduit	C	C01P02-01	to u/s Florvista Street	Earth	BLOOMFIELD STORM DRAIN	-9999
99	Concrete-Lined	C	C01S06-03	Transition upstream Del Monte Dr.	Earth	FEDERAL STORM CHANNEL	-9999
99	Concrete-Lined	C	C01S06-28	Just upstream from Seal Beach Blvd.	Earth	FEDERAL STORM CHANNEL	-9999
147	Underground Conduit	E	E04P01-01	Downstream Junction with E04	Earth	GLENVIEW STORM CHANNEL	-9999
147	Underground Conduit	E	E04P01-03	upstream to downstream	Earth	GLENVIEW STORM CHANNEL	-9999
147	Underground Conduit	E	E04P01-04	Transition, upstream of Orchard Drive	Concrete	GLENVIEW STORM CHANNEL	-9999
522	Underground Conduit	F	F12P11-01	u/s Santa Clara Ave to Rainier Dr.	Concrete	PROSPECT STORM DRAIN	-9999
522	Underground Conduit	F	F12P11-02	to Manhole	Concrete	PROSPECT STORM DRAIN	-9999
522	Underground Conduit	F	F12P11-03	Manhole to Manhole	Concrete	PROSPECT STORM DRAIN	-9999
522	Underground Conduit	F	F12P11-04	to Grade Break	Riprap	PROSPECT STORM DRAIN	-9999
522	Underground Conduit	F	F12P11-05	F07P15 Confluence to Prospect Ave.	Earth	PROSPECT STORM DRAIN	-9999
522	Underground Conduit	F	F12P11-07	d/s Dunas Rd.	Earth	PROSPECT STORM DRAIN	-9999
522	Underground Conduit	F	F12P11-08	Dunas Rd.	Earth	PROSPECT STORM DRAIN	-9999
521	Underground Conduit	F	F12P04-05	to d/s Fairhaven Ave (Junc. Struct.)	Concrete	YORBA STREET STORM DRAIN	-9999
521	Underground Conduit	F	F12P04-04	to Manhole	Concrete	YORBA STREET STORM DRAIN	-9999
521	Underground Conduit	F	F12P04-06	Fairhaven Ave	Concrete	YORBA STREET STORM DRAIN	-9999
521	Underground Conduit	F	F12P04-03	to u/s Rainier Drive	Concrete	YORBA STREET STORM DRAIN	-9999
521	Underground Conduit	F	F12P04-01	u/s Santa Clara Ave to Manhole	Concrete	YORBA STREET STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
520	Underground Conduit	F	F12P02-01	u/s Confluence to F12 to Manhole	Concrete	NORTH TUSTIN STORM DRAIN	-9999
520	Underground Conduit	F	F12P02-02	d/s Norwood Pk to Grade Break	Concrete	NORTH TUSTIN STORM DRAIN	-9999
520	Underground Conduit	F	F12P02-03	d/s Bidelow Park	Earth	NORTH TUSTIN STORM DRAIN	-9999
520	Underground Conduit	F	F12P02-04	to Junction Chamber	Earth	NORTH TUSTIN STORM DRAIN	-9999
749	Underground Conduit	M	M02S02-02	u/s M02 confluence	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-03	Manhole	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-04	Avenida Pico	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-05	Manhole	Concrete	NO NAME	-9999
749	Underground Conduit	M	M02S02-06	Avenida Pico	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-07	Manhole	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-08	Avenida Pico	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-09	Manhole	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-10	u/s Avenida Pico	Earth	NO NAME	-9999
749	Concrete-Lined	M	M02B01-01	Basin	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-12	Manhole	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-11	u/s Basin	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-13	u/s Basin	Earth	NO NAME	-9999
749	Underground Conduit	M	M02S02-14	u/s Basin	Concrete	NO NAME	-9999
749	Underground Conduit	M	M02S02-15	Concrete collar	Concrete	NO NAME	-9999
749	Underground Conduit	M	M02S02-17	Manhole	Concrete	NO NAME	-9999
130	Underground Conduit	D	D01P05-02	Transition	Concrete	HUNTINGTON BEACH STORM DRAIN	-9999
409	Underground Conduit	D	D01P06-06	Upstream within transitions	Concrete	ADAMS STORM DRAIN	-9999
409	Underground Conduit	D	D01P06-05	Transition	Earth	ADAMS STORM DRAIN	-9999
409	Underground Conduit	D	D01P06-04	Within Transitions	Earth	ADAMS STORM DRAIN	-9999
409	Underground Conduit	D	D01P06-03	Transition	Earth	ADAMS STORM DRAIN	-9999
409	Underground Conduit	D	D01P06-01	Upstream of pump station at Adams	Concrete	ADAMS STORM DRAIN	-9999
409	Underground Conduit	D	D01P06-07	Transition	Earth	ADAMS STORM DRAIN	-9999
409	Underground Conduit	D	D01P06-08	Beach Blvd. to upstream MH	Concrete	ADAMS STORM DRAIN	-9999
721	Concrete-Lined	L	L06-04	u/s energy dissipator to d/s RCB	Concrete	CANADA CHIQUITA	PM115
206	Earth Channel	F	F19-21.03	weit to weir	Earth	SERRANO CREEK CHANNEL	PM083
206	Earth Channel	F	F19-21.04	weir to weir	Riprap	SERRANO CREEK CHANNEL	PM083
206	Earth Channel	F	F19-21.05	weir to d/s Dimension	Riprap	SERRANO CREEK CHANNEL	PM083
127	Earth Channel	C	C06-17	Mile Square Park (grass)	Earth	OCEAN VIEW CHANNEL	PD095
127	Concrete-Lined	C	C06-18	Mile Square Park Road Crossing	Concrete	OCEAN VIEW CHANNEL	PD095
127	Earth Channel	C	C06-19	Mile Square Park (grass)	Concrete	OCEAN VIEW CHANNEL	PD095
238	Concrete-Lined	J	J03-01.02	grade break to u/s Rip-Rap outlet	Riprap	SULPHUR CREEK CHANNEL	PD220
241	Earth Channel	J	J04-02	u/s Alicia to d/s side channel	Riprap	NARCO CHANNEL	PD222
241	Underground Conduit	J	J04-01	Alicia Parkway RCB Culvert (CL to u/s end)	Riprap	NARCO CHANNEL	PD222
241	Earth Channel	J	J04-04.02	end concrete slope (d/s La Paz)	Riprap	NARCO CHANNEL	PD222
241	Earth Channel	J	J04-03	u/s side channel to d/s concrete slope	Riprap	NARCO CHANNEL	PD222
241	Earth Channel	J	J04-04.01	u/s transition to	Riprap	NARCO CHANNEL	PD222
155	Underground Conduit	E	E07S03-01	Downstream Junction with E07	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-02	Transition to a RC Channel	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-04	Upstream of Shaffer	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-22	Upstream Tustin Avenue culvert to d/s Highland Ave	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-08	Upstream Transition	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-27	Upstream SR-55 Freeway	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-14	Downstream Transition	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-12	Cambridge Street RC Box	Concrete	BUCKEYE STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
155	Underground Conduit	E	E07S03-15	Upstream Transition to a RCP	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-13	Upstream Transition	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Underground Conduit	E	E07S03-17	Upstream End	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Underground Conduit	E	E07S03-16	Upstream Lincoln Street	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-05	upstream to downstream	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-06	Upstream of Shaffer to RCRC Transition	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-07	RC Rectangular Channel Transition	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-11	Downstream wall transition to RC Box	Earth	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-09	Downstream Cambridge Street, D/S transition	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-10	Downstream Cambridge Street, 30' RC Channel	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-18	Upstream Lincoln St transition to RCP	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-19	Upstream transition to 60-in RCP junction	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-20	Downstream Tustin St culvert	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Underground Conduit	E	E07S03-21	Tustin Avenue culvert	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-25	Upstream Highland to d/s SR-55	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Underground Conduit	E	E07S03-26	Newport Freeway SR-55 Culvert	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Underground Conduit	E	E07S03-28	Meats Avenue culvert	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-29	Upstream Meats Avenue	Concrete	BUCKEYE STORM CHANNEL	-9999
155	Concrete-Lined	E	E07S03-23	Upstream Tustin Avenue culvert to d/s Highland Ave	Concrete	BUCKEYE STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-00	Downstream junction with E07	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-02	Upstream RC Box/ Access Rd.	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-03	Transition to RCC	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-04	Downstream Dirt Road	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-05	Dirt Road RCB	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-06	Grade change/ wall height change	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-07	Upstream Sh. 2 of 7	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-08	To downstream RR crossing	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-09	RR crossing	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-10	at PRC	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-11	upstream to downstream	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-12	Downstream Glassel Street transition	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-13	Glassel Street	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-14	To upstream transition	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-15	To upstream Grade Change	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-16	Grade Change	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-17	Grade Change	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-18	Grade Change	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-19.01	To upstream transition	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-20	To upstream transition	Metal	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-21	Transition	Metal	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-22	upstream to downstream	Metal	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-23	Transition downstream Cambridge St.	Metal	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-24	Cambridge St. Dbl RC Box	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-25	Transition upstream Cambridge St.	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-38	RC Channel	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-27	Transition	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-19.02	Transition	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-28	RC Channel	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-29	Confluence w/ Trap Channel	Concrete	MARLBORO STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
153	Underground Conduit	E	E07S01-30	Transition	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-31	RC Channel	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-32	RC Channel	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-33	RC Channel	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-34	RC Channel	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-35	Transition	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-40	Downstream Tustin Ave.	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-36	RC Channel	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-37	Transition	Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-39		Concrete	MARLBORO STORM CHANNEL	-9999
153	Underground Conduit	E	E07S01-01	Downstream junction with E07	Concrete	MARLBORO STORM CHANNEL	-9999
154	Underground Conduit	E	E07S02-03	Downstream Transition/Junction at Santiago Blvd.	Concrete	WANDA STORM CHANNEL	-9999
154	Underground Conduit	E	E07S02-02	Downstream of Wanda Rd. (Transition)	Concrete	WANDA STORM CHANNEL	-9999
159	Underground Conduit	E	E08P01-01.01	Upstream confluence with E08	Concrete	LA VETA STORM DRAIN	-9999
159	Underground Conduit	E	E08P01-03	Newport Freeway	Concrete	LA VETA STORM DRAIN	-9999
159	Underground Conduit	E	E08P01-02	Downstream Newport Freeway Transition	Concrete	LA VETA STORM DRAIN	-9999
159	Underground Conduit	E	E08P01-04	Upstream Newport Freeway Transition	Concrete	LA VETA STORM DRAIN	-9999
159	Underground Conduit	E	E08P01-05	Upstream Newport Freeway	Concrete	LA VETA STORM DRAIN	-9999
159	Underground Conduit	E	E08P01-01.02	Downstream of ABM Channel	Concrete	LA VETA STORM DRAIN	-9999
71	Underground Conduit	A	A01P13-01	Confluence of A01 to open channel	Concrete	EAST LA HABRA STORM DRAIN	-9999
264	Concrete-Lined	M	M00S07-01	Outlet Structure	Concrete	MARQUITA STORM CHANNEL	-9999
264	Concrete-Lined	M	M00S07-03	u/s of A.T.& S.F. Track	Concrete	MARQUITA STORM CHANNEL	-9999
265	Underground Conduit	M	M00S08-01	Outlet Structure	Concrete	ALESSANDRO STORM CHANNEL	-9999
265	Underground Conduit	M	M00S08-03	Transition Structure	Concrete	ALESSANDRO STORM CHANNEL	-9999
265	Underground Conduit	M	M00S08-04	Ola Vista	Concrete	ALESSANDRO STORM CHANNEL	-9999
265	Underground Conduit	M	M00S08-06	Inlet Structure	Concrete	ALESSANDRO STORM CHANNEL	-9999
267	Underground Conduit	M	M01S01-01	M01 to Transition Structure	Concrete	CASCADITA STORM CHANNEL	-9999
267	Underground Conduit	M	M01S01-02	Transition Structure	Concrete	CASCADITA STORM CHANNEL	-9999
267	Concrete-Lined	M	M01S01-04	Transition Structure	Concrete	CASCADITA STORM CHANNEL	-9999
188	Underground Conduit	B	B01B05-01	RCP	Concrete	CYPRESS STORM CHANNEL	-9999
160	Underground Conduit	E	E08P02-01	Junction w/ E08, Santiago Creek D/S Lincoln Ave.	Concrete	VILLA PARK STORM DRAIN	-9999
160	Underground Conduit	E	E08P02-02	Downstream D/S Lincoln Ave. to D/S Santiago Blvd.	Concrete	VILLA PARK STORM DRAIN	-9999
160	Underground Conduit	E	E08P02-03	U/S Santiago Blvd	Concrete	VILLA PARK STORM DRAIN	-9999
160	Underground Conduit	E	E08P02-04	U/S Santiago Blvd	Concrete	VILLA PARK STORM DRAIN	-9999
160	Underground Conduit	E	E08P02-07	D/S Lemon Ave	Concrete	VILLA PARK STORM DRAIN	-9999
160	Underground Conduit	E	E08P02-06	U/S Serrano Ave.	Concrete	VILLA PARK STORM DRAIN	-9999
161	Underground Conduit	E	E08P03-06		Concrete	CENTER STREET STORM DRAIN	-9999
161	Underground Conduit	E	E08P03-01	Downstream Junction w/ Arch Section	Concrete	CENTER STREET STORM DRAIN	-9999
161	Underground Conduit	E	E08P03-02		Concrete	CENTER STREET STORM DRAIN	-9999
161	Underground Conduit	E	E08P03-03		Concrete	CENTER STREET STORM DRAIN	-9999
161	Underground Conduit	E	E08P03-04		Concrete	CENTER STREET STORM DRAIN	-9999
161	Underground Conduit	E	E08P03-05		Concrete	CENTER STREET STORM DRAIN	-9999
435	Underground Conduit	E	E08P04-03	upstream to downstream	Concrete	MESA DRIVE STORM DRAIN	-9999
435	Underground Conduit	E	E08P04-02	upstream to downstream	Concrete	MESA DRIVE STORM DRAIN	-9999
438	Underground Conduit	E	E08P47-01	Upstream of E08P02	Concrete	LEMON-TAFT STORM DRAIN	-9999
163	Concrete-Lined	E	E08S02-06	Downstream of RC Box-Bridge	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Concrete-Lined	E	E08S02-05	Upstream EC	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Concrete-Lined	E	E08S02-04	U/S Sta 16+39.76 EC, Dwg. E08S02-701-1	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Concrete-Lined	E	E08S02-03	Junction between new and existing	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
163	Concrete-Lined	E	E08S02-02	Vertical Curve, grade change	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Concrete-Lined	E	E08S02-07	upstream to downstream	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Concrete-Lined	E	E08S02-10	(Verify Stations, find Sh E08S02-409-1)	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Underground Conduit	E	E08S02-11	Downstream Transition (Verify Stations)	Earth	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Concrete-Lined	E	E08S02-13	Upstream Transition (Verify Stations)	Concrete	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Concrete-Lined	E	E08S02-14	Sta 26+83, w/ wall extensions, Sec A-A, Sh 4 of 6	Concrete/Earth	EXT. OF ALAMEDA STORM CHANNEL	-9999
163	Concrete-Lined	E	E08S02-15	Upstream end	Concrete/Earth	EXT. OF ALAMEDA STORM CHANNEL	-9999
164	Underground Conduit	E	E08S06-01	Downstream end junction with E08	Concrete/Earth	HANDY CREEK STORM CHANNEL	-9999
164	Underground Conduit	E	E08S06-03	Santiago Canyon Rd. to d/s Diversion Channel	Riprap	HANDY CREEK STORM CHANNEL	-9999
188	Earth Channel	F	F07S01-01	F07 Confluence to Grade Break	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-05	Irvine Blvd	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-06	u/s Irvine Blvd	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Concrete-Lined	F	F07S01-09	u/s Del Rey Dr to d/s Transition Structure	Soil Cement	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-24	La Colina Dr	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-25	u/s La Colina Dr.	Riprap	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-29	u/s Newport Ave	Earth	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-28	Newport Ave	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Underground Conduit	F	F07S01-04	Irvine Blvd	Earth	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Concrete-Lined	F	F07S01-10	Transition Structure	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Concrete-Lined	F	F07S01-11	u/s Transistion Structure to Grade Break	Earth	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Concrete-Lined	F	F07S01-13	to d/s transition Structure	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Concrete-Lined	F	F07S01-12	Grade Break to Grade Break	Earth	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Concrete-Lined	F	F07S01-14	Transition Structure	Earth	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Concrete-Lined	F	F07S01-16	to d/s transition Structure	Earth	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Concrete-Lined	F	F07S01-18	d/s Redhill Ave	Stone	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Concrete-Lined	F	F07S01-17	Transition Structure	Stone	LA COLINA-REDHILL ST. CHANNEL	-9999
188	Concrete-Lined	F	F07S01-22	Grade Break to Grade Break	Earth	LA COLINA-REDHILL ST. CHANNEL	-9999
186	Underground Conduit	F	F07P08-12	Irvine Blvd	Concrete	RANCHWOOD STORM DRAIN	-9999
186	Underground Conduit	F	F07P08-08	Grade Break. to Grade Break	Earth	RANCHWOOD STORM DRAIN	-9999
186	Underground Conduit	F	F07P08-05	Grade Break to Manhole	Concrete	RANCHWOOD STORM DRAIN	-9999
186	Underground Conduit	F	F07P08-06	End Construction to 33" RCP Inlet	Concrete	RANCHWOOD STORM DRAIN	-9999
186	Underground Conduit	F	F07P08-07	33" RCP Inlet to Grade Break	Concrete	RANCHWOOD STORM DRAIN	-9999
186	Underground Conduit	F	F07P08-09	Grade Break to Grade Break	Concrete	RANCHWOOD STORM DRAIN	-9999
186	Underground Conduit	F	F07P08-10	Grade Break to Inlet 18' RCP	Concrete	RANCHWOOD STORM DRAIN	-9999
186	Underground Conduit	F	F07P08-11	18' Inlet to Junction Structure	Concrete	RANCHWOOD STORM DRAIN	-9999
186	Underground Conduit	F	F07P08-01	u/s F07 Confluence to Begin RCP	Concrete	RANCHWOOD STORM DRAIN	-9999
186	Underground Conduit	F	F07P08-02	Begin RCP to Begin Construction	Concrete	RANCHWOOD STORM DRAIN	-9999
186	Underground Conduit	F	F07P08-03	Begin Construction to Manhole	Concrete	RANCHWOOD STORM DRAIN	-9999
526	Underground Conduit	F	F13P05-01	F13 Confluence to d/s Bubbling Well Rd	Concrete	RAINBOW STORM DRAIN	-9999
526	Underground Conduit	F	F13P05-03	Browning Ave	Earth	RAINBOW STORM DRAIN	-9999
525	Underground Conduit	F	F13P03-01	Redhill Ave	Concrete	S.E. SKYLINE STORM DRAIN	-9999
525	Underground Conduit	F	F13P03-02	Junction Structure to Junction Structure	Earth	S.E. SKYLINE STORM DRAIN	-9999
525	Underground Conduit	F	F13P03-03	to Woodlawn Ave (Junction Structure)	Concrete	S.E. SKYLINE STORM DRAIN	-9999
525	Underground Conduit	F	F13P03-04	d/s Arroyo Ave	Concrete	S.E. SKYLINE STORM DRAIN	-9999
525	Underground Conduit	F	F13P03-05	to Junction Structure (Grade Break)	Concrete	S.E. SKYLINE STORM DRAIN	-9999
525	Underground Conduit	F	F13P03-06	to Junction Structure (Grade Break)	Earth	S.E. SKYLINE STORM DRAIN	-9999
525	Underground Conduit	F	F13P03-08	to d/s Castlegate Lane	Steel/Earth	S.E. SKYLINE STORM DRAIN	-9999
184	Underground Conduit	F	F07P01-03	to Manhole	Concrete	EAST TUSTIN STORM DRAIN	-9999
185	Underground Conduit	F	F07P04-07	to D/S Elizabeth Ave	Concrete	TUSTIN HEIGHTS STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
185	Underground Conduit	F	F07P04-06	Charloma Dr	Concrete	TUSTIN HEIGHTS STORM DRAIN	-9999
185	Underground Conduit	F	F07P04-05	D/S Charloma Dr.	Concrete	TUSTIN HEIGHTS STORM DRAIN	-9999
185	Underground Conduit	F	F07P04-04	to Grade Break	Concrete	TUSTIN HEIGHTS STORM DRAIN	-9999
185	Underground Conduit	F	F07P04-03	Grade Break to Woodlawn Ave	Concrete	TUSTIN HEIGHTS STORM DRAIN	-9999
185	Underground Conduit	F	F07P04-01	Redhill Dr.	Concrete	TUSTIN HEIGHTS STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-01	d/s 17th St to Manhole	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-02	Manhole to Manhole	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-03	Manhole to Grade Break	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-04	Grade Break to Manhole	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-05	to u/s Ervin Lane (Manhole)	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-07	d/s Dodge Ave	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-06	to Manhole	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-08	Dodge Ave to Existing 24" RCP	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-09	Oak Ridge Drive	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-10	to 24" Inlet	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-11	Foothill Blvd	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-12	to 24" Inlet	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-13	to Grade Break (Manhole)	Concrete	HEWES STORM DRAIN	-9999
480	Underground Conduit	F	F07P06-15	to End 63" RCP	Concrete	HEWES STORM DRAIN	-9999
93	Underground Conduit	C	C01-06.05	Garden Grove Freeway RCB Culvert	Concrete	LOS ALAMITOS CHANNEL	PD050
103	Concrete-Lined	C	C03-10.01	u/s Sioux Road to grade break	Concrete	ANAHEIM-BARBER CITY CHANNEL	PD061
234	Concrete Soft Base	J	J01-22.01	d/s drop structure	Concrete	ALISO CREEK CHANNEL	PD217
234	Concrete Soft Base	J	J01-22.02	u/s drop structure to d/s drop structure	Concrete	ALISO CREEK CHANNEL	PD217
234	Concrete-Lined	J	J01-24	Los Alisos Blvd Bridge	Concrete	ALISO CREEK CHANNEL	PD217
250	Natural Watercourse	L	L02-16.01	Natural Watercourse to City Boundary (OCFCD Esmt)	Concrete	TRABUCO CREEK CHANNEL	PM105
156	Concrete-Lined	E	E08-12.03	u/s transition to d/s Walnut Storm Channel	Earth	SANTIAGO CREEK CHANNEL	PM054
156	Earth Channel	E	E08-09	u/s Tustin Ave to d/s Costa Mesa Freeway	Riprap	SANTIAGO CREEK CHANNEL	PM053
128	Earth Channel	C	C07-02.01	u/s Heil to 24" RCP	Riprap	SUNSET CHANNEL	PD096
128	Earth Channel	C	C07-02.02	24" RCP inlet to 24" RCP inlet	Riprap	SUNSET CHANNEL	PD096
128	Earth Channel	C	C07-02.03	u/s Heil to d/s Bolsa Chica Road	Riprap	SUNSET CHANNEL	PD096
73	Concrete-Lined	A	A02-54.03	u/s transition to d/s Valley View	PPCB	BREA CREEK CHANNEL	PD014
148	Underground Conduit	E	E05-36	Imperial Highway RCB Culvert	Concrete	RICHFIELD CHANNEL	PD118
171	Underground Conduit	F	F01-41	Warner Ave RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PD137
226	Earth Channel	G	G03-03.01	u/s Irvine Avenue to grade break	Concrete	SANTA ISABEL CHANNEL	PD207
226	Earth Channel	G	G03-03.02	grade break to end RCP	Concrete	SANTA ISABEL CHANNEL	PD207
226	Earth Channel	G	G03-02	Irvine Avenue RCP	Concrete	SANTA ISABEL CHANNEL	PD207
246	Natural Watercourse	L	L01-12.03	Natural Watercourse d/s San Diego Freeway to 1500*	Concrete	SAN JUAN CREEK CHANNEL	PD234
386	Underground Conduit	C	C02P08-06	EC at Cerritos Ave.	Concrete	STANTON STORM CHANNEL	-9999
386	Underground Conduit	C	C02P08-02	Siphon	Concrete	STANTON STORM CHANNEL	-9999
386	Underground Conduit	C	C02P08-03	Upstream Siphon	Concrete	STANTON STORM CHANNEL	-9999
386	Underground Conduit	C	C02P08-04	Along Dale	Concrete	STANTON STORM CHANNEL	-9999
386	Underground Conduit	C	C02P08-01	C02P08 at C02S01	Concrete	STANTON STORM CHANNEL	-9999
386	Underground Conduit	C	C02P08-07	East Cerritos Ave. from Dale Street	Concrete	STANTON STORM CHANNEL	-9999
386	Underground Conduit	C	C02P08-08	East Cerritos Ave. at Yana Dr. 36" Inlet	Concrete	STANTON STORM CHANNEL	-9999
386	Underground Conduit	C	C02P08-09	Cerritos Ave. east of Yana Dr. 36" Inlet	Concrete	STANTON STORM CHANNEL	-9999
386	Underground Conduit	C	C02P08-11	End of project	Concrete	STANTON STORM CHANNEL	-9999
73	Concrete-Lined	A	A02-15.02	RCB to d/s transition to RCB	Concrete	BREA CREEK CHANNEL	PM005
74	Concrete-Lined	A	A03-06.03	Grade Break to Grade Break	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-06.04	Grade Break to d/s Knott Ave	Concrete	FULLERTON CREEK CHANNEL	PM007

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
74	Concrete-Lined	A	A03-08.01	u/s Knott to Melrose storm channel	Concrete	FULLERTON CREEK CHANNEL	PM007
74	Concrete-Lined	A	A03-08.04	d/s transition	Concrete	FULLERTON CREEK CHANNEL	PM007
73	Concrete-Lined	A	A02-13.02	grade break to 66" inlet	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-13.04	grade break	Concrete	BREA CREEK CHANNEL	PM005
73	Concrete-Lined	A	A02-13.05	grade break to d/s transition	Concrete	BREA CREEK CHANNEL	PM005
113	Concrete-Lined	C	C04-26.03	to d/s Hoover Street	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-27	Railroad/Hoover St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-28.01	u/s Hoover St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-28.02	u/s Hoover St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-28.03	u/s Hoover St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-29.03	Grade Break to Grade Break	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-29.04	Grade Break to Grade Break	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-29.01	u/s Hoover St RCB Culvert to Grade Break	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-29.02	Grade Break to Grade Break	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-29.05	Grade Break to Grade Break	Concrete	WESTMINSTER CHANNEL	PM024
113	Concrete-Lined	C	C04-29.07	Grade Break to d/s Beach Blvd	Concrete	WESTMINSTER CHANNEL	PM024
113	Underground Conduit	C	C04-30	d/s Beach Blvd	Concrete	WESTMINSTER CHANNEL	PD076
115	Sheetpile Soft Base	C	C05-04.01	u/s Oil Bridge to End of Rip-Rap	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD080
115	Sheetpile Soft Base	C	C05-04.03	Beginning of South Sheet Piles to Transition	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD080
115	Sheetpile Soft Base	C	C05-05.02	Pump Station	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD080
115	Sheetpile Soft Base	C	C05-05.03	Transition	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD080
179	Riprap Channel	F	F06-01.01	u/s confluence with San Diego Creek to grade break	Concrete	PETERS CANYON CHANNEL	PD150
179	Concrete Soft Base	F	F06-02.01	Transition	Concrete	PETERS CANYON CHANNEL	PD150
179	Concrete Soft Base	F	F06-02.02	Rectangular Channel w/ Ramp	Concrete	PETERS CANYON CHANNEL	PD150
179	Concrete Soft Base	F	F06-02.03	Transition to bridge	Concrete	PETERS CANYON CHANNEL	PD150
179	Concrete Soft Base	F	F06-02.04	Barranca Pkwy.	Concrete	PETERS CANYON CHANNEL	PD150
179	Concrete Soft Base	F	F06-02.05	Transition	Concrete	PETERS CANYON CHANNEL	PD150
179	Concrete Soft Base	F	F06-02.06	Rectangular Channel w/ Ramp	Concrete	PETERS CANYON CHANNEL	PD150
179	Concrete Soft Base	F	F06-02.07	Transition	Concrete	PETERS CANYON CHANNEL	PD150
179	Concrete Soft Base	F	F06-03.01	Transition	Concrete	PETERS CANYON CHANNEL	PM068
179	Concrete Soft Base	F	F06-03.03	Ramp	Concrete	PETERS CANYON CHANNEL	PM068
179	Concrete Soft Base	F	F06-03.04	Ramp to Transition	Concrete	PETERS CANYON CHANNEL	PM068
179	Concrete Soft Base	F	F06-03.05	D/S Warner Ave Bridge	Concrete	PETERS CANYON CHANNEL	PM068
179	Concrete Soft Base	F	F06-04.01	U/S Warner Ave Bridge	Concrete	PETERS CANYON CHANNEL	PM068
179	Concrete Soft Base	F	F06-04.02	Transition	Concrete	PETERS CANYON CHANNEL	PM068
179	Concrete Soft Base	F	F06-04.03	Transition	Concrete	PETERS CANYON CHANNEL	PM068
179	Concrete Soft Base	F	F06-04.04	Transition to Transition	Concrete	PETERS CANYON CHANNEL	PM068
179	Concrete Soft Base	F	F06-04.05	Transition to Transition	Concrete	PETERS CANYON CHANNEL	PM068
179	Riprap Channel	F	F06-01.02	grade break to d/s side slope transition	Concrete	PETERS CANYON CHANNEL	PD150
179	Riprap Channel	F	F06-01.03	grade break to grade break	Concrete	PETERS CANYON CHANNEL	PD150
179	Concrete Soft Base	F	F06-11.02	d/s F07 confluence to u/s F07 confluence	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-13.01	Transition Structure to D/S Walnut Ave Bridge	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-13.02	Walnut Ave Bridge	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-14.01		Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-14.02	Begining of Transition	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-15.02	Harvard Ave Bridge	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete-Lined	F	F06-16.01	End of Transition to end of Drop Structure	Concrete	PETERS CANYON CHANNEL	PD154
179	Concrete Soft Base	F	F06-16.02		Concrete	PETERS CANYON CHANNEL	PD154
192	Earth Channel	F	F09-14	D/S of Barrance Parkway	Concrete	BARRANCA CHANNEL	PM074

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
192	Earth Channel	F	F09-13	Access ramp	Concrete	BARRANCA CHANNEL	PM074
342	Underground Conduit	F	F16-20	u/s Marshburn Retarding Basin to Grade Break	Concrete	MARSHBURN CHANNEL	PM076
370	Underground Conduit	B	B01P17-01	Carbon Creek Channel to Junction Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-06	to Bypass Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-07	to End Bypass Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-08	to Grade Break	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-09	to Transition Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-12	to RCP	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-10	to Squash Box	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-11	to Transition Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-13	to Junction Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-18	to RCP	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-17	to Transition Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-16	to Transition Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-15	to Transition Structure	Earth	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-14	to RCP	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-19	to Transition Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-21	to Transition Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-20	to RCB	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-22	to End Transition Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-23	to RCP Junction	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-24	to Transition Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-26	to Transition Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-25	to RCB	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-27	to End Transition Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-28	to Catch Basin	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-29	to Manhole	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-31	to Junction Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-33	to End Construction on Acacia St.	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
370	Underground Conduit	B	B01P17-32	to End Junction Structure	Concrete	RAYMOND-LA PALMA STORM DRAIN	-9999
207	Underground Conduit	F	F20-13.01	begin RCB to grade break	Concrete	BORREGO CANYON CHANNEL	PM086
207	Underground Conduit	F	F20-13.05	grade break to Transition Structure	Concrete	BORREGO CANYON CHANNEL	PM086
207	Underground Conduit	F	F20-13.03	grade break to Transition Structure	Concrete	BORREGO CANYON CHANNEL	PM086
207	Underground Conduit	F	F20-13.04	Transition Structure to grade break	Concrete	BORREGO CANYON CHANNEL	PM086
207	Concrete-Lined	F	F20-13.07	Transition Structure	Concrete	BORREGO CANYON CHANNEL	PM086
436	Underground Conduit	E	E08P12-01	Junction w/ San Santiago Creek	Concrete	CAMBRIDGE STORM DRAIN	-9999
436	Underground Conduit	E	E08P12-02	To Chalynn Ave.	Concrete	CAMBRIDGE STORM DRAIN	-9999
436	Underground Conduit	E	E08P12-03	To Van Bibber Ave.	Concrete	CAMBRIDGE STORM DRAIN	-9999
436	Underground Conduit	E	E08P12-04	To Palmyra d/s of Squash Box	Concrete	CAMBRIDGE STORM DRAIN	-9999
436	Underground Conduit	E	E08P12-05	To Palmyra d/s of Squash Box	Concrete	CAMBRIDGE STORM DRAIN	-9999
436	Underground Conduit	E	E08P12-08	U/S of RCB	Concrete	CAMBRIDGE STORM DRAIN	-9999
436	Underground Conduit	E	E08P12-07	RC Box w/ Transitions	Concrete	CAMBRIDGE STORM DRAIN	-9999
486	Underground Conduit	F	F07P23-01	F07 Confluence (u/s Browning Ave)	Concrete	BRYAN AVE STORM DRAIN	-9999
486	Underground Conduit	F	F07P23-02	to d/s Stonehenge Dr. (Manhole)	Concrete	BRYAN AVE STORM DRAIN	-9999
486	Underground Conduit	F	F07P23-03	to d/s Woodland Ave	Concrete	BRYAN AVE STORM DRAIN	-9999
486	Underground Conduit	F	F07P23-04	to d/s Diamond Head (Manhole)	Concrete	BRYAN AVE STORM DRAIN	-9999
486	Underground Conduit	F	F07P23-05	to Manhole	Concrete	BRYAN AVE STORM DRAIN	-9999
486	Underground Conduit	F	F07P23-07	Redhill Ave	Concrete	BRYAN AVE STORM DRAIN	-9999
486	Underground Conduit	F	F07P23-08	u/s Redhill Ave	Concrete	BRYAN AVE STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
223	Underground Conduit	G	G00P01-07	d/s Dover St	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-08	d/s Newport Harbor Union High	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-09	to Grade Break	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-10	to Grade Break	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-11	to Grade Break	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-12	to Grade Break	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-13	d/s 15th Street	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-14	to Abandoned CMPA (G.B.)	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-15	u/s St. Andrews Rd.	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-17	to Irvine Ave	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
225	Underground Conduit	G	G02P02-02	Rutland to Irvine Ave.	Concrete	WESTCLIFF STORM DRAIN	-9999
225	Underground Conduit	G	G02P02-03	Irvine Ave. to End	Concrete	WESTCLIFF STORM DRAIN	-9999
578	Underground Conduit	G	G02P01-02	u/s 19th St to d/s Costa Mesa St	Concrete	IRVINE-BAYCREST STORM DRAIN	-9999
578	Underground Conduit	G	G02P01-03	Costa Mesa St to Walnut Pl/ Linda Ln	Concrete	IRVINE-BAYCREST STORM DRAIN	-9999
578	Underground Conduit	G	G02P01-05	d/s 20th St/ Highland Dr to Irvine Ave	Concrete	IRVINE-BAYCREST STORM DRAIN	-9999
578	Underground Conduit	G	G02P01-08	Irvine Ave to Baycrest Rd	Concrete	IRVINE-BAYCREST STORM DRAIN	-9999
578	Underground Conduit	G	G02P01-07	Irvine Ave to Baycrest Rd	Concrete	IRVINE-BAYCREST STORM DRAIN	-9999
578	Underground Conduit	G	G02P01-06	Irvine Ave to Baycrest Rd	Concrete	IRVINE-BAYCREST STORM DRAIN	-9999
578	Underground Conduit	G	G02P01-09	Baycrest Rd	Concrete	IRVINE-BAYCREST STORM DRAIN	-9999
578	Underground Conduit	G	G02P01-11	Commondore Rd	Concrete	IRVINE-BAYCREST STORM DRAIN	-9999
578	Underground Conduit	G	G02P01-10	Baycrest Rd to Commondore Rd	Concrete	IRVINE-BAYCREST STORM DRAIN	-9999
123	Underground Conduit	C	C05S05-01	C05 to u/s San Diego Freeway	Concrete	EDINGER STORM CHANNEL	-9999
123	Underground Conduit	C	C05S05-03		Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-06		Concrete	EDINGER STORM CHANNEL	-9999
123	Underground Conduit	C	C05S05-09		Concrete	EDINGER STORM CHANNEL	-9999
123	Underground Conduit	C	C05S05-02	C05 to u/s San Diego Freeway	Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-04		Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-05		Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-07		Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-08		Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-10		Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-11		Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-13		Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-14		Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-15		Concrete	EDINGER STORM CHANNEL	-9999
123	Concrete-Lined	C	C05S05-16	Upstream Edinger	Concrete	EDINGER STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-04		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-03		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-08		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-13		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-15		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-17		Concrete	NEWLAND STORM CHANNEL	-9999
121	Concrete-Lined	C	C05S01-20		Concrete	NEWLAND STORM CHANNEL	-9999
387	Underground Conduit	C	C02S02-01	Confluence with C02	Concrete	GARDEN GROVE STORM CHANNEL	-9999
387	Underground Conduit	C	C02S02-02	Old Bolsa Chica Rd	Concrete	GARDEN GROVE STORM CHANNEL	-9999
387	Underground Conduit	C	C02S02-03	Upstream Old Bolsa Chica Rd	Concrete	GARDEN GROVE STORM CHANNEL	-9999
387	Underground Conduit	C	C02S02-04	Transition	Concrete	GARDEN GROVE STORM CHANNEL	-9999
387	Underground Conduit	C	C02S02-05	22 Fwy Off-ramp to SB Bolsa Chica Rd	Concrete	GARDEN GROVE STORM CHANNEL	-9999
387	Underground Conduit	C	C02S02-06	22 Fwy Lanes Eastbound Bridge	Concrete	GARDEN GROVE STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
387	Underground Conduit	C	C02S02-09	22 Fwy Lanes Westbound	Concrete	GARDEN GROVE STORM CHANNEL	-9999
387	Underground Conduit	C	C02S02-08	22 Fwy Drainage	Concrete	GARDEN GROVE STORM CHANNEL	-9999
85	Underground Conduit	B	B01P01-01	Outlet to Crescent Basin	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-02	Continued RCB to Euclid St.	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-03	to Loara St. and Lincoln St. Intersection	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-04	to Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-05	to End Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-06	to Next Grade Break D/S Adams St.	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-07	to End Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-08	to Next Grade Break Broadway-Adams Intersection	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-09	to End Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-10	to Next Grade Break on Broadway St.	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-11	to End Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-12	to Next Grade Break off from Broadway	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-13	to End Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-14	to Next Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-15	to Next Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-16	to End Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-17	to Next Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
85	Underground Conduit	B	B01P01-18	to End Grade Break	Concrete	WEST ANAHEIM STORM DRAIN	-9999
369	Underground Conduit	B	B01P08-01	U/S Gilbert to End Transition	Concrete	BROADWAY STORM DRAIN	-9999
369	Underground Conduit	B	B01P08-04	to Transition at D/S Brookhurst St.	Concrete	BROADWAY STORM DRAIN	-9999
369	Underground Conduit	B	B01P08-03	to End Transition	Concrete	BROADWAY STORM DRAIN	-9999
369	Underground Conduit	B	B01P08-06	to End Construction at U/S Brookhurst St.	Concrete	BROADWAY STORM DRAIN	-9999
369	Underground Conduit	B	B01P08-05	to End Transition	Concrete	BROADWAY STORM DRAIN	-9999
85	Natural Watercourse	B	B01P01-20	Reach within B01B02 Crescent Retarding Basin	Concrete	WEST ANAHEIM STORM DRAIN	-9999
89	Concrete-Lined	B	B01S03-01	Confluence Carbon Creek Channel	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-02	to D/S Kansas Ave.	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-03	to U/S Missouri Ave.	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-04	to D/S Orangethorpe Ave.	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-05	to U/S Orangethorpe Ave.	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-06	to Culvert	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-07	to End Culvert	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-08	to Transition Structure	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-09	to D/S Old Rail Road	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-10	Old Rail Road	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-11	to Grade Break	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-12	to Grade Break	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-13	to A.C. Drain	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-14	to D/S Crowther St.	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-15	Crowther St.	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-16	to End Transition U/S Crowther St.	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-17	to Grade Break	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-18	to Next Grade Break	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-19	to D/S Atchson Topeka & Santa Fe R.R.	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-20	AT & SF R.R.	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-21	to Begin RCB Culvert	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-22	to Grade Break	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-23	to Grade Break	Concrete	PLACENTIA CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
89	Underground Conduit	B	B01S03-24	to Grade Break	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-25	to End RCB Culvert	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-26	to End Transition	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-27	to D/S Chapman Ave.	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-28	Chapman Ave.	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-29	to End Transition U/S Chapman Ave.	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-30	to Begin Culvert at D/S Nutwood Ave.	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-31	Nutwood Ave.	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-32	to End Transition	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-33	to U/S Nutwood Ave.	Concrete	PLACENTIA CHANNEL	-9999
89	Concrete-Lined	B	B01S03-34	u/s Nutwood Street	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-35	Transition	Concrete	PLACENTIA CHANNEL	-9999
89	Underground Conduit	B	B01S03-37	u/s/ Placentia Avenue	Concrete	PLACENTIA CHANNEL	-9999
86	Underground Conduit	B	B01P23-01	RCB to RCP Transition	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-02	to Grade Break	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-03	to Junction Structure	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-04	to Grade Break	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-05	to Transition Structure on Saphire Rd.	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-08	to Grade Break	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-11	to Grade Break	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-12	to Manhole on Tuffree Blvd.	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-13	to Grade Break	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-07	to Grade Break	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-06	to End Transition Structure	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-10	to Grade Break	Concrete	TUFFREE STORM DRAIN	-9999
86	Underground Conduit	B	B01P23-09	to Manhole	Concrete	TUFFREE STORM DRAIN	-9999
88	Underground Conduit	B	B01B05-03	U/S B01B05 along Avenida Granada	Concrete	CYPRESS STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-02	to Grade break	Concrete	CYPRESS STORM CHANNEL	-9999
88	Concrete-Lined	B	B01S01-03	to 48" RCP	Concrete	CYPRESS STORM CHANNEL	-9999
88	Concrete-Lined	B	B01S01-04	to 36" RCP	Concrete	CYPRESS STORM CHANNEL	-9999
88	Concrete-Lined	B	B01S01-05	to change of channel high	Concrete	CYPRESS STORM CHANNEL	-9999
88	Concrete-Lined	B	B01S01-06	to 48" RCP	Concrete	CYPRESS STORM CHANNEL	-9999
88	Concrete-Lined	B	B01S01-07	to D/S of Orange Ave.	Concrete	CYPRESS STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-08	to 42" RCP	Concrete	CYPRESS STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-09	to U/S of Orange Ave.	Concrete	CYPRESS STORM CHANNEL	-9999
88	Concrete-Lined	B	B01S01-10	to 48" RCP	Concrete	CYPRESS STORM CHANNEL	-9999
88	Concrete-Lined	B	B01S01-11	to change of channel high	Concrete	CYPRESS STORM CHANNEL	-9999
88	Concrete-Lined	B	B01S01-12	to 45" RCP	Concrete	CYPRESS STORM CHANNEL	-9999
88	Concrete-Lined	B	B01S01-13	to 24" RCP	Concrete	CYPRESS STORM CHANNEL	-9999
88	Concrete-Lined	B	B01S01-14	to D/S of Moody St.	Concrete	CYPRESS STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-15	to D/S Transition Structure	Concrete	CYPRESS STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-17	to 24" RCP	Concrete	CYPRESS STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-16	to U/S Transition Structure	Concrete	CYPRESS STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-18	to 36" RCP	Concrete	CYPRESS STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-20	to D/S Transition Structure	Concrete	CYPRESS STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-21	to D/S Transition Structure	Concrete	CYPRESS STORM CHANNEL	-9999
88	Underground Conduit	B	B01S01-01	Connect to 96" RCP from B01B05	Concrete	CYPRESS STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-01	Junction w/ C02 to BC	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-02	BC to EC	Concrete	JONATHAN STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
102	Underground Conduit	C	C02S03-03	Upstream EC to transition	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-04	Newer construction at transition	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-05	Upstream End, Sh. 2 of 9	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-06	Sheet 3 of 9	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-07	Sheet 4 of 9, at BC	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-08	BC to upstream end of Sheet 4 of 9	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-09	Downstream from Holder St.	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-10	Transition downstream from Holder St.	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-11	Holder Street to CMP Drop Inlet	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-12	Holder Street to u/s end Sheet 5 of 9	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-13	Sheet 6 of 9 to BC	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-14	Sheet 6 of 9, BC to PRC	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-15	Sheet 6 of 9, PRC to EC	Concrete	JONATHAN STORM CHANNEL	-9999
102	Underground Conduit	C	C02S03-16	Sheet 6 of 9, PRC to EC	Concrete	JONATHAN STORM CHANNEL	-9999
385	Underground Conduit	C	C02P04-01	Junction with C02 at Cerritos Ave., at BC	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-02	At Valley View inlets	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-03	EC at Valley View	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-04	Across Valley View	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-05	East of Valley View to BC	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-06	BC to PRC	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-07	PRC to EC	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-10	U/S end Sh. 2 of 7	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-12	Manhole east of Hester Ave., Sh. 3 of 7	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-13	Inlets at Gretar Ave., Sh. 3 of 7	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-14	Inlets at Gretar Ave., Sh. 3 of 7	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-11	Hester Ave., Sh. 3 of 7	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-08	Inlet, EC to U/S end Sh. 2 of 7	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-09	Inlet, EC to U/S end Sh. 2 of 7	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-17	Upstream transition	Concrete	CERRITOS STORM DRAIN	-9999
385	Underground Conduit	C	C02P04-16	Florence Ave., Transition	Concrete	CERRITOS STORM DRAIN	-9999
188	Underground Conduit	B	B01B05-02	Cypress Retarding Basin	Concrete	CYPRESS STORM CHANNEL	-9999
125	Underground Conduit	C	C05S10-01	Confluence with C05 to u/s transition	Concrete	NEWHOPE STORM CHANNEL	-9999
125	Underground Conduit	C	C05S10-03	Downstream Transition to RR	Concrete	NEWHOPE STORM CHANNEL	-9999
125	Underground Conduit	C	C05S10-02	Transition	Concrete	NEWHOPE STORM CHANNEL	-9999
125	Underground Conduit	C	C05S10-06	Upstream end at Trask Ave.	Concrete	NEWHOPE STORM CHANNEL	-9999
125	Underground Conduit	C	C05S10-04	Transition at So. Pacific RR Crossing	Concrete	NEWHOPE STORM CHANNEL	-9999
125	Underground Conduit	C	C05S10-05	At Southern Pacific RR Crossing	Concrete	NEWHOPE STORM CHANNEL	-9999
120	Underground Conduit	C	C05P23-01	Junction with C05	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-02	Upstream to downstream	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-03	Upstream to downstream	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-04	Upstream to downstream	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-06	Transition upstream of Cul De Sac	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-07	Upstream of Cul De Sac to Harbor Blvd.	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-08	Downstream transition at Harbor Blvd.	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-10	Upstream transition at Harbor Blvd.	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-15	Squash Box upstream transition	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-13	Squash Box downstream transition	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-14	Squash Box	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-16	To next squash box D/S transition	Concrete	WEST WASHINGTON STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
120	Underground Conduit	C	C05P23-19	Squash Box upstream transition	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-17	Squash box downstream transition	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-18	Squash box	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-21		Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-23		Concrete	WEST WASHINGTON STORM DRAIN	-9999
262	Underground Conduit	M	M00S01-03	Beach Road Culvert	Concrete	ESTRELLA STORM DRAIN	-9999
262	Underground Conduit	M	M00S01-05	Railroad Right-of-Way	Concrete	ESTRELLA STORM DRAIN	-9999
262	Underground Conduit	M	M00S01-07	PCH Culvert	Concrete	ESTRELLA STORM DRAIN	-9999
248	Underground Conduit	L	L01S02-18	u/s Camino Capistrano to End	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-13	Transition Structure	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-14	Transition Structure to Grade Break	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-15	Grade Break to Camino Capistrano	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-16	Junction Structure	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-17	Camino Capistrano to u/s Camino Capistrano	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-01	San Juan Creek to 48" RCP	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-06	Transition structure	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-05	to d/s railroad	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-04	Transition Structure	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-03	to Transition Structure at 36" RCP	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-02	to 48" RCP	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-07	Railroad	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-08	Transition Structure	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-09	Transition Structure to Grade Break	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-10	Grade Break to Grade Break	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
248	Underground Conduit	L	L01S02-11	Grade Break to Grade Break	Concrete	CAPISTRANO BEACH STORM CHANNEL	-9999
106	Underground Conduit	C	C03P04-01	Downstream confluence with C03S04	Concrete	CHAPMAN-BEACH STORM DRAIN	-9999
106	Underground Conduit	C	C03P04-02	Manhole at the City limits	Concrete	CHAPMAN-BEACH STORM DRAIN	-9999
106	Underground Conduit	C	C03P04-03	Beach Blvd.	Concrete	CHAPMAN-BEACH STORM DRAIN	-9999
106	Underground Conduit	C	C03P04-04	Upstream Beach Blvd.	Concrete	CHAPMAN-BEACH STORM DRAIN	-9999
106	Underground Conduit	C	C03P04-05	upstream to downstream	Concrete	CHAPMAN-BEACH STORM DRAIN	-9999
106	Underground Conduit	C	C03P04-06	upstream to downstream	Concrete	CHAPMAN-BEACH STORM DRAIN	-9999
106	Underground Conduit	C	C03P04-08	Nearing Drive culvert	Earth	CHAPMAN-BEACH STORM DRAIN	-9999
111	Concrete-Lined	C	C03S04-03	D/S Transition Culvert at Chapman	Concrete	ROSALIA STORM CHANNEL	-9999
390	Underground Conduit	C	C03P05-01	From C03 at Lampson Ave. to apprx. 95' upstream	Concrete	LAMPSON STORM DRAIN	-9999
390	Underground Conduit	C	C03P05-03	From grade break upstream to BC at Beach Blvd.	Concrete	LAMPSON STORM DRAIN	-9999
390	Underground Conduit	C	C03P05-05	From EC to MH, upstream Beach Blvd.	Concrete	LAMPSON STORM DRAIN	-9999
390	Underground Conduit	C	C03P05-04	BC to EC, upstream Beach Blvd.	Concrete	LAMPSON STORM DRAIN	-9999
390	Underground Conduit	C	C03P05-08	From High Press. Gas, GB to upstream end	Concrete	LAMPSON STORM DRAIN	-9999
390	Underground Conduit	C	C03P05-06	From EC to MH, upstream Beach Blvd.	Concrete	LAMPSON STORM DRAIN	-9999
390	Underground Conduit	C	C03P05-07	To upstream of High Press. Gas, GB	Concrete	LAMPSON STORM DRAIN	-9999
391	Underground Conduit	C	C03P06-05	Upstream end of the project	Concrete	CHAPMAN-DALE STORM DRAIN	-9999
391	Underground Conduit	C	C03P06-03	RC Box	Concrete	CHAPMAN-DALE STORM DRAIN	-9999
391	Underground Conduit	C	C03P06-02	Transition to RC Box at Dale St.	Concrete	CHAPMAN-DALE STORM DRAIN	-9999
391	Underground Conduit	C	C03P06-04	Transition to RC Pipe at Dale St.	Concrete	CHAPMAN-DALE STORM DRAIN	-9999
389	Underground Conduit	C	C03P02-01	Junction w/ C03 to downstream Twana Drive	Concrete	DALE STREET STORM DRAIN	-9999
389	Underground Conduit	C	C03P02-02	Twana Drive to Transition Structure	Concrete	DALE STREET STORM DRAIN	-9999
389	Underground Conduit	C	C03P02-03	Transition Structure	Concrete	DALE STREET STORM DRAIN	-9999
389	Underground Conduit	C	C03P02-04	Transition Structure to upstream Hopi Rd.	Concrete	DALE STREET STORM DRAIN	-9999
389	Underground Conduit	C	C03P02-05	Transition Structure to upstream Hopi Rd.	Concrete	DALE STREET STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
389	Underground Conduit	C	C03P02-06	Upstream Hopi Rd. transition	Concrete	DALE STREET STORM DRAIN	-9999
112	Underground Conduit	C	C03S05-01	C03 to Magnolia Avenue	Concrete	SHANNON STORM CHANNEL	-9999
112	Underground Conduit	C	C03S05-02	Magnolia Avenue Culvert	Concrete	SHANNON STORM CHANNEL	-9999
112	Underground Conduit	C	C03S05-09	Upstream to Chapman Avenue	Concrete	SHANNON STORM CHANNEL	-9999
112	Underground Conduit	C	C03S05-04	Downstream Gilbert to Skylark	Concrete	SHANNON STORM CHANNEL	-9999
112	Underground Conduit	C	C03S05-05	Downstream Gilbert	Concrete	SHANNON STORM CHANNEL	-9999
112	Underground Conduit	C	C03S05-06	Downstream Transition at Gilbert RCB	Concrete	SHANNON STORM CHANNEL	-9999
112	Underground Conduit	C	C03S05-07	Gilbert RCB	Concrete	SHANNON STORM CHANNEL	-9999
112	Underground Conduit	C	C03S05-08	Upstream Transition at Gilbert RCB	Concrete	SHANNON STORM CHANNEL	-9999
107	Underground Conduit	C	C03P17-01	Upstream of C03	Concrete	GARDEN GROVE STORM DRAIN	-9999
107	Underground Conduit	C	C03P17-03	Upstream to grade break	Concrete	GARDEN GROVE STORM DRAIN	-9999
107	Underground Conduit	C	C03P17-04	Upstream end, Hoover St.	Earth	GARDEN GROVE STORM DRAIN	-9999
110	Concrete-Lined	C	C03S03-01	Junction with C03	Concrete	BESTEL STORM CHANNEL	-9999
110	Concrete-Lined	C	C03S03-06	Grade change to Goldenwest	Earth	BESTEL STORM CHANNEL	-9999
110	Concrete-Lined	C	C03S03-04	Siskiyou Culvert	Earth	BESTEL STORM CHANNEL	-9999
110	Concrete-Lined	C	C03S03-03	Downstream Siskiyou	Concrete	BESTEL STORM CHANNEL	-9999
110	Concrete-Lined	C	C03S03-05	Upstream Siskiyou to grade change	Concrete	BESTEL STORM CHANNEL	-9999
110	Concrete-Lined	C	C03S03-07	Goldenwest Culvert	Concrete	BESTEL STORM CHANNEL	-9999
109	Concrete-Lined	C	C03S02-01	Junction with C03 to Milton St.	Concrete	HUMBOLDT STORM CHANNEL	-9999
109	Concrete-Lined	C	C03S02-02	Milton St. Culvert	Concrete	HUMBOLDT STORM CHANNEL	-9999
109	Concrete-Lined	C	C03S02-03	Milton St. to Edward St.	Concrete	HUMBOLDT STORM CHANNEL	-9999
109	Concrete-Lined	C	C03S02-04	Edward St. Culvert	Concrete	HUMBOLDT STORM CHANNEL	-9999
109	Concrete-Lined	C	C03S02-05	From Edward St. to La Pat Place	Concrete	HUMBOLDT STORM CHANNEL	-9999
109	Concrete-Lined	C	C03S02-06	La Pat Place Culvert	Concrete	HUMBOLDT STORM CHANNEL	-9999
109	Concrete-Lined	C	C03S02-10	Siskiyou St. to Goldenwest St.	Concrete	HUMBOLDT STORM CHANNEL	-9999
109	Concrete-Lined	C	C03S02-08	Siskiyou St. Culvert	Concrete	HUMBOLDT STORM CHANNEL	-9999
109	Concrete-Lined	C	C03S02-09	Siskiyou St. to 100' upstream.	Concrete	HUMBOLDT STORM CHANNEL	-9999
108	Concrete-Lined	C	C03S01-06	Transition	Earth	MILAN STORM DRAIN	-9999
108	Concrete-Lined	C	C03S01-04	Westminister Ave. Upstream Transition	Concrete	MILAN STORM DRAIN	-9999
108	Concrete-Lined	C	C03S01-02	Westminister Ave. Downstream Transition	Earth	MILAN STORM DRAIN	-9999
108	Concrete-Lined	C	C03S01-11	Transition upstream Milan Street	Earth	MILAN STORM DRAIN	-9999
108	Concrete-Lined	C	C03S01-09	Transition downstream Milan Street	Concrete	MILAN STORM DRAIN	-9999
95	Concrete-Lined	C	C01S02-28	Transition	Earth	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-29	Upstream Los Alamitos Blvd	Earth	ROSSMOOR STORM CHANNEL	-9999
95	Concrete-Lined	C	C01S02-31	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Earth Channel	C	C01S02-53	Upstream Lexington Dr.	Concrete	ROSSMOOR STORM CHANNEL	-9999
95	Earth Channel	C	C01S02-54	Transition	Concrete	ROSSMOOR STORM CHANNEL	-9999
230	Underground Conduit	I	I00P02-01	u/s of Pacific Ocean	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-02	Manhole to G.B.	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-03	to d/s Coast Hwy	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-04	to Manhole	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-05	to Glenneyre St (CL)	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-06	to Manhole	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-07	to Grade Break	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-08	to Catalina St	Riprap	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-09	to Grade Break	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-10	to Grade Break	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-11	to u/s Catalina St	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-12	to Grade Break	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
230	Underground Conduit	I	I00P02-13	to Grade Break	Riprap	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-14	to Wilson St	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-15	to Grade Break	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-16	to Grade Break	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-17	to Grade Break	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-18	to Browncroft RD	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-19	to Grade Break	Riprap	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-20	to Grade Break	Riprap	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-21	to Drop Structure	Riprap	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-22	Existing Box Culvert	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-23	to Manhole	Concrete	SLEEPY HOLLOW STORM DRAIN	-9999
230	Underground Conduit	I	I00P02-25	to End	Riprap	SLEEPY HOLLOW STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-02	Grade Break to Grade Break	Riprap	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-12	Arlington Dr	Concrete	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-01	F03 Confluence to Grade Break	Riprap	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-03	Grade Break to Junction Structure	Riprap	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-04	Junction Structure to Junction Structure	Concrete	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-05	Junction Structure to Junction Structure	Concrete	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-07	Manhole to Junction Structure	Concrete	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-08	Junction Structure to Junction Structure	Concrete	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-09	Junction Structure to	Concrete	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-10	Junction Structure	Concrete	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-11	Junction Structure to Existing Manhole	Concrete	FAIRVIEW ROAD STORM DRAIN	-9999
456	Underground Conduit	F	F03P02-13	End RCP	Concrete	FAIRVIEW ROAD STORM DRAIN	-9999
172	Underground Conduit	F	F01S01-01.01	F01 confluence to Grade Break (Under I-405)	Concrete	AIRPORT STORM CHANNEL	-9999
172	Underground Conduit	F	F01S01-02.01	Upstream I-405 to Grade Break	Concrete	AIRPORT STORM CHANNEL	-9999
172	Underground Conduit	F	F01S01-02.04	Double Box Trans. Struct. to d/s Open Channel	Concrete	AIRPORT STORM CHANNEL	-9999
172	Concrete-Lined	F	F01S01-02.05	Open Channel	Concrete	AIRPORT STORM CHANNEL	-9999
172	Underground Conduit	F	F01S01-02.02	Single Box Transition Structure	Concrete	AIRPORT STORM CHANNEL	-9999
172	Underground Conduit	F	F01S01-02.03	Double Box Transition Structure	Concrete	AIRPORT STORM CHANNEL	-9999
172	Concrete-Lined	F	F01S01-02.08	Invert Ramp	Conc/Riprap	AIRPORT STORM CHANNEL	-9999
172	Underground Conduit	F	F01S01-02.09	Upstream Invert Ramp to Open Channel	Concrete	AIRPORT STORM CHANNEL	-9999
172	Concrete-Lined	F	F01S01-02.10	Upstream RCB to d/s Fwy 55	Concrete	AIRPORT STORM CHANNEL	-9999
172	Underground Conduit	F	F01S01-11	Access Road	Concrete	AIRPORT STORM CHANNEL	-9999
172	Concrete-Lined	F	F01S01-12.03	Upstream Transition to d/s RedHill Ave Transition	Concrete	AIRPORT STORM CHANNEL	-9999
172	Concrete-Lined	F	F01S01-12.01	Upstream Access Road to Transition Structure	Concrete	AIRPORT STORM CHANNEL	-9999
172	Concrete-Lined	F	F01S01-12.02	Transition Structure	Concrete	AIRPORT STORM CHANNEL	-9999
172	Concrete-Lined	F	F01S01-12.04	Downstream Red Hill Ave. Transition	Conc/Riprap	AIRPORT STORM CHANNEL	-9999
173	Underground Conduit	F	F01S03-01	Junction Structure to Conc. Collar	Concrete	BAKER STORM CHANNEL	-9999
173	Underground Conduit	F	F01S03-02	Conc. Collar to Conc. Collar	Concrete	BAKER STORM CHANNEL	-9999
173	Underground Conduit	F	F01S03-03	to Junction Stucture	Concrete	BAKER STORM CHANNEL	-9999
173	Underground Conduit	F	F01S03-04	Junction Structure to End RCP	Concrete	BAKER STORM CHANNEL	-9999
173	Concrete-Lined	F	F01S03-05	Transition Structure	Concrete	BAKER STORM CHANNEL	-9999
173	Concrete-Lined	F	F01S03-06	Begin Trap Channel to d/s Fischer Ave	Concrete	BAKER STORM CHANNEL	-9999
173	Concrete-Lined	F	F01S03-07	Fischer Ave to End Trap Channel	Concrete	BAKER STORM CHANNEL	-9999
191	Underground Conduit	F	F08S01-10	Alton Ave	Concrete	ARMSTRONG STORM CHANNEL	-9999
191	Earth Channel	F	F08S01-09	to d/s Alton Ave.	Concrete	ARMSTRONG STORM CHANNEL	-9999
191	Underground Conduit	F	F08S01-08	McGaw Ave RCB	Concrete	ARMSTRONG STORM CHANNEL	-9999
191	Earth Channel	F	F08S01-07	to d/s McGaw Ave	Concrete	ARMSTRONG STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
191	Earth Channel	F	F08S01-06	to Drainage structure	Concrete	ARMSTRONG STORM CHANNEL	-9999
191	Earth Channel	F	F08S01-04	u/s Confluence with F08	Concrete	ARMSTRONG STORM CHANNEL	-9999
191	Underground Conduit	F	F08S01-02	Gillette Ave.	Concrete	ARMSTRONG STORM CHANNEL	-9999
191	Concrete-Lined	F	F08S01-03	Transition	Concrete	ARMSTRONG STORM CHANNEL	-9999
191	Concrete-Lined	F	F08S01-01	F08 Confluence	Concrete	ARMSTRONG STORM CHANNEL	-9999
193	Underground Conduit	F	F09P15-01	u/s Barranca Pkwy	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-02	to Manhole	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-03	Manhole to Grade Break	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-04	d/s Carnegie Ave	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-05	Carnegie Ave	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-06	u/s Carnegie to Manhole	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-07	to Warner Ave	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-08	Warner Ave RCB	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-09	to Grade Break	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-10	Grade Break to Manhole	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-13	u/s Bell Ave	Concrete	BARRANCA STORM DRAIN	-9999
193	Underground Conduit	F	F09P15-12	Bell Ave	Concrete	BARRANCA STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-02	to Grade Break	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-03	to Grade Break	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
223	Underground Conduit	G	G00P01-05	to Grade Break	Concrete	EAST NEWPORT HEIGHTS STORM DRAIN	-9999
190	Underground Conduit	F	F08P07-03	U/S Koll Center (to 24" pipe)	Concrete	MICHELSON STORM DRAIN	-9999
181	Underground Conduit	F	F06S02-01	U/S F01 Confluence to Grade Break	Concrete	VALENCIA STORM CHANNEL	-9999
181	Underground Conduit	F	F06S02-02	Grade Break to Grade Break	Concrete	VALENCIA STORM CHANNEL	-9999
181	Underground Conduit	F	F06S02-03	Grade Break to Const. Manhole	Concrete	VALENCIA STORM CHANNEL	-9999
181	Underground Conduit	F	F06S02-04	Manhole to Manhole	Concrete	VALENCIA STORM CHANNEL	-9999
181	Underground Conduit	F	F06S02-06	Harvard Ave	Concrete	VALENCIA STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-03.03	Grade Break to Grade Break	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-01.01	Confluence of Peters Canyon to Grade Break	Concrete	COMO STORM CHANNEL	-9999
182	Underground Conduit	F	F06S03-02	Harvard Ave.	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-03.01	u/s of Harvard Ave. to Grade Break	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-03.02	Grade Break to Grade Break	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-01.03	Grade Break to d/s Harvard Ave.	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-01.02	Grade Break to d/s Harvard Ave.	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-03.04	Grade Break to d/s Culver Rd.	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-07.03	Grade Break to Grade Break	Concrete	COMO STORM CHANNEL	-9999
182	Underground Conduit	F	F06S03-06	Yale Ave.	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-05.04	Grade Break to Yale Ave.	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-05.03	Grade Break to Grade Break (Transition)	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-05.01	u/s Culver Rd. to Grade Break	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-07.01	u/s Yale Ave. to Grade Break (Transition)	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-07.02	Grade Break to Grade Break	Concrete	COMO STORM CHANNEL	-9999
182	Earth Channel	F	F06S03-07.04	Grade Break to Grade Break	Concrete	COMO STORM CHANNEL	-9999
517	Underground Conduit	F	F10P02-01	u/s Confluence to F10	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-02	to Junction Structure	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-03	d/s Sycamore Ave.	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-04	d/s Myrtle Ave.	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-05	Myrtle Ave	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-06	to Junction Structure	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-07	to Grade Break	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
517	Underground Conduit	F	F10P02-08	to Grade Break	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-09	d/s McFadden (Grade Break)	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-10	to Junction Structure	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-11	Mitchell Ave	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-12	u/s Mitchell Ave	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-13	to Grade Break	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-14	d/s I-405	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
517	Underground Conduit	F	F10P02-16	d/s El Camino Real	Concrete	TUSTIN-NEWPORT STORM DRAIN	-9999
572	Concrete-Lined	F	F26P01-01	Rattlesnake Canyon	Concrete	EASTFOOT STORM DRAIN	-9999
572	Concrete-Lined	F	F26P01-02	Grade Break	Concrete	EASTFOOT STORM DRAIN	-9999
572	Concrete-Lined	F	F26P01-04	to d/s Portola Pkwy	Concrete	EASTFOOT STORM DRAIN	-9999
752	Riprap Channel	F	F25S05-01	u/s Trabuco Retarding Basin	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-02	to Junction Structure	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-03	to Manhole	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-04	to d/s existing packing house	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-05	to Grade Break	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-06	to Grade Break (begin transition)	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-07	transition structure	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-08	to d/s Irvine Blvd.	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-09	modified grading area	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-10	Irvine Blvd.	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-14	Groveland (B St)	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-11	Grade Break to Grade Break	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
752	Underground Conduit	F	F25S05-12	1320' u/s Jeffrey/Irvine Blvd. (G.B.)	Concrete	NORTHWEST COLLECTOR CHANNEL	-9999
219	Concrete-Lined	F	F25B01-04	Baffle Blocks Drop	Concrete	TRABUCO RETARDING BASIN	-9999
219	Concrete-Lined	F	F25B01-05	Transition	Concrete	TRABUCO RETARDING BASIN	-9999
219	Underground Conduit	F	F25B01-06	Double-RCB	Concrete	TRABUCO RETARDING BASIN	-9999
219	Concrete-Lined	F	F25B01-07	Transition	Concrete	TRABUCO RETARDING BASIN	-9999
219	Underground Conduit	F	F25B01-01	Double-RCB	Concrete	TRABUCO RETARDING BASIN	-9999
219	Concrete-Lined	F	F25B01-02	Transition	Concrete	TRABUCO RETARDING BASIN	-9999
219	Earth Channel	F	F25B01-03	Basin	Concrete/Earth	TRABUCO RETARDING BASIN	-9999
523	Underground Conduit	F	F13P01-01	U/S La Colina Dr to Grade Break	Concrete/Earth	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-02	Grade Break to Grade Break	Concrete/Earth	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-03	to d/s Risa Place	Earth	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-04	to Grade Break (Junction Structure)	Concrete	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-05	Foothill Blvd	Concrete	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-06	U/S Foothill Blvd to Junction Structure	Concrete	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-07	to Grade Break (Manhole)	Earth	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-08	to Treasure Lane	Concrete	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-09	to Junction Structure	Concrete	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-10	to Grade Break (Manhole)	Concrete	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-11	to d/s La Limonar Rd (Manhole)	Earth	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-12	to Grade Break	Concrete/Earth	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-14	to Grade Break	Earth	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-13	to d/s Coronel Rd.	Concrete/Earth	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-15	to Grade Break	Concrete/Earth	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-16	(Missing segment from as-built)	Concrete/Earth	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-17	Join Existing to Grade Break	Concrete	ARROYO STORM DRAIN	-9999
523	Underground Conduit	F	F13P01-19	Glenaire Drive	Concrete	ARROYO STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
375	Underground Conduit	B	B02P04-01	to Exisiting 12' x 6' RCB	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-02	Approximately 831 LF of 12' x 6' RCB	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-03	Transition U/S from Valley View St. to Grade Break	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-04	to Grade Break	Concrete/Earth	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-05	to Transition Structure on San Rafael Dr.	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-06	to End Transition Structure	Concrete/Earth	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-07	to San Mateo Circle	Concrete/Earth	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-08	to San Diego Dr.	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-09	to Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-10	to End Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-11	to U/S San Marino Dr.	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-12	to Begin Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-13	to Encase Sanitary Sewer	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-14	Sanitary Sewer	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-15	to End Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-16	to Next Transition Structure at La Corona Way	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-17	to Sanitary Sewer	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-18	Sanitary Sewer	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-19	to End Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-20	to Grade Break	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-21	to La Fiesta Dr.	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-22	to Intersection Point	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-23	to Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-24	to End Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-40	to Grade Break	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-28	to End Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-26	to Sanitary Sewer	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-27	Sanitary Sewer	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-30	to Transition Structure (5 LF)	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-29	to Grade Break	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-31	5 LF Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-32	to Man Hole	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-33	to Transition Structure at Monte Dr.	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-34	to Squash Box	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-35	Squash Box	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-36	to End Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-37	to Junction Structure before El Domino Way	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-38	to Grade Break	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-39	to Man Hole	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-41	to Western Ave.	Concrete	LA PALMA STORM DRAIN	-9999
375	Underground Conduit	B	B02P04-42	to End Transition Structure	Concrete	LA PALMA STORM DRAIN	-9999
91	Concrete-Lined	B	B02S02-11	to Transition Structure	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-17	End Construction Corner of Walker and Danny Sts.	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-16	Height Transition	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-15	Transition Structure at Watson St.	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-14	to RCP Inlet	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-13	to Height Transition	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-12	to End Transition Structure	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-03	to Next Transition Structure	Concrete	DAIRYLAND STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
91	Concrete-Lined	B	B02S02-10	to U/S Moody St.	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-09	Moody St.	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-08	to D/S Moody St.	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-07	to Transition Structure	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-06	to U/S Crescent Ave.	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-05	Crescent Ave.	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-04	to D/S Crescent Ave.	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-01	Moody Creek Channel to Transition Structure	Concrete	DAIRYLAND STORM CHANNEL	-9999
91	Concrete-Lined	B	B02S02-02	Transition Structure	Concrete	DAIRYLAND STORM CHANNEL	-9999
70	Underground Conduit	A	A01P03-18	Beginning Construction continuing P03-06	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-19	to Next Manhole	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-20	to Beginning Squash Box	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-21	to End Squash Box	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-22	to Manhole	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-23	to Next Manhole	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-24	to Next Manhole	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-17	to Valley View St.	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-16	to Next Manhole	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-15	to Next Manhole	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-14	to Next Manhole	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-13	to Next Manhole	Concrete	ORANGETHORPE STORM DRAIN	-9999
70	Underground Conduit	A	A01P03-12	Beginning Construction to Manhole	Concrete	ORANGETHORPE STORM DRAIN	-9999
75	Concrete-Lined	A	A03S01-36	to Next Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete Soft Base	A	A03S01-02	to Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete Soft Base	A	A03S01-07	to Earth Channel	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Riprap Channel	A	A03S01-08	to Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-09	to Double R.C. Culvert	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Underground Conduit	A	A03S01-10	to End Dbl. R.C. Culvert	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-11	to Earth Channel	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Riprap Channel	A	A03S01-12	to Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-13	to RCB Culvert	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Underground Conduit	A	A03S01-14	to R.C. Vertical Wall	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-15	to End R.C. Vertical Wall	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Underground Conduit	A	A03S01-16	to End Double Culvert	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-17	to End Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete Soft Base	A	A03S01-20	to Transition	Earth	BUENA PARK STORM CHANNEL	-9999
75	Concrete Soft Base	A	A03S01-19	to 6' V-Bottom Channel	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete Soft Base	A	A03S01-21	to 5' V-Bottom Channel	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete Soft Base	A	A03S01-22	to Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-23	to RCB Culvert	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-24	to Transition	Earth	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-25	to End Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete Soft Base	A	A03S01-27	to Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-28	to RCB Culvert	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete Soft Base	A	A03S01-26	to Existing Fullerton Relief Channel	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-31	to RCB Culvert	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-34	to Knott Ave.	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-33	to 8 x 4 RCB Culvert	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-32	to Next Transition	Concrete	BUENA PARK STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
75	Concrete-Lined	A	A03S01-30	to End Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-29	to Next Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-35	to End Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-37	to Southern Pacific Railroad	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete Soft Base	A	A03S01-06	to Next Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-04	to Next Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-05	to End Transition	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-03	to Caballero Blvd.	Concrete	BUENA PARK STORM CHANNEL	-9999
75	Concrete-Lined	A	A03S01-01	Beginning Drop Structure to 6' V-Bottom Channel	Concrete	BUENA PARK STORM CHANNEL	-9999
77	Concrete-Lined	A	A03S03-01	to Grade Break	Concrete	ASH STORM CHANNEL	-9999
77	Concrete-Lined	A	A03S03-08	to Transition	Concrete	ASH STORM CHANNEL	-9999
77	Concrete-Lined	A	A03S03-06	to Olin St.	Concrete	ASH STORM CHANNEL	-9999
77	Concrete-Lined	A	A03S03-05	to R.C. Culvert D/S of Olin St.	Concrete	ASH STORM CHANNEL	-9999
77	Concrete-Lined	A	A03S03-02	to Transition	Concrete	ASH STORM CHANNEL	-9999
77	Concrete-Lined	A	A03S03-03	to End Transition	Concrete	ASH STORM CHANNEL	-9999
77	Concrete-Lined	A	A03S03-07	to U/S of Olin St.	Concrete	ASH STORM CHANNEL	-9999
77	Concrete-Lined	A	A03S03-09	to D/S of Magnolia	Concrete	ASH STORM CHANNEL	-9999
77	Concrete-Lined	A	A03S03-10	to Magnolia St.	Concrete	ASH STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-01	Confluence with A03	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-02	to End Transition	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-03	to Transition	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-04	to D/S Orangethorpe	Concrete	HOUSTON STORM CHANNEL	-9999
76	Underground Conduit	A	A03S02-05	to Orangethorpe	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-06	to U/S Orangethorpe	Concrete	HOUSTON STORM CHANNEL	-9999
76	Underground Conduit	A	A03S02-07	to Next Transition	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-08	to End Transition	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-09	to Transition at D/S Magnolia St.	Concrete	HOUSTON STORM CHANNEL	-9999
76	Underground Conduit	A	A03S02-11	to Magnolia St.	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-10	to D/S Magnolia St.	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-12	to End Transition @ U/S Magnolia	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-13	to Transition at D/S Gilbert St.	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-14	to D/S Gilbert St.	Concrete	HOUSTON STORM CHANNEL	-9999
76	Underground Conduit	A	A03S02-15	to Gilbert St.	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-16	to End Transition @ U/S Gilbert St.	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-17	to Next Transition @ D/S Brookhurst	Riprap	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-18	to Brookhurst St.	Concrete	HOUSTON STORM CHANNEL	-9999
76	Underground Conduit	A	A03S02-19	to Transition U/S Brookhurst St.	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-20	to Earth Channel	Concrete	HOUSTON STORM CHANNEL	-9999
76	Underground Conduit	A	A03S02-21	to Improved R.C. Channel	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-22	to Grade Break	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-23	to P.C.C. Channel	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-24	to Grade Break	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-25	to Next Grade Break	Concrete	HOUSTON STORM CHANNEL	-9999
76	Concrete-Lined	A	A03S02-27	to D/S Euclid St.	Concrete	HOUSTON STORM CHANNEL	-9999
69	Underground Conduit	A	A01P01-01A	Coyote Creek to Fourth St.	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-02A	to Next Grade Break	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-03A	to Transition d/s Railroad	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-03B	to Transition d/s Railroad	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-02B	to Next Grade Break	Concrete	MONTE VISTA STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
69	Underground Conduit	A	A01P01-04	RR Right-of-way	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-05	Continued Construction to Grade Break	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-06	U/S Railroad to Junction Structure	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-07	to Next Grade Break	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-08	to Manhole	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-09	to Junction Structure	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-10	to Grade Break	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-11	to Manhole	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-12A	to Next Junction Structure	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-13B	End of RCP	Concrete	MONTE VISTA STORM DRAIN	-9999
69	Underground Conduit	A	A01P01-12B	to Grade Break	Concrete	MONTE VISTA STORM DRAIN	-9999
348	Underground Conduit	A	A01P09-01	Beginning Construction to Oil Line	Concrete	EUCLID STORM DRAIN	-9999
348	Underground Conduit	A	A01P09-02	to Grade Break	Concrete	EUCLID STORM DRAIN	-9999
348	Underground Conduit	A	A01P09-03	to Second Ave.	Concrete	EUCLID STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-01	Junction w/ A01	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-02	to Grade Break at Superior Ave.	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-03	to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-04	to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-05	to Grade Change (south of Alpine St.)	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-06	to Grade Change (La Habra Blvd.)	Riprap	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-07	To Stearns Ave.	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-08	to Colfax Street	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-09	16' Transition/MH at Stearns & Colfax	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-10	Along Colfax Street	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-11	Just south of Francis	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-12	Transition	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-13	Grade Change to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-14	Grade Change to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-15	Grade Change to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-16	Grade Change to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-17	Grade Change to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-18	Grade Change to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-19	Grade Change to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
72	Underground Conduit	A	A01P22-20	Grade Change to Grade Change	Concrete	COLFAX STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-02	Downstream junction with RC Box at Harbor Blvd.	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-03	Downstream of Upstream interceptor	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-04	Upstream interceptor	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-09	Upstream of Squash Box To Coriander Dr.	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-05	Upstream interceptor to downstream squash box	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-08	Squash Box, U/S Transition	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-07	Squash Box	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-06	Squash Box, D/S Transition	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-12	To MH upstream of Baker St.	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-11	MH	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-14	Upstream Baker St. MH	Concrete	MESA VERDE STORM DRAIN	-9999
412	Underground Conduit	D	D03P02-13	MH	Riprap	MESA VERDE STORM DRAIN	-9999
133	Underground Conduit	D	D03P08-05		Concrete	TIMES STORM DRAIN	-9999
133	Underground Conduit	D	D03P08-03		Concrete	TIMES STORM DRAIN	-9999
133	Underground Conduit	D	D03P08-01		Concrete	TIMES STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
406	Underground Conduit	C	C06P05-02	660' north of Newhope Street	Concrete	NEWHOPE STORM DRAIN	-9999
393	Underground Conduit	C	C04P12-03	Beginning of RC Box to Trask Ave on Taft Street	Concrete	TAFT STORM DRAIN	-9999
393	Underground Conduit	C	C04P12-08	Upstream end at Century Blvd.	Concrete	TAFT STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-01	Downstream Junction at Cerritos Ave.	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-02	Grade Change downstream Winston Road	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-03	Grade Change downstream Ball Road	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-04	To Ball Road squash box	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-05	Downstream Transition Squash box	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-06	Squash Box	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-07	Upstream Transition Squash	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-08	Upstream Ball Road to end of const.	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-09	Upstream Ball Road (Transition)	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-10	Upstream transition to squash box at Almont Ave.	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-11	Squash box downstream transition	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-12	Squash Box	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-13	Squash box upstream transition	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-14	Upstream transition to squash box at Clifpark Way	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-15	Squash box downstream transition	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-16	Squash Box	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-17	Squash box upstream transition	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-18	To Wagner Ave.	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-19	Squash box downstream transition	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-20	Squash Box at Wagner	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-21	Squash box upstream transition	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-22	Manhole- Grade Change	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-23	Manhole	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-24	At grade Change	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-25	Manhole- Grade Change at Vermont Ave.	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-26	Upstream Vermont Ave.	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-27	Upstream Vermont Ave.	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-28	Upstream of Savoy Avenue	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-29	To D/S Manhole at Virginia Ave.	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-30	To D/S Manhole at Westport Drive	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-31	Manhole at Westport Drive	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-36	Upstream end at Underhill Ave.	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-33	Upstream of Lincoln	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-34	MH at Center Street	Concrete	STATE COLLEGE STORM DRAIN	-9999
443	Underground Conduit	E	E12P01-35	Manhole at Center Street	Riprap	STATE COLLEGE STORM DRAIN	-9999
426	Underground Conduit	E	E01S02-01	Santa Ana Confluence	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-02	Ball Road	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-03	To 15' utility easemnet	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-04	to downstream Wagner	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-05	Wagner Ave.	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-06	to downstream South Street	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-07	to downstream South Street	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-08	Downstream Transition	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-09	Upstream Transition	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-10	Downstream of inlet structure (d/s of South St.)	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-11	Upstream of inlet structure (d/s of South St.)	Concrete	CHANTILLY STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
426	Underground Conduit	E	E01S02-12	To downstream transition	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-13	Transition	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-14	To Junction Structure at Lincoln Ave.	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-15	Grade change at Lincoln Ave.	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-16	To downstream RC Channel	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-17	RC Channel Section	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-18		Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-19	Grade Change	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-20	Grade change and transition	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-21	Downstream Access Ramp transition	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-22	Upstream Access Ramp transition	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-23	Upstream of Access Ramp to Transtion	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-24	Transtion downstream of La Palma	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-25	RCB Between Transtions	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-26	Transtion downstream of La Palma	Concrete	CHANTILLY STORM CHANNEL	-9999
426	Underground Conduit	E	E01S02-28	Transtion	Concrete	CHANTILLY STORM CHANNEL	-9999
430	Underground Conduit	E	E03P01-09	Upstream Lawn Ave. to upstream end	Concrete	PALM-VALENCIA STORM DRAIN	-9999
430	Underground Conduit	E	E03P01-02	Warren Street MH to Cedarlawn Drive	Concrete	PALM-VALENCIA STORM DRAIN	-9999
430	Underground Conduit	E	E03P01-01	Upstream E03 Warren St.	Concrete	PALM-VALENCIA STORM DRAIN	-9999
430	Underground Conduit	E	E03P01-04	Valencia Ave. to Rockaway Dr.	Concrete	PALM-VALENCIA STORM DRAIN	-9999
430	Underground Conduit	E	E03P01-05	Upstream Rockaway Dr. to GC	Concrete	PALM-VALENCIA STORM DRAIN	-9999
430	Underground Conduit	E	E03P01-06	Upstream GC to Highlander	Concrete	PALM-VALENCIA STORM DRAIN	-9999
430	Underground Conduit	E	E03P01-07	Downstream Yorba Linda Blvd. to Highlander	Concrete	PALM-VALENCIA STORM DRAIN	-9999
430	Underground Conduit	E	E03P01-08	Upstream Yorba Linda Blvd to downstream Lawn Ave.	Concrete	PALM-VALENCIA STORM DRAIN	-9999
141	Concrete-Lined	E	E01S04-01	Junction w/ Santa Ana River	Concrete	DEERFIELD CHANNEL	-9999
141	Concrete-Lined	E	E01S04-02	Transition	Concrete	DEERFIELD CHANNEL	-9999
141	Concrete-Lined	E	E01S04-03	Upstream Transition to Riverdale Ave.	Concrete	DEERFIELD CHANNEL	-9999
141	Concrete-Lined	E	E01S04-04	Transition downstream Riverdale Ave.	Concrete	DEERFIELD CHANNEL	-9999
141	Concrete-Lined	E	E01S04-05	Riverdale Ave. RCB	Concrete	DEERFIELD CHANNEL	-9999
141	Concrete-Lined	E	E01S04-06	Transition upstream Riverdale Ave.	Concrete	DEERFIELD CHANNEL	-9999
141	Concrete-Lined	E	E01S04-07	Lined Channel upstream Riverdale Ave.	Concrete	DEERFIELD CHANNEL	-9999
141	Concrete-Lined	E	E01S04-08	To upstream transition	Concrete	DEERFIELD CHANNEL	-9999
141	Concrete-Lined	E	E01S04-09	Transition	Concrete	DEERFIELD CHANNEL	-9999
141	Concrete-Lined	E	E01S04-12	Addington Drive and up	Concrete	DEERFIELD CHANNEL	-9999
141	Concrete-Lined	E	E01S04-11	Downstream transition of Addington Drive	Steel/Earth	DEERFIELD CHANNEL	-9999
151	Concrete-Lined	E	E06S01-02	C.L Via Roble	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Concrete-Lined	E	E06S01-01	Ddownstream Junction with E06	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Concrete-Lined	E	E06S01-00	Confluence with E06	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Concrete-Lined	E	E06S01-03	Between Via Roble and Calle Delgado	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Concrete-Lined	E	E06S01-04	Via Mariposa	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Concrete-Lined	E	E06S01-05	Downstream Easement	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Concrete-Lined	E	E06S01-06	Within Easement, from RCB to RCC	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Concrete-Lined	E	E06S01-07	RCC	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Concrete-Lined	E	E06S01-08	upstream to downstream	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Concrete-Lined	E	E06S01-09	upstream to downstream	Concrete	BLUE MUD CANYON CHANNEL	-9999
418	Underground Conduit	E	E01P63-05	to south of RR tracks	Concrete	YORBA PARK STORM DRAIN	-9999
418	Underground Conduit	E	E01P63-04	Upstream Samantha Circle to RR R/W	Concrete	YORBA PARK STORM DRAIN	-9999
418	Underground Conduit	E	E01P63-03	Upstream of La Palma to Samantha Circle MH	Concrete	YORBA PARK STORM DRAIN	-9999
418	Underground Conduit	E	E01P63-02	Upstream of La Palma	Concrete	YORBA PARK STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
142	Underground Conduit	E	E01S09-02	Downstream Transition	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-03	Downstream Camino Manzano	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Underground Conduit	E	E01S09-04	Camino Manzano	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-05	Upstream Transition	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-06	Upstream Camino Manzano channel	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-07	Trapezoidal Channel Height Transition	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-08	To Camino Correr-Trapezoidal Channel	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-09	Trapezoidal Channel Transition to RCB	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Underground Conduit	E	E01S09-10	Upstream to Camino Correr	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Underground Conduit	E	E01S09-11	Santa Ana Canyon Road	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Underground Conduit	E	E01S09-13	upstream to downstream	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-14	Transition	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-12	upstream to downstream	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-15	Upstream Santa Ana Canyon Rd	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Underground Conduit	E	E01S09-17	La Paz Way	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-16	Transition	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-18	Transition	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Underground Conduit	E	E01S09-24	Anaheim Hills Road	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-19	to Grade Break	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Underground Conduit	E	E01S09-23	Downstream Anaheim Hills Road	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-26	Upstream Anaheim Hills Rd	Earth	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-27	Transition	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-28	Downtream Canyon Rim Rd	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-32	Upstream Canyon Rim Rd	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-31	Transition	Earth	WALNUT CANYON STORM CHANNEL	-9999
142	Underground Conduit	E	E01S09-30	Canyon Rim Road	Riprap	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-29	Transition	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-25	Transition	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-22	Transition	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-21	to Grade Break	Concrete	WALNUT CANYON STORM CHANNEL	-9999
142	Concrete-Lined	E	E01S09-33	to end of OCFCD R/R	Concrete	WALNUT CANYON STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-02	Upstream of maintenance road	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Underground Conduit	E	E01S01-04	RC Box Culvert at La Palma	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-11	To downstream transition	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-17	Upstream end inlet	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-03	Downstream Transition from La Palma	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-05	Upstream Transition from La Palma	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-06	Grade Change	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-07	Grade change	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-08	Grade change	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-09	Grade change	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-10	Grade change	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-12	Transition	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Underground Conduit	E	E01S01-13	RC Box at RR	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Concrete-Lined	E	E01S01-14	RC Box at RR, Grade Change	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Underground Conduit	E	E01S01-15	RC Box at RR, upstream end	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
140	Underground Conduit	E	E01S01-01	Upstream of confluence with Santa Ana River	Concrete	EAST RICHFIELD STORM CHANNEL	-9999
416	Underground Conduit	E	E01P14-14	to Grade Break	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-12	Esperanza Rd. at Fairlynn Blvd.	Concrete	ESPERANZA ROAD STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
416	Underground Conduit	E	E01P14-11	Upstream transition	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-10	Upstream of MH to transition	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-09	to MH	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-08	MH at Esperanza Road	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-07	Esperanza Road	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-06	Center Line of Esperanza Road	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-05	d/s corner of Esperanza Rd. and Imperial Hwy.	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-19	to Catch Basin	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-18	to Grade Break	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-17	to Grade Break	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-16	to Grade Break	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-15	to Grade Break	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
416	Underground Conduit	E	E01P14-13	Esperanza Rd	Concrete	ESPERANZA ROAD STORM DRAIN	-9999
151	Underground Conduit	E	E06S01-10	downstream Via Mariposa	Riprap	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-11	Downstream Circulo Nuevo	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-12	downstream Calle Sonora	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-13	upstream Calle Sonora	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-25	Inlet Structure	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-14	downstream Yorba Linda Blvd	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-15	downstream Via de la Escuela	Steel/Earth	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-16	Transition	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-17	upstream Via del la Escuela	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-18	to Grade Break	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-19	to Grade Break	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-20	upstream Yorba Linda Blvd	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-21	at Via de la Espuela	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-22	downstream Via de la Reata	Concrete	BLUE MUD CANYON CHANNEL	-9999
151	Underground Conduit	E	E06S01-23	downstream Via de la Corral	Concrete	BLUE MUD CANYON CHANNEL	-9999
251	Underground Conduit	L	L02P02-04	Transition Structure to u/s Railroad	Concrete	CASITAS CAPISTRANO ST. DRAIN	-9999
251	Underground Conduit	L	L02P02-03	d/s Railroad to Transition Structure	Concrete	CASITAS CAPISTRANO ST. DRAIN	-9999
251	Underground Conduit	L	L02P02-02	Calle La Purisima to d/s Railroad	Concrete	CASITAS CAPISTRANO ST. DRAIN	-9999
251	Natural Watercourse	L	L02P02-00	Low Flow Channel	Concrete	CASITAS CAPISTRANO ST. DRAIN	-9999
247	Concrete-Lined	L	L01S01-12	Grade Break to Grade Break	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-11	Grade Break to Grade Break	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-13	Grade Break to d/s Del Obispo St	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-10	Grade Break to Grade Break	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-09	Grade Break to Grade Break	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-08	Grade Break to Grade Break	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-07	Grade Break to Grade Break	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-06	Inlet to Grade Break	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Underground Conduit	L	L01S01-01	San Juan Creek to Head Wall	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-04	Transition Structure to Gread Break	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-03	Transition Structure	Concrete	DEL OBISPO STORM CHANNEL	-9999
247	Concrete-Lined	L	L01S01-02	Head Wall to Transition Structure	Concrete	DEL OBISPO STORM CHANNEL	-9999
257	Underground Conduit	L	L03P18-07	to Manhole	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-18	to d/s Tindaya	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-19	Manhole at d/s Tindaya	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-20	to d/s Calefa	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-21	Manhole at d/s Calefa	Earth	OSO DIVERSION STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
257	Underground Conduit	L	L03P18-22	to Manhole between Tefir and San Lucas	Earth	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-23	Manhole between Tefir and San Lucas	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-24	to Manhole between San Lucas and El Charco	Earth	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-25	Manhole between San Lucas and El Charco	Earth	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-26	to Manhole	Earth	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-27	Manhole	Earth	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-29	to the end	Earth	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-17	to Grade Break	Concrete/Earth	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-16	Manhole	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-15	to Manhole	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-14	Manhole	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-13	to Manhole	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-12	to Grade Break	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-11	Manhole	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-10	to Manhole at u/s Calle Azorin	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-09	to Grade Break	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-08	Manhole	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-03	to u/s Alicia	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-06	Catch Basin	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-05	to Catch Basin	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-04	Junction Structure	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-01	L03 to d/s Alicia	Concrete	OSO DIVERSION STORM DRAIN	-9999
257	Underground Conduit	L	L03P18-02	Junction Structure	Concrete	OSO DIVERSION STORM DRAIN	-9999
551	Underground Conduit	F	F19S02-09	to Grade Break	Concrete	LOS ALISOS CHANNEL	-9999
551	Underground Conduit	F	F19S02-08	at Dimension Dr	Concrete	LOS ALISOS CHANNEL	-9999
551	Underground Conduit	F	F19S02-07	to Dimension Dr	Concrete	LOS ALISOS CHANNEL	-9999
551	Underground Conduit	F	F19S02-05	Grade Break to Grade Break	Concrete	LOS ALISOS CHANNEL	-9999
551	Underground Conduit	F	F19S02-04	Energy Dissipator to Grade Break	Concrete	LOS ALISOS CHANNEL	-9999
551	Concrete-Lined	F	F19S02-03	Energy Dissipator	Riprap	LOS ALISOS CHANNEL	-9999
162	Earth Channel	E	E08P06-00	Confluence with E08	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-01	Upstream E08 to McPherson Road	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-02	Upstream McPherson Road to Prospect	Riprap	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-03	Upstream of Prospect	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-04	Upstream of Prospect at MH	Riprap	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-05	Upstream grade change	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-06	To James St.	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-07	To steep grade section	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-10	Apartment Complex	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-11	Junction Structure	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-12	Downstream Esplanade St	Riprap	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-13	Junction Structure	Riprap	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-14	Pearl St between Esplanade & Earlham	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-15	Junction Structure	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-21	Spring St	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-16	Earlham upstream Pearl St	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-17	Downstream Center St	Riprap	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-18	Junction Structure	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-19	Upstream & downstream Vine St	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-20	Junction Structure	Concrete	EL MODENA STORM DRAIN	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
162	Underground Conduit	E	E08P06-22	Junction Structure	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-23	Upstream Spring St	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-24	Junction Structure	Concrete	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-25	Downstream Palm Ave	Riprap	EL MODENA STORM DRAIN	-9999
162	Underground Conduit	E	E08P06-09	Junction Structure	Riprap	EL MODENA STORM DRAIN	-9999
0	Underground Conduit	F	F07P30-05	RCP	Concrete/Earth	NO NAME	-9999
0	Underground Conduit	F	F07P30-04	Junction Structure	Concrete/Earth	NO NAME	-9999
0	Underground Conduit	F	F07P30-02	Junction Structure	Concrete	NO NAME	-9999
228	Underground Conduit	H	H00P01-05	18" Pipe to 18" Pipe	Concrete	HIGHLAND DORCHESTER STORM DRAIN	-9999
228	Underground Conduit	H	H00P01-09	18" Pipe to 18" Pipe	Concrete	HIGHLAND DORCHESTER STORM DRAIN	-9999
228	Underground Conduit	H	H00P01-10	18" Pipe to End	Concrete	HIGHLAND DORCHESTER STORM DRAIN	-9999
228	Underground Conduit	H	H00P01-02	18" Pipe to 18" Pipe	Concrete	HIGHLAND DORCHESTER STORM DRAIN	-9999
228	Underground Conduit	H	H00P01-08	Grade break to 18" Pipe	Concrete	HIGHLAND DORCHESTER STORM DRAIN	-9999
228	Underground Conduit	H	H00P01-07	Manhole to Grade break	Concrete	HIGHLAND DORCHESTER STORM DRAIN	-9999
228	Underground Conduit	H	H00P01-06	18" Pipe to manhole d/s Pelican Hill Circle	Concrete	HIGHLAND DORCHESTER STORM DRAIN	-9999
228	Underground Conduit	H	H00P01-04	Manhole to 18" Pipe	Concrete	HIGHLAND DORCHESTER STORM DRAIN	-9999
228	Underground Conduit	H	H00P01-03	18" Pipe to Manhole	Concrete	HIGHLAND DORCHESTER STORM DRAIN	-9999
228	Underground Conduit	H	H00P01-01	Beginning to 18" Pipe	Concrete	HIGHLAND DORCHESTER STORM DRAIN	-9999
201	Concrete-Lined	F	F14S01-03	to d/s Culver Dr (end channel)	Concrete	CULVER STORM CHANNEL	-9999
201	Concrete-Lined	F	F14S01-02	to Grade Break (Junction)	Concrete	CULVER STORM CHANNEL	-9999
421	Underground Conduit	E	E01P79-01	Upstream D05 Confluence	Concrete	SOUTHPARK STORM DRAIN	-9999
421	Underground Conduit	E	E01P79-03	Southpark Ave	Concrete	SOUTHPARK STORM DRAIN	-9999
421	Underground Conduit	E	E01P79-02	Downstream Southpark Ave	Concrete	SOUTHPARK STORM DRAIN	-9999
423	Underground Conduit	E	E01P81-02		Concrete	MANCHESTER COMPLEX STORM DRAIN	-9999
423	Underground Conduit	E	E01P81-02		Concrete	MANCHESTER COMPLEX STORM DRAIN	-9999
423	Underground Conduit	E	E01P81-04		Concrete	MANCHESTER COMPLEX STORM DRAIN	-9999
423	Underground Conduit	E	E01P81-03		Concrete	MANCHESTER COMPLEX STORM DRAIN	-9999
249	Underground Conduit	L	L01S06-01	Confluence with L01	Concrete	ALIPAZ STORM CHANNEL	-9999
249	Underground Conduit	L	L01S06-02	Transition Structure	Concrete	ALIPAZ STORM CHANNEL	-9999
126	Underground Conduit	C	C05S11-11	Upstream Lewis St	Riprap	LEWIS STORM CHANNEL	-9999
126	Underground Conduit	C	C05S11-01	At C05	Concrete	LEWIS STORM CHANNEL	-9999
126	Underground Conduit	C	C05S11-05	Garden Grove Blvd culvert	Concrete	LEWIS STORM CHANNEL	-9999
126	Concrete-Lined	C	C05S11-07	Open Channel upstream Garden Grove Blvd	Concrete	LEWIS STORM CHANNEL	-9999
126	Concrete-Lined	C	C05S11-08	Transition downstream Freeway Off-Ramp	Concrete	LEWIS STORM CHANNEL	-9999
126	Concrete-Lined	C	C05S11-09	Open Channel downstream Off-Ramp	Concrete	LEWIS STORM CHANNEL	-9999
126	Concrete-Lined	C	C05S11-04	Transition downstream Garden Grove Blvd	Concrete	LEWIS STORM CHANNEL	-9999
126	Concrete-Lined	C	C05S11-06	Transition upstream Garden Grove Blvd	Concrete	LEWIS STORM CHANNEL	-9999
126	Underground Conduit	C	C05S11-10	Haster St Exit Freeway Off-Ramp	Concrete	LEWIS STORM CHANNEL	-9999
126	Underground Conduit	C	C05S11-03	Reach to Haster Street	Concrete	LEWIS STORM CHANNEL	-9999
126	Underground Conduit	C	C05S11-02	Transition at SS crossing	Concrete	LEWIS STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-12	Open channel upstream Fairview St	Concrete	GISLER STORM CHANNEL	-9999
134	Underground Conduit	D	D03S03-10	Fairview St Culvert	Earth	GISLER STORM CHANNEL	-9999
134	Underground Conduit	D	D03S03-02	Upstream Harbor Blvd	Earth	GISLER STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-11	Transition	Concrete	GISLER STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-14	Maintenance access ramp	Riprap	GISLER STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-13	Transition	Riprap	GISLER STORM CHANNEL	-9999
134	Underground Conduit	D	D03S03-16	Downstream South Coast Dr	Concrete	GISLER STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-09	Transition	Riprap	GISLER STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-08	Open Channel downstream Fairview St	Concrete	GISLER STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-07	Transition	Earth/Riprap	GISLER STORM CHANNEL	-9999

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
134	Concrete-Lined	D	D03S03-04	Open Channel	Concrete/Earth	GISLER STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-05	Transition	Concrete	GISLER STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-03	Transition	Concrete	GISLER STORM CHANNEL	-9999
134	Underground Conduit	D	D03S03-18	South Coast Dr to end of RCB	Concrete	GISLER STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-17	Transition	Concrete	GISLER STORM CHANNEL	-9999
134	Concrete-Lined	D	D03S03-15	Transition	Concrete	GISLER STORM CHANNEL	-9999
134	Underground Conduit	D	D03S03-01	to Triple RCB Transition with D03	Concrete	GISLER STORM CHANNEL	-9999
252	Riprap Channel	L	L02S02-03	Upstream Trabuco Canyon Rd	Concrete	HICKEY CANYON STORM CHANNEL	-9999
252	Riprap Channel	L	L02S02-02	Trabco Canyon Culvert	Concrete	HICKEY CANYON STORM CHANNEL	-9999
231	Underground Conduit	I	I00P03-01	Ocean to Grade Break	Concrete	BLUEBIRD STORM DRAIN	-9999
231	Underground Conduit	I	I00P03-02	Grade Break to Grade Break	Concrete	BLUEBIRD STORM DRAIN	-9999
231	Underground Conduit	I	I00P03-03	Grade Break to Grade Break	Concrete	BLUEBIRD STORM DRAIN	-9999
231	Underground Conduit	I	I00P03-04	Grade Break to Grade Break	Concrete	BLUEBIRD STORM DRAIN	-9999
231	Underground Conduit	I	I00P03-05	Grade Break to Grade Break	Concrete	BLUEBIRD STORM DRAIN	-9999
231	Underground Conduit	I	I00P03-06	Grade Break to u/s Pacific Hwy	Concrete	BLUEBIRD STORM DRAIN	-9999
231	Underground Conduit	I	I00P03-07	u/s Pacific Hwy to Grade Break	Concrete	BLUEBIRD STORM DRAIN	-9999
231	Underground Conduit	I	I00P03-08	Grade Break to Grade Break	Concrete	BLUEBIRD STORM DRAIN	-9999
231	Underground Conduit	I	I00P03-09	Grade Break to Grade Break	Concrete	BLUEBIRD STORM DRAIN	-9999
231	Underground Conduit	I	I00P03-10	Grade Break to Grade Break	Concrete	BLUEBIRD STORM DRAIN	-9999
231	Underground Conduit	I	I00P03-11	Grade Break to Grade Break	Concrete	BLUEBIRD STORM DRAIN	-9999
397	Underground Conduit	C	C05P06-02	McFadden to Bishop Ave	Concrete	MIDWAY CITY STORM DRAIN	
397	Underground Conduit	C	C05P06-04	Pine Street to GB/48" RCP	Concrete	MIDWAY CITY STORM DRAIN	
397	Underground Conduit	C	C05P06-01	Confluence w/ Edinger to McFadden	Concrete	MIDWAY CITY STORM DRAIN	
397	Underground Conduit	C	C05P06-03	Bishop Ave. to Pine Street	Concrete	MIDWAY CITY STORM DRAIN	
188	Underground Conduit	F	F07S01-30	d/s 17th St	Concrete	LA COLINA-REDHILL ST. CHANNEL	-9999
138	Riprap Channel	E	E01-03.01	u/s Pacific Coast Highway to d/s transition	Riprap	SANTA ANA RIVER CHANNEL	PM035
113	Concrete-Lined	C	C04-37.02	d/s Magnolia Street	Concrete	WESTMINSTER CHANNEL	PD076
397	Underground Conduit	C	C05P06-05	GB/ 48" RCP to Bolsa Ave	Concrete	MIDWAY CITY STORM DRAIN	
120	Underground Conduit	C	C05P23-22		Concrete	WEST WASHINGTON STORM DRAIN	-9999
115	Earth Channel	C	C05-42	u/s Ward to d/s Demming	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD085
115	Underground Conduit	C	C05-43	Demming Street Box Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD085
115	Earth Channel	C	C05-44	u/s Demming to d/s Euclid	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD085
115	Underground Conduit	C	C05-45	Euclid Street Box Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD085
115	Underground Conduit	C	C05-53	W. Fay Circle RCB Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
115	Underground Conduit	C	C05-55	Morningside Ave RCB Culverts (u/s of C05P23)	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
115	Concrete-Lined	C	C05-56	u/s Morningside to d/s Westminster	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
115	Underground Conduit	C	C05-57	Westminster Ave RCB Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
138	Concrete-Lined	E	E01-25.02	grade break to	Concrete	SANTA ANA RIVER CHANNEL	PM041
138	Concrete-Lined	E	E01-25.03	transition to 180'(W) X 12.5'(H) Channel	Concrete	SANTA ANA RIVER CHANNEL	PM041
115	Earth Channel	C	C05-46.01	u/s Euclid to C05S07	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD086
115	Earth Channel	C	C05-46.02	C05S07 to d/s Bolsa Street (First Street)	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD086
115	Underground Conduit	C	C05-47	Bolsa Street (First Street) RCB Culverts	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD086
115	Earth Channel	C	C05-48.01	u/s Bolsa (First Street) to	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD086
115	Concrete-Lined	C	C05-48.02	d/s Fifth Street	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD086
115	Underground Conduit	C	C05-49	Fifth Street RCB Culverts	Concrete	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD086
115	Concrete-Lined	C	C05-50.01	u/s Fifth Street to	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD086
115	Underground Conduit	C	C05-51	Hazard/Newhope Street I/S RCB Culverts	Earth	EAST GARDEN GROVE - WINTERSBURG CHANNEL	PD087
138	Concrete-Lined	E	E01-21.02	grade break to	Riprap	SANTA ANA RIVER CHANNEL	PM040
138	Concrete-Lined	E	E01-21.04	u/s transition to	Riprap	SANTA ANA RIVER CHANNEL	PM040

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
138	Concrete-Lined	E	E01-27.03	d/s Fairview	Riprap	SANTA ANA RIVER CHANNEL	PM041
120	Underground Conduit	C	C05P23-05	End of Cul De Sac at Morningside	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-09	RCB at Harbor Blvd.and Washington Ave.	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-11	Harbor Blvd. to Jackson St., along Washington Ave.	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-12	Upstream Jackson Street to squash box	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-20	Upstream end	Concrete	WEST WASHINGTON STORM DRAIN	-9999
120	Underground Conduit	C	C05P23-24		Earth/Gunite	WEST WASHINGTON STORM DRAIN	-9999
196	Underground Conduit	F	F11-15	Seventeenth Street Undercrossing	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
189	Earth Channel	F	F08-14.09	u/s Red Hill to end earth channel	Earth	LANE CHANNEL	PD164
189	Concrete-Lined	F	F08-21.01	u/s SB Costa Mesa Freeway Offramp to	Concrete	LANE CHANNEL	PD165
194	Concrete-Lined	F	F10-22.01	u/s Lyon to grade break	Concrete	SANTA ANA-SANTA FE CHANNEL	PD176
132	Earth Channel	D	D03-30	u/s Segerstrom to d/s Warner	Earth	GREENVILLE-BANNING CHANNEL	PD100
132	Underground Conduit	D	D03-31	Warner Ave RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD100
132	Earth Channel	D	D03-32	u/s Warner to d/s Harvard	Earth	GREENVILLE-BANNING CHANNEL	PD100
132	Underground Conduit	D	D03-33	Harvard RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD100
132	Earth Channel	D	D03-34	u/s Harvard to d/s Centennial	Concrete	GREENVILLE-BANNING CHANNEL	PD100
132	Underground Conduit	D	D03-35	Centennial Road RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD100
138	Riprap Channel	E	E01-34.01	u/s Memory to d/s drop structure	Riprap	SANTA ANA RIVER CHANNEL	PM042
143	Riprap Channel	E	E03-04.01	u/s A.T. & S.F. R.R. to d/s concrete portion	Riprap	CARBON CREEK DIVERSION CHANNEL	PD106
171	Concrete-Lined	F	F01-26	u/s Sunflower to d/s RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PD135
174	Concrete-Lined	F	F02-02	u/s Sunflower to d/s transition	Concrete	SANTA ANA GARDENS CHANNEL	PD138
174	Concrete-Lined	F	F02-05	begin open channel to d/s Alton	Concrete	SANTA ANA GARDENS CHANNEL	PD138
174	Underground Conduit	F	F02-06	Alton Ave RCB Culvert	Earth	SANTA ANA GARDENS CHANNEL	PD138
174	Underground Conduit	F	F02-07	P.E.R.R. RCB Culvert	Concrete	SANTA ANA GARDENS CHANNEL	PD139
174	Earth Channel	F	F02-08	u/s P.E.R.R. to d/s Segerstrom	Earth	SANTA ANA GARDENS CHANNEL	PD140
174	Underground Conduit	F	F02-09	Segerstrom Ave RCB Culvert	Riprap	SANTA ANA GARDENS CHANNEL	PD140
174	Earth Channel	F	F02-10.01	u/s segerstrom to d/s transition	Concrete	SANTA ANA GARDENS CHANNEL	PD140
174	Riprap Channel	F	F02-10.02	u/s transition to d/s Adams	Riprap	SANTA ANA GARDENS CHANNEL	PD140
174	Underground Conduit	F	F02-11	Adams Ave RCB Culvert	Concrete	SANTA ANA GARDENS CHANNEL	PD140
174	Riprap Channel	F	F02-12	u/s Adams to d/s Warner	Earth	SANTA ANA GARDENS CHANNEL	PD140
174	Underground Conduit	F	F02-13	Warner Ave RCB Culvert	Earth	SANTA ANA GARDENS CHANNEL	PD140
174	Earth Channel	F	F02-14.01	u/s Warner to	Concrete	SANTA ANA GARDENS CHANNEL	PD141
174	Earth Channel	F	F02-14.02	d/s transition	Metal	SANTA ANA GARDENS CHANNEL	PD141
174	Earth Channel	F	F02-14.04	u/s transition to d/s transition	Concrete	SANTA ANA GARDENS CHANNEL	PD141
174	Concrete-Lined	F	F02-24.01	u/s Curve to storm drain	Concrete	SANTA ANA GARDENS CHANNEL	PD142
174	Concrete-Lined	F	F02-24.02	storm drain to d/s Willits	Concrete	SANTA ANA GARDENS CHANNEL	PD142
174	Underground Conduit	F	F02-25	Willits St RCB Culvert	Concrete	SANTA ANA GARDENS CHANNEL	PD142
189	Concrete-Lined	F	F08-15	begin AC Channel to d/s NB Costa Mesa Fwy Onramp	Concrete	LANE CHANNEL	PD165
189	Concrete-Lined	F	F08-21.02	d/s SB Costa Mesa Freeway Onramp	Riprap	LANE CHANNEL	PD165
194	Underground Conduit	F	F10-13	Costa Mesa Freeway RCB Culvert	Concrete	SANTA ANA-SANTA FE CHANNEL	PD174
194	Concrete-Lined	F	F10-14	u/s Costa Mesa Freeway to d/s A.T.&S.F. R.R.	Concrete	SANTA ANA-SANTA FE CHANNEL	PD174
194	Underground Conduit	F	F10-15	A.T.&S.F. R.R. RCB Culvert	Concrete	SANTA ANA-SANTA FE CHANNEL	PD175
194	Concrete-Lined	F	F10-16	u/s A.T.S.F. R.R. to d/s Ritchey	Concrete	SANTA ANA-SANTA FE CHANNEL	PD176
194	Underground Conduit	F	F10-17	Ritchey Street RCB Culvert	Concrete	SANTA ANA-SANTA FE CHANNEL	PD176
194	Concrete-Lined	F	F10-18	u/s Ritchey to grade break	Concrete	SANTA ANA-SANTA FE CHANNEL	PD176
194	Underground Conduit	F	F10-19	McFadden Ave RCB Culvert	Concrete	SANTA ANA-SANTA FE CHANNEL	PD176
194	Concrete-Lined	F	F10-20	u/s McFadden to d/s Lyon	Riprap	SANTA ANA-SANTA FE CHANNEL	PD176
194	Underground Conduit	F	F10-21	Lyon Street RCB Culvert	Riprap	SANTA ANA-SANTA FE CHANNEL	PD176
194	Concrete-Lined	F	F10-22.02	grade break to d/s Grand	Concrete	SANTA ANA-SANTA FE CHANNEL	PD176

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
196	Underground Conduit	F	F11-09	First Street RCB Culvert	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Underground Conduit	F	F11-13	Fruit Street RCB Culvert	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
196	Underground Conduit	F	F11-14.05	grade break to d/s Seventeenth Street	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
196	Underground Conduit	F	F11-14.04	18" RCP to grade break	Concrete	SOUTHWEST TUSTIN CHANNEL	PD178
132	Underground Conduit	D	D03-23	Sunflower Ave RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD098
132	Earth Channel	D	D03-24	u/s Sunflower to d/s MacArthur	Concrete	GREENVILLE-BANNING CHANNEL	PD099
132	Underground Conduit	D	D03-25	MacArthur Blvd RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD099
132	Earth Channel	D	D03-26	u/s MacArthur to d/s Alton	Concrete	GREENVILLE-BANNING CHANNEL	PD099
132	Earth Channel	D	D03-28.02	u/s transition to d/s Segerstrom	Concrete	GREENVILLE-BANNING CHANNEL	PD099
132	Underground Conduit	D	D03-29	Segerstrom Ave RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD099
138	Concrete-Lined	E	E01-31.01	u/s Seventeenth to	Riprap	SANTA ANA RIVER CHANNEL	PM041
138	Riprap Channel	E	E01-32.01	u/s transition to d/s drop structure	Riprap	SANTA ANA RIVER CHANNEL	PM042
156	Riprap Channel	E	E08-01	u/s Santa Ana River confluence to end rip rap sec*	Riprap	SANTIAGO CREEK CHANNEL	PD124
171	Concrete-Lined	F	F01-28	u/s RCB Culvert to d/s Flower	Riprap	SANTA ANA-DELHI CHANNEL	PD135
171	Riprap Channel	F	F01-30	u/s Flower to d/s MacArthur	Concrete	SANTA ANA-DELHI CHANNEL	PD135
171	Underground Conduit	F	F01-31	MacArthur Blvd RCB Culvert	Concrete	SANTA ANA-DELHI CHANNEL	PD135
174	Earth Channel	F	F02-16	u/s Occidental to d/s transition	Soil Cement	SANTA ANA GARDENS CHANNEL	PD141
174	Riprap Channel	F	F02-19.01	u/s Edinger to d/s transition	Soil Cement	SANTA ANA GARDENS CHANNEL	PD142
174	Riprap Channel	F	F02-19.03	u/s transition to d/s McFadden	Concrete	SANTA ANA GARDENS CHANNEL	PD142
174	Underground Conduit	F	F02-20	McFadden Ave RCB Culvert	Concrete	SANTA ANA GARDENS CHANNEL	PD142
174	Concrete-Lined	F	F02-21.01	u/s McFadden to 21" RCP	Concrete	SANTA ANA GARDENS CHANNEL	PD142
174	Concrete-Lined	F	F02-21.02	21" RCP to d/s Monte Vista	Concrete	SANTA ANA GARDENS CHANNEL	PD142
174	Concrete-Lined	F	F02-23	u/s Monte Vista to u/s curve	Riprap	SANTA ANA GARDENS CHANNEL	PD142
196	Underground Conduit	F	F11-01	u/s Santa Ana-Santa Fe Chnl to u/s McFadden RCB	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Concrete-Lined	F	F11-02.01	u/s McFadden to grade break	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
196	Concrete-Lined	F	F11-02.02	grade break to grade break	Concrete	SOUTHWEST TUSTIN CHANNEL	PD177
172	Concrete-Lined	F	F01S01-02.07	Open Channel	Conc/Riprap	AIRPORT STORM CHANNEL	-9999
171	Concrete-Lined	F	F01-40.01	d/s transition	Concrete	SANTA ANA-DELHI CHANNEL	PD137
74	Concrete-Lined	A	A03-57	u/s U.P. and A.T.&S.F. R.R. to d/s A.T. & S.F. R.*	Concrete	FULLERTON CREEK CHANNEL	PM008
171	Concrete-Lined	F	F01-39	u/s Dyer Road to	Concrete	SANTA ANA-DELHI CHANNEL	PD137
132	Underground Conduit	D	D03-27	Alton Ave RCB Culvert	Concrete	GREENVILLE-BANNING CHANNEL	PD099
132	Earth Channel	D	D03-28.01	u/s Alton to d/s transition	Concrete	GREENVILLE-BANNING CHANNEL	PD099
171	Riprap Channel	F	F01-32.01	u/s MacArthur to d/s transition	Concrete	SANTA ANA-DELHI CHANNEL	PD135
171	Riprap Channel	F	F01-32.02	u/s transition to grade break	Earth	SANTA ANA-DELHI CHANNEL	PD135
171	Riprap Channel	F	F01-32.03	grade break to d/s Alton	Earth	SANTA ANA-DELHI CHANNEL	PD135
171	Underground Conduit	F	F01-33	Alton Ave RCB Culvert	Riprap	SANTA ANA-DELHI CHANNEL	PD135
171	Riprap Channel	F	F01-34.01	u/s Alton to grade break	Riprap	SANTA ANA-DELHI CHANNEL	PD135
171	Riprap Channel	F	F01-34.02	grade break to	Concrete	SANTA ANA-DELHI CHANNEL	PD135
174	Underground Conduit	F	F02-22	Monte Vista Ave RCB Culvert	Riprap	SANTA ANA GARDENS CHANNEL	PD142
143	Riprap Channel	E	E03-04.02	u/s grade break to d/s Chapman Ave	Concrete	CARBON CREEK DIVERSION CHANNEL	PD106
143	Concrete-Lined	E	E03-03	Crowther Ave/A.T. & S.F. R.R. Bridge	Concrete	CARBON CREEK DIVERSION CHANNEL	PD106
143	Riprap Channel	E	E03-02	u/s Orangethrope to d/s Crowther	Concrete	CARBON CREEK DIVERSION CHANNEL	PD106
113	Earth Channel	C	C04-11.02	to d/s McFadden/Springdale	Concrete	WESTMINSTER CHANNEL	PD071
113	Underground Conduit	C	C04-12	McFadden Ave/Springdale St RCB Culvert	Earth	WESTMINSTER CHANNEL	PD071
113	Earth Channel	C	C04-13.01	u/s McFadden/Springdale	Concrete	WESTMINSTER CHANNEL	PD071
113	Underground Conduit	C	C04-47	Westminster Ave RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD078
113	Concrete-Lined	C	C04-48	u/s Wesminster Ave to d/s Ranney St	Earth	WESTMINSTER CHANNEL	PD078
113	Underground Conduit	C	C04-49	Ranney Ave RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD078
113	Concrete-Lined	C	C04-50	u/s Ranney St to d/s Blake St	Concrete	WESTMINSTER CHANNEL	PD078

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
113	Underground Conduit	C	C04-51	Blake St RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD078
113	Concrete-Lined	C	C04-52	u/s Blake St to d/s Woodbury St	Concrete	WESTMINSTER CHANNEL	PD078
113	Underground Conduit	C	C04-53	Woodbury Rd RCB Culvert	Concrete	WESTMINSTER CHANNEL	PD078
113	Concrete-Lined	C	C04-54	u/s Woodbury to d/s Teal	Concrete	WESTMINSTER CHANNEL	PD078
113	Underground Conduit	C	C04-55	Teal Dr RCB Culvert	Earth	WESTMINSTER CHANNEL	PD078
113	Concrete-Lined	C	C04-56	u/s Teal Dr to d/s Mallard Drive	Earth	WESTMINSTER CHANNEL	PD078
720	Underground Conduit	L	L05-06	u/s transition to end RCB (d/s Covenant Hills Dri*	Concrete	HORNO CREEK CHANNEL	PD250
393	Underground Conduit	C	C04P12-04	From Trask Ave. to 244 ' upstream	Concrete	TAFT STORM DRAIN	-9999
393	Underground Conduit	C	C04P12-05	244 ' upstream of Trask Ave. to Dorothy Ave.	Concrete	TAFT STORM DRAIN	-9999
393	Underground Conduit	C	C04P12-06	From Dorothy Ave.to 106' upstream	Concrete	TAFT STORM DRAIN	-9999
208	Natural Watercourse	F	F23-02	Natural Watercourse d/s Santa Vittoria to 1900' d*	Concrete	CANADA CHANNEL	PD203
551	Underground Conduit	F	F19S02-10	to End	Concrete	LOS ALISOS CHANNEL	-9999
547	Underground Conduit	F	F19P07-01	to End	Concrete		-9999
103	Concrete-Lined	C	C03-14	u/s Pipe Bridge to d/s Garden Grove Blvd	Concrete	ANAHEIM-BARBER CITY CHANNEL	PM023
114	Concrete-Lined	C	C04S02-02	Magnolia Street Culvert	Concrete	BOLSA GRANDE STORM CHANNEL	
114	Concrete-Lined	C	C04S02-12	Trask Avenue Culvert	Concrete	BOLSA GRANDE STORM CHANNEL	
114	Concrete-Lined	C	C04S02-08	Atlantis Way Culvert	Concrete	BOLSA GRANDE STORM CHANNEL	
114	Concrete-Lined	C	C04S02-01	Confluence with C04	Concrete	BOLSA GRANDE STORM CHANNEL	
114	Concrete-Lined	C	C04S02-06	Atlantis Way Culvert	Concrete	BOLSA GRANDE STORM CHANNEL	
114	Concrete-Lined	C	C04S02-10	Garden Grove Freeway Culvert	Concrete	BOLSA GRANDE STORM CHANNEL	
114	Concrete-Lined	C	C04S02-05	Westminster Avenue Culvert	Concrete	BOLSA GRANDE STORM CHANNEL	
263	Concrete-Lined	M	M00S05-02		Concrete	RIVIERA STORM CHANNEL	
114	Concrete-Lined	C	C04S02-09	Transition	Concrete	BOLSA GRANDE STORM CHANNEL	
114	Concrete-Lined	C	C04S02-07	Transition	Concrete	BOLSA GRANDE STORM CHANNEL	
114	Concrete-Lined	C	C04S02-04	Transition	Concrete	BOLSA GRANDE STORM CHANNEL	
114	Concrete-Lined	C	C04S02-03	Summerset Mobile Home Estates	Concrete	BOLSA GRANDE STORM CHANNEL	
114	Concrete-Lined	C	C04S02-11	Transition	Concrete	BOLSA GRANDE STORM CHANNEL	
263	Concrete-Lined	M	M00S05-01	Transition	Concrete	RIVIERA STORM CHANNEL	
	Underground Conduit	L	L02P55-13		Concrete		
	Underground Conduit	L	L02P55-11		Concrete		
	Underground Conduit	L	L02P55-06		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P55-07		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P55-08		Concrete		
	Underground Conduit	L	L02P55-05		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P55-03		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P55-09		Concrete		
	Underground Conduit	L	L02P55-10		Concrete		
	Underground Conduit	L	L02P55-01		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P55-14		Concrete		
	Underground Conduit	L	L02P55-02		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P55-12		Concrete		
	Underground Conduit	L	L02P55-04		Concrete	LADERA RANCH OUTLET	
	Natural Watercourse	L	L02P55-00	Graphical extension to L02	Earth	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-14		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-12		Concrete	LADERA RANCH OUTLET	
	Natural Watercourse	L	L02P50-00	Extension to L02	Earth	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-02		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-05		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-04		Concrete	LADERA RANCH OUTLET	

Table A-2
List of County-Owned Channels Facilities

FacilityID	FacilityType	Watershed	ReachNum	ReachDesc	Material	FACILITYNAME	ProjectName
	Underground Conduit	L	L02P50-07		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-03		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-09		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-01		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-11		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-10		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-08		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-13		Concrete	LADERA RANCH OUTLET	
	Underground Conduit	L	L02P50-06		Concrete	LADERA RANCH OUTLET	
68	Underground Conduit	L	L05P01-XX		Concrete	ACJACHEMA STORM DRAIN	
259	Underground Conduit	L	L05P01-22	Downstream Windmill Avenue	Concrete		
259	Underground Conduit	L	L05P01-21	Upstream Sellas Road	Concrete		
259	Underground Conduit	L	L05P01-20	Upstream Sellas Road roundabout	Concrete		
259	Underground Conduit	L	L05P01-19	Upstream Daisy Street to Sellas Road	Concrete		
259	Underground Conduit	L	L05P01-16	Between Zinnia Street and Daisy Street	Concrete		
259	Underground Conduit	L	L05P01-15	Between Sellas Road and Zinnia Street	Concrete		
259	Underground Conduit	L	L05P01-12	Upstream Hannah Lane	Concrete		
259	Underground Conduit	L	L05P01-09	downstream O'Neill Drive	Concrete		
259	Underground Conduit	L	L05P01-31	At Second Street and Sienna Pkwy.	Concrete		
259	Underground Conduit	L	L05P01-23	Downstream Windmill Avenue	Concrete		
259	Underground Conduit	L	L05P01-10	O'Neill Drive roundabout	Concrete		
259	Underground Conduit	L	L05P01-17	Between Daisy Street and Dorrance Drive	Concrete		
259	Underground Conduit	L	L05P01-04	Utility Right-of-way to Sienna Pkwy	Concrete		
259	Underground Conduit	L	L05P01-05	downstream Covenant Hills Drive	Concrete		
259	Underground Conduit	L	L05P01-06	Covenant Hills Drive	Concrete		
259	Underground Conduit	L	L05P01-07	upstream Covenant Hills Drive	Concrete		
259	Underground Conduit	L	L05P01-08	between Covenant Hills Drive and O'Neill Drive	Concrete		
259	Underground Conduit	L	L05P01-25	to junction 18" laterals	Concrete		
259	Underground Conduit	L	L05P01-01	Upstream L05	Concrete		
259	Underground Conduit	L	L05P01-02	Utility Right-of-way	Concrete		
259	Underground Conduit	L	L05P01-03	Utility Right-of-way	Concrete		
259	Underground Conduit	L	L05P01-11	Upstream O'Neill Drive	Concrete		
259	Underground Conduit	L	L05P01-13	Downstream Sellas Road	Concrete		
259	Underground Conduit	L	L05P01-14	Sellas Road roundabout	Concrete		
259	Underground Conduit	L	L05P01-18	Dorrance-Daisy and Sienna roundabout	Concrete		
259	Underground Conduit	L	L05P01-24	Upstream Windmill Avenue	Concrete		
259	Underground Conduit	L	L05P01-26	Upstream from 18" junction	Concrete		
259	Underground Conduit	L	L05P01-27	Sienna Pkwy between Windmill and Flintridge	Concrete		
259	Underground Conduit	L	L05P01-28	South of Flintridge Ave	Concrete		
259	Underground Conduit	L	L05P01-29	Downstream Flintridge Ave	Concrete		
259	Underground Conduit	L	L05P01-30	Sienna Pkwy between Second and Flintridge	Concrete		
93	Basin	C	C01B02	Rossmoor Retarding Basin	Concrete	ROSSMOOR BASIN	PM021

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
ABELIA STREET	STRAWFLOWER ST. TO 30' NW	1
ABILENE DRIVE	ALTURA E/ TO END	2
ABYSSINIAN WAY	45' NE/O TO 48' SE/O CLYD	0
ACANTHUS	MORNING TRAIL TO END	4
ACECA DRIVE	FOSTER RD. TO NEWBURY RD.	3
ADAMS AVE BRIDGE	0.03 W/ TO 0.03 E/ SANTA	8
ADAMS STREET	BOLSA AVE. TO WASHINGTON	7
ADAMS STREET	WASHINGTON AVE. TO ROOSEV	7
ADDISON ROAD	CORONEL ROAD TO CLOYDEN R	8
AFTON LANE	S.E. SKYLINE DR. TO 0.10	10
AGAPANTHUS STREET	MERRIWEATHER PL. TO TUBER	0
AGAPANTHUS STREET	36' E/O TUBEROSE ST. TO P	0
ALGERWOOD	DAWNWOOD TO END	15
ALITA LANE	HICKORY BRANCH RD. TO 0.0	17
ALLBROOK COURT	CLAYMONT DR. E & W TO END	18
ALLEGHENY DRIVE	MALENA DR. TO FLINT DR.	18
ALLEGHENY DRIVE	SIERRA MADRE DR. TO MOUNT	18
ALLEGHENY DRIVE	MONTAGNE DR. TO CRANBROOK	18
ALLEGHENY DRIVE	KOOTENAY DR. TO 0.07 E/	18
ALLEGHENY DRIVE	ETON PL. TO SANDHURST PL.	18
ALLEY - E/PROSPECT AVE.	LARKSTONE DR. TO 0.10 N/	9001
ALLEY - E/PROSPECT AVE.	0.03 S/O SANTA CLARA AVE.	9002
ALLEY - N/BALL ROAD	0.02 W/TO HARVEST LN.	9031
ALLEY - N/BALL ROAD (S1/2)	GILBERT ST. TO 0.02 W/HAR	9030
ALLEY - N/BUENA VISTA ST.	30' E/O ORANGE AVE. TO A	9004
ALLEY - NE/LA COLINA AVE.	RANCHWOOD RD. TO 0.06 NW/	9008
ALLEY - SW/IRVINE BLVD.	BROWNING AVE. TO CHIRPING	9014
ALLEY - SW/IRVINE BLVD.	0.09 SE/ TO BRITTANY WOOD	9014
ALLEY - SW/LA COLINA AVE.	RANCHWOOD RD. TO 0.07 NW/	9015
ALLEY - W/BROOKHURST ST.	PACIFIC AVE. TO 0.10 N/ C	9041
ALLEY - W/GILBERT ST.	PACIFIC AVE. TO CERRITOS	9042
ALLEY - W/HEWES AVENUE	VINE ST. TO 0.04 N/	9016
ALLEY - 1ST STREET S/HAZARD AVE.	RIATA ST. TO 0.07 E/	9039
ALLEY - 1ST E/BEACH BLVD.	ROOSEVELT AVE. TO LEGION	9034
ALLEY - 1ST E/NEWLAND ST.	0.11 S/ TO HAZARD AVE.	9036
ALLEY - 1ST STREET E/NEWLAND ST.	NEWLAND ST. TO 0.03 E/	9036
ALLEY - 1ST STREET S/HAZARD AVE.	PURDY ST. TO 0.08 E/	9039
ALLEY - 1ST STREET S/MCFADDEN AVE.	MONROE ST. TO WILSON ST.	9040
ALLEY - 1ST STREET N/BOLSA AVE.	ADAMS ST. TO NEWLAND ST.	9037
ALLEY - E/ ORANGE AVENUE	40' S/ TO 190' S/O BIXBY	
ALLEY - E/ PALM AVENUE	30' S/ TO 170' S/O BUENA	
ALLEY - N/BUENA VISTA STREET	40' E/O MAGNOLIA AVE. TO	
ALLEY - N/BUENA VISTA STREET	50' E/O ALLEY - E/O ORAN	
ALLEY - N/BUENA VISTA STREET	40' E/O PALM AVE. TO 40'	
ALLEY - N/MCFADDEN AVENUE	CEDARWOOD AVE. TO PACIFIC	9032

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
ALLEY - S/ BUENA VISTA STREET	30' W/ TO 215' W/O ORANG	
ALLEY - S/ BUENA VISTA STREET	30' E/ TO 210' E/O OCEA	
ALLEY - S/17TH STREET	0.04 W/ TO HOLT AVE.	9012
ALLEY - S/CERRITOS AVE.	RODEO DR. TO HARCOURT AVE	9038
ALLEY - W/ ORANGE AVENUE	40' S/O BIXBY AVE. TO ALL	
ALLTHORN DRIVE	LIMETREE WAY TO0.09 N/	26
ALRAY PLACE	DEBORAH DR. TO LUCINDA WA	28
ALTA PANORAMA	CIRCULA PANORAMA TO VISTA	27
ALTON PARKWAY	250' NE/ TO 2173' NE/O IR	
ALTURA	OSO PKWY. N/ TO END	28
AMAPOLA AVENUE	ORANGE PARK BLVD. TO 0.04	29
AMAPOLA AVENUE	0.34 E/ TO 0.62 E/O ORANG	29
AMAPOLA AVENUE (N1/2)	0.04 E/ TO 0.34 E/O ORANG	29
AMARYLLIS STREET	SKLAR ST. TO TRUMPET VINE	0
AMIES ROAD	0.03 S/ TO HARRIET LN.	29
AMIES ROAD	CHANTICLEER RD. TO 0.08 N	29
ANDORA DRIVE	DELAFIELD DR. TO FAIRHOPE	32
ANGLER LANE	CHRISTY LN. TO BALLANTINE	35
ANNAPOLIS AVENUE	MAC ST. TO 0.08 E/	31
ANTIGUA STREET	CHANTICLEER RD. TO 0.06 N	38
ANTONIO PARKWAY	0.08 SW/ DEERPATH TO ORTE	35
ANTONIO PARKWAY	OSO PKWY. TO 0.68 S/ TIJ	35
ANTONIO PARKWAY (E1/2)	0.01 SW/ TO 0.08 SW/O DEE	35
ANTONIO PARKWAY (E1/2)	OSO PKWY. TO 0.01 S/O DEE	35
ANTONIO PARKWAY (W1/2)	OSO PKWY. TO 0.08 S/O DEE	35
APACHE DRIVE	ALTURA TO 0.02 E/ SUNDOWN	36
APACHE DRIVE	0.02 E/ TO SUNDOWN DR.	36
APPIAN WAY	FORUM WAY TO MARBLE ARCH	35
APSLEY ROAD	SKYLINE DR. TO THORLEY RD	35
APSLEY ROAD	THORLEY RD. NW/ TO END	35
ARBOLADA WAY	PROSPECT AVE. TO HOWLAND	36
ARBOLADA WAY	HOWLAND WAY E/ TO END	36
ARDENNES DRIVE	FALABELLA DR. TO HANOVERI	0
ARGYLE DRIVE	SALMON DR. TO GERTRUDE DR	36
ARGYLE DRIVE	WOODSTOCK RD. TO SAINT AL	36
ARGYLE DRIVE	PIEDMONT AVE. TO CHANNING	36
ARROYO AVENUE	SE SKYLINE TO LA LOMA DR.	38
ARROYO AVENUE	LA LOMA DR. TO FOOTHILL B	38
ARROYO AVENUE	FOOTHILL BLVD. TO LA LIMO	38
ARROYO AVENUE	LA LIMONAR RD. TO 0 .02 S	38
ARROYO AVENUE	0.02 SW/ GLENAIRE DR. TO	38
ARROYO LINDO DRIVE	LOMA LINDA WAY TO ARROYO	39
ARTHUR DRIVE	0.07 S/ TO FILLMORE DR.	40
ARTISAN STREET	BENJAMIN DR. TO 129' NOR	41
ARTISAN STREET	WINSLOW STREET TO THALIA	41

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
ASH HOLLOW TRAIL	IRON HORSE TRAIL TO HALF	42
ASHGROVE DRIVE (S1/2)	STANTON AVE. TO 0.26 E/	43
ATHENS COURT	MAC ST. TO 0.02 E/	44
AUBURN AVENUE	BRENAN WAY TO WINTHROPE S	44
AUGUSTA DRIVE	NEARING DR. TO DALE ST.	44
AURA LANE	TRIAD LN. TO 924 ' SW	0
AVENDALE BOULEVARD	DAISY STREET NORTH TO 30'	43
AVENDALE BOULEVARD	SELLAS ROAD NORTH TO 60'	0
AVENIDA PALMAR	RANCHO SANTIAGO BLVD. TO	45
AVENIDA PICO	1500' E'LY/O CAMINO LA PE	
AVENIDA PICO (S1/2)	1258' E'LY TO 1500' E'LY/	45
BAINBRIDGE AVENUE	MARSTON LN. TO END	0
BAJA PANORAMA	CIRCULA PANORAMA TO 697'	
BAJA PANORAMA	697' NE/O CIRCULA PANORAM	
BAJA PANORAMA	625' NW/O MEDIA PANORAMA	
BALL ROAD (S1/4)	454' W/ TO 1320' W/O BRO	0
BALL ROAD FRONTAGE RD	HARVEST LN. TO 0.07 E/ YA	55
BALLANTINE DRIVE	ANGLER LN. TO BLUME DR.	54
BALLANTINE DRIVE	KEMPTON DR. TO OAK KNOLL	54
BALMORAL PLACE	MEANDERING TRAIL TO EDMON	55
BANBURY CROSS ROAD	WOODLAWN AVE. TO ARROYO A	56
BANBURY CROSS ROAD	MARBLE ARCH DR. TO GLADST	56
BANCROFT STREET	WALDEN ST. TO END	57
BANTA AVENUE	GILBERT ST. TO JEAN ST.	58
BARBERRY STREET	28' W/O HYDRANGEA ST. TO	0
BARNSTABLE WAY	RESTON WY E AND W TO END	0
BARRETT HILL CIRCLE	ST. THOMAS DR. TO ST. THO	60
BARRETT LANE	OLD FOOTHILL BLVD. TO MAR	60
BARRETT LANE	MARCY DR. TO CRAWFORD CAN	60
BARRINGTON DRIVE	0.06 W/ TO FAIRHOPE DR.	60
BASKERVILLE ROAD	SILVERWOOD DR. TO SHAKESP	60
BASKERVILLE ROAD	KITTRICK DR. TO PEMBERTON	60
BAUDIN CIRCLE	DE LEON LN. TO END	0
BEACHMONT AVENUE	BRENAN WAY TO SANDHURST P	67
BEACON POINT	BUSHWOOD CIRCLE TO END	67
BEECHTREE STREET	CELESTINE CIRCLE TO END	0
BEL FLORA	MORNING TRAIL TO END	68
BELHA WAY	SILVERADO CANYON RD. TO 0	69
BELLFLOWER STREET	SNAPDRAGON ST. TO TETHERM	0
BELLWOOD ROAD	BRIMHALL DR. TO COPA DE O	69
BELLWOOD ROAD	ANGLER LN. TO 0.03 N/	69
BENETA WAY	0.03 W/ LIVINGSTON ST. TO	69
BENJAMIN DRIVE	60' W/ ANTONIO PKWY. TO S	0
BENNINGTON DRIVE	0.10 W/ TO 0.05 W/ PEACOC	69
BENNINGTON DRIVE	0.05 W/ TO PEACOCK HILL D	69

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
BENNINGTON PATH	WELDON HEIGHTS TO END	0
BENT TREE ROAD	LOWER LAKE DR. TO 0.06 NE	69
BENT TWIG LANE	BROWNING AVE. TO 0.12 NW/	70
BENT TWIG LANE	0.12 NW/ BROWNING AVE. TO	70
BERRY AVENUE	KATELLA AVE. TO PACIFIC P	72
BEVERLY GLEN DRIVE	BROWNING AVE. TO SKYLINE	73
BIENVILLE AVENUE	MILNEBURG ST. TO HEARTH L	75
BIGELOW PARK	PROSPECT AVE. TO HOLT AVE	74
BIKINI PLACE	HEWES AVE. TO SAIGON LN.	75
BIMINI DRIVE	HYDE PARK DR. TO ST. JOHN	75
BIRD AVENUE	RIATA ST. TO 0.04 E/	74
BIRD AVENUE	PURDY ST. TO HUNTER LN.	74
ELMORE WAY	JACKSON ST. TO VAN BUREN	78
BLACK CHERRY STREET	TERRASTAR LN. TO END	0
BLACK STAR CANYON ROAD	0.17 N/ TO 0.23 N/ SILVER	82
BLACK STAR CANYON ROAD	0.23 N/ TO 1.14 N/ SILVER	82
BLAIR LANE	0.04 SE/ TO KEITH PL.	84
BLAKEMORE DRIVE	SIENNA PKWY. TO 241' NORT	84
BLAKEMORE DRIVE	33' N/E KEMPTON TO END	84
BLUE RIDGE DRIVE	MOUNT HOOD DR. TO SANTA C	88
BLUE SPRUCE DRIVE	47' E/O SNAPDRAGON ST. TO	0
BLUEBERRY WAY	0.08 SE/ TO CHIRPING SPAR	87
BLUEBERRY WAY	0.03 SE/ HICKORY BRANCH R	87
BLUEBERRY WAY	DEAN ST. TO 0.07 NW/	87
BLUEWING LANE	DUSKYWING CT. TO END	0
BLUME DRIVE	WEMBLEY RD. TO SILVER FOX	88
BLUME DRIVE	SILVER FOX RD. TO TUCKER	88
BOCA CANYON DRIVE	GROVEOAK DR. TO 0.04 N/ W	88
BOCA CANYON DRIVE	0.04 N/ WHITESTONE TERR.	88
BOLSA AVE. FRONTAGE ROAD	NEWLAND AVE. TO 0.08 E/ P	89
BOLSA AVENUE	0.25 W/ TO 0.06 W/ BEACH	89
BOLSA AVENUE	209' E/O BEACH BLVD. TO 1	89
BOLSA AVENUE	NEWLAND ST. TO PURDY ST.	89
BOLSA AVENUE (N1/2)	0.02 W/ WILSON ST. TO NEW	89
BOLSA AVENUE (N1/2)	PURDY ST. TO 0.08 E/	89
BOND AVENUE	0.12 W/ TO HEWES ST.	92
BOND AVENUE (S1/2)	HEWES ST. TO 0.02 E/	92
BOND AVENUE (S1/2)	0.02 E/ TO 0.06 E/ HEWES	92
BOND AVENUE (S1/2)	0.06 E/ TO 0.10 E/ HEWES	92
BONITA HEIGHTS DRIVE	BARRETT LN. TO 0.11 SW/	92
BOOTSTRAP COURT	TUMBLEWEED ST. NW/ TO END	93
BOSTONIAN DRIVE	MARTHA ANN DR. TO MONTECI	95
BOSTONIAN DRIVE	MONTECITO RD. TO 0.03 N/	95
BOUQUET CANYON ROAD	CRYSTAL CANYON RD. W/ TO	95
BOUVAIS ROAD	CHANTICLEER RD. TO 0.08 N	95

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
BOW PLACE	OAK RIDGE DR. TO LASSEN D	96
BOW PLACE	30' N/O LASSEN DR. TO 338	0
BRADBURY ROAD	CHAUCER RD. TO MONTECITO	98
BRADBURY ROAD	MONTECITO RD. TO LOS ALAM	98
BRADCLIFF	BRADCLIFF DR. TO 0.04 NE/	97
BRADCLIFF DRIVE	475.20' S/ TO 930.60' S/	97
BRADCLIFF DRIVE	475.20 S/ TO 264' N/O COV	97
BRADCLIFF DRIVE	0.05 N/ COVENTRY PL. TO H	97
BRAE GLEN	0.05 W/ TO CRAWFORD CANYO	97
BRAMFORD STREET	WALDEN E & W TO ENDS	98
BREA BOULEVARD	1403' SW/ TO 3194' NE/O T	
BRENAN WAY	MANNING DR. TO 0.03 N/	99
BRENAN WAY	VANDERLIP AVE. TO SAUGUS	99
BRENTWOOD DRIVE	RANGEVIEW DR. TO BRIER LN	99
BRIDLE PATH	OSO PKWY. TO 0.01 SE/ GIN	98
BRIDLE PATH WAY	FURLONG DR. TO 0.18 SE/	99
BRIER LANE	DEERHILL DR. TO 0.07 N/	100
BRIER LANE	0.07 N/O DEERHILL DR. TO	100
BRIER LANE	HIGHCLIFF DR. TO 0.20 NE/	100
BRIGHTON DRIVE	KIMBERWICKE DR. TO 0.03 N	101
BRIGHTON DRIVE	0.03 NE/ MARTINGALE PL TO	101
BRIGHTWOOD DRIVE	DEERHILL DR. TO SHADYRIDG	100
BRIMHALL DRIVE	MARTHA ANN DR. TO FOSTER	99
BRIMHALL DRIVE	CHRISTY LN. TO OAK WAY DR	99
BRIMHALL DRIVE	SILVER FOX RD. TO MONTECI	99
BRITTANY CROSS ROAD	WOODLAWN AVE. TO 0.07 NW/	100
BRITTANY WOODS DRIVE	BENT TWIG LN. TO IRVINE B	100
BRITTANY WOODS DRIVE	IRVINE BLVD. TO RAINBOW D	100
BROADVIEW PLACE	TERRACE VIEW TO 0.13 E/	102
BROADWAY (S3/4)	GREENWICH ST. TO BROOKHUR	104
BROKEN HILL COURT	OLD RANCH RD. TO 0.08 N/	104
BRONCO CIRCLE	DERBY DR. TO 0.09 NW/	104
BROOKHILL DRIVE	0.03 S/ TO OLD RANCH RD.	104
BROOKHURST STREET (W1/2)	0.02 N/ TO 0.03 S/O STONY	104
BROOKHURST STREET (W1/4)	BROADWAY TO 473' S	0
BROOKWOOD STREET	TERRASTAR LN. TO END	0
BROWNING AVENUE	IRVINE BLVD. TO LA COLINA	108
BROWNING AVENUE	LA COLINA DR. TO REDBERRY	108
BROWNING AVENUE	REDBERRY RD. TO BEVERLY G	108
BROWNING AVENUE (W1/2)	0.25 SW/ TO IRVINE BLVD.	108
BROWNING AVENUE (W2/3)	0.07 NE/O BRYAN AVE. TO 0	108
BRUNSWICK WAY	ST. JOHN PL. TO ST. VINCE	109
BRUNSWICK WAY	LA LIMONAR RD. TO DORSETS	109
BRYANT COURT	CLYDESDALE DR. TO END	0
BRYCE PLACE	RUSHMORE LN. TO 0.04 NW/	109

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List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
BRYNWOOD LANE	HEARTHSIDE RD. TO END	0
BUBBLING WELL ROAD	0.09 SW/ TO RIVER FORD RD	111
BUBBLING WELL ROAD	0.24 SW/ TO 0.12 SW/ RAIN	111
BUBBLING WELL ROAD	SINGING WOOD DR. TO LA CO	111
BUCHANAN DRIVE	NEARING DR. TO 0.06 E/	111
BUENA VISTA STREET	ORANGE-OLIVE RD. TO 0.04	114
BUENA VISTA STREET	0.03 E/ PALM AVE. TO 0.06	114
BUENA VISTA STREET (S1/2)	0.04 E/ TO 0.03 E/ PALM A	114
BULLARD LANE	DEAN ST. TO RED HILL AVE.	114
BULLARD LANE	RED HILL AVE. TO 0.11 NW/	114
BULLARD LANE	0.02 SE/ TO LURLINE LN.	114
BURGUNDY PLACE	BIENVILLE AVE. TO 0.05 N/	115
BURNEY PLACE	BASKERVILLE RD. TO 0 .04	114
BURNT MILL ROAD	BROWNING AVE. TO CHIRPING	114
BUSHWOOD CIRCLE	42' S/O FLINTRIDGE AVE. T	120
CABARET COURT	0.13 S/ TO FAIRHAVEN AVE.	124
CALADIUM	BEL FLORA TO END	125
CALDWELL LANE	FALKNER DR. TO 46' E/O VI	0
CALICO COURT	WRANGLER CT. SE/ TO END	125
CALM CREEK CIRCLE	DAWNWOOD TO END	130
CALMHILL CIRCLE	GROVEOAK DRIVE TO 0.01 S/	129
CALVO DRIVE	0.05 W/ TO ETHELBEE WAY	129
CAMBERA LANE	WICKFORD DR. TO COVENTRY	130
CAMDEN DRIVE	0.06 W/ TO PEACOCK HILL D	130
CAMEO DRIVE	DEAN ST. TO DEL REY DR.	131
CAMEO DRIVE	CHAPLET PL. TO 0.06 NW/	131
CAMEO DRIVE	REDHILL AVE. TO KEITH PL.	131
CAMEO DRIVE	WOODLAWN AVE. TO 0.03 NW/	131
CAMERON LANE	0.11 S/ TO VANDERLIP AVE.	132
CAMERON LANE	VANDERLIP AVE. TO .07 NE/	132
CAMERONS WAY	35' E/O SMOKE TREE DR. TO	0
CAMPUS DRIVE	STONYBROOK DR. TO 0.07 N/	134
CAMPUS DRIVE (NW1/2)	BRISTOL ST. TO MACARTHUR	134
CANDEDA PLACE	LILLIAN WAY TO 0.08 N/	137
CANDLEWIND COURT	CELESTINE CIRCLE TO END	0
CANTON AVENUE	ENDRY ST. TO JEAN ST.	138
CAPRICORN DRIVE	TERRASTAR LN. TO COMET TR	0
CARLISLE COURT	LANGFORD LN. TO END	0
CARLISLE ROAD	RAVENCREST RD. TO HUNTRID	140
CARLSBAD DRIVE	PROSPECT AVE. TO LEAFWOOD	140
CARMEL WAY	FAIRHAVEN EXT. TO MAYNARD	140
CARREY AVENUE	STANTON AVE. TO 0.04 E/	141
CASSELLE AVENUE	0.06 E/ TO 0.24 E/ PROSPE	144
CASTLEGATE LANE	ARROYO AVE. TO NEWPORT AV	144
CASTLEGATE LANE	NEWPORT AVE. TO JUDY ANNE	144

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
CASTLETREE	CUL DE SAC S/ TO WOODSONG	144
CASTLETREE	WOODSONG TO CRESTVIEW	144
CASTLETREE	CRESTVIEW S/ TO END	144
CASTOR COURT	COMET TR. TO END	0
CATALINA DRIVE	WINDSOR LN. TO LA COLINA	145
CAY STREET	NAPA ST. TO LA COLINA DR.	148
CECIL PASTURE ROAD	92' S/O CROWN VALLEY PKWY	148
CEDARBEND DRIVE	WOODGATE DR. TO OAKVALE D	153
CEDARWOOD AVENUE	MCFADDEN AVE. TO 0.03 N/	154
CELESTINE CIRCLE	MERRIWEATHER PLACE TO END	0
CELESTINE CIRCLE	47' W/O TUBEROSE ST. TO M	0
CENTER STREET	ESPLANADE ST. TO HEWES ST	157
CENTER STREET	HEWES ST. TO RANCHO SANTI	157
CENTER STREET	RANCHO SANTIAGO BLVD. TO	157
CERNER COURT	ELLISTON DR. TO N AND S T	0
CERRITOS AVENUE	GILBERT ST. TO BROOKHURST	167
CHADBOURNE LANE	JUDY ANNE LN. TO GLENMERE	167
CHADWICK LANE	ARROYO AVE. TO MARBLE ARC	167
CHALON ROAD	CLUB VIEW DR. TO FRANCISC	167
CHAMBERLAIN DRIVE	PACIFIC AVE. TO CERRITOS	167
CHANDLER PLACE	EDMONTON WAY TO EDMONTON	167
CHANNING WAY	MARTHA ANN DR. TO KENSING	167
CHANNING WAY	ARGYLE DR. TO SILVER FOX	167
CHANTICLEER ROAD	GILBERT ST. TO 0.15 E/ AN	167
CHANTILLY LANE	PLEASANTON LN. TO 66' E/	167
CHANTILLY LANE	BENJAMIN DR. TO 66' EASTE	167
CHAPLET PLACE	GARLAND AVE. TO 0.08 NE/	167
CHAPLET PLACE	TIFFANY PL. TO RAINBOW DR	167
CHAPMAN AVENUE	ESPLANADE ST. TO EARLHAM	168
CHAPMAN AVENUE	0.08 W/ TO ORANGE PARK BL	168
CHAPMAN AVENUE	ORANGE PARK BLVD. TO 0.12	168
CHAPMAN AVENUE (N1/2)	0.25 W/ TO 0.08 W/ ORANGE	168
CHAPPARAL COURT	STARLIGHT RIDGE N/ & S/ T	167
CHARDONNAY DRIVE	194' S/O ROANOKE DR. TO D	0
CHARDONNAY DRIVE	28' S/O ROANOKE DR. TO 16	0
CHARLOMA DRIVE	IRVINE BLVD. TO LURLINE L	169
CHARLOMA DRIVE	SIERRA ALTA DR. TO 0.03 N	169
CHARLOMA DRIVE	DEBORAH DR. TO LUCINDA WA	169
CHARMAINE LANE	FOWLER AVE. TO 0.11 S/	168
CHARWOOD LANE	0.11 SE/ TO NEWPORT AVE.	169
CHAUCER ROAD	KEMPTON DR. TO OAK KNOLL	169
CHEROKEE STREET	LONGHORN ST. TO LONGHORN	174
CHERRYHILL DRIVE	LIMETREE DR. TO CORONEL R	169
CHERRYHILL DRIVE	CORONEL RD. TO 0.06 NW/	169
CHERRYHILL DRIVE	0.06 NW/ TO 0.11 NW/ CORO	169

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ROADNAME	limit_sort	ROADNO
CHESNEY DRIVE	MARTHA ANN DR. TO FOSTER	176
CHEYENNE STREET	ALTURA TO FRONTIER ST.	179
CHIANTI DRIVE	BLUME DR. TO MAIN WAY DR.	181
CHIANTI DRIVE	KEMPTON DR. TO ST. ALBANS	181
CHIMNEY LANE	43' N/O MAIN ST. TO END	0
CHIRPING SPARROW WAY	BURNT MILL RD. TO RIVER F	182
CHIRPING SPARROW WAY	BENT TWIG LN. TO IRVINE B	182
CHISHOLM TRAIL	MEADOW RIDGE DR. E/ TO EN	182
CHRISTY LANE	HILL ROSE DR. TO COPA DE	182
CHRISTY LANE	SALMON DR. TO BLUME DR.	182
CHRISTY LANE	KEMPTON DR. TO SAINT ALBA	182
CHURCH STREET	WALNUT AVE. TO EL CARMEN	184
CHURCH STREET	EL CARMEN AVE. TO BOND AV	184
CIELO PLACE	0.03 SW/ TO 0.04 NE/ RISA	185
CIELO PLACE	FOOTHILL BLVD. TO FAREN D	185
CIELO PLACE	FAREN DR. TO SMOKEWOOD DR	185
CIRCULA PANORAMA	FAIRHAVEN AVE. EXTENSION	185
CIRCULA PANORAMA	FAIRHAVEN AVE. EXTENSION	185
CIRCULA PANORAMA	0.66 NW/O FAIRHAVEN AVE.	
CITRUS LANE	ETHEREAL ST. TO END	0
CLARIN STREET	NARROW CANYON RD. TO 694'	0
CLARISSA LANE	0.15 S/ TO 0.14 N/ WARREN	188
CLARISSA LANE	0.13 SE/ TO VANDERLIP AVE	188
CLARISSA LANE	VANDERLIP AVE TO 0.08 N/	188
CLARK STREET	ORANGE PARK BLVD. TO RAND	188
CLAWSON STREET	KEMPTON LANE TO END	189
CLAYMONT DRIVE	LAURELHURST DR. TO ALLBRO	189
CLEARBROOK LANE	ROSEBAY ST. TO 0 .13 E/	190
CLEMENTINE STREET	HOMESTEAD DR. TO RAINDANC	183
CLEOME STREET	TUBEROSE ST. TO MERRIWEAT	0
CLOVERDALE	CASTLETREE NE/ TO END	183
CLOYDEN ROAD	YARMOUTH RD. TO ADDISON R	183
CLUB VIEW DRIVE	0.06 S/ CHALON RD. TO KEL	191
CLYDESDALE DRIVE	52' SW/O DORRANCE DR. TO	0
CLYDESDALE DRIVE	69' N/O BRYANT CT. TO END	0
COCKSCROW LANE	0.05 SE/ TO HICKORY BRANC	192
COLBOW STREET	EL CARMEN AVE. TO 0.08 N/	192
COLCHESTER DRIVE	GILBERT ST. TO 0.03 E/ HA	192
COLCHESTER DRIVE	0.03 E/ HARVEST LN. TO 0.	192
COLERIDGE DRIVE	MARTHA ANN DR. TO HARRISB	193
COLONY STREET	STONYBROOK DR. TO 0.07 N/	196
COMET TRAIL	CAPRICORN DR. TO END	0
COPA DE ORO DRIVE	MARTHA ANN DR. TO MONTECI	199
COPIOUS LANE	EPONA WAY TO END	0
CORALWOOD DRIVE	OVERBROOK DR. TO DANIGER	203

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
CORONEL ROAD	ARROYO AVE. TO THORLEY RD	200
CORONEL ROAD	THORLEY RD. TO YARMOUTH S	200
CORONEL ROAD	YARMOUTH ST. TO ARROYO AV	200
CORPORATE DRIVE	TERRACE RD. TO 60' E/O AN	0
CORTESE DRIVE	BOSTONIAN DR. TO DAVENPOR	201
COTTAGE HILL ROAD	CHIMNEY LN. TO END	0
COTTONWOOD DRIVE	0.01 SW/ OLD FOOTHILL BLV	204
COUNTRY HAVEN	CRAWFORD CANYON RD. TO 0.	202
COUNTRY HILLS DRIVE	0.29 W/ TO SKYLINE DR.	203
COUNTRY LANE	LA COLINA DR. TO 0.13 NE/	203
COUNTRY LANE	SE SKYLINE DR. TO 0.13 NE	203
COUNTY LANE	COUNTRY HAVEN TO 0.09 SW/	203
COURTNEY CIRCLE	MAYBECK LN. TO END	203
COUSTEAU LANE	39' W/O CLYDESDALE DR. TO	0
COVENTRY PLACE	0.04 NE/ TO CAMBERA LN.	206
COVENTRY PLACE	HYDE PARK DR. TO 0.03 NE/	206
COVENTRY PLACE	0.03 NE/ HYDE PARK DR. TO	206
COWAN HEIGHTS DRIVE	NEWPORT BLVD. TO SKYLINE	206
COWAN HEIGHTS DRIVE	SKYLINE DR. TO 0.04 W/ SH	206
COWAN HEIGHTS DRIVE	0.18 E/ TO 0.32 NE/ SHADY	206
COWAN HEIGHTS DRIVE	0.32 NE/ SHADYRIDGE DR. T	206
COWAN HEIGHTS DRIVE	0.11 S/ TO SIRRINE DR.	206
COWAN HEIGHTS DRIVE	RANGEVIEW DR. TO BRIER LN	206
COYOTE COURT	ALTURA TO DUSTY TRAIL	206
CRAFTSBURY PLACE	CAMERONS WAY N'LY AND	0
CRANBROOK DRIVE	BOW PL. TO ESPLANADE AVE.	207
CRAWFORD CANYON ROAD	NEWPORT AVE. TO BARRETT L	207
CRAWFORD CANYON ROAD	BARRETT LN. TO STOLLER LN	207
CRAWFORD CANYON ROAD (E1/2)	STOLLER LN. TO CHAPMAN AV	207
CREIGHTON PLACE	O'NEILL DR. TO UNIVERSITY	0
CRESTKNOLL DRIVE	FAIRLYNN DR. TO 0.03 E/	208
CRESTLINE DRIVE	RAINIER DR. TO OLYMPIA WA	209
CRESTMONT COURT	LEWISTON CT. TO END	0
CRESTVIEW	MEANDERING TRAIL TO 0.05	209
CRESTVIEW	0.05 E/MEANDERING TR. TO	209
CRESTVIEW	0.01 N/ TO 0.04 S/ HILLSI	209
CRESTWOOD LANE	ENDRY ST. TO 0.03 E/ JEAN	209
CREW DRIVE	PACIFIC AVE. TO 0.07 N/	209
CRIS AVENUE	CHAMBERLAIN DR. TO 0.05 E	209
CROWN VALLEY PARKWAY	144' E/JARDINES TO 156' W	211
CROWN VALLEY PARKWAY (N1/2)	156' W/CECIL PASTURE TO 6	211
CROWN VALLEY PARKWAY (N1/2)	60' E/O ANTONIO PKWY. TO	0
CROWN VALLEY PARKWAY (S1/2)	282'W/ CECIL PASTURE TO 1	211
CROWN VALLEY PARKWAY (S1/2)	ANTONIO PARKWAY TO SIENNA	211
CROWN VALLEY PARKWAY (S1/2)	127' W/O O'NEILL DR. TO	211

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List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
CROWN VALLEY PARKWAY (S1/2)	106' E/O ANTONIO PKWY. TO	0
CRYSTAL CANYON ROAD	SANTIAGO CANYON RD. TO T	212
CRYSTALAIRE	MORNING TRAIL TO END	212
CUMBERLAND CROSS ROAD	WOODLAWN AVE. TO 0.07 NW/	213
CURRIE CIRCLE	ERVIN LN. TO 0.06 N/	214
CURTIS LANE	CLYDESDALE DR. TO HALLCRE	0
DAISY STREET NORTH	SIENNA PKWY. TO AVENDALE	225
DALE STREET	0.10 N/ CHAPMAN AVE. TO O	226
DALL LANE	NORWOOD PARK TO KIRK AVE.	226
DALL LANE	WELLINGTON AVE. TO 0.09 N	226
DALL LANE	17th ST. TO 0.03 S/ JOSHU	226
DALL LANE	0.03 S/ JOSHUA LN. TO LEA	226
DANA DRIVE	1930' E/ TO 1794' W/O ISL	
DANBURY	MAYBECK LANE E & W TO END	226
DANIGER ROAD	CRAWFORD CANYON RD. TO 0.	227
DANIGER ROAD	0.03 NE/ TO 0.06 NE/ HIGH	227
DARMEL PLACE	DARMEL PL. E/ & W/ TO END	228
DARMEL PLACE	DARMEL PL. TO FAIRHAVEN A	228
DARWIN AVENUE	CEDARWOOD AVE. TO PACIFIC	227
DAVENPORT ROAD	BRADBURY RD. TO CORTESE D	230
DAVENPORT ROAD	HUNTLEY DR. TO ORANGEWOOD	230
DAVENPORT ROAD	HARRISBURG RD. TO HEDWIG	230
DAWN WAY	CITY DR. TO HOSPITAL FRON	
DAWNWOOD	43' W/ MAYBECK LN. TO END	230
DAWNWOOD	40' NE/O MAYBECK LN. NE	230
DE LEON LANE	44' W/O FALABELLA DR. TO	0
DEAN STREET	0.09 SW/ MELVIN WAY TO 0.	231
DEAN STREET	0.02 SW/ GARLAND AVE. TO	231
DEAN STREET	TIFFANY PL. TO BULLARD LN	231
DEBORAH DRIVE	REBECCA LN. TO 0.05 NW/	231
DEBORAH DRIVE	WOODLAWN AVE. TO CHARLOMA	231
DEBORAH DRIVE	ZIG ZAG WAY TO ALRAY PL.	231
DECKER AVENUE	ENDRY ST. TO JEAN ST.	231
DEEP WELL ROAD	HEWES AVE. TO 0.20 E/	231
DEEP WELL ROAD	0.20 E/ HEWES AVE. E/ TO	231
DEERFIELD PLACE	MEADOW RIDGE DR. NE/ TO E	231
DEERHAVEN DRIVE	0.08 SE/ TO 0.22 N/ OVERH	231
DEERHILL DRIVE	BRIER LN. TO BRIGHTWOOD D	231
DEERPATH	ANTONIO PKWY. TO 0.05 E/	231
DEL REY DRIVE	IRVINE BLVD. TO TIFFANY P	237
DEL REY DRIVE	TIFFANY PL. TO 0.02 NE/ C	237
DEL REY DRIVE	WINDSOR LN. TO LA COLINA	237
DELAFIELD DRIVE	FAIRHOPE DR. TO ANDORA DR	232
DELPHINIUM STREET	TRUMPET VINE ST. TO SELLA	0
DERBY DRIVE	FURLONG DR. TO 0.04 NE/ S	239

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ROADNAME	limit_sort	ROADNO
DESSER LANE	PACIFIC AVE. TO HARLE AVE	240
DESTE DRIVE	CHANTICLEER RD. TO 0.10 N	240
DIXIE DRIVE	PACIFIC AVE. TO 0.07 N/	243
DODGE AVENUE	ESPLANADE AVE. TO HEWES A	244
DODGE AVENUE	HEWES AVE. TO NEWPORT AVE	244
DOE RUN	0.05 W/ TO NEWPORT AVE.	243
DONNIE ANN ROAD	WEMBLEY RD. TO WALLINGSFO	246
DONNIS ROAD	HEDWIG RD. TO RUTH ELAINE	246
DONOVAN ROAD	SILVERWOOD DR. TO SHAKESP	246
DONOVAN ROAD	KITTRICK DR. TO KERTH DR.	246
DORRANCE DRIVE	77' W/O SIENNA PKWY. TO 7	0
DORSETSHIRE LANE	BIMINI DR. TO BRUNSWICK W	247
DOWNING STREET	46' NW/ CHARDONNAY DR. TO	0
DOWNING STREET	PARLIAMENT PL. TO 188' SW	0
DROVER COURT	APACHE DR. SW/ TO END	247
DRUID LANE	YELLOWTAIL DR. TO ST. CLO	249
DRYSDALE LANE	BASKERVILLE RD. TO PEMBER	249
DUNAS ROAD	FAIRHAVEN AVE. TO .03 S/	249
DUNAS ROAD	0.03 S/ TO 0.10 N/ LARKST	249
DUSKYWING COURT	36' E/O TUBEROSE ST. TO E	0
DUSTY TRAIL	COYOTE CT. E/ & W/ TO END	251
EARLHAM STREET	SANDHURST PL. TO FAIRHAVE	253
EARLHAM STREET	CHAPMAN AVE. TO SPRING ST	253
EARLHAM STREET (E3/4)	WALNUT AVE. TO CHARTER OA	253
EARLYWOOD	DAWNWOOD TO END	253
EDDY DRIVE	0.06 W/ TO LORETTA DR.	255
EDELWEISS	MORNING TRAIL TO END	255
EDEN STREET	0.10 S/ TO ROOSEVELT AVE.	255
EDENDALE STREET	WYNDHAM ST. TO END	0
EDGELEY PLACE	0.06 SW/ TO SILVER FOX RD	255
EDGEVIEW DRIVE	ARROYO AVE. TO 0.13 NW/	255
EDINGER AVENUE (N1/2)	WEST TO EAST SIDE OF SANT	256
EDINGER AVENUE (S1/2)	HARBOR BLVD. TO 0.02 W/ S	256
EDINGER AVENUE FRONTAGE RD	EDINGER AVE. S/ & E/ TO E	256
EDMONTON WAY	BALMORAL PLACE TO CHANDLE	257
EDWARDS STREET (W1/2)	20' N/O ELLIS AVE. TO 180	0
EHLEN WAY	WARREN AVE. TO 0.10 N/	278
EL CAMINO LANE	0.11 SE/ TO NEWPORT AVE.	270
EL CARMEN AVENUE	EARLHAM ST. TO COLBOW ST.	271
EL CARMEN AVENUE	HEWES AVE. TO 0.03 E/ ESP	271
EL FINITO WAY	WOODLAWN AVE. TO 0.04 NW/	275
EL SALVADOR AVENUE	0.08 W/ TO ESPANITA ST.	282
ELITE DRIVE	SECLUSION WAY TO 0.07 NW/	278
ELIZABETH WAY	WASS ST. TO WINDSOR LN.	278
ELLISTON DRIVE	UNIVERSITY AVE. TO CERNER	0

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List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
ELM PLACE	SPRING VIEW WAY TO END	281
EMBURY DRIVE	SUSSEX PL. TO ETON PL.	283
EMPEROR DRIVE	TEA HOUSE ST. TO .10 NE/	284
ENDRY STREET	0.04 S/ DECKER AVE. TO CR	285
ENGEL DRIVE	WEMBLEY RD. TO FOSTER RD.	285
ENID LANE	RIATA ST. TO 0.04 E/	285
ENID LANE	PURDY ST. TO HUNTER LN.	285
ENRAMADA DRIVE	WINDSOR LN. TO 0.02 SW/	285
ENRAMADA DRIVE	0.10 SW/ TO S.E. SKYLINE	285
EPONA WAY	41' SW/O NARROW CANYON RD	0
EQUESTRIAN DRIVE	SKYLINE DR. TO 0.07 W/ BR	285
EQUESTRIAN DRIVE	0.07 W/ TO 0.04 E/ BRIGHT	285
EQUESTRIAN DRIVE	0.04 E/ BRIGHTON DR. TO H	285
ERVIN LANE	0.24 E/ HEWES AVE. TO LAS	285
ESPANITA STREET	EL CARMEN AVE. TO BOND AV	285
ESPERANZA ROAD	IMPERIAL HWY. TO 0.57 E/	286
ESPLANADE AVENUE	17th ST. TO GRAMERCY DR.	287
ESPLANADE AVENUE	GRAMERCY DR. TO FAIRHAVEN	287
ESPLANADE AVENUE	CHAPMAN AVE. TO SPRING ST	287
ESTES WAY	CARLSBAD DR. TO 0.05 SE/	287
ETHELBEE WAY	SANTA CLARA AVE. TO RAINE	287
ETHELBEE WAY	GROVEMONT ST. TO FAIRHAVE	287
ETHEREAL STREET	179' S/O SIENNA PKWY.TO 8	0
ETHEREAL STREET	CITRUS LN. TO 181' N'LY/O	0
ETHEREAL STREET	181' N'LY/O NARROW CANYON	0
ETHEREAL STREET (W1/2)	181' N'LY TO 208' N'LY/O	0
ETON PLACE	TRIAD LN. TO 84' SW/O O'	0
ETON PLACE	0.03 S/ TO AUBURN AVE.	287
ETON PLACE	BEACHMONT AVE. TO ERVIN L	287
ETON PLACE	GRAMERCY DR. TO DODGE AVE	287
ETON PLACE	DODGE AVE. TO FAIRHAVEN A	287
ETON PLACE	0.04 W/ TO ETON PL.	287
ETON PLACE	84' W/O O'NEILL DR. TO U	0
EUNICE PLACE	MORTON ST. TO 0.04 E/	289
EVENINGSIDE DRIVE	0.05 SW/ TRAILS END LN. T	290
EVENINGSIDE DRIVE	RANCHWOOD RD. TO REDBERRY	290
FAIRHAVEN AVENUE	YORBA ST. TO HEWES AVE.	292
FAIRHAVEN AVENUE	HEWES AVE. TO OLD FOOTHIL	292
FAIRHAVEN AVENUE EXTENSION	OLD FOOTHILL BLVD. TO BAR	293
FAIRHOPE DRIVE	STANTON AVE. TO 0.06 N/ A	293
FAIRLYNN BOULEVARD	ESPERANZA RD. TO 0.02 N/	293
FAIRMONT WAY	0.15 S/ TO FAIRHAVEN AVE.	293
FAIRWAY VIEW DRIVE	0.03 S/ TO 0.01 N/ CLUB T	295
FAIRWAY VIEW DRIVE	0.01 N/ TO 0.13 N/ CLUB T	295
FAIRWEATHER ROAD	0.04 SE/ TO 0.04 NW/ RANC	295

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List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
FAIRWEATHER ROAD	BROWNING AVE. TO SINGINGW	295
FALABELLA DRIVE	DORRANCE DR. TO 107' W/O	0
FALABELLA DRIVE	107' W/O HANOVERIAN WY.	0
FALKNER DRIVE	DOWNING ST. TO END	0
FALLOW LANE	FOLIATE WAY TO END	0
FAREN DRIVE	ORANGEVIEW RD. TO CIELO P	295
FARNHAM LANE	MILNEBURG ST. TO 0.07 E/	295
FENWICK PLACE	0.06 NE/ TO CAMBERA LN.	298
FIELDSTONE DRIVE	STEARNS DR. TO 0.04 N/	299
FIESTA WAY	HOWLAND WAY TO 0.04 E/	299
FILLMORE DRIVE	0.03 W/ ARTHUR DR. TO FOR	309
FIRST STREET	MAIN STREET TO MERCANTILE	310
FLAMINIAN WAY	SUBURNAS WAY TO MARBLE AR	312
FLIGHT AVENUE	VAN BUREN ST. TO 0.04 E/	312
FLIGHT AVENUE	MONROE ST. TO WILSON ST.	312
FLINT DRIVE	LEAFWOOD LN. TO .02 N/	312
FLINT DRIVE	SANTA CLARA AVE. TO ALLEG	312
FLINT DRIVE	WHITNEY DR. TO FAIRHAVEN	312
FLINT DRIVE	STEARNS DR. TO ROMELLE AV	312
FLINTRIDGE AVENUE	63' W/O SIENNA PKWY. TO 3	312
FLINTRIDGE AVENUE	37' NW/O TISBURY WAY TO E	0
FLINTRIDGE AVENUE (N1/2)	SIENNA PARKWAY TO 63'W	312
FLORA COURT	GOSSAMER PL. TO END	0
FLORIN LANE	GUINIDA LN. TO 0.07 N/	316
FOLIATE WAY	52' N/O AURA LN. TO END	0
FOLIATE WAY	51' SW/O AURA LN. TO END	0
FOOTHILL BOULEVARD	LEMON HEIGHTS DR. TO SKYL	321
FOOTHILL BOULEVARD	NEWPORT AVE. TO ORANGE KN	321
FOOTHILL BOULEVARD	ORANGE KNOLL DR. TO OLD F	321
FOOTHILL BOULEVARD	OLD FOOTHILL BLVD. TO HEW	321
FORTNEY DRIVE	MOEN ST. TO 0.07 N/	321
FORUM WAY	APPIAN WAY TO TRIUMPHAL W	322
FOSTER ROAD	DRUID LN. TO MAIN WAY DR.	322
FOSTER ROAD	MAIN WAY DR. TO 0.03 N/ C	322
FOSTER ROAD	0.03 N/ COLERIDGE DR. TO	322
FOWLER AVENUE	HEWES AVE. TO 0.04 E/	333
FOWLER AVENUE	0.04 E/ HEWES AVE. TO FAI	333
FRALEY STREET	0.04 S/ TO DECKER AVE.	333
FRANCISCA WAY	CLUB VIEW DR. TO CHALON R	335
FRANK STREET	ORANGE PARK BLVD. TO RAND	336
FREESIA	EDELWEISS TO END	336
FURLONG DRIVE	HUNTSMAN RD. TO 0.05 SW/	341
GAIA LANE	NARROW CANYON RD. TO TRIA	0
GALORA LANE	EPONA WAY TO END	0
GARDENIA STREET	SNOW BUSH ST. TO END	

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List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
GARLAND AVENUE	CHAPLET PL. TO RED HILL A	346
GARLAND AVENUE	DEAN ST. TO 0.07 NW/	346
GARZA AVENUE	KATELLA AVE. TO PACIFIC P	347
GATEWAY DRIVE	ORANGE KNOLL DR. TO SHEPA	349
GERSHON PLACE	VANDERLIP AVE. TO 17th ST	348
GERSHON PLACE	17th ST. TO 0.21 N/	348
GERSHON PLACE	0.05 S/ TO SANTA CLARA AV	348
GERTRUDE DRIVE	MARTHA ANN DR. TO FOSTER	348
GIGI DRIVE	ST JOHN PL. TO FOOTHILL B	348
GILBERT STREET	KATELLA AVE. TO 0.01 N/ P	349
GILBERT STREET	0.06 N/ PACIFIC PL. TO 0.	349
GILBERT STREET	ORANGE AVE. TO 0.20 N/	349
GILBERT STREET (E1/4)	369' S/O COLCHESTER DR. T	349
GILBERT STREET (E2/3)	0.01 N/ TO 0.06 N/ PACIFI	349
GILBERT STREET (E2/3)	0.03 S/ GUINIDA LN. TO BA	349
GILBERT STREET (E2/7)	BALL RD. TO 211' N	349
GILLY FLOWER STREET	DAISY ST. SOUTH TO STRAWF	349
GIMBERT LANE	17th ST. TO NEWTON AVE.	349
GIMBERT LANE	ERVIN LN. TO 0.07 N/	349
GIMBERT LANE	0.07 S/ TO SILVER MAPLE W	349
GINGHAM STREET	BRIDLE PATH TO WRANGLER C	349
GLADSTONE DRIVE	BANBURY CROSS RD. TO 0.10	350
GLADSTONE DRIVE	0.10 N/ BANBURY CROSS RD.	350
GLASSELL STREET	SANTA ANA RIVER TO 0.03 S	351
GLENAIRE DRIVE	ARROYO AVE. TO 0.12 NW/	353
GLENKNOLL DRIVE	LARKRIDGE DR. TO CRESTKNO	352
GLENMERE DRIVE	CASTLEGATE LN. TO 0.02 N/	352
GLENROY PLACE	0.02 SW/ TO SILVER FOX RD	352
GLOXINIA STREET	SKLAR ST. TO TRUMPET VINE	0
GOLD STAR LANE	0.07 SW/ TO LEMON HEIGHTS	355
GOLDMINE STREET	TOMAHAWK ST. TO TOMAHAWK	354
GOSSAMER PLACE	CAPRICORN DR. TO END	0
GRAMERCY DRIVE	HOLT AVE. TO ESPLANADE AV	363
GRAMERCY DRIVE	SUSSEX PL. TO SANDHURST P	363
GRASSY KNOLL LANE	MEANDERING TRAIL TO 0.02	364
GRASSY KNOLL LANE	120' W/O LEDGEWOOD DR. T	364
GRAVIER STREET	GUINIDA LN. TO 0.06 N/ BI	367
GREEN WILLOW COURT	GIMBERT LN. TO 0.06 E/	369
GREENBRIER ROAD	NEWPORT BLVD. TO RIDGEWAY	368
GREENVALE	0.04 SE/ MEADOWOOD TO 0.0	368
GREENVALE	0.03 E/ WOODSONG NW/ TO E	368
GREENWALD LANE	CRAWFORD CANYON RD. TO 0.	369
GREENWICH LANE	STONYBROOK DR. TO 0.08 N/	369
GREENWICH STREET	RAMM DR. TO BROADWAY	369
GREVILLEA COURT	SNOW BUSH ST. TO END	

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ROADNAME	limit_sort	ROADNO
GROVEMONT STREET	0.03 W/ TO ETHELBEE WAY	375
GROVEOAK DRIVE	BOCA CANYON DR. TO 0.13 N	375
GROVEOAK DRIVE	0.13 NW/ BOCA CANYON DR.	375
GUINIDA LANE	GILBERT ST. TO 0.09 E/ GR	376
GWEN AVENUE	RED HILL AVE. TO REBECCA	377
GWEN AVENUE	REBECCA LN. TO 0.04 NW/	377
HALF MOON TRAIL	IRON HORSE TRAIL TO ASH H	378
HALLCREST DRIVE	CURTIS LN. TO END	0
HAMBLETONIAN PLACE	EQUESTRIAN DR. TO 0.08 SW	379
HANCEFORD WAY	LONGFIELD LN. TO UNIVERSI	0
HANOVERIAN WAY	FALABELLA DR. TO ARDENNES	0
HARBOR BOULEVARD	0.15 S/ TO EDINGER AVE.	383
HARBOR BOULEVARD BRIDGE	0.05 S/ TO 0.05 N/ SANTA	383
HARCOURT AVENUE	KATELLA AVE. TO PACIFIC P	386
HARCOURT AVENUE	PACIFIC AVE. TO CERRITOS	386
HARHAY AVENUE	CEDARWOOD AVE. TO 0.02 E/	388
HARLE AVENUE	RODEO DR. TO DESSER LN.	388
HARLE AVENUE	GILBERT ST. TO 0.03 E/ CH	388
HARP COURT	MANNING DR. TO 0.04 N/	389
HARPER STREET	BOLSA AVE. TO HAZARD AVE.	392
HARRIET LANE	GILBERT ST. TO HEDLUND DR	392
HARRIET LANE	PERDIDO ST. TO POONA DR.	392
HARRISBURG ROAD	SAINT ALBANS DR. TO BOSTO	393
HARRISBURG ROAD	INVERNESS DR. TO COLERIDG	393
HARRISBURG ROAD	SILVERWOOD DR. TO DAVENPO	393
HARROGATE PLACE	0.12 SW/ TO 0.10 NE/ BRAD	392
HARVEST LANE	BALL RD. TO COLCHESTER DR	394
HARVEST LANE	STONYBROOK DR. TO RANDOM	394
HAZARD AVENUE (S1/8)	490' E/O BEACH BLVD.TO 16	398
HEARTH LANE	0.11 S/ TO BIENVILLE AVE.	399
HEARTHSIDE ROAD	39' E/O WELDON HEIGHTS TO	0
HEATHCLIFF DRIVE	LA LOMA DR. TO 0.04 NE/ L	399
HEATHCLIFF DRIVE	0.04 NE/ LANSDOWNE LN. TO	399
HEATHER GLEN	HEWES AVE. TO 0.06 E/	399
HEDLUND DRIVE	PACIFIC AVE. TO HARRIET L	399
HEDWIG ROAD	DONNIS RD. TO LOS ALAMITO	399
HEMPSTED STREET	KEMPTON LANE TO END	402
HEWES AVENUE	17th ST. TO ERVIN LN.	403
HEWES AVENUE	ERVIN LN. TO FOOTHILL BLV	403
HEWES AVENUE	FOOTHILL BLVD. TO 0.14 S/	403
HEWES AVENUE	0.14 S/ TO 0.10 S/ FAIRHA	403
HEWES AVENUE	0.10 S/ TO FAIRHAVEN AVE.	403
HEWES AVENUE	FAIRHAVEN AVE. TO OLD FOO	403
HEWES AVENUE	OLD FOOTHILL BLVD. TO FOW	403
HEWES STREET	PEARL ST. TO SPRING ST.	403

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ROADNAME	limit_sort	ROADNO
HEWES STREET	WALNUT AVE. TO 0.13 N/	403
HEWES STREET	0.13 N/ WALNUT AVE. TO BO	403
HEWES STREET	0.14 S/ TO VILLA PARK RD.	403
HEWES STREET (E1/2)	SPRING ST. TO 0.06 N/	403
HICKORY BRANCH ROAD	BENT TWIG LN. TO BLUEBERR	404
HICKORY BRANCH ROAD	0.04 SW/ TIFFANY PL. TO R	404
HIDEAWAY DRIVE	0.19 S/ TO NEWPORT BLVD.	404
HIGH CREST CIRCLE	0.07 SE/ TO DANIGER RD.	405
HIGHCLIFF DRIVE	RANGEVIEW DR. TO BRIER LN	406
HIGHCLIFF DRIVE	BRIER LN. TO 0.04 NW/	406
HIGHCLIFF DRIVE	0.04 NW/ TO 0.10 NW/ BRIE	406
HIGHCLIFF DRIVE	0.10 NW/ BRIER LN. TO NEW	406
HIGHVIEW DRIVE	VALHALLA DR. TO 0.10 NE/	406
HILL ROSE DRIVE	CHRISTY LN. TO OAK WAY DR	408
HILL ROSE DRIVE	SILVER FOX RD. TO ST CLOU	408
HILLHAVEN DRIVE	SUSSEX PL. TO ETON PL.	410
HILLHAVEN DRIVE	SANDHURST PL. TO 0.04 E/	410
HILLHAVEN DRIVE	0.02 W/ TO WINTHROPE ST.	410
HILLSBORO ROAD	BROADVIEW PL. TO 0.09 SW/	410
HILLSIDE DRIVE	CRESTVIEW SW/ TO END	411
HILLVIEW ROAD	STONYBROOK DR. TO RANDOM	411
HINTON WAY	0.05 W/ TO SHELLY LN.	411
HINTON WAY	SHELLY LN. TO CRAWFORD CA	411
HOLT AVENUE	0.01 S/ BIGELOW PARK TO W	415
HOLT AVENUE	WELLINGTON AVE. TO SEVENT	415
HOLT AVENUE	17th ST. TO 0.04 S/ GRAME	415
HOLT AVENUE	0.04 S/ TO GRAMERCY DR.	415
HOLT AVENUE (W1/2)	0.03 N/ IRVINE BLVD. TO 0	415
HOLT AVENUE (W1/2)	0.05 S/ TO 0.01 N/ LEON W	415
HOLT AVENUE (W1/2)	0.01 N/ LEON WAY TO WARRE	415
HOLT AVENUE (W1/2)	WARREN AVE. TO 0.01 S/ BI	415
HOMESTEAD DRIVE	ALTURA TO CLEMENTINE ST.	416
HOPI ROAD	POES ST. TO DALE ST.	420
HOSPITAL FRONTAGE ROAD	DAWN WAY TO JUSTICE CENTE	
HOWLAND WAY	THEODORA DR. TO 0.03 N/	422
HOWLAND WAY	0.03 N/ THEODORA DR. TO M	422
HOWLAND WAY	ORANGETREE LN. TO BIGELOW	422
HOWLAND WAY	WELLINGTON AVE. TO WESTON	422
HOWLAND WAY	WESTON ST. TO 17th ST.	422
HUBER STREET	0.04 S/ TO DECKER AVE.	422
HUNTER LANE	ENID LN. TO ROOSEVELT AVE	425
HUNTER LANE	BIRD AVE. TO 0.05 N/	425
HUNTING HORN DRIVE	SKYLINE DR. TO RESERVOIR	423
HUNTLEY DRIVE	SHAKESPEARE DR. TO DAVENP	425
HUNTRIDGE ROAD	MARBLE ARCH DR. TO CARLIS	425

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
HUNTSMAN ROAD	SKYLINE DR. TO KIMBERWICK	426
HYDE PARK DRIVE	ARROYO AVE. TO NEWPORT AV	426
HYDRANGEA STREET	30' W/O SELLAS RD.SOUTH T	0
ILLUMINATA LANE	EPONA WAY TO END	0
IMPALA DRIVE	0.04 W/ TO HOLT AVE.	428
INVERNESS DRIVE	FOSTER RD. TO HARRISBURG	432
INWOOD LANE	RANCHWOOD RD. TO 0.05 NW/	432
IRISH MOSS STREET	SKLAR ST. TO AMY WAY	0
IRON HORSE TRAIL	SIENNA PKWY. TO 137' SOUT	433
IRON HORSE TRAIL	137' S/O SIENNA PKWY. TO	433
IRONWOOD LANE	TAMARISK DR. TO COTTONWOO	433
IRVINE AVENUE	UNIVERSITY DR. TO MESA DR	434
IRVINE AVENUE (NW1/2)	317' S/ MONTE VISTA AVE.	434
IRVINE AVENUE (W1/2)	0.06 SW/ TO MONTE VISTA A	434
IRVINE BOULEVARD	BROWNING AVE. TO RED HILL	435
IRVINE BOULEVARD (NE1/2)	0.02 SE/ RANCHWOOD RD. TO	435
IRVINE BOULEVARD (NE1/2)	0.06 NW/ TO 0.21 NW/ RED	435
ISLAND WAY	15' N/O DANA DR. TO 50' S	
JACKSON RANCH ROAD SOUTH	SANTIAGO CANYON RD. TO JA	437
JACKSON STREET	ELMORE WAY TO BOLSA AVE.	438
JACKSON STREET	BOLSA AVE. TO ROOSEVELT A	438
JACKSON STREET (E1/2)	MCFADDEN AVE. TO ELMORE WAY	438
JEAN STREET	KATELLA AVE. TO CRESTWOOD	439
JEFFERSON STREET	0.02 S/ TO 0.04 N/ WORTHY	440
JEFFERSON STREET	BOLSA AVE. TO HAZARD AVE.	440
JENET CIRCLE	ERVIN LN. TO 0.06 N/	441
JOSHUA LANE	CARLSBAD DR. TO DALL LN.	443
JUDY ANNE LANE	0.02 S/ CASTLEGATE LN. TO	445
JUDY ANNE LANE	ERVIN LN. TO 0.07 N/	445
JUNCTION COURT	APACHE DR. NW/ TO END	444
JUSTICE CENTER WAY	CITY DR. TO HOSPITAL FRON	
KATELLA AVENUE	0.10 W/ TO 0.05 W/ MAGNOL	447
KATELLA AVENUE	MAGNOLIA ST. TO 0.15 E/	447
KATELLA AVENUE	0.03 W/ BERRY AVE. TO GIL	447
KATELLA AVENUE (N1/2)	GILBERT ST. TO 0.03 E/O J	447
KATELLA AVENUE (S1/2)	GILBERT ST. TO 0.03 E/O J	447
KATELLA AVENUE FRONTAGE RD	BERRY AVE. TO HARCOURT AV	447
KEEGAN WAY	0.03 W/ TO ETHELBEE WAY	447
KEITH PLACE	0.12 SW/ TO KENNETH DR.	446
KEITH PLACE	CAMEO DR. TO .03 NE/ BLAI	446
KEITHLEY DRIVE	MARTHA ANN DR. TO TIGERTA	446
KELLOGG DRIVE	0.02 N/ TO 0.07 N/ CLUB V	447
KELLOGG DRIVE	0.07 N/ TO 0.20 N/ CLUB V	447
KELLOGG DRIVE	0.20 N/ CLUB VIEW DR. TO	447
KEMPTON DRIVE	MARTHA ANN DR. TO MONTECI	447

Table A-3
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ROADNAME	limit_sort	ROADNO
KEMPTON LANE	40' W/O BLAKEMORE DR. TO	447
KEMPTON LANE	35' SE/ BLAKEMORE DR. TO	447
KENILWORTH DRIVE	SHAKESPEARE DR. TO WALLIN	448
KENNELLY LANE	MILNEBURG ST. TO 0.07 E/	448
KENNETH DRIVE	0.03 SE/ TO DEL REY DR.	448
KENNETH DRIVE	CHAPLET PL. TO 0.06 NW/	448
KENNETH DRIVE	RED HILL AVE. TO CHARLOMA	448
KENSINGTON ROAD	SALMON DR. TO MAINWAY DR.	448
KENSINGTON ROAD	BOSTONIAN DR. TO CHANNING	448
KENSINGTON ROAD	SILVERWOOD DR. TO 0.02 N/	448
KENSINGTON ROAD	0.02 N/ SHAKESPEARE DR. T	448
KENTWATER PLACE	SHADOW HILL DR. TO 0.15 S	450
KENWOOD LANE	SIERRA ALTA DR. TO LA COL	449
KERTH DRIVE	BASKERVILLE RD. TO FOSTER	449
KIMBERWICKE DRIVE	HUNTSMAN RD. TO 0.02 SE/	450
KIMBERWICKE DRIVE	0.02 SE/ TO BRIGHTON DR.	450
KINGSVIEW ROAD	FOWLER AVE. TO 0.11 N/	451
KINGSWAY DRIVE	DOWNING ST. TO REGENTS PA	0
KIRK AVENUE	LIVINGSTON ST. TO DALL LN	451
KIRKWOOD AVENUE	PALOMAR WAY TO 0.02 W/ WO	451
KITTERMAN AVENUE	0.03 S/ TO SILVERADO CANY	452
KITTRICK DRIVE	FOSTER RD. TO HARRISBURG	452
KOOTENAY DRIVE	SANTA CLARA AVE. TO LASSE	453
KYLE COURT	SIENNA PKWY. TO 88' EASTE	454
KYLE COURT	88' E/O SIENNA PKWY. TO K	454
LA BELLA DRIVE	WINDSOR LN. TO LA COLINA	455
LA BELLA DRIVE	LA COLINA DR. TO 0.09 NE/	455
LA CANADA WAY	IRVINE AVE. TO 0.04 NW/	455
LA COLINA DRIVE	0.13 SE/ TO BROWNING AVE.	457
LA COLINA DRIVE	BROWNING AVE. TO RED HILL	457
LA COLINA DRIVE	RED HILL AVE. TO 0.25 NW/	457
LA COLINA DRIVE	0.25 NW/ RED HILL AVE. TO	457
LA CUESTA DRIVE	FOOTHILL BLVD. TO LEMON H	459
LA LIMONAR ROAD	ARROYO AVE. TO NEWPORT AV	466
LA LOMA DRIVE	0.25 SE/ TO RED HILL AVE.	467
LA LOMA DRIVE	RED HILL AVE. TO HEATHCLI	467
LA LOMA DRIVE	HEATHCLIFF DR. TO ARROYO	467
LA LOMA DRIVE	ARROYO AVE. TO PINCIAN WA	467
LA LOMA DRIVE	PINCIAN WAY TO NEWPORT AV	467
LA LOMA DRIVE	NEWPORT AVE. TO LAS NINAS	467
AVENIDA LA PATA	160' S/ TO ORTEGA HWY	
LA SALLE LANE	COUSTEAU LN. N'LY AND S'L	0
LA SIERRA PLACE	OVERHILL DR. TO 0.09 NE/	479
LADD CANYON ROAD	SILVERADO CANYON RD. TO 0	459
LAKE COURT ROAD	LOWER LAKE DR. TO 0.10 NE	465

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ROADNAME	limit_sort	ROADNO
LAKECREST CIRCLE	RANGEVIEW DR. TO 0.04 SE/	464
LAMBETH WAY	BIGELOW PARK TO 17th ST.	467
LANDERS DRIVE	RIATA ST. TO .04 E/	469
LANDFAIR CIRCLE	WOODLAWN AVE. TO 0.09 NW/	469
LANESBORO ROAD	STERLING GLEN TO END	0
LANGFORD LANE	40' S/O RANUNCULUS ST TO	0
LANSDOWNE LANE	TAMMANY CIR. TO HEATHCLIF	470
LARIAT LANE	DEEP WELL RD. NE/ TO END	474
LARK DRIVE	ROLLING RIDGE TO SPRING V	474
LARKRIDGE DRIVE	CRESTKNOLL DR. TO 0.03 E/	475
LARKSTONE DRIVE	PROSPECT AVE. TO 0.02 E/	475
LARKSTONE DRIVE	0.02 E/ DUNAS RD. TO 0.02	475
LARRY DRIVE	PACIFIC AVE. TO 0.07 N/	475
LARRY DRIVE	0.03 S/ TO HARRIET LN.	475
LAS BRISAS DRIVE	SKYLINE DR. TO 0.05 NW/ L	478
LAS LUCES	RACQUET HILL TO 0.16 E/	480
LAS NINAS DRIVE	LA LOMA DR. TO ERVIN LN.	479
LASSEN DRIVE	LASSEN WAY TO SHASTA WAY	480
LASSEN DRIVE	BOW PL. TO ESPLANADE AVE.	480
LASSEN DRIVE	SANDHURST PL. TO 0.02 NE/	480
LASSEN WAY	WHITNEY DR. TO LASSEN DR.	480
LATIGO CANYON ROAD	CRYSTAL CANYON RD. E/ TO	480
LAURELHURST DRIVE	36' SE/WALDEN ST TO END	482
LAURELHURST DRIVE	65' NW'LY/O WALDEN ST. T	482
LAURELHURST DRIVE	36' SE/ TO 65' NW/ WALDEN	482
LAURIE LANE	LAURINDA WAY TO PROSPECT	482
LAURINDA WAY	WELLINGTON AVE. TO 0.03 N	482
LAURINDA WAY	LAURIE LN. TO LINDA LN.	482
LAURINDA WAY	LEAFWOOD LN. TO 0.05 N/	482
LAURINDA WAY	SANTA CLARA AVE. TO ALLEG	482
LAURINDA WAY	WHITNEY DR. TO 0.11 N/	482
LEAFWOOD LANE	LAURINDA WAY TO PROSPECT	485
LEAFWOOD LANE	YELLOWSTONE DR. TO SANTA	485
LEDGEWOOD DRIVE	GRASSY KNOLL LN. N/ & S/	484
LEDON WAY	CEDARWOOD AVE. TO 0.06 E/	485
LEDON WAY	PACIFIC ST. TO 0.04 E/	485
LEGION PLACE	0.08 E/ BEACH BLVD. TO MO	485
LEGION PLACE (S1/2)	BEACH BLVD. TO 0.08 E	485
LEMON CIRCLE	LEMON LEAF LN. TO 0.04 NW	485
LEMON HEIGHTS DRIVE	FOOTHILL BLVD. TO END	0
LEMON HEIGHTS DRIVE	SKYLINE DR. TO LA CUESTA	486
LEMON HILL DRIVE	NEWPORT AVE. TO 0.04 NW/	486
LEMON LEAF LANE	LEMON HILL DR. TO 0.06 N/	486
LEMONA LANE	0.12 SW/ TO LA COLINA DR.	485
LEON PLACE	LILLIAN WAY TO LEON WAY	492

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ROADNAME	limit_sort	ROADNO
LEON WAY	LEON PL. TO HOLT AVE.	492
LERNER LANE	SIMON RANCH RD. TO 0.08 N	492
LERNER LANE	SKYLINE DR. TO 0.14 NW/	492
LEWISTON COURT	44' NW/O FLINTRIDGE AVE.	0
LIANE LANE	0.22 S/ TO SIMON RANCH RD	495
LILLIAN WAY	LIVINGSTON ST. TO 0.02 E/	496
LILLIAN WAY	0.02 E/ CANDEDA PL. TO HO	496
LIMETREE DRIVE	THORLEY RD. TO CHERRYHILL	496
LIMETREE WAY	MAUVE DR. TO ALLTHORN DR.	496
LINCOLN AVENUE (N1/2)	SANTA ANA RIVER TO 0.05 E	496
LINCOLN AVENUE (N1/2)	0.05 E/ SANTA ANA RIVER T	469
LINCOLN AVENUE (N4/5)	BATAVIA ST. TO 0.34 E	496
LINDA LANE	LAURINDA WAY TO PROSPECT	500
LINDALE LANE	ERVIN LN. TO BIKINI PL.	500
LINDERO CANYON ROAD	TOPANGA CANYON RD. S/ TO	500
LIVE OAK CANYON ROAD	TRABUCO CANYON RD. TO 1.0	502
LIVE OAK CANYON ROAD	1.00 N/ TO 1.13 N/ TRABUC	502
LIVE OAK CANYON ROAD	1.13 N/ TO 1.37 N/ TRABUC	502
LIVE OAK CANYON ROAD	1.37 N/ TO 2.05 N/ TRABUC	502
LIVE OAK CANYON ROAD	2.05 N/ TO 2.17 N/ TRABUC	502
LIVE OAK CANYON ROAD	2.17 N/ TO 2.29 NW/ TRABU	502
LIVE OAK CANYON ROAD	2.29 NW/ TO 2.43 NW/ TRAB	502
LIVE OAK CANYON ROAD	2.43 NW/ TRABUCO CANYON R	502
LIVE OAK CANYON ROAD	0.54 E/ TO 0.10 E/ EL TOR	502
LIVE OAK CANYON ROAD	0.10 E/ TO 0.03 E/ EL TOR	502
LIVINGSTON PLACE	850' SW TO 320' NW/O WESC	0
LIVINGSTON STREET	LILLIAN WAY TO 0.02 S/ BE	502
LIVINGSTON STREET	0.02 S/ BENETA WAY TO 0.0	502
LIVINGSTON STREET	0.03 N/ BIGELOW PARK TO W	502
LIVINGSTON STREET	WESTON PL. TO 0.08 N/	502
LOCH LOMOND ROAD	SHAKESPEARE DR. TO DONNIE	503
LODEN PASS	41' SE/O SOL ST. TO MOCHA	0
LOMA LINDA WAY	ARROYO LINDO DR. TO LA LO	505
LONE OAK CIRCLE	SLEEPY HOLLOW LN. TO END	470
LONGFIELD LANE	43' S/O HANCEFORD WY. TO	0
LONGHORN STREET	ALTURA TO CHEROKEE ST.	505
LONGMONT PLACE	0.08 SE/ TO 0.05 NW/ SHAD	505
LORETTA DRIVE	SANTA CLARA AVE. TO RAINI	506
LORETTA DRIVE	WHITNEY DR. TO FAIRHAVEN	506
LORETTA DRIVE	FAIRHAVEN AVE. TO 0.10 N/	506
LORING DRIVE	HARRISBURG RD. TO MONTECI	506
LOST CANYON	ROLLING RIDGE TO END	519
LOWER LAKE DRIVE	LEMON HEIGHTS DR. TO BENT	522
LOWER LAKE DRIVE	BENT TREE RD. TO 0.14 SE/	522
LUCERO WAY	LIVINGSTON ST. TO HOLT AV	523

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ROADNAME	limit_sort	ROADNO
LUCINDA WAY	REBECCA LN. TO 0.05 NW/	524
LUCINDA WAY	WOODLAWN AVE. TO CHARLOMA	524
LUCINDA WAY	ZIG ZAG WAY TO ALRAY PL.	524
LULLABY CIRCLE	MELODY LN. E AND W TO END	0
LULLABY LANE	PERDIDO ST. TO POONA DR.	524
LUNA COURT	CELESTINE CIRCLE TO END	0
LURLINE LANE	CHARLOMA DR. TO 0.06 NW/	524
LYNRIDGE DRIVE	OLD RANCH RD. TO 0.11 N/	525
MAC STREET	0.04 N/ KATELLA AVE. TO A	527
MAC STREET (W1/2)	0.03 N/ TO 0.04 N/ KATELL	527
MACARTHUR BOULEVARD (W1/8)	CAMPUS DR. TO I-405	
MACMURRAY STREET	REGAL AVE. TO SYRACUSE AV	528
MACNAB STREET	REGAL AVE. TO 0.04 N/	528
MADISON AVENUE	BEACH BLVD. TO NEWLAND ST	529
MADISON AVENUE	NEWLAND ST. TO 0.03 E/ HU	529
MAGNOLIA AVENUE	BUENA VISTA ST. TO 40' S/	534
MAGNOLIA DRIVE	BLUE SPRUCE DR. N AND S T	0
MAIN STREET	0.13 SE/O REDHILL AVE TO	541
MAIN STREET	WINDMILL AVE. TO SIENNA P	540
MAIN STREET	SIENNA PARKWAY TO 227' E/	540
MAIN STREET	227' E/O WELBE CIRCLE WES	0
MAIN STREET	ORANGE-OLIVE RD. TO OLIVE	540
MAIN STREET	ORANGE AVE. TO 0.04 E/ OC	540
MAIN WAY DRIVE	MARTHA ANN DR. TO MONTECI	544
MAITLAND ROAD	LONGFIELD LN. TO UNIVERSI	0
MALENA DRIVE	SANTA CLARA AVE. TO 0.03	545
MALENA DRIVE	0.03 N/ RAINIER DR. TO WH	545
MALENA DRIVE	WHITNEY DR. TO 0.10 N/	545
MALENA DRIVE	FAIRHAVEN AVE. TO 0.25 N/	545
MALTA STREET	SPAULDING AVE. TO VALE AV	545
MANNING DRIVE	BRENAN WAY TO EHLEN WAY	545
MANNING DRIVE	MERVYN PL. TO MORTON ST.	545
MARBLE ARCH DRIVE	BANBURY CROSS RD. TO 0.01	547
MARBLE ARCH DRIVE	0.01 N/ CHADWICK LN. TO H	547
MARBLE ARCH DRIVE	FLAMINIAN WAY TO TRIUMPHA	547
MARCY DRIVE	BARRETT LN. TO NEWPORT AV	548
MARCY RANCH ROAD	MARCY DR. TO 0.23 NE/	548
MARIAN AVENUE	0.02 W/ TO 0.03 E/ THISTL	550
MARKEV STREET	0.03 S/ TO REGAL AVE.	551
MARKHAM LANE	DOWNING ST. TO CALDWELL L	0
MARQUIS CIRCLE	CASTLEGATE LN. TO 0.03 NE	550
MARSHALL LANE	ETHELBEE WAY TO 115' WES	0
MARSTON LANE	BAINBRIDGE AVE. TO WHIDBE	0
MARTHA ANN DRIVE	DRUID LN. TO 0.02 N/ MAIN	553
MARTHA ANN DRIVE	0.02 N/ MAIN WAY DR. TO 0	553

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ROADNAME	limit_sort	ROADNO
MARTHA ANN DRIVE	0.01 N/ COLERIDGE DR TO 0	553
MARTHA ANN DRIVE	0.03 N/ SHAKESPEARE DR. T	553
MARTHA ANNE DRIVE	HOWLAND WAY TO 0.10 W/	553
MARTINGALE PLACE	BRIGHTON DR. TO 0.07 NW/	554
MARYNELL DRIVE	OLD RANCH RD. TO 0.11 N/	554
MASON LANE	WEDGEWOOD LN. TO WINFIELD	554
MATRYCE WAY	WESTON PL.TO 0.06 N/	555
MAUVE DRIVE	17th ST. TO 0.17 N/	556
MAYBECK LANE	ONEILL DR. TO 451' SOUTHE	576
MAYBECK LANE	77' NW/ COURTNEY CIR. TO	576
MAYNARD WAY	CARMEL WAY TO 0.06 W/	556
MAYVILLE PLACE	SLEEPY HOLLOW LN. TO END	556
MCCLEAN DRIVE	BROWNING AVE. TO 0.09 NW/	557
MCFADDEN AVENUE	0.02 W/ CEDARWOOD AVE. TO	561
MCFADDEN AVENUE	JACKSON ST. TO VAN BUREN	561
MCFADDEN AVENUE (S1/2)	0.03 E/O MONROE ST. TO 0.	561
MCGWIRE	ONEILL DR. TO 350' WEST	0
MEADOW RIDGE DRIVE	VALLEY VISTA WAY TO 0.03	566
MEADOW RIDGE DRIVE	0.03 S/DEERFIELD PL TO 0.	566
MEADOW RIDGE DRIVE	0.02 S/RIVERVIEW DR TO CH	566
MEADOWWOOD	CASTLETREE NE/ TO END	566
MEADS AVENUE NORTH	ORANGE PARK BLVD. TO RAND	566
MEADS AVENUE NORTH (W1/2)	RANDALL ST. TO 685' N/	566
MEADS AVENUE NORTH (W1/2)	0.03 S/ TO 0.06 S/O SANTI	
MEADS AVENUE SOUTH	ORANGE PARK BLVD. TO ORAN	566
MEANDERING TRAIL	ANTONIO PKWY. TO 0.24 S/	566
MEANDERING TRAIL	OSO PKWY. TO 164' E/O EDE	566
MEANDERING TRAIL (E1/2)	0.24 S/O CRESTVIEW TO OSO	566
MEANDERING TRAIL (W1/2)	0.24 S/ CRESTVIEW TO OSO	566
MEDFORD AVENUE	ETON PL. TO SANDHURST PL.	565
MEDIA PANORAMA	CIRCULA PANORAMA TO BAJA	567
MELODY LANE	ETHEREAL ST. TO END	0
MELVIN WAY	269' W/O WOODLAND DR. TO	568
MELVIN WAY (N1/2)	REDHILL AVE. TO 269' W/O	568
MENUDA PANORAMA	20' NW/O ALTA PANORAMA TO	
MERCADO AVENUE	ANDORA DR. TO ASHGROVE DR	569
MERCANTILE WAY	SIENNA PARKWAY TO WINDMIL	568
MEREDITH DRIVE	0.06 W/ TO LORETTA DR.	569
MERRILL HILL	STRATHMORE TO END	0
MERRIWEATHER PLACE (N1/2)	33' W/O AGAPANTHUS ST. TO	0
MERRIWEATHER PLACE (S1/2)	36' W/O AGAPANTHUS ST. TO	0
MERVYN PLACE	MANNING DR. TO 0.03 N/	570
MESA DRIVE	IRVINE AVE. TO SANTA ANA	572
MESSERSMITH AVENUE	GREENWICH ST. TO 0.02 E/	572
MILFORD CIRCLE	BRENAN WAY TO 0.06 NW/	575

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ROADNAME	limit_sort	ROADNO
MILNEBURG STREET	GUINIDA LN. TO TO 0.03 N/	576
MINFORD CIRCLE	PICKERING CIRCLE TO END	0
MIRA LOMA PLACE	IRVINE AVE. TO 0.04 NW/	577
MIRALAGO PLACE	0.12 S/ TO OVERHILL DR.	577
MIRAVISTA DRIVE	BOCA CANYON DR. TO OVERHI	577
MOCCASIN TRAIL	MEADOW RIDGE DR. E/ TO EN	582
MOCHA LANE	LODEN PASS TO END	0
MODJESKA CANYON ROAD	SANTIAGO CANYON RD. TO 0.	582
MODJESKA GRADE ROAD	SANTIAGO CANYON RD. TO MO	583
MOEN STREET	FORTNEY DR. TO AUGUSTA DR	583
MOEN STREET	YORKSHIRE AVE. TO ORANGEW	583
MONROE STREET	0.02 S/ TO WORTHY DR.	584
MONROE STREET	WORTHY DR. TO MCFADDEN AV	584
MONROE STREET	BOLSA AVE. TO HAZARD AVE.	584
MONTAGNE DRIVE	BLUE RIDGE DR. TO ALLEGHE	585
MONTECITO ROAD	TIGERTAIL DR. TO 0.02 N/	588
MONTECITO ROAD	0.02 N/ MAIN WAY DR. TO S	588
MORADA DRIVE	MEADS AVE. TO 0.41 NW/	592
MORNING TRAIL	OSO PKWY. TO 164' E/O EDE	592
MORTON STREET	MANNING DR. TO EUNICE PL.	592
MOSSLER STREET	YORKSHIRE AVE. TO ORANGEW	593
MOUNT HOOD DRIVE	SANTA CLARA AVE. TO ALLEG	595
MOUNTAIN VIEW AVENUE	SUNMIST DR. TO 0.10 SE/	596
MOUNTAIN VIEW AVENUE	0.10 SE/ SUNMIST DR. TO 0	596
MOUNTAIN VIEW AVENUE (N1/2)	KELLOGG DR. TO 681'SE	0
MULBERRY LANE	MEADOW RIDGE DR. S/ TO EN	598
MUMFORD DRIVE	0.07 S/ TO ARROYO AVE.	596
MYSTIC LANE	YARDLEY ST. TO 0.10 E/	598
NAPA STREET	CAY ST. TO 0.09 NW/	599
NARROW CANYON ROAD	46' SW/O O'NEILL DR. TO 2	0
NARROW CANYON ROAD	292' S/O CLARIN ST. TO ET	0
NEARING DRIVE	CHAPMAN AVE. TO ORANGEWOO	599
NEWBURY ROAD	INVERNESS DR. TO COLERIDG	601
NEWBURY WAY	FRANKLIN WAY TO END	0
NEWHAVEN DRIVE	0.14 S/ TO FAIRHAVEN AVE.	601
NEWKIRK ROAD	WELDON HEIGHTS TO END	0
NEWLAND STREET	BOLSA AVE. TO HAZARD AVE.	603
NEWPORT AVENUE	0.04 SW/ TO LA COLINA DR.	606
NEWPORT AVENUE	LA COLINA TO VANDERLIP AV	606
NEWPORT AVENUE	VANDERLIP AVE. TO SE SKYL	606
NEWPORT AVENUE	S.E. SKYLINE DR. TO SEVEN	606
NEWPORT AVENUE	17th ST. TO LA LOMA DR.	606
NEWPORT AVENUE	LA LOMA DR. TO DODGE AVE.	606
NEWPORT AVENUE	DODGE AVE. TO FOOTHILL BL	606
NEWPORT AVENUE	FOOTHILL BLVD. TO 0.16 N/	606

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ROADNAME	limit_sort	ROADNO
NEWPORT AVENUE	0.16 N/ FOOTHILL BLVD. TO	606
NEWPORT AVENUE	LA LIMONAR RD. TO HYDE PA	606
NEWPORT AVENUE	HYDE PARK DR. TO CRAWFORD	606
NEWPORT AVENUE (SE1/2)	0.01 SW/O WASS ST. TO WAR	606
NEWPORT AVENUE (SE1/2)	WARREN AVE. TO 0.04 NE	606
NEWPORT AVENUE (SE1/2)	0.04 NE/WARREN AVE. TO 0.	606
NEWPORT BOULEVARD	CRAWFORD CANYON RD. TO 0.	606
NEWPORT BOULEVARD	0.11 NE/ CRAWFORD CANYON	606
NEWPORT BOULEVARD	COWAN HEIGHTS DR. TO BRIE	606
NEWPORT BOULEVARD	BRIER LN. TO 0.02 NE/ GRE	606
NEWPORT BOULEVARD	0.02 NE/ GREENBRIER RD. T	606
NEWTON AVENUE	ETON PL. TO SANDHURST PL.	607
NEWTON AVENUE	GIMBERT LN. TO 0.03 E/	607
NEWTON AVENUE	0.03 E/ GIMBERT LN. TO 0.	607
NORGROVE LANE	ACECA DR. TO COLERIDGE DR	637
NORWOOD PARK	PROSPECT AVE. TO LIVINGST	639
NORWOOD PARK	LIVINGSTON ST. TO DALL LN	639
NORWOOD PARK	DALL LN. TO HOLT AVE.	639
OAK GROVE CIRCLE	HEATHCLIFF DR. TO 0.10 E/	642
OAK GROVE ROAD	CHAUCER RD. TO MONTECITO	645
OAK KNOLL DRIVE	MARTHA ANN DR. TO FOSTER	640
OAK KNOLL DRIVE	BALLANTINE DR. TO SILVER	640
OAK KNOLL DRIVE	CHAUCER RD. TO WEATHERBY	640
OAK LEAF DRIVE	KEMPTON DR. TO OAK KNOLL	645
OAK RIDGE DRIVE	MOUNT HOOD DR. TO BLUE RI	640
OAK RIDGE DRIVE	BOW PL. TO 0.11 E/ KOOTEN	640
OAK RIDGE DRIVE	SANDHURST PL. TO 0.04 E/	640
OAK RIDGE DRIVE	0.02 W/ TO WINTHROPE ST.	640
OAK RIDGE DRIVE	HEWES AVE. TO 0.10 E/	640
OAK WAY DRIVE	ROWENA DR. TO DRUID LN.	645
OAK WAY DRIVE	HILL ROSE DR. TO BRIMHALL	645
OAK WAY DRIVE	SALMON DR. TO BLUME DR.	645
OAKTREE	ANTONIO PKWY. TO 0.07 E/	646
OAKVALE DRIVE (S1/2)	0.06 E/ FAIRLYNN BLVD. TO	646
OCEAN VIEW AVENUE	0.06 N/ LINCOLN AVE. TO B	649
OLD FOOTHILL BOULEVARD	FOOTHILL BLVD. TO HEWES A	656
OLD MILL ROAD	BRADBURY RD. TO WENDY WAY	656
OLD RANCH ROAD	KELLOGG DR. TO 0.03 E/ PA	657
OLD RANCH ROAD	0.03 E/ PASATIEMPO DR. TO	657
OLD RANCH ROAD	LYNRIDGE DR. TO FAIRMONT	657
OLIVE AVENUE	MAIN ST. TO BUENA VISTA S	667
OLIVE AVENUE	BUENA VISTA ST. TO 0.04 N	667
OLIVE STREET	CELESTINE CIRCLE TO END	0
OLYMPIA WAY	RAINIER DR. TO FAIRHAVEN	667
OLYMPIA WAY	FAIRHAVEN AVE. TO 0.09 N/	667

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
OLYMPIA WAY	LARKSTONE DR. TO 0.10 N/	667
OMEGA DRIVE	THETA RD. TO 0.13 NW/ BRO	668
ONEILL DRIVE	BENJAMIN DR. TO CROWN VAL	0
ONEILL DRIVE	CROWN VALLEY PKWY. TO 46'	669
ONEILL DRIVE	277' W TO 61' W/O SIENNA	0
ONEILL DRIVE	61' W/O SIENNA PKWY. TO	0
ONEILL DRIVE	45' W/O HYDRANGEA ST. TO	669
ORANGE AVENUE	GILBERT ST. TO 0.02 W/ GR	669
ORANGE AVENUE	0.02 E/ GREENWICH ST. TO	669
ORANGE AVENUE	MAIN ST. TO BIXBY AVE.	680
ORANGE KNOLL DRIVE	FOOTHILL BLVD. TO 0.09 NE	669
ORANGE KNOLL DRIVE	0.09 NE/ TO 0.17 NE/ FOOT	669
ORANGE OLIVE ROAD	LINCOLN AVE. TO 0.19 N/	681
ORANGE PARK BOULEVARD	CHAPMAN AVE. TO 0.13 N/	676
ORANGE PARK BOULEVARD (W1/2)	0.13 N/ TO 0.35 N/ CHAPMA	676
ORANGE TREE LANE	PROSPECT AVE. TO HOWLAND	682
ORANGEVIEW ROAD	FAREN DR. TO TREASURE LN.	682
ORANGEVIEW ROAD	TREASURE LN. TO 0.03 SW/	682
ORANGEVIEW ROAD	0.03 SW/ TO CLOYDEN RD.	682
ORANGEWOOD AVENUE	SHAKESPEARE DR. TO LOS AL	682
ORANGEWOOD AVENUE	0.25 W/ TO DALE ST.	682
ORCHARD DRIVE	MOUNTAIN VIEW TO 48' NE/	
ORLANDO ROAD	BRADBURY RD. TO 0.10 N/	684
ORVILLINA DRIVE	SOUTHEAST SKYLINE DR. TO	686
OSO PARKWAY	0.57 W/ TO ANTONIO PKWY.	685
OSO PARKWAY	ANTONIO PKWY. TO SH 241	685
OSO PARKWAY	SH 241 TO COTO DE CAZA DR	685
OUTLOOK LANE	SIMON RANCH RD. NE/ TO EN	686
OVERBROOK DRIVE	0.08 SW/ TO 0.04 NE/ CORA	687
OVERHILL DRIVE	COWAN HEIGHTS DR. TO 0.01	686
OVERHILL DRIVE	0.01 NE/ MIRA VISTA DR TO	686
OVERHILL DRIVE	0.03 S/ SIRRINE DR. TO RA	686
OVERHILL DRIVE	RANGEVIEW DR. TO 0.18 NE/	686
OVERVIEW CIRCLE	OVERHILL DR. TO 0.04 N/	687
PACIFIC AVENUE	123' E/O MAGNOLIA ST. TO	695
PACIFIC AVENUE	GILBERT ST. TO BROOKHURST	695
PACIFIC PLACE	0.02 W/ BERRY AVE. TO GIL	694
PACIFIC STREET	MCFADDEN AVE. TO HARHAY A	687
PACIFIC STREET	0.12 S/ TO BOLSA AVE.	687
PADDOCK LANE	0.05 SW/ TO 0.04 NE/ DERB	694
PALAIS ROAD	RHIEMES RD. TO PERDIDO ST	695
PALAIS ROAD	ANTIGUA ST. TO BROOKHURST	695
PALM AVENUE	50' N/O LINCOLN AVE. TO 1	704
PALOMAR WAY	RAINIER DR. TO FAIRHAVEN	707
PALOMAR WAY	FAIRHAVEN AVE. TO KIRKWOO	707

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
PANDORA LANE	YARDLEY ST. TO 0.10 E/	708
PANORAMA CIRCLE	WEST VISTA PANORAMA TO EA	
PANORAMA CREST	PANORAMA PL. TO PANORAMA	708
PANORAMA VIEW	PANORAMA PL. TO 0.19 N/	708
PAPETTE CIRCLE	COUSTEAU LN. TO END	0
PARADE STREET	STONYBROOK DR. TO RANDOM	709
PARK SKYLINE ROAD	SKYLINE DR. TO 0.19 NW/	713
PARKVIEW TERRACE	CHARMAINE LN. TO 0.05 W/	714
PARLIAMENT PLACE	DOWNING ST. TO END	0
PASATIEMPO DRIVE	OLD RANCH RD. TO SHADOW H	717
PATINA LANE	LODEN PASS TO END	0
PATRICIA DRIVE	PACIFIC AVE. TO 0.07 N/	719
PATRICIA DRIVE	0.03 S/ TO HARRIET LN.	719
PAVILLION DRIVE	SIMON RANCH RD. TO SALT A	720
PEACOCK HILL DRIVE	SKYLINE DR. TO 0.28 W/	721
PEARL STREET	ESPLANADE ST. TO 0.03 E/	722
PEARL STREET	0.03 E/ TO 0.12 E/ HEWES	722
PEARL STREET (N2/3)	0.12 E/ HEWES ST TO RANCH	722
PEMBERTON ROAD	HARRISBURG RD. TO HEDWIG	724
PEMBROKE DRIVE	BRADCLIFF DR. TO 0.09 NE/	724
PERDIDO STREET	CERRITOS AVE. TO 0.03 N/	727
PERDIDO STREET	0.03 N/ HARRIET LN. TO BA	727
PETERS AVENUE	MONROE ST. TO WILSON ST.	727
PICKERING CIRCLE	45' N/O FLINTRIDGE AVE. T	0
PIEDMONT AVENUE	MARTHA ANN DR. TO FOSTER	731
PINCIAN WAY	LA LOMA DR. TO FLAMINIAN	735
PINCIAN WAY	APPIAN WAY TO RISA PL.	735
PINE STREET	BEACH BLVD. TO ADAMS ST.	737
PINEHURST WAY	MEANDERING TRAIL TO ROLLI	736
PINK TRUMPET STREET	AGAPANTHUS ST. TO END	0
PINTO LANE	SCOTT TO STANTON LN.	738
PLEASANTON LANE	CHANTILLY LN. N & S/ TO E	744
PLUM STREET	CELESTINE CIRCLE TO END	0
POES STREET	0.06 E/ NEARING DR. TO AU	747
POES STREET	YORKSHIRE AVE. TO ORANGEW	747
POMEGRANATE STREET	AGAPANTHUS ST. TO END	0
POONA DRIVE	CERRITOS AVE. TO HARRIET	750
PORTOLA PARKWAY	478' NW/O SH 241 TO END	0
PROSPECT AVENUE	0.24 N/ 17th ST. TO SANTA	753
PROSPECT AVENUE	SANTA CLARA AVE. TO FAIRH	753
PROSPECT AVENUE (E1/2)	0.24 N/ TO 0.27 N/ IRVINE	753
PROSPECT AVENUE (E1/2)	0.27 N/ IRVINE BLVD. TO 0	753
PROSPECT AVENUE (E1/2)	0.12 S/ TO 0.11 S/ 17th S	753
PROSPECT AVENUE (E1/2)	17th ST. TO 0.09 N	753
PROSPECT AVENUE (E1/2)	0.09 N/ TO 0.12 N/ 17th S	753

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
PROSPECT AVENUE (E1/2)	0.12 N/ TO 0.24 N/ 17th S	753
PROSPECTOR COURT	GINGHAM ST. N/ TO END	753
PURDY STREET	BOLSA AVE. TO HAZARD AVE.	753
PYLE WAY	RIATA ST. TO 0.04 E/	753
QUADRILLE PLACE	KIMBERWICKE DR. TO 0.09 N	754
QUAIL RUN ROAD	KENSINGTON RD. TO WALLING	754
RACQUET HILL	SKYLINE DR. TO 0.11 SE/ L	756
RADIANCE LANE	MORNING TRAIL TO RADIANCE	755
RAINBOW DRIVE	0.02 SE/ RANCHWOOD RD. TO	755
RAINBOW DRIVE	BROWNING AVE. TO 0.08 NW/	755
RAINBOW DRIVE	0.03 SE/ HICKORY BRANCH R	755
RAINDANCE STREET	HOMESTEAD DR. TO ABILENE	757
RAINIER DRIVE	ETHELBEE WAY TO PROSPECT	760
RAINIER DRIVE	PROSPECT AVE. TO 0.02 W/	760
RAINIER DRIVE	0.02 W/ TO BOW PL.	760
RAINIER DRIVE	KOOTENAY DR. TO 0.06 E/	760
RAMM DRIVE	GREENWICH ST. TO 0.02 E/	757
RAMM DRIVE	0.02 W/ TO 0.05 E/ THISTL	757
RANCH HILL	LAS LUCES TO 0.11 N/	757
RANCHO SANTIAGO BLVD.	PEARL ST. TO 0.19 S/ WALN	758
RANCHVIEW DRIVE	LA COLINA DR. TO 0.09 NE/	759
RANCHWOOD ROAD	IRVINE BLVD. TO RAINBOW D	758
RANCHWOOD ROAD	SHELTERWOOD RD. TO LA COL	758
RANCHWOOD ROAD	LA COLINA DR. TO FAIRWEAT	758
RANDALL STREET	SANTIAGO CANYON RD.TO CLA	760
RANDALL STREET	CLARK ST. TO MEADS AVE.	760
RANDALL STREET (S1/2)	MEADS AVE. TO 0.11 E	760
RANDALL STREET (S1/2)	0.11 E/ MEADS AVE. TO 0.0	760
RANDOM DRIVE	GILBERT ST. TO ROSEBAY ST	760
RANGEVIEW DRIVE	COWAN HEIGHTS DR. TO BREN	760
RANGEVIEW DRIVE	BRENTWOOD DR. TO OVERHILL	760
RANUNCULUS STREET	SKLAR TO 36' SE/O LANGFOR	0
RANUNCULUS STREET	36' SE/O LANGFORD LN. TO	0
RAVENCREST ROAD	GLADSTONE DR. TO NEWPORT	761
REBECCA LANE	DEBORAH DR. TO LUCINDA WA	762
RED HILL AVENUE	0.06 NE/ IRVINE BLVD. TO	764
RED HILL AVENUE	SIERRA ALTA DR. TO LA COL	764
RED HILL AVENUE	LA COLINA DR. TO S.E. SKY	764
RED HILL AVENUE	S.E. SKYLINE DR. TO 0.10	764
RED HILL AVENUE	0.10 NE/ S.E. SKYLINE DR.	764
RED HILL AVENUE (E1/2)	0.15 SW/ TO IRVINE BLVD.	764
RED HILL AVENUE (E1/2)	IRVINE BLVD. TO 0.06 NE	764
REDBERRY ROAD	0.03 SE/ RANCHWOOD RD. TO	762
REDLANDS DRIVE	UNIVERSITY DR. TO 0.11 NE	764
REDLANDS DRIVE	RIVERSIDE DR. TO MESA DR.	764

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List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
REESE WAY	RIATA ST. TO 0.04 E/	764
REGAL AVENUE	MAC ST. TO MAC MURRAY ST.	764
REGAL AVENUE	RUSTIC LN. TO MARKEV ST.	764
REGENTS PARK	40' W/O CHARDONNAY DR. T	0
RESERVOIR ROAD	SKYLINE DR. TO SKYLINE DR	765
RESTON WAY	43' NE/O MAIN ST. TO BARN	0
RESTON WAY	47' S/O MAIN ST. TO END	765
RHIEMS ROAD	CHANTICLEER RD. TO PALAIS	765
RIATA STREET	BOLSA AVE. TO HAZARD AVE.	766
RIDGELINE ROAD	SANTIAGO CANYON RD. TO 11	767
RIDGEWAY DRIVE	ROCKHURST AVE. TO TERRACE	768
RISA PLACE	CIELO PL. TO ARROYO AVE.	769
RISA PLACE	PINCIAN WAY NW/ TO END	769
RIVER FORD ROAD	BROWNING AVE. TO 0.12 NW/	770
RIVERSIDE DRIVE	REDLANDS DR. TO MESA DR.	770
RIVERVIEW DRIVE	MEADOW RIDGE DR. E/ TO EN	770
ROANOKE DRIVE	O'NEILL DR. TO FLINTRIDGE	770
ROCKHURST AVENUE	NEWPORT BLVD. TO 1403' N	772
ROCKVIEW DRIVE	0.07 S/ TO FILLMORE DR.	773
ROCKWELL AVENUE	CEDARWOOD AVE. TO 0.06 E/	771
ROCKWELL AVENUE	PACIFIC ST. TO BEACH BLVD	771
RODEO DRIVE	PACIFIC AVE. TO CERRITOS	772
ROLLING RIDGE	MEANDERING TRAIL TO 1107'	772
ROLLING RIDGE	LARK DRIVE TO 92' S/O SPR	772
ROLLING STONE LANE	0.08 SE/ TO CHIRPING SPAR	773
ROLLING STONE LANE	HICKORY BRANCH RD. SE/ TO	773
ROMANZA PLACE	LILLIAN WAY TO 0.07 N/	773
ROMELLE AVENUE	0.03 E/ LAURINDA LN. TO P	774
ROMELLE AVENUE	DUNAS RD. TO SWIDLER PL.	774
ROOSEVELT AVENUE	BEACH BLVD. TO NEWLAND ST	777
ROOSEVELT AVENUE	RIATA ST. TO 0.04 E/	777
ROOSEVELT AVENUE	PURDY ST. TO 0.03 E/ EDEN	777
ROSALIND DRIVE	RAINIER DR. TO FAIRHAVEN	781
ROSALIND DRIVE	FAIRHAVEN AVE. TO 0.10 N/	781
ROSEBAY STREET	STONYBROOK DR. TO ORANGE	780
ROSSMOOR WAY	BOSTONIAN DR. TO LOS ALAM	781
ROWENA DRIVE	DRUID LN. TO OAK WAY DR.	781
ROWENA DRIVE	SILVER FOX RD. TO ST. CLO	781
ROYCROFT COURT	BAINBRIDGE AVE. TO END	0
RUNNING BRANCH WAY	0.08 SE/ TO CHIRPING SPAR	783
RUNNING BRANCH WAY	HICKORY BRANCH RD. SE/ TO	783
RUSHMORE LANE	YELLOWSTONE DR. TO LEAFWO	783
RUSTIC LANE	KATELLA AVE. TO 0.10 N/ R	784
RUTH ELAINE DRIVE	MARTHA ANN DR. TO WALLING	784
RYALS LANE	RANCHO SANTIAGO BLVD. TO	784

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
RYCROFT ROAD	HUNTRIDGE RD. TO LA LOMA	784
SACHEM WAY	47' S/O BARBERRY ST. TO E	0
SADDLERY ROAD	LEMON HEIGHTS DR. TO DERB	784
SAGEWOOD LANE	RIVERVIEW DR. SE/ TO END	793
SAIGON LANE	ERVIN LN. TO BIKINI PL.	785
SAINT ALBANS DRIVE	MARTHA ANN DR. TO ARGYLE	792
SAINT ALBANS DRIVE	FOSTER RD. TO HARRISBURG	792
SAINT ALBANS DRIVE	MONTECITO RD. TO WEATHERB	792
SAINT BRIDE WAY	44' W/O CLYDESDALE DR. TO	0
SAINT CLOUD DRIVE	TIGERTAIL DR. TO LOS ALAM	792
SAINT GILES COURT	ST. IVES WAY TO END	0
SAINT IVES WAY	58' SW/O DORRANCE DR. TO	0
SAINT JOHN PLACE	0.10 SE/ TO 0.08 SE/ BIMI	792
SAINT JOHN PLACE	0.08 SE/ BIMINI DR. TO NE	792
SAINT JUST AVENUE	ST. IVES WY. N AND S TO	0
SAINT MORITZ CIRCLE	OLYMPIA WAY TO 0.02 E/	792
SAINT REGIS PLACE	NEWPORT AVE. SE/ TO END	792
SAINT STEVEN COURT	ST. BRIDE WY. TO END	0
SAINT THOMAS DRIVE	BARRETT LN. TO BARRETT HI	792
SAINT VINCENT PLACE	0.05 SE/ TO 0.06 NW/ BIMI	792
SAINT VINCENT PLACE	BRUNSWICK WAY TO 0.03 NW/	792
SALMON DRIVE	MARTHA ANN DR. TO ARGYLE	785
SALMON DRIVE	CHRISTY LN. TO BLUME DR.	785
SALT AIR DRIVE	PAVILLION DR. TO SIMON RA	785
SANDERSTEAD ROAD	0.04 W/ HOLT AVE. N/ TO H	786
SANDERSTEAD ROAD	HOLT AVE. TO 0.04 W/	786
SANDHURST PLACE	0.03 S/ TO AUBURN AVE.	786
SANDHURST PLACE	MEDFORD AVE. TO ERVIN LN.	786
SANDHURST PLACE	GRAMERCY DR. TO DODGE AVE	786
SANDHURST PLACE	DODGE AVE. TO SILVER MAPL	786
SANDHURST PLACE	ALLEGHENY DR. TO 0.06 N/	786
SANDY DRIVE	0.07 S/ TO FILLMORE DR.	786
SANTA ANA AVENUE	MESA DR. TO 0.09 SW/O BRI	790
SANTA ANA AVENUE	228' NE/ TO 348' NE/O UN	
SANTA CLARA AVENUE	PROSPECT AVE. TO 0.05 E/	792
SANTA CLARA AVENUE	0.05 E/ BLUE RIDGE DR. TO	792
SANTA CLARA AVENUE (N1/2)	0.01 W/ ETHELBEE WAY TO F	792
SANTIAGO CANYON ROAD	966' W/LIVE OAK CANYON RD	802
SANTIAGO CANYON ROAD	310' S/GERTNER ESTATE TO	802
SANTIAGO CANYON ROAD	MODJESKA CANYON RD. TO 0.	802
SANTIAGO CANYON ROAD	0.43 S/ TO WILLIAMS CANYO	802
SANTIAGO CANYON ROAD	WILLIAMS CANYON RD. TO 0.	802
SANTIAGO CANYON ROAD	0.47 S/ TO 0.09 S/ SILVER	802
SANTIAGO CANYON ROAD	0.09 S/ TO SILVERADO CANY	802
SANTIAGO CANYON ROAD	SILVERADO CANYON RD. TO 0	802

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
SANTIAGO CANYON ROAD	0.71 N/ TO 1.18 N/ SILVER	802
SANTIAGO CANYON ROAD	1.18 N/ TO 1.33 N/ SILVER	802
SANTIAGO CANYON ROAD	1.33 N/ TO 1.67 N/ SILVER	802
SANTIAGO CANYON ROAD	1.67 N/SILVERADO CANYON R	802
SANTIAGO CANYON ROAD	0.72 S/ TO 0.53 S/ SANTIA	802
SANTIAGO CANYON ROAD	0.53 S/ TO SANTIAGO RESER	802
SANTIAGO CANYON ROAD	SANTIAGO RESERVOIR TO 0.7	802
SANTIAGO CANYON ROAD	3960' N/O SANTIAGO RES TO	802
SANTIAGO CANYON ROAD	MEADS AVE. TO ORANGE PARK	802
SANTIAGO CANYON ROAD	ORANGE PARK BLVD. TO 0.08	802
SAUGUS AVENUE	BRENAN WAY TO WINTHROPE S	802
SAUVIGNON DRIVE	CHARDONNAY DR. TO VINEYAR	0
SAYBROOKE LANE	NEWKIRK LN. TO END	0
SAYLOR TERRACE	0.06 W/ TO CRAWFORD CANYO	804
SCARLET MAPLE DRIVE	SMOKE TREE DR. N AND S TO	0
SCOTCH PINE DRIVE	BLUE SPRUCE DR. TO END	0
SCOTT	DEEP WELL RD. TO PINTO LN	806
SEA GRAPE ROAD	SNOW BUSH STREET TO END	0
SECLUSION WAY	0.05 W/ TO CAMERON LN.	811
SECOND STREET	SIENNA PARKWAY TO MERCANT	813
SELLAS ROAD NORTH	52' S/O AVENDALE BLVD. TO	0
SELLAS ROAD SOUTH	71' W/O SIENNA PKWY. TO 4	818
SELLAS ROAD SOUTH	49' S/O HYDRANGEA ST.TO 5	0
SEVENTEENTH STREET	PROSPECT AVE. TO HOLT AVE	823
SEVENTEENTH STREET	HOLT AVE. TO HEWES AVE.	823
SEVENTEENTH STREET	HEWES AVE. TO NEWPORT AVE	823
SHADEL DRIVE	MAUVE DR. E/ TO END	828
SHADOW HILL DRIVE	WENDOVER RD. TO KELLOGG D	828
SHADOW HILL DRIVE	KELLOGG DR. TO PASATIEMPO	828
SHADYRIDGE DRIVE	COWAN HEIGHTS DR. TO BRIG	828
SHADYRIDGE DRIVE	BRIGHTWOOD DR. TO DEERHIL	828
SHAKESPEARE DRIVE	MARTHA ANN RD. TO MONTECI	828
SHAKESPEARE DRIVE	MONTECITO RD. TO 0.03 N/	828
SHASTA COURT	STARLIGHT RIDGE S/ TO END	829
SHASTA WAY	WELLINGTON AVE. TO 0.03 N	829
SHASTA WAY	RAINIER DR. TO LASSEN DR.	829
SHASTA WAY	LARKSTONE DR. TO 0.08 N/	829
SHEA RIDGE	403' SW/ ROLLING RIDGE TO	829
SHELLY LANE	0.06 S/ TO HINTON WAY	829
SHELTERWOOD ROAD	0.03 SE/ TO 0.05 NW/ RANC	830
SHELTON COURT	STERLING GLEN TO END	0
SHEPARD WAY	0.09 S/ TO 0.10 N/ GATEWA	830
SHIVELY ROAD	42' S/O RANUNCULUS ST. TO	0
SHIVELY ROAD	50' N/O RANUNCULUS ST. TO	0
SIENNA PARKWAY	BENJAMIN DR. TO CROWN VAL	0

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
SIENNA PARKWAY	FLINTRIDGE AVE. TO 89' S/	833
SIENNA PARKWAY	96' S/O WINDMILL AVE. TO	0
SIENNA PARKWAY	87' S/O SELLAS ROAD NORTH	833
SIENNA PARKWAY	64' S TO 138' S/O O'NEIL	0
SIENNA PARKWAY	105' SW/O SELLAS ROAD SOU	0
SIENNA PARKWAY	733' E/O ETHEREAL ST. TO	0
SIENNA PARKWAY	733' E TO ETHEREAL ST.	0
SIENNA PARKWAY (W1/2)	CROWN VALLEY PKWY.TO FLIN	833
SIENNA PARKWAY (E1/2)	CROWN VALLEY PKWY. TO FLI	833
SIERRA ALTA DRIVE	WINDSOR LN. TO RED HILL A	835
SIERRA ALTA DRIVE	RED HILL AVE. TO CHARLOMA	835
SIERRA MADRE DRIVE	SANTA CLARA AVE. TO ALLEG	834
SILVER FOX ROAD	YELLOWTAIL DR. TO COPA DE	837
SILVER FOX ROAD	BLUME DR. TO 0.02 N/ MAIN	837
SILVER FOX ROAD	0.02 N/ MAIN WAY DR. TO I	837
SILVER FOX ROAD	ACECA DR. TO CHANNING WAY	837
SILVER MAPLE WAY	SANDHURST PL. TO WINTHROP	837
SILVER MAPLE WAY	HEWES AVE. TO 0.12 E/	837
SILVER MAPLE WAY	0.12 E/ TO 0.22 E/ HEWES	837
SILVERADO CANYON ROAD	SANTIAGO CANYON RD. TO 1.	838
SILVERADO CANYON ROAD	1.24 E/ SANTIAGO CANYON R	838
SILVERADO CANYON ROAD	1.09 E/ TO 3.70 E/ LADD C	838
SILVERWOOD DRIVE	MARTHA ANN DR. TO HARRISB	839
SIMON RANCH ROAD	BEVERLY GLEN DR. TO PAVIL	839
SINGING WOOD DRIVE	BUBBLING WELL RD. TO LA C	840
SINGING WOOD DRIVE	0.06 SW/ TO 0.04 N/ FAIRW	840
SIRRINE DRIVE	COWAN HEIGHTS DR. TO OVER	840
SKLAR STREET	HYDRANGEA ST.TO 54' S/O A	847
SKLAR STREET	54' S/O AVENDALE BLVD. TO	0
SKY LANE	SKYWAY DR. TO 0.27 E/	848
SKYLINE DRIVE	S.E. SKYLINE DR. TO 0.16	851
SKYLINE DRIVE	0.16 NE/ S.E. SKYLINE DR.	851
SKYLINE DRIVE	BEVERLY GLEN DR. TO PARK	851
SKYLINE DRIVE	PARK SKYLINE RD. TO FOOTH	851
SKYLINE DRIVE	FOOTHILL BLVD. TO 0.24 S/	851
SKYLINE DRIVE	0.24 S/ TO LEMON HEIGHTS	851
SKYLINE DRIVE	LEMON HEIGHTS DR. TO PEAC	851
SKYLINE DRIVE	PEACOCK HILL DR. TO COWAN	851
SKYWAY DRIVE	S.E. SKYLINE DR. TO 0.21	851
SKYWOOD STREET	SIENNA PKWY. TO 117' SOUT	851
SKYWOOD STREET	117' S'LY AND SE'LY/O SIE	851
SLATER/SEGERSTROM BRIDGE	0.03 SE/ TO 0.03 NW/O SAN	852
SLEEPY HOLLOW LANE	SIENNA PKWY. TO 82' NORTH	852
SLEEPY HOLLOW LANE	82' N/ SIENNA PKWY. TO EN	852
SMILEY DRIVE	SOLANA DR. TO 0.18 SW/	855

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
SMOKE TREE DRIVE	46' E/O HYDRANGEA ST. TO	0
SMOKE TREE LANE	0.08 SE/ GIGI DR. TO NEWP	854
SMOKEWOOD DRIVE	CIELO PL. TO ORANGEVIEW R	854
SNAPDRAGON STREET	34' S/O WINDMILL AVE. TO	0
SNOW BUSH STREET	41' N/O CLARIN ST. TO END	
SNOW BUSH STREET	41' SE/O CLARIN ST. TO EN	0
SOL STREET	ETHEREAL ST. TO 21' NE/O	0
SOLANA DRIVE	SMILEY DR. TO 0.02 N/	855
SOLANO	OSO PKWY. TO ALTURA	855
SOLSTICE DRIVE	COMET TR. TO 45' SW/O SEL	0
SOMERS DRIVE	0.12 W/ TO NEARING DR.	855
SOMMERVILLE PLACE	SLEEPY HOLLOW LN. TO END	855
SOUTHEAST SKYLINE DRIVE	NEWPORT AVE. TO ARROYO AV	851
SOUTHEAST SKYLINE DRIVE	ARROYO AVE. TO 0.12 SE/	851
SOUTHEAST SKYLINE DRIVE	0.12 SE/ ARROYO AVE. TO R	851
SOUTHEAST SKYLINE DRIVE	RED HILL AVE. TO SKYLINE	851
SPAULDING AVENUE	SANDHURST PL. TO HEWES AV	858
SPRING STREET	ESPLANADE ST. TO EARLHAM	861
SPRING STREET	HEWES AVE. TO RANCHO SANT	861
SPRING STREET (S1/2)	EARLHAM ST. TO HEWES ST.	861
SPRING VIEW WAY	LARK DRIVE TO ROLLING RID	861
SPUR LANE	MARTHA ANN DR. TO 0.03 N/	865
STAMPEDE STREET	DROVER CT. N/ TO END	866
STANTON	DEEP WELL RD. TO PINTO LN	866
STANTON AVENUE (E1/2)	CALVERTON DR. TO ASHGROVE	867
STARLIGHT RIDGE	MEANDERING TRAIL TO 0.29	871
STATION WAY	60' E/O ANTONIO PKWY. TO	0
STEARNS DRIVE	FLINT DR. TO 30'W/O PROSP	873
STERLING GLEN	44' NE/O SNAPDRAGON TO EN	0
STIRRUP LANE	BENT TREE RD. TO DERBY DR	872
STOLLER LANE	0.07 W/ TO CRAWFORD CANYO	874
STONEHEDGE COURT	OLD RANCH RD. TO 0.10 N/	873
STONYBROOK DRIVE	GILBERT ST. TO BROOKHURST	873
STRADELLA AVENUE	0.04 S/ TRINO CIR. TO MOU	873
STRATHMORE	47' SW/O FLINTRIDGE TO EN	0
STRATTON WAY	VANDERLIP AVE. TO 17th ST	874
STRATTON WAY	0.03 S/ TO AUBURN AVE.	874
STRAWFLOWER STREET	TRISTANIA ST. TO ABELIA S	875
SUBURNAS WAY	FLAMINIAN WAY TO FOOTHILL	883
SUGAR AVENUE	96' N TO 171' N/O MCFADDE	0
SUGARCANE LANE	LODEN PASS TO END	0
SUGARPINE DRIVE	MEADOW RIDGE DR. E/ TO EN	884
SUMMIT COURT	STARLIGHT RIDGE S/ TO END	885
SUNDOWN DRIVE	SOLANO TO APACHE DR.	886
SUNMIST DRIVE	0.01 S/ TO MOUNTAIN VIEW	889

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
SUNNY SLOPE	MEANDERING TRAIL TO SUNNY	887
SUNNY SLOPE	SUNNY SLOPE N/ & S/ TO EN	887
SUNNYDALE LANE	GRASSY KNOLL LN. TO GRASS	887
SUSSEX PLACE	GRAMERCY DR. TO DODGE AVE	891
SUSSEX PLACE	HILLHAVEN DR. TO EMBURY D	891
SUTHERLAND DRIVE	STERLING GLEN N'LY AND S'	0
SWEET PEA STREET	SNAPDRAGON ST. TO TETHERM	0
SWEETWATER	ANTONIO PKWY. TO 0.06 E/	891
SWIDLER PLACE	ROMELLE AVE. TO CASSELLE	891
SWIDLER PLACE	LARKSTONE DR. TO 0.09 N/	891
SYLVANOAK WAY	46' SE/O FALABELLA DR. TO	0
SYRACUSE AVENUE	0.04 W/ MAC ST. TO MAGNOL	898
TAFFETA LANE	LODEN PASS TO END	0
TALBERT AVENUE BRIDGE	0.04 W/ TO 0.04 E/ SANTA	901
TAMARISK DRIVE	0.03 NW/ COTTONWOOD DR TO	900
TAMMANY CIRCLE	0.03 SW/ TO LANSDOWNE LN.	901
TANGO LANE	ETHEREAL ST. TO END	0
TEA HOUSE STREET	ERVIN LN. TO 0.10 S/ DODG	902
TEA HOUSE STREET	0.10 S/ TO DODGE AVE.	902
TERRACE ROAD	60' E/O ANTONIO PKWY. TO	0
TERRACE ROAD	CORPORATE DR. TO WINDMILL	0
TERRACE VIEW	RIDGEWAY DR. TO GREENBRIE	905
TERRASTAR LANE NORTH	TETHER MOON LN. TO END	0
TERRASTAR LANE SOUTH	TETHER MOON LN. TO END	0
TETHER MOON LANE (N1/2)	35' W/O BELLFLOWER ST. TO	0
TETHER MOON LANE (S1/2)	35' W/O BELLFLOWER ST. TO	0
THALIA STREET	ARTISAN ST. N'LY & W'LY T	907
THEODORA DRIVE	PROSPECT AVE. TO HOLT AVE	908
THERESA AVENUE	0.03 W/ TO 0.04 E/ THISTL	908
THETA ROAD	0.04 SW/ TO 0.14 NW/ OMEG	907
THIRD STREET	MAIN STREET TO MERCANTILE	910
THISA WAY	SILVERADO CANYON RD. TO 0	916
THISTLE ROAD	ORANGE AVE. TO BROADWAY	916
THISTLE ROAD	0.01 W/ TO THISTLE RD.	916
THOMAS DRIVE	PACIFIC AVE. TO 0.07 N/	917
THORLEY ROAD	APSLEY RD. TO CORONEL RD.	917
THORNHILL STREET	BENJAMIN DR. TO 65' SOUTH	0
THORNHILL STREET	65' S/O BENJAMIN DR. TO W	0
TIFFANY PLACE	HICKORY BRANCH RD. TO BRI	918
TIFFANY PLACE	DEAN ST. TO 0.05 NW/ CHAP	918
TIFFANY PLACE	WOODLAWN AVE. TO 0.03 NW/	918
TIGERTAIL DRIVE	KEITHLEY DR. TO MONTECITO	918
TINA WAY	RODEO DR. TO 0.07 NE/	917
TISBURY LANE	42' SW/O FLINTRIDGE AVE.	0
TOMAHAWK STREET	ALTURA TO GOLDMINE ST.	917

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
TONNER CANYON ROAD	0.09 S/ TO 0.05 S/O SR 57	921
TONNER CANYON ROAD	264' S TO 477' N/O SR 57	921
TONNER CANYON ROAD	560' S TO BREA BLVD.	921
TOPANGA CANYON ROAD	0.05 N/ WOOD CANYON RD. T	921
TRABUCO CANYON ROAD	LIVE OAK CANYON RD. TO TR	921
TRABUCO CANYON ROAD	TRABUCO OAKS DR. TO 0.03	921
TRABUCO CANYON ROAD	0.03 E/ TO 0.25 E/ TRABUC	921
TRABUCO CANYON ROAD	0.25 E/ TO 0.67 E/TRABUCO	921
TRABUCO OAKS DRIVE	TRABUCO CANYON RD. TO 0.6	921
TRABUCO OAKS DRIVE	0.61 N/ TO 0.88 N/ TRABUC	921
TRAILS END LANE	RANCHWOOD RD. TO EVENINGS	921
TRAVERTINE PLACE	GROVEOAK DR. TO 0.04 NW/	923
TRAVERTINE PLACE	0.04 NW/ GROVEOAK DR. TO	923
TREASURE LANE	ARROYO AVE. TO CIELO PL.	924
TREASURE LANE	CIELO PL. TO 0.10 SE/	924
TREASURE LANE	ORANGEVIEW RD. TO 0.03 E/	924
TRIAD LANE	159' NW/O GAIA LN. TO 842	0
TRINO CIRCLE	STRADELLA AVE. TO 0.04 E/	925
TRISTANIA STREET	STRAWFLOWER ST. TO SELLAS	925
TRIUMPHAL WAY	MARBLE ARCH DR. TO SUBURN	925
TROPIC LANE	0.12 SE/ TO NEWPORT AVE.	926
TRUMPET VINE STREET	AMARYLLIS ST. TO GLOXINIA	0
TUBEROSE STREET	29' SE/O SELLAS RD SOUTH	0
TUCKER LANE	KENSINGTON RD. TO 0.06 E/	926
TUCKER LANE	SILVER FOX RD. TO MONTECI	926
TUDOR WAY	DOWNING ST. TO REGENTS PA	0
TUMBLEWEED STREET	SUNDOWN DR. SW/ TO END	926
UNIVERSITY AVENUE	45' SE/O ETON PL. TO ELLI	0
UNIVERSITY AVENUE	46' S/O ETON PL. TO 46' N	0
UNIVERSITY DRIVE	SANTA ANA AVE. TO IRVINE	948
VALE AVENUE	MALTA ST. TO HEWES AVE.	949
VALHALLA DRIVE	SIMON RANCH RD. TO HIGHVI	952
VALLEY VISTA WAY (S1/2)	EL TORO RD TO 0.02 E/MEAD	952
VAN BUREN STREET	WORTHY DR. TO 0.03 N/ FLI	957
VAN BUREN STREET	0.05 S/ TO ELMORE WAY	957
VAN BUREN STREET	ELMORE WAY TO BOLSA AVE.	957
VAN BUREN STREET	BOLSA AVE. TO ROOSEVELT A	957
VAN BUREN STREET (W1/2)	MCFADDEN AVE. TO 0.05 S/ ELMORE WAY	957
VANCOUVER DRIVE	0.08 W/ TO HARVEST LN.	958
VANCOUVER DRIVE	YARDLEY ST. TO 0.10 E/	958
VANDERLIP AVENUE	0.04 W/ TO HOLT AVE.	959
VANDERLIP AVENUE	HOLT AVE. TO NEWPORT AVE.	959
VERA STREET	WARREN AVE. TO MANNING DR	959
VIA RANCHO	RACQUET HILL TO 0.04 SW/	970
VICTORIA STREET BRIDGE	0.03 W/ TO 0.03 E/ SANTA	963

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
VILLA PARK ROAD	LEMON ST. TO 0.24 W/ LIND	965
VILLA PARK ROAD	0.24 W/ TO LINDA VISTA ST	965
VINE STREET	ESPLANADE AVE. TO HEWES S	967
VINE STREET	HEWES ST. TO 0.04 E/	967
VINE STREET	0.04 E/ HEWES ST. TO RANC	967
VINEWOOD LANE	SLEEPY HOLLOW LN. TO END	968
VINEYARD DRIVE	28' SE/O ROANOKE DR. TO 1	0
VINEYARD DRIVE	DOWNING LN. TO 71' S/O CA	0
VISTA DEL LAGO	LA CUESTA DR. TO LEMON HE	971
VISTA LOMA	ESPERANZA RD. TO 0.16 NW/	971
VISTA MAR	0.12 NE/ TO RACQUET HILL	971
VISTA MAR	RACQUET HILL TO 0.04 SW/	971
VISTA PANORAMA	BAJA PANORAMA TO ALTA PAN	971
VISTA PANORAMA	ALTA PANORAMA TO 0.66 SW/	971
WALDEN STREET	31'NE/ LAURELHURST DR. TO	975
WALDEN STREET	131' SW'LY/O SIENNA PKWY.	975
WALKER LEE DRIVE	MARTHA ANN DR. TO FOSTER	976
WALKER LEE DRIVE	CHRISTY LN. TO 0.05 E/ BE	976
WALKER LEE DRIVE	SILVER FOX RD. TO MONTECI	976
WALLINGSFORD ROAD	BRADBURY RD. TO OAK KNOLL	978
WALLINGSFORD ROAD	HUNTLEY DR. TO ORANGEWOOD	978
WALLINGSFORD ROAD	HARRISBURG RD. TO 0.11 S/	978
WALLINGSFORD ROAD	0.11 S/ TO HEDWIG RD.	978
WALLINGSFORD ROAD	HEDWIG RD. TO 0.02 S/ KAT	978
WALNUT AVENUE	EARLHAM ST. TO HEWES ST.	979
WARNER AVENUE	0.03 W/ TO 0.04 E/ SANTA	995
WARREN AVE FRONTAGE ROAD	0.09 W/ TO EHLEN WAY	996
WARREN AVENUE	0.06 E/ HOLT AVE. TO 0.06	996
WARREN AVENUE (N1/2)	0.06 E/ TO 0.02 E/ NEWPOR	996
WASHINGTON AVENUE	BEACH BLVD. TO NEWLAND ST	997
WASHINGTON AVENUE	NEWLAND ST. TO PURDY AVE.	997
WASS STREET	CHARLOMA DR. TO 0.25 SE/	1000
WASS STREET	0.25 SE/ TO 0.19 SE/ NEWP	1000
WASS STREET	0.19 SE/ TO 0.16 SE/ NEWP	1000
WAVERLY PLACE	CHANTILLY LN. TO END	1001
WAYFAIRE	WILDEMERE S/ TO END	1001
WEATHERBY ROAD	BRADBURY RD. TO 0.02 N/ R	1002
WEATHERBY ROAD	0.02 N/ ROSSMOOR WAY TO H	1002
WELBE CIRCLE	MAIN ST. TO END	0
WELDON HEIGHTS	FLINTRIDGE AVENUE TO 33'	1002
WELDON HEIGHTS	33' S/O NEWKIRK RD. TO EN	0
WELLINGTON AVENUE	PROSPECT AVE. TO 0.06 E/	1003
WELLINGTON AVENUE	DALL LN. TO HOLT AVE.	1003
WELLINGTON AVENUE	CLARISSA LN. TO 0.04 E/	1003
WEMBLEY ROAD	GERTRUDE DR. TO BLUME DR.	1003

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
WEMBLEY ROAD	BOSTONIAN DR. TO COLERIDG	1003
WEMBLEY ROAD	SILVERWOOD DR. TO 0.02 N/	1003
WEMBLEY ROAD	0.02 N/ SHAKESPEARE DR. T	1003
WENDOVER ROAD	0.11 S/ SHADOW HILL DR. T	1003
WENDY WAY	MONTECITO RD. TO 0.01 E/	1003
WESCOTT LANE	50' E/O CECIL PASTURE RD.	0
WEST KNOLL DRIVE	WENDOVER RD. TO WILLOWBRO	1008
WESTFORD	STRATHMORE TO END	0
WESTON PLACE	HOWLAND WAY TO DALL AVE.	1009
WESTON PLACE	0.04 W/ TO HOLT AVE.	1009
WEYMOUNT PLACE	BRIGHTON DR. TO 0.07 W/	1010
WHEELER PLACE	SANTA CLARA AVE. TO RAINE	1011
WHEELER PLACE	WHITNEY DR. TO 0.11 N/	1011
WHEELER PLACE	FAIRHAVEN AVE. TO 0.25 N/	1011
WHEMBLY DRIVE	0.09 S/ TO DODGE AVE.	1011
WHIDBEY DRIVE	MARSTON LN. TO BAINBRIDGE	0
WHISPER CIRCLE	DAWNWOOD TO END	1011
WHITESTONE TERRACE	BOCA CANYON DR. TO 0.04 W	1011
WHITNEY DRIVE	LORETTA DR. TO FLINT DR.	1013
WHITNEY DRIVE	PROSPECT AVE. TO LASSEN W	1013
WHITNEY DRIVE	KOOTENAY DR. TO 0.06 E/	1013
WICKFORD DRIVE	CAMBERA LN. TO BRADCLIFF	1015
WICKFORD LANE	WELDON HEIGHTS TO END	0
WILDEMERE	WAYFAIRE SE/ TO END	1014
WILLO LANE	0.12 SW/ TO UNIVERSITY DR	1017
WILLO LANE	UNIVERSITY DR. TO 0.10 NE	1017
WILLOWBROOK AVENUE	WESTKNOLL DR. TO WENDOVER	1019
WILSON STREET	WORTHY DR. TO MCFADDEN AV	1023
WILSON STREET	BOLSA AVE. TO HAZARD AVE.	1023
WIMBLETON DRIVE	SHAKESPEARE DR. TO WALLIN	1024
WINDMILL AVENUE	SIENNA PARKWAY TO ANTONIO	1022
WINDMILL AVENUE	60' E/O ANTONIO PKWY. TO	0
WINDSOR LANE	0.04 SE/ SIERRA ALTA DR.	1025
WINDSOR LANE	ELIZABETH WAY TO NEWPORT	1025
WINDSOR PLACE	VANDERLIP AVE. TO 17th ST	1025
WINFIELD DRIVE	WEDGEWOOD LN. TO 270' W/	1026
WINFIELD DRIVE	O'NEILL DR.TO 270' SW/O	1026
WINSLOW STREET	ARTISAN ST. E'LY & W'LY T	1027
WINTHROPE STREET	0.05 S/ TO 0.36 N/ AUBURN	1028
WINTHROPE STREET	DODGE AVE. TO SILVER MAPL	1028
WOOD CANYON ROAD	46' W/O TOPANGA CANYON RD	1029
WOOD CANYON ROAD	46' NW/O TOPANGA CANYON R	
WOODBINE DRIVE	SKYLINE DR. TO 0.05 N/	1029
WOODGATE DRIVE	FAIRLYNN BLVD. TO CEDARBE	1029
WOODGLEN DRIVE	0.09 S/ TO DODGE AVE.	1027

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
WOODLAWN AVENUE	0.04 SW/ TIFFANY PL. TO C	1028
WOODLAWN AVENUE	SIERRA ALTA DR. TO 0.03 N	1028
WOODLAWN AVENUE	LA COLINA DR. TO LUCINDA	1028
WOODLAWN AVENUE	S.E. SKYLINE DR TO 0.03 N	1028
WOODLAWN AVENUE	0.03 NE/ BRITTANY CROSS R	1028
WOODSONG	0.13 S/ TO MEANDERING TRA	1027
WOODSONG	MEANDERING TRAIL TO 0.01	1027
WOODSONG	0.01 N/ CASTLETREE N/ TO	1027
WOODSTOCK ROAD	MARTHA ANN DR. TO ARGYLE	1028
WOODSTOCK ROAD	CHAUCER RD. TO MONTECITO	1028
WORTHY DRIVE	0.03 W/ VAN BUREN ST. TO	1028
WRANGLER COURT	OSO PKWY. NE/ TO END	1029
WREATH PLACE	GARLAND AVE. TO 0.08 NE/	1029
WYETH STREET	ARTISAN TO END	1030
WYNDHAM COURT ROAD	0.12 SE/ TO RED HILL AVE.	1030
WYNDHAM STREET	EDENDALE ST NW'LY & SE'LY	0
YARDLEY STREET	BALL RD. TO COLCHESTER DR	1031
YARMOUTH ROAD	CORONEL RD. TO CLOYDEN RD	1032
YELLOWPINE LANE	MEADOW RIDGE DR. E/ TO EN	1031
YELLOWSTONE DRIVE	CARLSBAD DR. TO LEAFWOOD	1031
YELLOWTAIL DRIVE	ST CLOUD DR. TO DRUID LN.	1031
YORBA LINDA BOULEVARD (S1/4)	32' E/O CLUB TERRACE DR.	
YORBA STREET	LEAFWOOD LN. TO SANTA CLA	1033
YORBA STREET	SANTA CLARA AVE. TO FAIRH	1033
YORKSHIRE AVENUE	NEARING DR. TO POES ST.	1036
ZIG ZAG WAY	LA COLINA DR. TO LUCINDA	1040
ZINNIA STREET	SIENNA PKWY. TO AVENDALE	1100
IRVINE PARK DRIVE	0.04 E/ JAMBOREE RD. E/ T	435
ASCENSO AVENUE	RIBERA RD. TO 1914' N/	
AMADO PLACE	ASCENSO AVE. TO FLOREAR RD.	
BRIOSO STREET	RIBERA RD. TO ASCENSO AVE.	
CONTIGO PLACE	RIBERA RD. TO AMADO PL.	
COW CAMP ROAD	116' E/O ANTONIO PKWY. TO 1616' E/	
FLOREAR ROAD	RIBERA RD. TO AMADO PL.	
GAVILAN DRIVE	RIBERA RD. TO 156' N/	
REATA ROAD	76' NW/O ORTEGA HWY. (SR 74) TO RIBERA RD.	
RIBERA ROAD	REATA RD. TO FLOREAR RD.	
SENDERO WAY	55' E/O ANTONIO PKWY. to 1052' S/	
SENDERO WAY	ASCENSO AVE. to 80' W/O ANTONIO PKWY.	
COVE ROAD	ST/ GREEN LANTERN TO DANA	206
AVENIDA LA PATA	2.8 S/ TO 160' S/O ORTE	
AFUERA STREET	CIELO ST. TO ALZA ST.	
ALZA STREET	50' N/O ASCENSO AVE. TO 525' N/	
CACHE STREET	ASCENSO AVE. TO 750' NE/	
CIELO STREET	38' NE/O ASCENSO AVE. TO AFUERA ST.	

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
CORAZON STREET	DANZA ST. S/ AND N/ TO ENDS	
COW CAMP ROAD (N1/2)	1616' E/O ANTONIO PKWY. TO 4641' E	
VIVIDO STREET	DANZA ST. S AND N TO ENDS	
NACIENTE ROAD	GAMELLA ST. TO 53' SE/O SENDERO WAY	
GAMELLA STREET	NACIENTE RD. TO 779' E/	
RASTRO STREET	55' E/ TO 899' E/	
LUCIDO STREET	ASCENSO AVE. TO 521' E/	
FARRA STREET	438' N/ TO LUCIDO ST.	
DANZA STREET	FUTURO ST. TO CORAZON ST.	
FUTURO STREET	53' N/O SENDERO WAY TO 796' N/	
SANTA CLARA AVENUE	FAIRMONT WAY TO PROSPECT	792
LAMBERT ROAD	0.50 E/O KRAEMER BLVD. TO	466
BREA BOULEVARD	2059' NE/O STATE COLLEGE	95
UNIVERSITY AVENUE	46' N TO 413' N/O CREIGH	0
DANCING CLOUD COURT	RADIANCE LANE TO RADIANCE	226
EL TORO ROAD	1232.59' NE/O GLENN RANCH	283
JACKSON RANCH ROAD NORTH	SANTIAGO CANYON RD. TO JA	437
DOWNING STREET	216' W/O MARKHAM LN. TO FALKNER DR.	0
WEDGEWOOD LANE	MASON LN. TO WINFIELD DR.	1002
HILLVIEW ROAD	ORANGE AVE. TO 0.09 N/	411
ONEILL DRIVE	46' S/O CECIL PASTURE RD.	0
SANTIAGO BOULEVARD	SANTIAGO CANYON RD. TO EN	0
FAIRMONT WAY	SANTA CLARA AVE. TO 0.20	293
MACARTHUR BOULEVARD	0.13 SE/ TO 55 FWY.	528
PANORAMA PLACE	FAIRHAVEN AVE. EXTENSION	708
BRISTOL STREET SOUTH	1380' SE/O SANTA ANA AVE.	
BRISTOL STREET NORTH	IRVINE AVE. TO 1380' SE/O	100
CALLIANDRA STREET	SNOW BUSH ST. TO END	0
WEGEFORD CIRCLE	BUSHWOOD CIRCLE TO END	1002
ADAMS STREET	PINE ST. TO BOLSA AVE.	7
MIDWAY PLACE	BEACH BLVD. TO BOLSA AVE.	574
ALLEGHENY DRIVE	0.06 W/ TO LORETTA DR.	18
ALLEY - N/CARLSBAD DRIVE	CARLSBAD DR. TO 0.20 N/	9005
TRABUCO CREEK ROAD	TRABUCO CANYON ROAD TO 2.	
AIROSO STREET	131' SW/O ENTONAR RD. TO 92' N/O CHIQUITA CANYON DR.	
AIROSO STREET	CHIQUITA CANYON RD. TO 1002'E/	
ANDAZA STREET	51' W/O AIROSO ST. TO 774' SE/	
ANDAZA STREET	VENTADA ST. TO 5091' NE/	
APRENDER STREET	TIERNO ST. TO 195' W/O ANDAZA ST.	
CHIQUITA CANYON DRIVE	113' N/O COW CAMP RD. TO 4741' N/	
CHIQUITA CANYON DRIVE	242' N/O AIROSO ST. TO 5420' NE/	
CIMA DRIVE	48' W/O AIROSO ST. TO 318' E/	
ESENCIA DRIVE	102' N/O COW CAMP RD. TO 5729' N/	
ESENCIA DRIVE	1052' SE/ TO 45' NE/O AIROSO ST.	
FAUNA DRIVE	CHIQUITA CANYON DR. TO ESENCIA DR.	

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
TIERNO ROAD	APRENDER ST. TO 87' NW/O ANDAZA ST.	
SALIENTE ROAD	CERRERO CT. TO ESCENCIA ST.	
AIROSO STREET		
ESENCIA DRIVE		
MEDANO STREET		
OCASO STREET		
SUERTE STREET		
AIROSO STREET		
SUERTE STREET (S1/2)		
LOS PATRONES PARKWAY		
LOS PATRONES PARKWAY		
RAINBOW DRIVE	RAINBOW DR. TO 0.02 SW/	755
LAS PALMAS DRIVE	LAS BRISAS DR. TO 0.07 NE	479
TALBOTT COURT	CLYDESDALE DR. TO END	0
ALAR STREET		
CANTAR STREET		
ARADA STREET		
SOLIDO STREET		
ENTORNO STREET		
BALIZA ROAD		
CANTAR STREET		
ENTONAR ROAD		
PURO WAY		
RISA STREET		
RISA STREET		
TANDEO DRIVE		
VENTADA STREET		
BEACH BLVD. FRONTAGE ROAD	30' S/O ROCKWELL AVE. TO	67
FOOTHILL BOULEVARD	SKYLINE DR. TO NEWPORT AV	321
BALL ROAD		55
BLACK STAR CANYON ROAD	SILVERADO CANYON RD. TO 0	82
BRONCO STREET	APACHE DR. TO STAMPEDE ST	104
LANGFORD LANE	35' N/O RANUNCULUS ST. TO	0
CHAPMAN AVENUE (S1/8)	CRAWFORD CANYON RD. TO 49	
COWAN HEIGHTS DRIVE	0.04 W/ TO 0.18 E/ SHADYR	206
ECKHOFF ST		
COLLINS AVE		
DORRANCE DRIVE	O'NEILL DR. TO 140' SE/O	0
ELMORE WAY	0.06 W/ TO JACKSON ST.	78
ERVIN LANE	ETON PL. TO 0.24 E/ HEWES	285
FRANKLIN WAY	BRYNWOOD LN. TO END	0
FRONTIER STREET	CHEYENNE ST. E/ & W/ TO E	336
GERSHON PLACE	0.23 N/ 17th ST. TO GRAME	348
DAISY STREET SOUTH	AVENDALE BLVD. TO SIENNA	225
HEWES STREET (E1/2)	0.09 N/ SPRING ST. TO 0.0	403

Table A-3
List of County-Owned Road Facilities

ROADNAME	limit_sort	ROADNO
KELLOGG DRIVE	0.04 S/ TO 0.02 N/ CLUB V	447
MAGNOLIA STREET	0.12 N/ TO 0.17 N/ KATELL	531
MAGNOLIA STREET (E1/2)	KATELLA AVE. TO 0.05 N	531
VENTADA STREET		
OAKVALE DRIVE	FAIRLYNN BLVD. TO 0.06 E/	646
BUBBLING WELL ROAD	0.12 SW/ RAINBOW DR. TO S	111
DANA POINT HARBOR DRIVE	233' SW/O COVE RD. TO 138	
EDINGER AVENUE BRIDGE		
ORANGE PARK BOULEVARD	0.35 N/ CHAPMAN AVE. TO S	676
LOMA RIDGE ROAD		
VAGAR STREET		
PLATAL STREET		
GALANTE STREET		
RISILLA STREET		
VOLAR STREET		
AMBITO STREET		
SLEEPY HOLLOW		
ALLEY-W/RANCHO SANTIAGO BLVD.		
COW CAMP ROAD		
COW CAMP ROAD		
MAGAZINE RD		

Table A- 4
List of Santa Ana River (SAR) and Prado Basin Facilities

Facility ID	Facility Type	Watershed	O&M Agency	
	Prado Basin Features:			
	Alcoa Dike Phase 1		Orange County	
	Alcoa Dike Phase 2		Orange County	
	California Institute for Women (CIW) Dike		Orange County	
	Lower Norco Bluffs Toe Protection		Orange County	
	National Housing (NH) Dike		Orange County	
	Prado Dam Auxiliary Dike (Embankment)		USACE SPL Ops	
	Prado Dam Embankment Raise & New Outlet Works		USACE SPL Ops	
	Prado Dam Spillway Raise		USACE SPL Ops	
	Prado Dam State Route (SR) 71 Embankment		USACE SPL Ops	
	Prado Dam State Route (SR) 71 Embankment - Toe Repair Update		USACE SPL Ops	
	Prado Dam State Route (SR) 71 Embankment - Culvert Update		USACE SPL Ops	
	River Road Dike		Orange County	
	Sewer Treatment Plant (STP) Dike		Orange County	
	Yorba-Slaughter Adobe (Adobe) Dike		Orange County	
	Lower Santa Ana River (LSAR) Features:			
	LSAR Reach 1		Orange County	
	LSAR Reach 2		Orange County	
	LSAR Reach 3		Orange County	
	LSAR Reach 4		Orange County	
	LSAR Reach 5		Orange County	
	LSAR Reach 6		Orange County	
	LSAR Reach 7		Orange County	
	LSAR Reach 8		Orange County	
	LSAR Reach 9 Phase 1		Orange County	
	LSAR Reach 9 Phase 2A		Riverside County	

Table A- 4
List of Santa Ana River (SAR) and Prado Basin Facilities

Facility ID	Facility Type	Watershed	O&M Agency	
	LSAR Reach 9 Phase 2B		Riverside County/Orange County	
	LSAR Reach 9 Phase 3		Orange County	
	LSAR Reach 9 Phase 4		Orange County	
	LSAR Reach 9 Phase 5A		Orange County	
	LSAR Reach 9 Phase 5B		Orange County	
	LSAR Reach 9 BNSF Bridge Protection		Riverside County	
	Mobile Home Park (MHP) Levee		Riverside County	
	Santa Ana River Marsh		USACE SPL Ops	
	Santiago Creek (Tributary)		Orange County	
	Mitigation/Restoration/Recreation Features:			
	Prado Offsite Mitigation		Orange County	

APPENDIX B

COUNTY-OWNED BRIDGES

TABLE B-1

LIST OF COUNTY-OWNED BRIDGES
(SORTED BY DRAINAGE FACILITY NAME AND CALTRANS BRIDGE NUMBER)

Caltrans Bridge No.°	Structure (Street or Railroad) Name	Intersected Waterway	Drainage Facility No.	Facility Description
55C-0404	Dale Street	Anaheim-Barber Chan	C03	Conc. U-channel
55C-0400	Edinger Ave	Bolsa-Chica Chan	C02	Trap. Channel., Natural bottom. Riprap sides
55C-0121	Brea Blvd.	Brea Cyn Chan	A04	Natural channel. Soft bottom under bridge
55C-0122	Brea Blvd.	Brea Cyn Chan	A04	Conc. U-channel in vicinity of bridge
55C-0123	Brea Blvd.	Brea Cyn Chan	A04	Conc. U-channel in vicinity of bridge
55C-0119	Tonner Cyn Rd	Brea Cyn Chan	A04	Conc. Trap.-channel in vicinity of bridge
55C-0561	Island Way	Dana R. Harbor	-	Trap.-channel. Conc. Sides. Soft-bottom
55C-0168	Amapola Ave.	Handy Crk	E08	Masonry walls in otherwise natural channel. Soft bottom under bridge
55C-0534	Meads Ave	Handy Crk	E08	Natural channel. Soft bottom under bridge
No # yet	Orange Park Blvd.	Handy Crk	E08	Masonry walls in otherwise natural channel. Conc. U channel under bridge
55C-0175	Silverado Cyn Rd	Ladd Cyn	E18	Natural channel. Soft bottom under bridge
55C-0065	Santiago Cyn Rd	Limestone Cyn	E14	Natural channel. Conc. U-channel under bridge
55C-0573	Riverford Rd	Redhill Chan	F13	Conc. U-channel
55C-0574	Bent Twig Lane	Redhill Chan	F13	Conc. U-channel
55C-0628	Antonio Pkwy	San Juan Crk	L01	Natural channel
55C-0477	Mason Park	Sand Cyn Wash	F15	Natural channel. Conc. U-channel under bridge
55C-0205	Santa Ana Ave	Santa Ana-Delhi Chan	F01	Conc. Trap.-channel
55C-0038	Santiago Cyn Rd	Santiago Crk	E08	Natural channel. Soft bottom under bridge
55C-0049	Santiago Cyn Rd	Santiago Crk	E08	Natural channel. Soft bottom under bridge

TABLE B-1

LIST OF COUNTY-OWNED BRIDGES
(SORTED BY DRAINAGE FACILITY NAME AND CALTRANS BRIDGE NUMBER)

Caltrans Bridge No.°	Structure (Street or Railroad) Name	Intersected Waterway	Drainage Facility No.	Facility Description
55C-0172	Modjeska Cyn Rd	Santiago Crk	E08	Natural channel. Soft bottom under bridge
55C-0173	Modjeska Cyn Rd	Santiago Crk	E08	Natural channel. Soft bottom under bridge
55C-0185	Olive Hill Rd	Santiago Crk	E08	Natural channel. Soft bottom under bridge
55C-0511	Villa Park Rd	Santiago Crk	E08	Dammed natural channel. Large steel pipe culvert.
55C-0670	Hicks Cyn Haul Rd	Santiago Crk & Santiago Cyn Rd	E08	Natural channel. Soft bottom under bridge
55C-0017	Lincoln Ave	Santa Ana River	E01	Trap.-channel. Riprap sides. Soft-bottom
55C-0097	Talbert Ave — MacArthur Blvd	Santa Ana River	E01	Conc. Trap.-channel
55C-0103	Hamilton Ave- Victoria St	Santa Ana River	E01	Trap-channel. Riprap sides. Soft- bottom
SEC-0130 _____	Kraemer Blvd. — Glassell St	Santa Ana River	E01	Trap-channel. Riprap sides. Soft- bottom
55C-0148	Warner Ave	Santa Ana River	E01	Conc. Trap.-channel
55C-0154	Edinger Ave	Santa Ana River	E01	Conc. Trap.-channel
55C-0344	Adams Ave	Santa Ana River	E01	Trap.-channel. Conc. Sides. Soft-bottom
55C-0371	Slater Ave-Segerstrom Ave	Santa Ana River	E01	Conc. Trap.-channel
55C-0631	Harbor Blvd.	Santa Ana River	E01	Conc. Trap.-channel
55C-0174	Silverado Cyn Rd	Silverado Crk	E17	Masonry wall in otherwise natural channel. Rocky bottom under bridge
55C-0176	Kitterman Dr	Silverado Crk	E17	Natural invert. Masonry walls. Mostly grouted riprap under bridge.
55C-0177	Silverado Cyn Rd	Silverado Crk	EU	Concrete wall in otherwise natural channel. Rocky bottom under bridge.
55C-0178	Silverado Cyn Rd	Silverado Crk	E17	Natural channel. Rocky bottom under bridge
SEC-0179	Silverado Cyn Rd	Silverado Crk	E17	Natural channel. Rocky bottom under bridge
55C-0180	Silverado Cyn Rd	Silverado Crk	E17	Natural channel. Trap. Conc. Wingwall transitions. Rocky bottom under bridge

TABLE B-1

LIST OF COUNTY-OWNED BRIDGES
(SORTED BY DRAINAGE FACILITY NAME AND CALTRANS BRIDGE NUMBER)

Caltrans Bridge No.°	Structure (Street or Railroad) Name	Intersected Waterway	Drainage Facility No.	Facility Description
55C-0181	Silverado Cyn Rd	Silverado Crk	E17	Natural channel. Masonry wall approaches. Rocky bottom under bridge
55C-0182	Silverado Cyn Rd	Silverado Crk	E17	Natural channel. Masonry wall approaches. Rocky bottom under bridge
55C-0183	Belha Way	Silverado Crk	E17	Natural channel. Conc. Trap. Wall approaches. Conc. Trap. Channel under bridge
55C-0188	Thisa Way	Silverado Crk	E17	Natural channel. Conc. Wall approaches. Conc. U-channel under bridge
55C-0189	Sycamore Dr	Silverado Crk	E17	Masonry wall in otherwise natural channel. Mostly grouted riprap under bridge
55C-0283	Broadway	Sunset Chan	C07	Sheet pile walls. Soft bottom
55C-0008	Trabuco Cyn Rd	Trabuco Crk	L02	Natural channel. Conc. U-channel under bridge. Grouted riprap immed. U/S & D/S.
55C-0606	Oso Pkwy	Trabuco Crk	L02	Natural channel
55C-0637	Crown Valley Pkwy	Trabuco Crk	L02	Natural channel
55C-0629	Antonio Pkwy	Wildlife Corridor		Natural gulley under bridge
55C-0059	Santiago Cyn Rd	Williams Crk	E08	Natural channel. Soft bottom under bridge

Notes:
1. Each bridge is defined by a Caltrans Bridge Number for the sole purpose of Caltrans inspections. These bridge structures are not located within Caltrans right-of-way. Encroachment permits and/or other approvals from Caltrans are not required for OCFCD maintenance and operations.

APPENDIX C

MITIGATION SITES

TABLE C-1
LIST OF COUNTY-OWNED MITIGATION SITES

SITE NAME	YEAR BUILT	Total Site Acreage	Vegetation Community (acreage if partial)	Status	Mitigation or O&M	Notes
Brea Creek Channel [SAR Parcel 1]	1996	4	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Bolsa Chica Channel (1996) [SAR Parcel 2]	1996	0.2	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Bolsa Chica Channel (1998) [SAR Parcel 3]	1998	2.8	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Bolsa Chica Channel - Site II [SAR Parcel 4]	1999	0.12	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Westminster Channel [SAR Parcel 5]	1996	0.9	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Tustin Avenue Bridge Widening [SAR Parcel 6]	2002	0.81	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Westminster Channel [SAR Parcel 6]	2003	0.1	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Glassell Street Bridge Widening [SAR Parcel 6]	2002	0.055	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
East Garden Grove-Wintersburg Channel (1999) [SAR Parcel 7]	1999	2.62	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
C05 GG- Wintersburg Channel [SAR Parcel 8]	N/A	N/A	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
East Garden Grove-Wintersburg Channel (C05 Upstream & Downstream of Golden West Street) (1996) [SAR Parcel 9]	1996	6	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Ocean View Channel [SAR Parcel 10]	1997	0.51	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Greenville Banning Channel [SAR Parcel 11]	1996	2.9	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Gisler Storm Drain [SAR Parcel 12]	1997	0.7	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Fountain Valley Channel [SAR Parcel 13]	1997	0.8	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Santiago Canyon Road Bridge 0049 [SAR Parcel 14]	2006	0.14	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel

SITE NAME	YEAR BUILT	Total Site Acreage	Vegetation Community (acreage if partial)	Status	Mitigation or O&M	Notes
Santiago Canyon Road Drainage Improvement [SAR Parcel 14]	2004	0.39	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Atwood Channel [SAR Parcel 14]	2005	0.15	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
E04S02 Storm Drain [SAR Parcel 15]	N/A	0.75	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Bitter Bush Channel [SAR Parcel 16]	1996	0.2	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Santa Ana Delhi Channel [SAR Parcel 17]	1996	2.2	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Santa Ana Gardens Channel [SAR Parcel 18]	1996	1	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Como Channel [SAR Parcel 19]	1999	8	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
San Diego Creek [SAR Parcel 20]	1997	2.2	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Peter's Canyon Channel [SAR Parcel 21]	1997	6.86	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Peter's Canyon Channel [SAR Parcel 22]	1995	1	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
El Modena Channel [SAR Parcel 23]	1996	2.1	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Frank R. Bowerman [SAR Parcel 24]	N/A	2	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Green River State Park Encroachment Penalty [SAR Parcel 26]	N/A	N/A	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Loftus Channel [SAR Parcel 27]	2014	0.43	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
San Diego Creek Emergency Project [SAR Parcel 28]	2003	13.5	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Maintenance of Buena Park, Fullerton, Greenville Banning Channels in 2008 [SAR Parcel 29]	2008	1	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Lane Channel Maintenance Project [SAR Parcel 30]	2009	0.2	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Green River State Park Encroachment Penalty [SAR Parcel 31]	N/A	N/A	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel

SITE NAME	YEAR BUILT	Total Site Acreage	Vegetation Community (acreage if partial)	Status	Mitigation or O&M	Notes
Santiago Canyon Road Bridge 0038 [SAR Parcel 32]	2006	0.4	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Newport Blvd [SAR Parcel 33]	1997	1	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Santa Fe Railroad [SAR Parcel 35]	N/A	10	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
SARI Line MH Maintenance [SAR Parcel 38]	N/A	0.5	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Serrano Creek Maintenance [SAR Parcel 39]	2003	3	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Serrano Heights [SAR Parcel 40]	N/A	7	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
SR-55 at E08 [SAR Parcel 41]	N/A	6	Mixed - Enhancement	Active	Mitigation	Santa Ana River Parcel
Antonio Parkway Extension	1999	55.7	Coastal Sage Scrub - 15.5 Oak Woodland - 35.5 Riparian Scrub - 4.7	Active	Mitigation	Oak woodland is incomplete. Working on moving this element to another location.
Alton Parkway Extension [on-site]	2010	11.43	Coastal Sage Scrub Transitional Riparian	Active	Mitigation	
Alton Parkway Extension [off-site]	2010	14.41	Mixed - Enhancement	Active	Mitigation	
Galivan Retarding Basin Construction/ Oso Creek Channel Improvements	2007	1.78	Wetland - 2.14 Willow scrub - 1.25 Mulefat Scrub - 0.89	Active	Mitigation	
Haster Basin	2014	1.9	Wetland - 0.64 Riparian 1.26	Active	Mitigation	
Laguna Canyon Road Segments 1-3	2008	20.5	Alkali Marsh - 6.11 Freshwater Marsh - 4.28 Acres Mulefat Scrub - 4.48 Willow Scrub/Forest - 3.86 Non-riparian streambed - 1.78	Active	Mitigation	
Laguna Canyon Road Drainages	2016	0.22	Riparian	Active	Mitigation	
La Pata Extension [on-site]	2014	N/A	Wetland	Active	Mitigation	
La Pata Extension [off-site]	2014	15.26	Riparian 4.56 Mixed - Enhancement - 10.7	Active	Mitigation	

SITE NAME	YEAR BUILT	Total Site Acreage	Vegetation Community (acreage if partial)	Status	Mitigation or O&M	Notes
Los Alamitos Pump Station	2007	0.42	Coastal Wetland - 0.28 Mulefat Scrub - 1.33	Signed off	Mitigation	Need to digitize, file is a graphic depiction
Moulton Parkway Segment 2 (Veeh Reservoir Site)	2007	0.1	Native grassland - 0.1	Signed off	Mitigation	
Moulton Parkway Segment 2 (Aliso Creek Site)	2007	0.35	Mixed - Enhancement	Signed off	Mitigation	
San Diego Creek Emergency Project [Mason off-site]	2003	10	Riparian	Active	Mitigation	Located in Mason Regional Park
San Diego Creek Long Term Operations & Maintenance (Reach 2) [Peter's off-site]	2011	14.96	Riparian	Active	Mitigation	Located in Peters Canyon Regional Park
Serrano Creek Restoration	2001	8.05	Riparian	Active	Mitigation	
Edinger Bridge Over Bolsa Chica Channel [Talbert off-site]	2018	1.26	Non-tidal coastal saltmarsh wetlands	Active	Mitigation	Located in Talbert Regional Park
Rosmoor Channel				Active	O&M	Need to digitize, file is a graphic depiction
San Diego Creek - Reach II 40 foot buffer			Riparian	Active	O&M	

APPENDIX D

REVEGETATION AND MONITORING PLAN

Countywide Maintenance Program:

Restoration and Monitoring Plan

Prepared by:

Giles Matthews

County of Orange

OC Public Works, OC Infrastructure Programs/Regulatory Permits

601 North Ross Street

Santa Ana, California 92701

February 21, 2025

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1.0 Background

Orange County Public Works has applied for a renewal of its long-term maintenance permits from the State Water Resources Control Board, California Department of Fish and Wildlife, and the U. S. Army Corps of Engineers to carry out routine maintenance of its flood channels, basins, and associated infrastructure. The first set of Countywide permits excluded channels with any sensitive resources present, requiring those maintenance projects to be permitted separately on a project-by-project basis. It also excluded any modifications from as-built condition. OC Public Works is currently seeking to renew its Countywide permits and to further increase the streamlining, reducing the number of project-by-project approvals needed, by including the following under the Countywide permit:

- Maintenance work to structures adjacent to sensitive habitats with the implementation of standardized avoidance and minimization measures;
- Limited impacts, not to exceed 0.05 acres per 500 linear feet, or as otherwise agreed to by the resource agencies, to sensitive habitats with the implementation of appropriate mitigation;
- Maintenance work at the County's long-term mitigation sites, within previously analyzed watersheds, needed to maintain or improve the habitat conditions at the mitigation sites; and
- Improvements to channels that may deviate from the as-built condition, either:
    - with the intent that improvements would be beneficial to the environment, resulting in no loss of ecological functions and values. With resource agency approval, these types of improvements may not require additional mitigation as they would be considered self-mitigating through their ecological benefits, or:
    - resulting in a permanent change to the channel, such as the installation of riprap to combat highly erosive, bare earthen slopes. These changes may or may not require mitigation depending upon the condition of the existing channel and the extent of permanent change, including potential water quality improvements and retention of existing ecological features.
- Allowance for vegetation to grow, where channel capacity allows, between maintenance cycles without triggering additional mitigation obligation for removal of the vegetation at a later time.

The Countywide permit would maintain the structure of submitting an Annual Work Plan to the resource agencies, which would allow resource agency staff to review and approve maintenance projects that are consistent with the Countywide permit. If a maintenance project is determined not consistent with the Countywide permit, the maintenance activity and/or associated mitigation would be modified as recommended by the resource agencies. If concurrence on appropriate modifications and/or mitigation cannot be established a project-specific permit would be pursued. However, OC Public Works' intent is for the majority of maintenance to be covered under the Countywide permit.

OC Public Works generally maintains its flood facilities with minimal vegetation to allow adequate flood conveyance; however, OC Public Works would like the ability to allow more vegetation to grow, where channel capacity allows, on a periodic basis, to allow for additional environmental benefit (water quality, air quality, aesthetics, wildlife, etc.) without the risk that allowing the periodic growth of vegetation would result in additional mitigation obligation when the vegetation needs to be removed for conveyance or maintenance needs. OC Public Works would like to establish a

record of channels where baseline conditions are unvegetated or minimally vegetated (e.g., bare earthen channels), where vegetation could periodically be allowed to grow but could later be removed (including some limited woody vegetation) when needed for flood capacity without triggering mitigation obligation; vegetation removal would occur outside the nesting season or would include the appropriate pre-activity nesting bird surveys.

Under the Countywide permit, channels are characterized into categories on a scale of Category 1 to Category 5 based on several characteristics, primarily based on vegetation cover and the extent of channelization (i.e., earthen, riprap, or concrete structure) (see Attachment A). Standard Conditions are required for all channels and Special Conditions are required for Category 4 and 5 channels based on the presence of sensitive habitat within 500 feet and/or the potential presence of sensitive species within 500 feet (see Attachment B). The County is required to report impacts to Category 3, Category 4, and Category 5 channels in their Annual Work Plan to the resource agencies describing the maintenance projects planned for the upcoming year. Following submittal of the Annual Work Plan, an Annual Work Plan Meeting is held to review the proposed projects and answer any questions or concerns from the resource agencies. Once the resource agencies provide approval of the Annual Work Plan, the maintenance projects are approved. At the end of the year, the County prepares an Annual Report describing the maintenance projects that they conducted that affected Category 3, Category 4, and Category 5 channels the previous year. The annual reporting schedule is included in Attachment C.

The majority of maintenance activities under the Countywide permit are not expected to require active restoration because the impacts would be less than significant (i.e., Category 1 or 2 channel impacts) or because the vegetation in the channels would be expected to recover through passive restoration (i.e., Category 3 channels [including Category 3 channels elevated to Category 4 based on the presence of sensitive habitat within 500 feet]). However, if Category 3 channels do not recover through passive restoration, application of a seed mix and periodic weeding would be required. This document outlines the procedures for follow-up monitoring and active restoration activities.

With the resource agencies' approval, maintenance activities could temporarily impact a limited amount (0.05 acre per 500 linear feet, or as otherwise agreed to by the resource agencies) of Category 5 vegetation consisting of native woody vegetation (e.g., riparian scrub/forest/woodland, coastal sage scrub, oak woodland, sycamore woodland, or alluvial sage scrub). These maintenance activities are expected to require active restoration within the temporary disturbance area and/or compensatory mitigation for permanent adverse impacts (Category 3, Category 4, or Category 5). This document outlines the conceptual procedures for developing restoration plans describing site preparation, planting, and monitoring. Detailed planting plans will be developed based on the site specifics and will be presented for approval to the resource agencies with the Annual Work Plan.

2.0 Restoration Objective

The objective of both passive and active restoration is to restore key ecological features of value (as identified by a qualified biologist) to pre-maintenance conditions or better within 1 year of completion of the maintenance activity for Category 3 channels (including Category 3 channels elevated to Category 4 based on the presence of sensitive habitat within 500 feet) and within two to five years of completion of the maintenance activity for Category 5 channels.

3.0 Thresholds for Mitigation

Active restoration and/or compensatory mitigation will be required in the following situations:

- To restore Category 3 vegetation (including Category 3 channels elevated to Category 4 based on the presence of sensitive habitat within 500 feet) that has not recovered through passive restoration within one year; active restoration would occur onsite within temporary impact areas.
- To restore Category 5 vegetation temporarily impacted by maintenance activities within two to five years; active restoration would occur on-site within temporary impact areas. Details on the restoration proposed would be described in the Annual Work Plan and approved by the resource agencies prior to approval of the maintenance activity.
- To provide compensatory mitigation for permanent adverse impacts to Category 2, 3 (including Category 3 channels elevated to Category 4 based on the presence of sensitive habitat within 500 feet), and/or Category 5 vegetation within two to five years. Active restoration would occur on-site or off-site in areas approved by the resource agencies. Details on the restoration and mitigation ratio proposed would be described in the Annual Work Plan and approved by the resource agencies prior to approval of the maintenance activity.

As an alternative to off-site compensatory mitigation through active restoration, the County could propose to use credits at a mitigation bank or to conduct removal of giant reed (*Arundo donax*) or other invasive species from the County's waterways. The County has purchased credits (three acres) from the Soquel Canyon mitigation bank to mitigate impacts resulting from maintenance activities that occur in the northern portion of the County. Additionally, the County has identified Aliso Creek as a possible location for removal of invasive species to mitigate for impacts resulting from maintenance activities that occur in the southern portion of the County.

4.0 Passive Restoration

Following completion of maintenance activities conducted in Category 3 channels (including Category 3 channels elevated to Category 4 based on the presence of sensitive habitat within 500 feet), sites will be allowed to passively revegetate (i.e., revert to their previous condition without active replanting effort) without additional planting or weeding effort.

<u>One-Year Follow-up Visit</u>

A site visit will be conducted by a qualified Biologist approximately 12 months (one year) following the maintenance activity to assess whether vegetation has recovered passively. The Biologist will visually estimate percent cover of species and will take photos to document the recovery of the area.

If passive restoration is occurring naturally (i.e., percent cover of native species is similar to pre-maintenance conditions [within 10 percent cover]), no further monitoring will be needed.

If recovery of vegetation appears stunted, the County will prepare a brief memo or letter report describing the recommended restoration activities and follow-up monitoring requirements. The memo/letter will include a seed mix using source material from within 20 miles of the impacted site (preferably from within the same watershed), as recommended by a qualified Biologist based on the location and species composition of the impacted site. The memo/letter will also describe any site preparation needed prior to seeding, timing of seed application, watering requirements, and

weeding requirements depending on time of year, size of the site, and site conditions. The memo/letter will be submitted to the resource agencies via email for review and approval prior to application of the seed mix. The restoration activities will be implemented by the County as described in the memo/letter and approved by the resource agencies. Implementation monitoring will be included with the Annual Report.

5.0 Active Restoration

Active Restoration of Temporary Impacts

For maintenance projects that would temporarily impact a limited amount of Category 5 vegetation (i.e., less than 0.05 acre per 500 linear feet of native woody vegetation, or as otherwise agreed to by the resource agencies), active restoration will be implemented to accelerate recovery of the area temporarily impacted following maintenance.

A qualified Biologist will prepare a letter report[1] describing the restoration activities and follow-up monitoring for the area temporarily impacted. The letter will include the recommended seed mix and planting palette using source material from within 20 miles of the impacted site (preferably from within the same watershed). Cuttings or container plants will be used to replace woody native species impacted by the maintenance project. The letter will describe site preparation; timing of seeding/planting; seed mix quantities, cutting quantities and methods, and/or container sizes/quantities; watering requirements; and weeding requirements depending on time of year, size of the site, and site conditions. The letter report will also establish performance criteria (e.g., visual estimate of percent cover of native vegetation); site-specific resource protection measures (e.g., pre-activity surveys, biological monitoring when work occurs near sensitive resources); and will recommend a schedule for monitoring depending on the type of habitat that is being restored. Restoration monitoring is expected to be needed for two to five years following implementation.

The letter report describing the restoration recommendations will be submitted as an attachment to the Annual Work Plan for review and approval by the resource agencies and will be discussed with the resource agencies at the Annual Work Plan Meeting. The resource agencies must approve the Annual Work Plan and the associated letter report describing the restoration plan prior to commencement of the maintenance project that would temporarily impact Category 5 vegetation.

Following completion of the maintenance project, restoration activities will be implemented by the County as described in the restoration plan approved by the resource agencies. The implementation monitoring will be included with the Annual Report.

Active Restoration of Permanent Adverse Impacts

For maintenance projects considered permanent adverse impacts to Category 2, Category 3, Category 4, and/or a limited amount of Category 5 vegetation (i.e., less than 0.05 acre per 500 linear feet of native woody vegetation, or as otherwise agreed to by the resource agencies), the County will negotiate the appropriate compensatory mitigation with the resource agencies for permanent adverse impacts to biological resources. The compensatory mitigation for permanent adverse impacts (Category 3, Category 4, or Category 5) will be no less than a 1:1 ratio. For permanent impacts considered environmentally beneficial (Category 3, Category 4, or Category 5), no compensatory mitigation will be needed, as approved by the resource agencies. Potential compensatory mitigation options will include one or a combination of the following: (1) payment to

[1] Because these areas will be very small (0.05 acre or less), a letter report format should be sufficient to describe the restoration details.

a resource agency-approved mitigation bank; (2) preservation of off-site riparian habitat on County lands that the resource agencies consider suitable to fulfill the mitigation requirement; (3) removal of invasive species for riparian enhancement; and/or (4) establishment of riparian habitat (on-site or off-site).

In-lieu Mitigation Fee

If in-lieu mitigation fees are selected as the mitigation option, the County will pay the in-lieu mitigation fee to a mitigation bank/enhancement program for the replacement of impacted jurisdictional resources prior to the initiation of maintenance activities.

Preservation

If preservation of off-site riparian habitat on County lands is selected, the County will show the long-term preservation mechanism (e.g., conservation easement or similar) for the replacement of impacted jurisdictional resources prior to the initiation of maintenance activities.

Invasive Species Removal

If removal of invasive species for riparian enhancement is selected, the County will prepare a letter report describing the invasive species removal plan prior to the initiation of maintenance activities. The letter will describe the area where invasive species removal will occur, methods that will be used, resource protection needed during invasive species removal (e.g., pre-activity surveys, biological monitoring when work occurs near sensitive resources), and monitoring requirements depending on the size of the site and the site conditions. Restoration monitoring of the invasive removal area is expected to be needed in perpetuity.

The letter report describing invasive species removal will be submitted as an attachment to the Annual Work Plan for review and approval by the resource agencies and will be discussed with the resource agencies at the Annual Work Plan Meeting. The resource agencies must approve the Annual Work Plan and the associated letter report describing the restoration plan prior to commencement of the maintenance project that would be considered a permanent adverse impact (Category 3, Category 4, or Category 5).

Following completion of the maintenance project, riparian enhancement activities will be implemented by the County as described in the invasive species removal plan approved by the resource agencies. Implementation monitoring will be included with the Annual Report.

On-site/Off-site Mitigation

If on-site or off-site restoration is selected, a qualified Biologist will prepare a letter report describing the restoration plan for review and approval by the resource agencies prior to the initiation of maintenance activities. The letter report will include the following items:
(1) responsibilities and qualifications of the County and other entities that will implement the plan; (2) quantitative performance criteria (e.g., percent cover of native vegetation); (3) site selection contiguous with other habitat areas and physical characteristics that would support successful establishment of the target habitat types; (4) seed mix species/quantity, cutting species/quantity, and/or container planting species/quantity using plant materials and seed of local origin (i.e., collected within 20 miles, and preferably from the same watershed; (5) resource protection requirements during restoration activities (e.g., pre-activity surveys, biological monitoring when work occurs near sensitive resources); (6) site preparation (e.g., weed removal, trash removal, soil treatment, erosion control, collection of coarse woody debris); (7) watering schedule and methods;

(8) planting and maintenance schedule; (9) monitoring schedule and reporting requirements; and (10) long-term preservation.

The letter report describing the on-site or off-site restoration plan will be submitted as an attachment to the Annual Work Plan for review and approval by the resource agencies and will be discussed with the resource agencies at the Annual Work Plan Meeting. The resource agencies must approve the Annual Work Plan and the associated letter report describing the restoration plan prior to commencement of the maintenance project that would have permanent adverse impacts (Category 3, Category 4, or Category 5).

Following completion of the maintenance project, restoration activities will be implemented by the County as described in the restoration plan approved by the resource agencies. Implementation monitoring will be included with the Annual Report.

6.0 Annual Reporting

An Annual Monitoring Report will be submitted to the resource agencies with the Annual Report summarizing the follow-up monitoring conducted for various maintenance sites. The Report will include attachments with the following:

- One-year follow-up monitoring forms describing conditions at sites where Category 3 vegetation (including Category 3 channels elevated to Category 4 based on the presence of sensitive habitat within 500 feet) is passively revegetating. This will include all sites from the previous year's Annual Work Plan that temporarily impacted Category 3 vegetation.
- Restoration monitoring of Category 3 vegetation (including Category 3 channels elevated to Category 4 based on the presence of sensitive habitat within 500 feet) that did not passively revegetate and are currently undergoing active revegetation through application of a seed mix. This may include sites from the Annual Work Plans over the previous two to five years.
- Restoration monitoring for temporarily impacted areas where Category 5 vegetation was impacted that are currently undergoing active restoration following a site-specific restoration plan. This may include sites from the Annual Work Plans over the previous two to five years.
- Restoration monitoring for permanent adverse impacts (Category 3, Category 4, or Category 5) of riparian enhancement sites currently undergoing invasive species removal following a site-specific riparian enhancement plan. This may include sites from the Annual Work Plans over the previous two to five years.
- Restoration monitoring for permanent adverse impacts (Category 3, Category 4, or Category 5) for on-site or off-site restoration sites currently undergoing active restoration following a site-specific restoration plan. This may include sites from the Annual Work Plans over the previous two to five years.

ATTACHMENT A

CHANNEL CATEGORY DEFINITIONS

Channel Definitions

Channel Features	Category 1[b]	Category 2[b]	Category 3	Category 4[b]	Category 5[b]
Lining	Entirely concrete-lined (e.g., concrete bed and banks, grouted riprap, or energy dissipation structures)	Earthen bottom with either lined or unlined banks (e.g., earth bottom channel and concrete or sheetpile-lined banks; earthen bottom with grouted or ungrouted riprap on the banks; or earthen bottom and earthen banks)	Earthen bottom with either lined or unlined banks (e.g., earth bottom channel and concrete or sheetpile-lined banks; earthen bottom with grouted or ungrouted riprap on the banks; or earthen bottom and earthen banks)	See vegetation criteria	Earthen bottom with either lined or unlined banks (e.g., earth bottom channel and concrete or sheetpile-lined banks; earthen bottom with grouted or ungrouted riprap on the banks; or earthen bottom and earthen banks)
Vegetation	No vegetation or sparse vegetation (i.e., less than 5% total cover). If sediment/vegetation has deposited on top of lined bank, channel should be categorized as Category 2, 3, 4, or 5.	No vegetation; sparse native or non-native vegetation (i.e., less than 5% total vegetation cover); or vegetated with a majority of non-native vegetation (more than 50% relative cover[b] non-native)	Vegetated with a majority of native herbaceous and/or emergent vegetation (more than 50% relative cover[c] native)	Category 1 – 3 vegetation is elevated to Category 4 when Category 5 vegetation is present within 500 feet. Also includes habitat in areas that could be used by western pond turtles or roosting bats.	Native woody vegetation that comprises riparian scrub/forest/woodland habitat or coastal sage scrub including but not limited to mule fat scrub, willow scrub/forest, oak woodland, sycamore woodland, or alluvial sage scrub. Category 5 vegetation removed not to exceed 0.05 acre (2,175 square feet) per 500 linear feet, or as otherwise agreed to by the resource agencies.

Channel Definitions

Channel Features	Category 1[b]	Category 2[b]	Category 3	Category 4[b]	Category 5[b]
Impacts to Trees[d]	No trees present within the work area. Native or non-native trees with an existing paved or unpaved access road under the canopy; trees could be trimmed to allow for access.	Native or non-native trees with an existing paved or unpaved access road under the canopy; trees could be trimmed to allow for access.	Native or non-native trees with an existing paved or unpaved access road under the canopy; trees could be trimmed to allow for access. An unlimited number of non-native trees within the jurisdictional area could be removed; no replacement planting necessary. Non-native trees greater than eight inches DBH would be mapped.	Native trees located within 50 feet of the work area that do not have an existing access road under the canopy and/or trees that would require substantial trimming or whose roots would be affected to accomplish the work. Up to five small native trees, greater than three inches DBH and less than eight inches DBH, could be removed.	Native trees greater than eight inches diameter at breast height (DBH) that would need to be removed to accomplish the work. Native tree(s) removed not to exceed 18 inches DBH, unless otherwise approved by the resource agencies. Total native tree canopy removed (in combination with other Category 5 vegetation) not to exceed 0.05 acre (2,175 square feet) per 500 linear feet, or as otherwise agreed to by the resource agencies.
Wildlife Corridor	Local movement for urban-adapted wildlife; not a regional movement corridor	Local movement for urban-adapted wildlife; not a regional movement corridor	Local movement for wildlife; not a regional movement corridor	Local or regional movement corridor for wildlife	Local or regional movement corridor for wildlife
Temporary Impacts	Allowed	Allowed	Allowed cut herbaceous, emergent to ground level; roots should remain in place if possible. Non-native trees within jurisdiction could be removed to accomplish the work; no replacement planting necessary.	Allowed with special conditions. Up to five small native trees, each greater than three inches and less than eight inches DBH, could be removed to accomplish the work with replacement planting.	Allowed up to 0.05 acre per 500 linear feet with authorization from the resource agencies on the proposed impacts and mitigation approach; special conditions required. Impacts larger than 0.05 acre per 500 linear feet would require a separate permit authorization, unless otherwise approved by the resource agencies.

Channel Definitions

Channel Features	Category 1[b]	Category 2[b]	Category 3	Category 4[b]	Category 5[b]
Revegetation Requirements following Temporary Impact	None	Passive revegetation; no revegetation monitoring	Passive revegetation; one-year check to confirm recovery; active revegetation monitoring only if needed after one year.	Passive revegetation; one-year check to confirm recovery; active revegetation monitoring only if needed after one year. Revegetation monitoring for planted replacement trees.	Active revegetation with restoration monitoring
Permanent Impacts[e]	Allowed	Allowed with authorization from the resource agencies	Allowed with authorization from the resource agencies on proposed impact and mitigation approach Non-native trees could be removed to accomplish the work; no replacement planting necessary.	Allowed with authorization from the resource agencies on proposed impact and mitigation approach	Allowed up to 0.05 acre per 500 linear feet with authorization from the resource agencies on the proposed impacts and mitigation approach; special conditions required Impacts larger than 0.05 acre per 500 linear feet would require a separate permit authorization, unless otherwise approved by the resource agencies.
Mitigation Ratio	No mitigation needed	Temporary Impacts: No mitigation needed. Permanent Impacts: No mitigation with authorization from the resource agencies.	Temporary impacts: No mitigation needed. Permanent Adverse Impacts: 1:1 (or as otherwise approved by the resource agencies) for loss of native herbaceous and emergent vegetation. Mitigation may be at an approved mitigation bank, non-native species removal, or through off-site mitigation as described in a conceptual mitigation plan. The	Temporary Impacts: No mitigation needed with the exception of tree replacement requirements. Permanent Adverse Impacts: 1:1 (or as otherwise approved by the resource agencies) for loss of native herbaceous and emergent vegetation. Mitigation may be at an approved mitigation bank, non-native species removal, or through off-site	Temporary Impacts: 1:1 in situ re-establishment of the habitat. Permanent Adverse Impacts: 1:1 (or as otherwise approved by the resource agencies) for the loss of native woody vegetation. Mitigation may be at an approved mitigation bank, non-native species removal, or through off-site mitigation as described in a conceptual mitigation plan. The mitigation approach will be approved by the resource agencies. Minimum 3:1 in-kind replacement (depending on the type and structure of habitat) for the loss of mature native trees greater than eight inches DBH.

Channel Definitions

Channel Features	Category 1[b]	Category 2[b]	Category 3	Category 4[b]	Category 5[b]
			mitigation approach will be approved by the resource agencies.	mitigation as described in a conceptual mitigation plan. The mitigation approach will be approved by the resource agencies. Minimum 2:1 in-kind replacement for the loss of small native trees (i.e., greater than three inches DBH and less than eight inches DBH).	Alternative mitigation approaches (e.g., non-native mitigation removal) may be considered with approval by the resource agencies. Revegetation monitoring will be conducted for three to five years.

[a] Category 1, Category 2, and some Category 4 Channels are channels where baseline conditions are unvegetated or minimally vegetated; these are channels were vegetation could periodically be allowed to grow between maintenance cycles without triggering additional mitigation obligation for removal of the vegetation at a later time (including removal of limited woody vegetation such as mule fat [*Baccharis salicifolia salicifolia*] and willow [*Salix* spp.] seedlings/saplings).

[b] Minimum mapping unit for Category 5 vegetation is 10 linear feet along channel or 100 square feet. Minimum mapping unit for other categories of vegetation is flexible to site conditions and should be stated in biological survey methods.

[c] Relative cover is the cover of a particular species as a percentage of total plant cover. Relative cover will always tally up to 100%, even when total cover is low.

[d] Trees are defined as having a single trunk with a diameter at breast height (DBH) of 3 inches or greater or a multiple trunk tree with a combined DBH of the largest two trunks.

[e] Permanent impacts include those where riprap or structures would be placed in the bed or on the banks.

ATTACHMENT B-1

COUNTYWIDE STANDARD CONDITIONS

COUNTYWIDE STANDARD CONDITIONS TO PROTECT FISH AND WILDLIFE RESOURCES

February 21, 2025

1. Avoidance and Minimization Measures

To avoid or minimize adverse impacts to fish and wildlife resources, the Permittee (Orange County Public Works [OCPW]) proposes implementing each measure listed below. The resource agencies referred to below are the U.S. Army Corps of Engineers (USACE), State Water Resources Control Board (SWRCB), and the California Department of Fish and Wildlife (CDFW).

Resource Protection

1.1 Site-Specific Worker Environmental Awareness Program (WEAP) Training. Prior to the initiation of maintenance activities in Category 3, 4, and 5 channels, the Permittee shall conduct a WEAP training for all activities requiring approval under the Annual Work Plan. The WEAP shall be presented by a qualified Biologist and shall include a discussion of the habitats within and adjacent to the project work area; any sensitive species that could occur within and adjacent to the project work area; legal protections for those species and penalties for violations; any Environmentally Sensitive Areas (ESAs) designated for the project (e.g., nesting birds, habitat for sensitive species, etc.); and an overview of the applicable permit conditions including the project-specific protection measures. Interpretation shall be provided for non-English speaking workers, and the same instruction shall be provided for any new workers prior to their performing work on the project site. Upon completion of the WEAP training, employees shall sign a form (i.e., the WEAP Log) stating they attended the program and understand all protection measures.

1.2 Annual Resource Education. In addition to site-specific WEAP training, all OCPW Operations and Maintenance staff will be required to attend an annual environmental training program, which will provide appropriate training to allow activities that are
pre-authorized under the Countywide Permit approval, and do not need to be added to the Annual Work Plan (e.g. graffiti removal, rodent control, pump station maintenance).

1.3 Maintenance Area Demarcation. For all activities requiring approval under the Annual Work Plan (i.e., those in Category 3, 4, and 5 channels), the Permittee shall mark the authorized maintenance area to identify the limits of disturbance prior to the initiation of activities associated with the maintenance work. A qualified Biologist shall be present for the staking of the limits and installation of Best Management Practices to ensure that sensitive habitats are protected, and areas that would be impacted are within the limits authorized by the permit. During maintenance activities, no vegetation shall be removed outside of this marked area, and no construction debris, equipment, or soils shall be placed outside of the marked area.

1.4 Biological Monitoring. During vegetation clearing for Category 4 and 5 channels, the Permittee shall have a qualified Biologist on-site immediately prior to and during all clearing of vegetation to ensure no impacts occur outside of staked limits or to nearby habitat.

1.5 Native Tree Avoidance. No equipment shall be operated or parked within the dripline of native trees (e.g., oaks, sycamore, cottonwood) except where there are existing access roads. Native trees within 50 feet of the project work area (that do not already have an access road within their canopy) shall be protected with temporary fencing or flagging (see Category 4 Special Conditions for Tree Protection). The fencing will be placed at 1.5 times the dripline/root protection zone (defined as the outer canopy edge, at least 15 feet from the trunk). These areas will be labeled as "Tree Protection Areas" and will be regarded as ESAs. If an existing access road is within the Tree Protection Area, the Tree Protection Area may be adjusted to allow for access along the existing roadway. If it is unavoidable to track equipment within the dripline of a native tree, root protection measures will be implemented, including but not limited to placing plywood sheets over roots. Should native trees require trimming of the canopy greater than 10 percent, branches greater than three inches in diameter, or roots, a qualified Arborist shall approve the tree trimming.

1.6 Tree Removal. A total of up to five small native trees (i.e., greater than three inches in diameter at breast height [DBH] but less than eight inches DBH), may be removed for each maintenance project following Special Conditions for Category 4 channels for trees. Small trees shall be replaced through replanting nearby using cuttings or container plants at a 2:1 ratio per native tree removed, with replacement species and location approved by a qualified Biologist. The Annual Work Plan will present the replacement planting plan in a letter report describing active restoration activities for this Category 4 (or Category 5) maintenance activity (see Restoration and Monitoring Plan).

If any native trees greater than eight inches DBH would need to be removed, the Annual Work Plan will present the replacement planting plan in a letter report describing active restoration activities following Special Conditions for Category 4 channels for maintenance activities that affect trees (see Restoration and Monitoring Plan). Native trees with eight inches or greater DBH will be replaced at a minimum 3:1 ratio, or as otherwise agreed to by the resource agencies, and will require follow-up monitoring for three to five years as described in the letter report describing active restoration activities. Alternative mitigation approaches (e.g., non-native vegetation removal) may be considered with approval by the resource agencies in the Annual Work Plan.

1.7 Riparian Vegetation Avoidance. The disturbance or removal of vegetation shall not exceed the minimum necessary to complete the identified activities for each maintenance activity. Appropriate precautions shall be taken to avoid inadvertent damage to vegetation by people or equipment.

1.8 Leave Patches of Vegetation in Channel. Permittee shall minimize vegetation removal to the minimal amount necessary. Vegetation removal in the Category 2, 3, 4, and 5 channels shall be conducted in a non-continuous manner, as feasible, allowing small patches of in-channel vegetation to persist provided it would not adversely affect conveyance capacity.

1.9 Herbaceous Vegetation Avoidance Between Sediment Removal Activities. Permittee shall avoid removal of native emergent herbaceous vegetation on the channel bottom that is rooted in or near the low flow channel or pond to provide cover for aquatic wildlife, where feasible. Native non-woody vegetation that does not interfere with designed flood management capacity shall be allowed to grow between sediment removal activities within Category 2, 3, 4, and 5 channels. If necessary to alleviate flood risk between sediment removal activities, native non-woody vegetation may be cut down to a level above the water line or root zone.

1.10 Maximum Woody Vegetation-Free Zone at the Toe of the Bank. When removing woody vegetation from channels for the sole purpose of visual access to inspect the toe of leveed slopes or dam structures, Permittee shall treat a maximum of 25-foot-wide zone from the toe of the bank for leveed slopes and 25-foot-wide zone from the toe of dam structures and should retain non-woody vegetation, where feasible, for erosion protection. In compliance with Division of Safety of Dams requirements and Corps requirements, if woody vegetation is removed for visual inspection purposes, it shall be replaced with grasses or low-growing herbaceous vegetation for erosion control and in consultation the resource agencies. For Category 3, 4, and 5 channels, a qualified Biological Monitor shall be present when this work is occurring. This work must be authorized by the resource agencies prior to removing vegetation from Category 5 channels.

1.11 Staging Areas. Staging/storage areas for equipment and materials shall be located outside of channels, including overnight staging/storage, wherever feasible.

1.12 Work During Dry Weather Only. If work is performed within the stream channel during the winter storm period, Permittee shall monitor the 5-day weather forecast. If greater than 20% of precipitation is forecasted, work activities shall include securing of the site, so that no materials may enter or be washed into the stream. The site shall be completely secured 24 hours prior to precipitation, unless prior written approval has been provided by USACE, SWRCB, and CDFW. During periods of precipitation (i.e., any event that results in discharges of stormwater from a site), no in-stream maintenance activities may occur; activities involving the prevention of materials from entering the stream or being washed downstream, or environmentally benign activities conducted by hand-crews, may be conducted.

1.13 Project Lighting. Lighting required to complete project activities at night shall not illuminate Category 3, 4, or 5 channels, unless otherwise authorized by the resource agencies.

1.14 Fire Safety. Permittee, its contractors, subcontractors, employees, and visitors to the site are prohibited from starting personal fires. Construction personnel will follow best management practices for fire safety. For work near dry vegetation, project-specific fire safety procedures will be discussed prior to work. Any use of torches or other equipment that may ignite or spark is prohibited near dry vegetation without a project-specific fire safety plan and training review.

1.15 Personnel Compliance on Site. Permittee, its contractors, subcontractors, employees, and visitors to the site are prohibited from 1) feeding wildlife, 2) bringing domestic pets to the work site, 3) collecting native plants (unless the collection is for propagating/replanting associated with restoration or mitigation), or 4) harassing or killing wildlife (e.g., snakes). It shall be the responsibility of Permittee to ensure compliance with this measure.

1.16 Prohibited Plant Species. Permittee shall not plant, seed, or otherwise introduce invasive exotic plant species. Prohibited exotic plant species include those identified in the California Exotic Pest Plant Council's database, which is accessible at: http://www.cal-ipc.org/ip/inventory/weedlist.php.

Wildlife and Habitat Protection

1.17 Sensitive Species. Several streams in Orange County support native riparian vegetation or other suitable habitat for sensitive species. Sensitive species have been known to occur within some of the identified areas of the Maintenance Program. Streams (or portions of streams and/or tributaries) where sensitive species have potential to occur include, but are not limited to: San Juan Creek (including tributaries Cañada Chiquita and Cañada Gobernadora), Trabuco Creek, Coyote Creek, San Diego Creek (including tributaries Sand Canyon Wash, Borrego Canyon Wash, and Agua Chinon), Aliso Creek (including tributary English Creek), Santa Ana River (including Prado Basin), East Garden Grove-Wintersburg Channel, Santiago Creek, and Silverado Creek. Maintenance activities within 500 feet of habitat where sensitive species have potential to occur, as determined by a qualified Biologist are categorized as Category 4 or 5 channels; Special Conditions shall be required to avoid and minimize impacts on sensitive species. The Permittee shall implement Special Conditions as written, or as otherwise approved by the resource agencies (see Attachment B of the Restoration and Monitoring Plan).

1.18 Listed Species. Approvals do not authorize take, incidental or otherwise, of any federal or State-listed Threatened, Endangered, Candidate, or Proposed Listed species. The use of Special Conditions shall be applied to Category 4 and 5 channels to avoid and minimize impacts on these species and their habitats. The Special Conditions shall be determined by a qualified Biologist, described in the Annual Work Plan, and approved by the resource agencies prior to proceeding with maintenance activities in Category 4 and 5 channels. Special Conditions shall be consistent with the Central–Coastal Natural Communities Conservation Plan, Southern Subregion Habitat Conservation Plan, and Western Riverside Multiple Species Habitat Conservation Plan; work in these areas may include measures for Covered Species that are not currently federal or State-listed. The Permittee shall implement Special Conditions as written, or as otherwise approved by the resource agencies (see Attachment B of the Restoration and Monitoring Plan).

1.19 Pre-Activity Nesting Bird/Raptor Survey[1]. To the extent possible, maintenance work that involves the removal of vegetation shall be conducted outside the

[1] The methods/approach in this permit condition supersede the nesting bird mitigation measure listed in the CEQA Mitigated Negative Declaration. These methods are the current industry standard for areas that are highly urbanized. Special Conditions following a different methodology would be used in any

nesting bird/raptor nesting season (i.e., February 1 to September 15). If the nesting bird/raptor season cannot be avoided and maintenance work and/or vegetation removal must be initiated between February 1st and September 15th, a qualified Biologist (i.e., one with experience conducting nesting bird/raptor surveys) shall conduct a pre-activity nesting bird/raptor survey within three days prior to the initiation of maintenance and/or prior to any vegetation removal to ensure no nesting birds/raptors would be impacted by the maintenance activities. The survey area will include the work area plus a 100-foot buffer from the work area for nesting birds and up to a 500-foot buffer for nesting raptors and listed bird species.

If an active nest is identified, the qualified Biologist shall determine the appropriate size protective buffer based on the sensitivity of the species, the location of the nest with respect to the work activities, the type of work activities, and the existing amount of human activity in the area. The protective buffer size should generally be 25 to 200 feet for common species; 100 to 300 feet for special status species; and 300 to 500 feet for nesting raptors. The protective buffer size for federally or State Threatened or Endangered species shall be 300 to 500 feet (per Special Conditions), unless otherwise authorized by the resource agencies. The protective buffer shall be clearly flagged in all directions and designated as an ESA; the construction supervisor/staff shall be notified of the location of the protective buffer/flagging. The protective buffer shall not be disturbed until the nest becomes inactive (i.e., the nest fails or the young have fledged).

1.20 Pile Driving. To avoid and minimize impacts to nesting birds/raptors, maintenance activities in Category 4 and 5 channels shall not include jack hammering or non-silent pile driving between February 1st and September 15th unless pre-activity nesting bird/raptor surveys and surveys conducted per applicable Special Conditions find that there are no sensitive or listed species present within 500 feet of the proposed pile driving site, and/or noise minimization measures are implemented to the satisfaction of the resource agencies, as described in the Special Conditions.

1.21 Leave Wildlife Unharmed. If any wildlife is encountered during the course of maintenance activities, said wildlife shall be allowed to leave the maintenance area unharmed. If any sensitive wildlife species is encountered during the maintenance work or biological monitoring, a qualified Biologist shall determine whether additional measures would be needed to ensure the safety of the sensitive wildlife species. Any sensitive species observed shall be reported to the California Natural Diversity Database (CNDDB).

1.22 Native Amphibian Eggs and Larvae. To the extent practicable, Permittee shall avoid the disturbance or destruction of native amphibian eggs and larvae.

1.23 Open Trenches/Entrapment. At the end of each work day, an escape ramp shall be placed at each end of any open trench or excavated pit to allow any animals in the trench or excavated pit to climb out. The ramp may be constructed of earthen fill, wood planking, or other suitable material that is placed at an angle

areas with potential for listed species.

no greater than 30 degrees. If an escape ramp is not feasible, other appropriate wildlife exclusionary devices shall be employed to avoid entrapping wildlife.

Vegetation Removal

1.24 Vegetation Removal by Category. Vegetation removal, after appropriate biological surveys, is proposed as follows:

Category 1 channels may be cleared of all vegetation.

Category 2 and 3 channels may be cleared of vegetation as follows:

a. Native vegetation removed from Category 3 channels shall not exceed the minimum necessary to complete the identified activities for each maintenance activity.

b. Vegetation removal in Category 2 and 3 channels shall be conducted in a non-continuous manner, as feasible, allowing small patches of in-channel vegetation to persist provided it will not adversely affect conveyance capacity.

c. When vegetation removal is deemed necessary, mowing and/or trimming of vegetation, or herbicide treatment, if necessary, shall be done in such a manner as to maintain soil stability.

d. Permittee shall avoid removal of emergent herbaceous vegetation (non-invasive) on the channel bottom that is rooted in or near the low flow channel and ponds to provide cover for aquatic wildlife, where feasible. Native non-woody vegetation that does not interfere with designed flood control capacity shall be allowed to grow between sediment removal activities within Category 2 and 3 channels. If necessary to alleviate flood risk between sediment removal activities, native non-woody vegetation may be cut down to a level above the water line or root zone, or treated if necessary.

e. No living native woody vegetation with a DBH of three inches or greater shall be removed or damaged without prior approval from the resource agencies.

f. Appropriate precautions shall be taken to avoid inadvertent damage to native vegetation by people or equipment.

Category 4 and 5 channels may be cleared of vegetation as follows:

a. Native vegetation removed from Category 4 and 5 channels shall not exceed the minimum necessary to complete the identified activities for each maintenance activity.

b. Vegetation removal may be allowed for permanent or temporary impacts less than 0.05 acre per 500 linear feet, or as otherwise approved by the resource agencies. The Annual Work Plan will present the proposed maintenance activity along with a letter report describing the mitigation approach proposed (see Restoration and Monitoring Plan). Category 5 vegetation will be replaced at a minimum 1:1 ratio, or as otherwise agreed to by the resource agencies, and will require follow-up monitoring for three to five years as described in the letter report describing active restoration activities. Alternative mitigation approaches (e.g., non-native vegetation removal) may be considered with approval by the resource agencies.

c. When vegetation removal is deemed necessary, clearing and/or trimming of vegetation, or herbicide treatment, if necessary, shall be done in such a manner as to maintain soil stability.

d. Permittee shall avoid removal of woody native vegetation to provide cover for wildlife, where feasible. Native non-woody vegetation that does not interfere with designed flood control capacity shall be allowed to grow between sediment removal activities within Category 4 and 5 channels. If necessary to alleviate flood risk between sediment removal activities, native non-woody or woody vegetation may be cut down to a level above the water line or root zone, or treated as necessary.

e. No living native woody vegetation with a DBH of three inches or greater shall be removed or damaged without prior approval from the resource agencies.

f. Appropriate precautions shall be taken to avoid inadvertent damage to native vegetation by people or equipment.

1.25 Removal and Disposal of Non-Native Vegetation. Non-native vegetation removed from work areas shall be disposed of legally in a manner which prevents its re-establishment and in a manner that does not negatively affect other native habitat communities.

1.26 Fire Safety Vegetation Removals. Appropriate setbacks from structures and tree removals as required by the fire authority should be maintained.

1.27 Maintenance Access Roads/Ramps. Permittee may remove sparse native vegetation, fallen trees, and branches from existing maintenance access roads and existing access ramps. Minor pruning of native trees and brush growing on the stream side slope of access roads is acceptable; pruning shall be limited to the removal of vegetation that interferes with vehicle access/visual survey along existing access roads, or to return the road to its as-built width and condition.

1.28 Herbicides – General. Only herbicides containing a harmless dye and registered with the California Department of Pesticide Regulation (DPR) shall be used. All herbicides shall be applied in accordance with regulations set by DPR. All herbicides shall be used according to labeled instructions. Herbicide mixing sites shall only be located in designated maintenance areas that are devoid of vegetation, and where there is no potential of a spill reaching a vegetated area or stream. Herbicides will not be applied within two days of a predicted rain event.

1.29 Vehicle-Based Herbicide Sprayers. Where a flood channel is designed to convey storm flows with minimal or no vegetation, vehicle-based sprayers or boom trucks may be used to treat native and non-native vegetation. Vehicle-based sprayer may be used only on existing roads or the margins of unvegetated channels and where non-native vegetation is growing in large clumps with no perennial native woody vegetation within 10 feet (unless the hose attachment is used by pedestrian crews and can specifically target non-native species). Herbicide applied via vehicle-based sprayers shall not damage native woody vegetation unless

required for flood conveyance/capacity purposes. Herbicides will not be applied within two days of a predicted rain event.

1.30 Backpack Herbicide Sprayers. Backpack sprayers or hose attachments used by pedestrian crews that can target specific non-native species shall be used in all situations where non-native vegetation exists within 10 feet of native vegetation that will be preserved. The application of herbicides shall be conducted in such a manner to minimize overspray of herbicide onto native vegetation. Herbicide shall be applied only on calm (non-windy) days to prevent airborne transfer of the herbicide. Any native vegetation inadvertently damaged during herbicide application shall be left to re-sprout. Herbicides will not be applied within two days of a predicted rain event.

1.31 Native Vegetation Intermixed with Non-Native Vegetation. In areas where native vegetation is intermixed with invasive vegetation (e.g., isolated stands of giant reed, *Arundo*, among native species), invasive vegetation shall be removed using
hand-operated tools or by using the hose attachment of a vehicle-based sprayer.

1.32 Allow Vegetation to Grow. Between treatment cycles, vegetation (non-woody) should be allowed to grow and provide interim habitat for wildlife species. When native vegetation (woody or non-woody) is allowed to periodically grow in flood channels between maintenance events, there will be no mitigation requirement when vegetation needs to be maintained or removed for flood conveyance/capacity.

Temporary Impacts

1.33 Passive Restoration for Temporary Impacts (Category 2, 3, and 4 Channels). For maintenance activities in Category 2, 3, and 4 channels that result in the temporary disturbance to native riparian vegetation, Permittee shall allow for revegetation through passive restoration where root systems remain intact.

1.34 Monitoring of Passive Restoration. Per the Restoration and Monitoring Plan, a one-year follow-up visit shall be conducted to monitor the recovery of native vegetation within the temporary impact area. If passive restoration is occurring naturally (i.e., percent cover of native species is similar to pre-maintenance conditions [within approximately 10 percent cover]), no further monitoring will be needed. If recovery of vegetation appears stunted, the Permittee will prepare a brief memo or letter report describing the recommended restoration activities and follow-up monitoring requirements. No planting/seeding would be required for Category 2 channels (or Category 4 that would otherwise be categorized as Category 2 except for Special Conditions).

1.35 Active Restoration of Temporary Impacts to Category 5 Channels and Permanent Impacts to Category 2, 3, 4, or 5 Channels. For maintenance activities in Category 5 channels that result in vegetation removal less than 0.05 acre per 500 linear feet, or as otherwise agreed to by the resource agencies, the Annual Work Plan will present the proposed maintenance activity along with a letter report describing the mitigation approach proposed (see Restoration and Monitoring Plan). Category 5 vegetation will be replaced at a minimum 1:1 ratio,

or as otherwise agreed to by the resource agencies, and will require follow-up monitoring for three to five years as described in the letter report describing active restoration activities. At the completion of the monitoring period, the restoration site shall have received no supplemental watering for a period of 2 consecutive years. Alternative mitigation approaches (e.g., non-native vegetation removal) may be considered with approval by the resource agencies. If the restoration fails to meet the established success criteria after the maintenance and monitoring period, maintenance and monitoring will extend beyond designated monitoring period until the criteria are met or unless otherwise approved by the resource agencies.

1.36 Annual Monitoring Reports for Active Restoration. Mitigation, maintenance, and monitoring reporting for each active restoration area shall be submitted with the Annual Report as described in the Restoration and Monitoring Plan until the area has met performance criteria. Monitoring reports shall include, but not be limited to, the following:

a. Identifying specific restoration site boundaries and the time period that the monitoring report is applicable;

b. A list of names, titles, and companies of all persons who prepared the content of the annual report and participated in monitoring activities;

c. Methods used to assess achievement of success criteria;

d. Relevant data summarizing the site's achievement of success criteria;

e. Progress photographs taken from the same vantage point as baseline photographs; and

f. Detailed remedial maintenance to be performed (if applicable).

If the restoration area has failed to meet success criteria after five years, the Permittee shall develop an alternative mitigation strategy, including but not limited to alternative restoration sites, the purchase of credits from approved mitigation banks or in-lieu fee programs, and/or removal of non-native vegetation.

Structures

1.37 Repair to Existing Bank Protection. Permittee may repair damage to existing bank protection structures such as riprap or concrete lining. These activities are described in Table 3 of the Project Description. Such repair shall employ the same type of material used in the original construction or existing conditions and shall occur only in the locations of existing bank protection. Exceptions to this requirement are included in the Maintenance Program Project Description and involve the use of bioengineered solutions and modification/addition of riprap to earthen slopes for erosion protection. Repair work that does not return the channel to as-built condition shall be limited to only the amount necessary to complete the needed repair/improvement. For work that modifies the as-built condition, the plans and specifications shall be presented at the Annual Work Plan meeting for resource agency review and approval. The temporarily impacted area shall be passively or actively restored and monitored according to the Restoration and Monitoring Plan and all measures in this agreement.

1.38 Grouted RipRap and Gabions. Grouted riprap material to replace un-grouted riprap requires resource agency approval due to an increase of impervious space. Gabions also require resource agency approval for the replacement for any structure in the stream. However, removing grouted riprap or gabions, then replacing with
un-grouted riprap are authorized activities.

1.39 Rock Slope Protection. Un-grouted rock slope protection and energy dissipater materials shall consist of durable, clean rock sized and properly installed to resist washout. Rock slope protection shall be supported with competent bottom keyed into a footing trench with a depth sufficient to properly seat the footing course rock and prevent instability. Bioengineering techniques, including planting voids between rocks with riparian species native to the area or other similar solutions, may be used provided using bioengineering measures. Bioengineering methods will be provided in the Annual Work Plan for resource agency review and approval.

1.40 Remove Temporary Structures Before High Water Flow. Temporary structures and associated materials not designed to withstand high water flows shall be moved to areas above high water before such flows occur.

Dewatering and Temporary Diversions

1.41 Diversion Plan. No equipment shall be operated in ponded or flowing areas to the maximum extent practicable, unless the activity has no effect to water quality or habitat as described in the Annual Work Plan. When work in a flowing stream is unavoidable, the entire stream flow may be diverted around the work area by a barrier, temporary culvert, new channel, or other means approved by the resource agencies. Location of the upstream and downstream diversion points shall be approved by the resource agencies. Construction of the barrier and/or the new channel shall normally begin in the downstream area and continue in an upstream direction, and the flow shall be diverted only when construction of the diversion is completed. Channel bank or barrier construction shall be adequate to prevent seepage into or from the work area. Diversion berms shall be constructed of onsite soils, inflatable dams, coffer dams, biodegradable sand/gravel bags, or other suitable materials. The diversion shall be removed when the work is completed, and removal shall normally proceed from downstream in an upstream direction. Permittee shall submit a Dewatering and Diversion Plan and an Erosion and Sediment Control Plan for approval from the resource agencies with the Annual Work Plan or prior to each diversion. Separate De Minimis authorization from the Regional Waterboard will be followed when required.

1.42 Maintain Flows. Flow diversions shall be done in a manner that shall prevent pollution and/or siltation and which shall provide flows to downstream reaches. Flows to downstream reaches shall be provided during all times that the pre-existing flow would have supported aquatic life. Downstream flows shall be conveyed consistent with existing conditions at the time of the maintenance activity so as to support the currently occurring aquatic life both above and below the diversion. Diversions shall be engineered, installed, and maintained to assure resistance to washout and erosion of the stream bed and banks. Normal

flows shall be restored to the affected stream immediately upon completion of work at that location.

1.43 Pump Intakes. Pump intakes placed in any stream water shall be fitted with 1/8-inch or smaller mesh screens to prevent harm to wildlife.

1.44 Excavation Dewatering. If an excavation site must be dewatered, any muddy, or otherwise contaminated, water shall be pumped into a holding facility or into a settling pond located in flat stable areas outside of the stream channel or pumped up on a stable grassy area where the water clears prior to flowing back into the stream.

1.45 Stranded Aquatic Life. Permittee shall check daily for stranded native aquatic life as the water level in the dewatering area drops. All reasonable efforts shall be made to capture and move all stranded native aquatic life observed in the dewatered areas. Capture methods may include fish landing nets, dip nets, buckets, and by hand. Captured native aquatic life shall be released immediately in the closest body of water to the work site. This measure does not allow for the take or disturbance of any sensitive species.

1.46 Rewatering. Permittee shall take appropriate measures to contain sediment and reduce stream turbidity when a work area is rewatered. Permittee shall install an appropriate sediment control device downstream of the work area to contain sediment.

Erosion and Turbidity

1.47 Prepare Erosion Control Plan. Permittee shall submit (E-mail is sufficient) an Erosion Control Plan (ECP) for the Maintenance Program to the resource agencies for approval along with the Annual Work Plan or prior to the commencement of maintenance activities. The ECP shall include performance standards, monitoring and reporting programs, and corrective actions to be taken if necessary. The ECP shall be implemented by Permittee before, during, and at the completion of maintenance activities. The ECP shall be approved by the resource agencies prior to commencement of maintenance activities (preferably with the Annual Work Plan).

1.48 Contaminated Water. Water containing mud, silt, or other pollutants used during maintenance activities shall not be allowed to enter a flowing stream or placed in locations that may be subjected to high storm flows.

1.49 Minimize Turbidity and Siltation. Permittee shall take precautions to minimize turbidity and siltation during and after maintenance activities. Precautions shall include but are not limited to: pre-construction planning to identify site specific turbidity and siltation minimization measures and best management erosion control practices; best management erosion control practices during maintenance activities; and settling, filtering, or otherwise treating silty and turbid water prior to discharge into a stream or storm drain.

1.50 Silt Settling Barriers. If silt catchment barriers are used, the basin(s) shall be constructed across the stream immediately downstream of the work area. Catchment barriers shall be constructed of materials which are free from mud

and silt. Upon completion of the maintenance activity, all basin materials along with the trapped sediments shall be removed from the stream in such a manner that does not introduce sediment to the stream.

1.51 Erosion Control Measures. Permittee shall utilize erosion control measures throughout all phases of maintenance activities where sediment runoff from exposed slopes threatens to enter the stream.

1.52 Erosion Control Monitoring. Permittee shall monitor erosion control measures before, during, and after each storm event and repair and/or replace ineffective measures immediately.

1.53 Turbidity Caused by Natural Occurring Algae. When turbidity levels are high due to inherent algae that is not project-related, Total Suspended Solids laboratory tests may be substituted.

Existing Bridges and Culverts

1.54 Bat Protection. Prior to maintenance activities that would remove trees suitable for bat roosting or at any culvert, bridge, or other structure suitable for roosting bats, the trees/structures shall be surveyed by a qualified bat Biologist as described in the Special Conditions. If roosting bats are found, the procedures described in the Special Conditions, or other measures as approved by the resource agencies, shall be followed to avoid and minimize impacts on roosting bats.

1.55 Swallow Nesting at Bridges. Maintenance activities on existing bridges shall either occur outside of the swallow nesting period (i.e., March 15 through August 31), or the suitable bridge nesting habitat shall be netted by Permittee before initiation of the breeding season to prevent nesting. The netting shall remain in place until August 31 or until maintenance activities at the site are complete, after which the netting shall be removed. The netting shall be anchored such that swallows cannot attach nests to the structure through gaps in the net. If swallows begin building nests on the structure after net installation, the mud placed by the swallows shall be removed and the integrity of the net repaired. At no time shall an occupied nest be destroyed.

Flood Management Basins

1.56 Leave Vegetation on Basin Slopes. Permittee shall not remove vegetation on flood management basin slopes except as follows: (1) the vegetation is non-native; (2) shrubs and trees become hazards to the stability and function of the basin or preclude visual survey; (3) the vegetation/sediment meets or exceeds the 20 percent capacity line (or specific line designated by the approved Operation and Maintenance Manual) for specific facility; or (4) slope maintenance is required to correct rill erosion or other slope damage. Where native vegetation is allowed to periodically grow in basins, there will be no mitigation required when vegetation needs to be maintained or removed for flood conveyance/capacity.

1.57 Leave Patches of Vegetation in Basin. Permittee shall minimize native vegetation removal or reduction from flood management basins to the least

amount necessary to achieve the specific maintenance objectives for the site. When feasible, native vegetation removal (excludes herbicide treatments) shall be conducted in a
non-continuous manner, allowing small patches of native vegetation to persist, provided that it would not adversely affect conveyance capacity. Where native vegetation is allowed to periodically grow in basins, there will be no mitigation required when vegetation needs to be maintained or removed for flood conveyance/capacity.

1.58 Herbaceous Vegetation Avoidance Between Sediment Removal Activities. Permittee shall avoid removal or reduction of emergent herbaceous vegetation within flood management basins to provide cover for wildlife, where feasible. Native non-woody vegetation that does not interfere with designed flood management capacity shall be allowed to grow between sediment removal activities within flood management basins. If necessary to alleviate flood risk between sediment removal activities, native non-woody vegetation may be cut down to a level above the root zone. Where native vegetation (woody or non-woody) is allowed to periodically grow in basins, between maintenance events, there will be no mitigation required when vegetation needs to be maintained or removed for flood conveyance/capacity.

Equipment and Access

1.59 Avoid Road Base Discharge. Permittee shall implement appropriate best management practice measures to prevent the discharge of road base, fill, sediments, and asphalt beyond a previously established road when working near channels or flood management basins.

1.60 Equipment Access. Access to the work site shall be via existing roads and access ramps. If no ramps are available in the immediate area, a temporary ramp may be constructed within the project work area. Any temporary ramp shall be removed upon completion of maintenance activities.

1.61 Speed Limit. A 15-mile per hour speed limit shall be observed on dirt access roads to reduce dust and allow reptiles and small mammals to move out of the way of vehicles and/or to allow vehicle drivers the ability to slow down to allow wildlife to move off the road.

1.62 Excavation Equipment. Prior to working within the bed, bank, or channel of the stream, all equipment shall be closely examined for oil and fuel discharges. Any contaminants shall be cleaned prior to any work and all equipment shall be examined daily for new oil and fuel discharges and cleaned as needed. Ground protection pads shall be required for any construction vehicles stored overnight adjacent to waters of the United States.

1.63 Wildlife Sheltered in Construction Material. All sections of pipe shall be visually checked for the presence of wildlife sheltering within them prior to the pipe sections being placed in a trench and attached together or shall have the ends capped while stored on site to prevent wildlife from entering the pipes. After attachment of the pipe sections to one another, whether in the trench or not, the exposed end(s) of the pipeline shall be capped at the end of each day during

maintenance activities to prevent wildlife from entering and being trapped within the pipeline. Any pipe or post installed vertically as a part of the maintenance activity shall not have an exposed opening at the top. Any opening shall be capped or otherwise permanently covered.

Fill and Spoil

1.64 Alluvium Fill. Fill materials other than on-site alluvium shall consist of clean gravel or river rock.

1.65 Cover Spoil Piles. Permittee shall have readily available plastic sheeting to cover exposed spoil piles and exposed areas to prevent loose soil from moving into the stream. These covering materials shall be applied when it is evident rainy conditions threaten to erode loose soils into the stream.

1.66 Temporary Stockpiles. Temporary stockpiles located near channels or flood management basins shall be stabilized by compacting or other measures if present near the stream from December 1 to April 1. Silt fences, berms, or other methods shall be used to prevent sediment from being eroded from the temporary stockpile into the stream. Temporary stockpiles may be placed in channel bottoms or flood management basins only if they are located on barren soil or areas with only non-native vegetation and are not placed in such a manner that they would be exposed to flowing water. All temporary stockpiles within the bed or banks of the channel shall be removed from the stream before a storm event or other anticipated flows.

Pesticides, Pollution, Litter, and Clean-Up

1.67 Rodent Control. Rodent control rodenticides are known to cause secondary exposure to non-target wildlife. Permittee shall use rodent control methods only as deemed necessary. A qualified Applicator shall apply the rodenticide in a manner specifically described on the product label and shall monitor the application areas until rodenticides are removed. The qualified Applicator shall conform to all applicable federal, State, and local regulations. If deemed appropriate, electronic traps or use of owl boxes to attract natural predators should be attempted as an alternative to the continued use of rodenticides. However, owl boxes shall not be installed in areas where rodenticides are actively being used.

1.68 Insect Control. Insecticides shall be applied only when necessary by licensed personnel according to product label instructions and in compliance with all local, State, and federal regulations. Proper applications maximize a product's effectiveness while avoiding or minimizing any adverse impacts to the public fish and wildlife resources.

1.69 Concrete. Permittee shall implement appropriate waste management practices during concrete repair or replacement. Waste management practices shall be applied to the stockpiling of concrete, curing and finishing of concrete, as well as to concrete wash-out operations. Waste management practices shall be adequate to ensure that fluids associated with the curing, finishing, and wash-out of concrete shall not be discharged to the channel or flood management

basin. Concrete waste shall be stockpiled separately from sediment and protected by erosion control measures so that concrete dust and debris are not discharged into the channel or flood management basin. Permittee shall determine the appropriate waste management practices based on considerations of expected flow velocities, site conditions, and availability of erosion control materials.

1.70 Litter and Pollution. Permittee shall comply with all litter and pollution laws. All contractors, subcontractors, and employees shall also obey these laws, and it shall be the responsibility of the Permittee to ensure compliance.

1.71 Secure Trash Receptacles. Permittee shall use fully covered trash receptacles with secure lids (wildlife proof) to contain all food, food scraps, food wrappers, beverages, and other miscellaneous trash.

1.72 Stationary Equipment. Stationary equipment such as motors, pumps, generators, and welders located within or near the stream shall be positioned over drip pans. Stationary heavy equipment shall have suitable containment to handle a catastrophic spill/leak.

1.73 Equipment Maintenance and Fueling. No equipment maintenance or fueling shall be done within or near any stream channel where petroleum products or other pollutants from the equipment may enter these areas.

1.74 Equipment and Vehicle Spills and Contaminants. Any equipment or vehicles driven or operated within or near the stream shall be checked daily, to prevent leaks of materials that if introduced to water could be deleterious to aquatic life. Permittee shall maintain all vehicles and equipment in proper working condition to minimize fugitive emissions and accidental spills from motor oil, antifreeze, hydraulic fluid, grease, and other fluids or hazardous materials. All fuel or hazardous waste leaks, spills, or releases shall be stopped or repaired immediately and cleaned up at the time of occurrence. Permittee shall be responsible for spill material removal and disposal to an approved offsite landfill and spill reporting to the resource agencies. Service construction equipment shall be stored in designated areas only. Maintenance vehicles shall carry appropriate equipment and materials to isolate and remediate leaks or spills. A spill containment kit shall be available on site for all maintenance activities.

1.75 Site Cleanup. When operations are completed, any excess materials or debris shall be removed from the work area.

2. General Conditions for Covered Activities

The following general measures apply to any covered maintenance activity:

2.1 Category Evaluation. As part of preparing each Annual Work Plan (see Section 3.1 below), OCPW Operations and Maintenance will submit a written request to OCPW Regulatory Permits for maintenance projects deemed necessary within stream channels, containing the location and dimension of the channel, volume and type of materials proposed, and site photographs. A qualified Biologist will evaluate site for potential impacts to fish and wildlife resources, particularly those considered sensitive (concentrating on listed species); shall determine if the stream is in Category 1, 2, 3, 4,

or 5 based on the Category definitions provided in this permit (see Attachment A); and shall explain the rationale in the assessment form. If maintenance activities are proposed in Category 3, 4 or 5 channels, applicable measures will be identified by the qualified Biologist (see Special Conditions). If the activity would impact greater than 0.05 acre per 500 feet of Category 5 vegetation, or as otherwise agreed to by the resource agencies, the activity may not be authorized by this Maintenance Agreement and may be required to obtain a separate authorization. Impacts over 0.05 acres per 500 linear feet may be authorized with appropriate mitigation and minimization measures, at the discretion of the resource agencies, if the activity is determined otherwise consistent with the terms of the Maintenance Agreement.

2.2 Biological Surveys in Appropriate Habitat Prior to Maintenance Activities. Prior to any sediment removal, vegetation control (by herbicide application, mowing, or discing), or repair work in channels or flood management basins that contain habitat suitable for fish and wildlife resources (i.e., Category 2, 3, 4, or 5 channels), the Permittee shall conduct appropriate field investigations to determine if any sensitive species have the potential to occur. This information, including the name and contact information of the qualified Biologist, shall be submitted to the resource agencies with the Annual Work Plan.

2.3 Pre-Project Wildlife Habitat Surveys. At least thirty (30) days prior to the commencement of any regulated activity within Category 2, 3, 4, or 5 channels, Permittee shall have a qualified Biologist perform wildlife habitat surveys. Data collected during the surveys shall include the following: a written description of the general habitat types occurring within the channel, identification of observed wildlife species, a list of sensitive species with potential to occur on-site, and a list of any Special Conditions that would apply. This information, along with copies of field notes taken during the surveys, shall be made available upon request from the resource agencies. The document can be in memorandum format and provided via email.

2.4 Pre-Project Vegetation Mapping. At least thirty (30) days prior to the commencement of any regulated activity, the Permittee shall have a qualified Biologist map vegetation in the portion of the channel where maintenance activities are proposed. Data collected during surveys shall include the following: vegetation mapping of the channel, list of dominant plant species in each vegetation type, categorization of the channel based on definitions in this permit (see Attachment A) with justification for the finding, potential for sensitive species to occur on-site, and a list of any applicable Special Conditions that would apply. This information, along with copies of field notes taken during the surveys, shall be made available upon request from the resource agencies. The document can be in memorandum format and provided via email.

2.5 Photo-Documentation. Prior to commencement of work within the channel, Permittee shall take representative photographs of the proposed work area and associated habitat. Spatial information shall be provided with each photograph (photo point location). Upon completion of maintenance activities, Permittee shall photograph the work area from the same identified photo points, as described above. This information shall be made available to the resource agencies upon request.

3. Reporting Measures

Permittee shall meet all reporting measures described below and submit to the resource agencies per the dates listed below, as summarized in Attachment B.

3.1 Annual Work Plan. Permittee shall submit a Draft Annual Work Plan (AWP) to the resource agencies by May 1 of each year describing all maintenance projects proposed for the following year. The plan shall include the following information for each proposed work site:

a. Identification of the channel and specific location of the work area within the channel, including aerial views of the site;

b. Identification of channel categories within and adjacent to the work area;

c. Acreage of Category 3, 4, or 5 vegetation within the channel that would be impacted by the proposed maintenance activities;

d. Approximate volumes of types of material(s), that will be removed from and/or deposited within the channel;

e. Site-specific measures (i.e., Special Conditions) recommended by a qualified Biologist to be implemented prior to and during maintenance activities to avoid and minimize impacts to the extent practicable;

f. Pre-project photo-documentation; and

g. For Category 4 and 5 channels, the proposed restoration approach and a description of active restoration as described in the Restoration and Monitoring Plan.

Upon receipt of the Draft AWP, the resource agencies shall have 30 calendar days to respond with any objections they may have to the proposed maintenance activities or stream category determinations stated in the Draft AWP. Any maintenance activities or stream category determinations for which agency objections have not been resolved within 30 calendar days of receipt of the Draft AWP shall be omitted from the Draft AWP. OCPW shall issue to the resource agencies a Final AWP containing the maintenance activities and stream category determinations for which the resource agencies have no objections no earlier than 31 calendar days after the date of issuance of the Draft AWP but no later than June 14 of each year.

The Final AWP shall be authorized only after OCPW has obtained a formal response from the SWRCB. If the SWRCB has no objections to the Final AWP, SWRCB shall issue a Notice of Applicability (NOA) to OCPW verifying the acceptability of the Final AWP. If the SWRCB objects to one or more maintenance activities or stream category determinations, SWRCB shall issue a Notice of Exclusion (NOE) to OCPW documenting these objections. Any activities objected to in the NOE shall be excluded from the Authorized AWP. If the SWRCB does not issue an NOA or NOE to OCPW 60 calendar days after receipt of the Draft AWP, then OCPW may presume that SWRCB does not object to the AWP and may proceed with the activities included in the Final AWP.

Additional work within approved waterbodies or bridges can be added to the Final Annual Work Plan throughout the year, as needed, through written requests to the resource agencies. Agencies shall have 30 calendar days to respond with any objections they may have to the proposed additional maintenance activities or stream category determinations. If, after 30 calendar days, any agency has not responded to the request with questions or concerns, the activity will be deemed authorized and OCPW can proceed with the activity, as proposed, including implementation of proposed mitigation. If any agency objects to the additional activities within the first 30 days, OCPW and the agency will have a further 30 days to resolve concerns. If OCPW and the agency cannot agree on an acceptable solution, OCPW will withdraw the activity from the AWP.

Maintenance projects approved under an AWP are authorized for a period of 18 months from approval of the AWP to align with the County of Orange maintenance funding cycles, or until the expiration of the RGP. Work authorized, but not completed, within the period covered by an AWP must be reauthorized under a subsequent AWP.

3.2 Annual Report. Permittee shall submit an Annual Report to the resource agencies by September 1 of each year. The report shall include the following:

a. A list of completed maintenance projects, categorized by AWP approval year and including those added to the AWP over the year. The Annual Report shall verify that all maintenance activities were conducted in accordance with the applicable permit conditions, including implementation of applicable Special Conditions. If there were any differences between proposed impacts identified in the AWP versus actual impacts, the Annual Report shall explain the reason for the difference. Information included for completed maintenance projects shall include the same information required in the AWP (described above).

b. Pre-activity biological survey data (as described above) for maintenance activities included in the Annual Report.

c. Annual Monitoring Report that describes monitoring of passive and active restoration activities, list by AWP approval year. Monitoring reports shall include a description of the revegetation with respect to established performance criteria, representative photographs taken from designated photo points, remedial measures implemented, or planned to be implemented, if necessary, to ensure revegetation success. Annual Monitoring Reports for each applicable maintenance project shall be included in the Annual Report until the success criteria have been achieved.

d. For projects where compensatory mitigation was required, the Annual Report shall quantify the impacts to resources and list the approved mitigation ratio. Where mitigation has taken place at a mitigation bank, details of the secured bank credits will be included. Where mitigation has occurred at an off-site mitigation site, the Permittee shall demonstrate that a long-term protection mechanism has been placed over the mitigation site.

e. An evaluation of the success or failure of the avoidance and minimization measures implemented, and suggestions for improving them for future maintenance activities.

3.3 Notification Prior to Work. Covered maintenance activities identified in Table 3 of the Project Description, when performed within Category 1 and Category 2 channels, shall not require further notice to the resource agencies. Covered maintenance activities within Category 3, 4, or 5 channels require Permittee to notify the resource agencies, in writing, at least 30 days prior to initiation of maintenance activities. A notice to proceed would be required in writing (email or letter) from USACE for covered maintenance activities within a Category 3, 4, or 5 channels prior to regulated activities within waters of the United States.

3.4 Crossing Maintenance Report. When maintenance is proposed at a stream crossing or its associated structure(s), Permittee shall submit a Crossing Maintenance Report (CMR) to the resource agencies. The CMR shall be submitted at least 30 days prior to any work at the crossing. The CMR shall include the following: identification of proposed activities; existing conditions within the vicinity; information regarding previous Notifications or Notifications of Emergency Work near the stream crossing; recommended measures to protect fish and wildlife resources; a determination regarding the adequacy of the stream crossing to pass peak flows without increasing flow velocities; and information regarding the stream crossing's compliance with Fish and Game Code sections 5901 (fish passage) and 5937 (sufficient water for fish).

3.5 Sensitive Species Observations. Permittee shall be responsible for reporting all observations of Threatened/Endangered species or of species of special concern to CDFW's CNDDB within ten (10) days of sighting.

ATTACHMENT B-2

COUNTYWIDE SPECIAL CONDITIONS

SPECIAL CONDITIONS FOR THE COUNTYWIDE PERMIT

February 21, 2025

During preparation of the Annual Work Plan, a qualified Biologist will conduct a biological assessment survey to categorize channels as defined in the Project Description. Channels that are adjacent to sensitive habitats, or that have potential for sensitive species that require avoidance and minimization measures, are categorized as "Category 4 Channels", indicating that Special Conditions apply. Special Conditions are listed below and will be performed where applicable, as determined by the Biologist during the biological assessment survey. Additional avoidance and minimization measures may be offered in the Annual Work Plan due to unique project conditions and/or as requested by the regulatory agencies during the Annual Work Plan meeting.

INVERTEBRATE SPECIES

Crotch's Bumble Bee

If the Biological Survey determines that there is suitable habitat that could be occupied by Crotch's bumble bee, OC Public Works will implement the following measures[1] to avoid and minimize adverse effects as a result of maintenance activities:

A. To the extent possible, clearing/grubbing of potential Crotch's bumble bee habitat (e.g., coastal sage scrub, chaparral, or grassland/ruderal with flowering resources) will occur outside the Crotch's bumble bee active season (i.e., April 1 to August 31, or sooner if the Biological Monitor demonstrates to the satisfaction of the California Department of Fish and Wildlife [CDFW] that no active nests are present and adequate foraging resources remain in the immediate vicinity). Vegetation clearing will be monitored by a qualified Biologist.

B. To the extent possible, maintenance activities using mechanized equipment within 300 feet of potentially occupied coastal sage scrub, chaparral, or grassland/ruderal with flowering resources will occur outside the Crotch's bumble bee active season (i.e., April 1 to August 31, or sooner if the Biological Monitor demonstrates to the satisfaction of CDFW that no active nests are present and adequate foraging resources remain in the immediate vicinity).

C. If maintenance activities within potentially occupied habitat or maintenance activities using mechanized equipment within 300 feet of potentially occupied habitat during the active season cannot be avoided, then the following measures will be implemented:

    a. A qualified Biologist will conduct pre-construction surveys (i.e., three surveys conducted at least one week apart during the colony active period, April 1 through August 31) for Crotch's bumble bee and active nest burrows within 300 feet of maintenance activities. A Memorandum or Letter Report will be prepared and submitted to the CDFW to document the results of the pre-construction survey.

    b. Even if no Crotch's bumble bees were observed during the pre-construction surveys, if potentially occupied habitat is present, a Biological Monitor will be present during vegetation clearing and on-site daily during ground-disturbing activities that take place during the active season (i.e., February to October). No biological monitoring would be required if vegetation clearing or ground-disturbing occurs from November to January.

[1] It should be noted that the knowledge about the biology of this species is currently evolving. Survey techniques and avoidance and minimization measures may change over time; any variation from the measures listed here will be coordinated with CDFW during the Annual Work Plan meeting.

c. If Crotch's bumble bee is present, but no signs of an active nest burrow are present, then maintenance work may commence with Biological Monitoring for all work within potential habitat and all maintenance work using mechanized equipment within 300 feet of the occupied habitat. OC Public Works will submit the County's regulatory permit manager's contact information to the CDFW at least 7 days prior to initiating work in potential habitat.

d. Occupied habitat will be protected with stakes and rope, stakes and flagging, orange snow fencing, or other suitable fencing (i.e., highly visible and sturdy enough to withstand onsite conditions) to stop access by equipment and workers. Signs will be posted to indicate that the area is an "Environmentally Sensitive Area" and that no work activities will occur within the fencing. Any non-biodegradable fencing materials and signage will be removed following maintenance. The Biologist will conduct training to educate workers on the importance of Environmentally Sensitive Areas and to provide updates as needed.

e. The Biological Monitor will possess the ability to stop or pause work as needed to protect individuals from harm.

f. If an active Crotch's bumble bee nest is found within 300 feet of the proposed maintenance work area, OC Public Works (or their designee) will notify the CDFW and will provide the mapped location of the nest. No maintenance work will be allowed within 300 feet of an active Crotch's bumble bee nest until the nest is inactive, or until CDFW and OC Public Works agree on appropriate avoidance and minimization measures to allow work activities within 300 feet.

g. If Crotch's bumble bees are observed during the pre-construction survey, weekly surveys will be conducted throughout the colony active period (i.e., April 1 to August 31) to search for potential active burrows until maintenance work is completed or the colony active period has ended. Any nest burrows observed will be added as "Environmentally Sensitive Areas" and inactive "Environmentally Sensitive Areas" will be removed. Once maintenance work is in progress, weekly reports will be prepared as documentation.

h. Any impact to active burrow for Crotch's bumble bee will be reported to the CDFW within one business day of impact.

SPECIAL STATUS FISH SPECIES

If the Biological Survey determines that there is suitable habitat that could be occupied by special status fish species, OC Public Works will implement the following measures to avoid and minimize adverse effects as a result of maintenance activities that could affect in-stream habitat:

A. Prior to the initiation of maintenance, a one-visit focused survey for special status fish will be conducted by a qualified Biologist (i.e., one with experience surveying for special status fish that is approved by the USFWS and CDFW). If no special status fish are observed during the focused survey, and none are currently known to occur upstream or downstream of the work area, maintenance work can proceed as planned. A Letter Report will be prepared to document the results of the focused survey and will be submitted to the U.S. Fish and Wildlife Service (USFWS) and CDFW within 30 days of completion of the focused survey.

B. If any special status fish are observed during the focused survey, and/or if these species are currently[2] known to occur immediately upstream or downstream of the work area (even if they are not observed during the focused survey), a Relocation Plan will be prepared and submitted to the USFWS and CDFW for review and approval with the Annual Work

[2] Currently known includes observations from credible sources from within the last 10 years, or as otherwise agreed to by the resource agencies.

Plan or prior to maintenance. The Relocation Plan will describe the methodology that will be used to capture, handle, and relocate special status fish prior to maintenance activities that could affect in-stream habitat. The Relocation Plan will include a description of the habitat and potential food resources at the receptor site and will include a map of the receptor site. The USFWS and CDFW will approve the Relocation Plan prior to any relocation of special status fish.

C. Prior to the initiation of maintenance activities that could affect in-stream habitat, relocation will be carried out as described in the Relocation Plan. OC Public Works will submit the County's regulatory permit manager contact info to the USFWS and CDFW at least 7 days prior to initiating the relocation effort.

D. If any special status fish are observed during the focused survey, and/or if these species are currently[3] known to occur immediately upstream or downstream of the work area (even if they are not observed during the focused survey), a project-specific water diversion plan will be prepared to ensure special status fish species are excluded from the work area. A qualified Biologist (i.e., one approved by the USFWS and CDFW) will be present during installation of any water diversion used to ensure special status fish are properly excluded. A clearance sweep of the work area will be conducted by the Biologist through seining (or use of other appropriate nets) and any special status fish captured will be relocated to outside the work area by a qualified Biologist following the methodology outlined in the Relocation Plan. The Biological Monitor will possess the ability to stop or pause work as needed to protect individuals from harm. A Letter Report will be prepared to document the results of the pre-activity surveys and monitoring and will be provided to the USFWS and CDFW within 30 days of completion of the survey.

HERPETOFAUNA SPECIES

Listed or Proposed Listed Herpetofauna

If the Biological Survey determines that there are seasonal pools or in-stream habitat that could be occupied by listed or proposed listed herpetofauna based on the current[4] known range of the species (see Table 1), OC Public Works will implement the following measures to avoid and minimize adverse effects of maintenance activities:

[3] Currently known includes observations from credible sources from within the last 10 years, or as otherwise agreed to by the resource agencies.

[4] Currently known includes observations from credible sources from within the last 10 years, or as otherwise agreed to by the resource agencies.

TABLE 1
LISTED OR PROPOSED LISTED HERPETOFAUNA
SPECIES WITH SPECIAL CONDITIONS

Species	Habitat	Breeding Season	Pre-construction Survey Methods[1]
western spadefoot (*Spea hammondii*)	vernal pools, seasonal ponded areas, or slow-moving portions of streams with suitable upland habitat	December 31–March 31	three surveys (each including diurnal and nocturnal components) conducted in February to March, preferably following rain events
arroyo toad (*Anaxyrus californicus)*	rivers and creeks with sandy banks and suitable upland habitat; third order streams or higher	March 15–June 30	six visits (each including diurnal and nocturnal components) with at least one survey conducted in April, one in May, and one in June[2]
southwestern pond turtle (*Actinemys pallida*)	marshes, rivers, streams, and irrigation ditches, usually with aquatic vegetation, basking sites, and suitable upland habitat	April 15–September 15	five-day trapping session or two visual surveys (depending on water depth) conducted during the breeding season; with the last visual survey conducted within seven days of the initiation of maintenance

[1] Pre-construction surveys may be discontinued if the species is determined to be present during one of the visits and the Biologist is confident in the extent of the area occupied.
[2] Focused surveys were conducted throughout Santiago Creek and Upper Trabuco Creek and determined that arroyo toad is absent from these areas (ICF 2019).

A. Prior to the initiation of maintenance activities that could affect potentially occupied habitat, a pre-construction focused survey will be conducted by a qualified Biologist for listed or proposed listed herpetofauna following the newest approved protocol for the species (see Table 1). Alternatively, presence can be assumed if the area is already known to be occupied. If no listed or proposed listed herpetofauna species are observed during the pre-construction surveys, maintenance work can proceed as planned. A Letter Report documenting the results of the pre-construction survey will be submitted to the USFWS and CDFW within 30 days of completion of the pre-construction survey.

B. If any listed or proposed listed herpetofauna are observed during the pre-construction survey, or presence is assumed, a Relocation Plan will be prepared and submitted to the USFWS and CDFW for review and approval. The Relocation Plan will describe the methodology that will be used to capture, handle, and relocate the listed or proposed listed herpetofauna. The Relocation Plan will include a description of the habitat and potential food resources at the receptor site and will include a map of the receptor site. The USFWS and CDFW will approve the Relocation Plan prior to any relocation of any individuals.

C. Prior to the initiation of maintenance activities, relocation will be carried out as described in the Relocation Plan. OC Public Works will submit the County's regulatory permit manager's name to the USFWS and CDFW at least 7 days prior to initiating the relocation effort.

D. If no listed or proposed listed herpetofauna are observed during the pre-construction survey, then no exclusionary fencing will be required. If listed or proposed listed herpetofauna are observed during the pre-construction survey, exclusionary fencing will be installed around the perimeter of the work area (including the staging area) to prevent individuals from entering the work area. The exclusionary fencing will consist of silt fencing, buried at least 18 inches-deep and installed with no gaps; alternate fencing will

be approved by the USFWS and CDFW prior to installation of the fencing. Fencing will be installed under the supervision of a qualified Biologist to ensure that no listed or proposed listed herpetofauna are impacted during installation of the fence. Following installation of the exclusionary fencing, the qualified Biologist will conduct a clearance sweep of the area within the exclusionary fencing to ensure no listed or proposed listed herpetofauna or other wildlife species are trapped within the fenced area. The clearance survey will include diurnal and nocturnal components to ensure no individuals are trapped within the fenced area. If any listed or proposed listed herpetofauna are observed within the fenced area, the individuals will be relocated to outside the fenced area by a qualified Biologist.

E. During the vegetation clearing, the initial ground disturbance (i.e., removal of the first 12 inches of soil), and during installation of water diversion/bypass installation, a qualified Biologist (i.e., one approved to handle listed or proposed listed herpetofauna) will be present to search for these species. If any individuals are observed within the construction or staging areas, they will be relocated by a qualified Biologist (i.e., one approved to handle the species) to the approved relocation site.

F. During the last stages of dewatering, a qualified Biologist will conduct daily monitoring to search for listed or proposed listed herpetofauna.

E. The Biological Monitor will also conduct weekly monitoring throughout maintenance activities to ensure that species protective measures are in place and that no listed or proposed listed herpetofauna (i.e., adults, eggs, tadpoles, or juveniles) are within the work area. The Biological Monitor will possess the ability to stop or pause work as needed to protect individuals from harm.

G. During maintenance, if any listed or proposed listed herpetofauna are observed within the construction or staging areas, they will be relocated by a qualified Biologist (i.e., one approved to handle the species) to the approved relocation site.

H. Any non-biodegradable fencing materials and signage will be removed following maintenance.

Other Special Status Herpetofauna Species

If the initial biological assessment survey for the Annual Work Plan determines that there is suitable habitat that could be occupied by special status herpetofauna species, other than the listed or proposed listed species described above, OC Public Works will implement the following measures to avoid and minimize adverse effects as a result of maintenance activities that could affect potentially occupied habitat:

A. Prior to maintenance activities, a pre-construction clearance survey will be conducted immediately prior to activities to determine presence or absence of special status herpetofauna species. If no special status herpetofauna species are observed during the pre-construction clearance survey, work activities may proceed as planned. If any special status herpetofauna species are observed, they will be relocated by a qualified Biologist (i.e., one approved to handle special status herpetofauna species) to upstream or downstream beyond the impact area.

B. During maintenance activities, if any special status herpetofauna species are observed within the construction or staging areas, they will be relocated by a qualified Biologist (i.e., one approved to handle special status herpetofauna species) to upstream or downstream beyond the impact area.

AVIAN SPECIES

Listed or Proposed Listed Bird Species

If the Biological Survey determines that there is coastal sage scrub, riparian, or saltmarsh habitat that could be occupied by listed bird species (Table 2), OC Public Works will implement the following measures to avoid and minimize adverse effects as a result of maintenance activities:

TABLE 2
LISTED BIRD SPECIES WITH SPECIAL CONDITIONS

Species	Habitat[1]	Breeding Season	Pre-construction Survey Methods[2]
coastal California gnatcatcher (*Polioptila californica californica*)	coastal sage scrub	February 15–August 31	three surveys conducted at least one week apart with the last survey conducted within seven days of the initiation of maintenance
least Bell's vireo (*Vireo bellii pusillus*)	riparian scrub/forest/woodland	March 15–September 15	four visits one week apart with the last survey conducted within seven days of the initiation of maintenance
southwestern willow flycatcher (*Empidonax traillii extimus*)	riparian scrub/forest/woodland	March 15–September 15	five surveys conducted with the first survey conducted between May 15 and May 31; the second and third surveys between June 1 and June 24; and the fourth and fifth surveys between June 25 and July 17
western yellow-billed cuckoo (*Coccyzus americanus occidentalis*)	riparian scrub/forest/woodland	June 15–August 15	four surveys with the first survey conducted between June 15 and June 30; the second and third surveys between July 1 and July 31; and the fourth survey between August 1 and August 15
Belding's savannah sparrow (*Passerculus sandwichensis beldingi*)	saltmarsh with pickleweed	February 15–July 31	four visits one week apart with the last survey conducted within seven days of the initiation of maintenance

[1] For these measures to apply, habitat must be considered suitable by the occupation of these species as determined by a qualified Biologist during the initial assessment survey conducted prior to the Annual Work Plan.
[2] Pre-construction surveys may be discontinued if the species is determined to be present during one of the visits and the Biologist is confident in the extent of the area occupied.

A. To the extent possible, clearing/grubbing of coastal sage scrub, riparian, or saltmarsh habitat will occur outside the nesting season of listed bird species (see Table 2); however, it may occur sooner if the Biological Monitor demonstrates to the satisfaction of the USFWS and CDFW that all nesting is complete. Vegetation clearing of coastal sage scrub, riparian, or saltmarsh habitat will be monitored by a qualified Biologist approved by the USFWS and CDFW.

B. To the extent possible, maintenance activities using mechanized equipment within 300 feet of potentially occupied coastal sage scrub, riparian, or saltmarsh habitat will occur outside the nesting season of listed bird species (see Table 2); however, it may occur sooner if the Biological Monitor demonstrates to the satisfaction of the USFWS and CDFW that all nesting is complete.

C. If maintenance activities within suitable habitat or maintenance activities using mechanized equipment within 300 feet of potentially occupied habitat cannot be conducted outside the nesting season of listed bird species (see Table 2), the following measures will be implemented within 300 feet of potentially occupied coastal sage scrub, riparian, or saltmarsh habitat:

   a. A qualified Biologist approved by the USFWS and CDFW will conduct a pre-construction survey for the applicable special status bird species (see Table 2) within 300 feet of maintenance activities. A Memorandum or Letter Report will be prepared and submitted to the USFWS and CDFW to document the results of the pre-construction survey.

   b. If listed bird species are present, but no signs of nest-building or nesting are present, then maintenance work may commence with biological monitoring for all work within 300 feet of the occupied habitat, unless otherwise agreed to by the resource agencies. OC Public Works will submit the County's regulatory permit manager's contact information to the USFWS and CDFW at least 7 days prior to initiating work in coastal sage scrub, riparian, or saltmarsh habitat.

   c. If listed bird species were present during the pre-construction surveys, weekly surveys will be conducted to monitor the status of listed bird species nesting until maintenance work is completed or the nesting season has ended. As they are observed, new territories/nests will be added as "Environmentally Sensitive Areas" and inactive "Environmentally Sensitive Areas" will be removed. Once maintenance work is in progress, weekly reports will be prepared as documentation.

   d. Occupied coastal sage scrub, riparian, or saltmarsh habitat will be protected with stakes and rope, stakes and flagging, orange snow fencing, or other suitable fencing (i.e., highly visible and sturdy enough to withstand onsite conditions) to stop access by equipment and workers. Signs will be posted to indicate that the area is an "Environmentally Sensitive Area" and that no work activities will occur within the fencing. Any non-biodegradable fencing materials and signage will be removed following maintenance. The Biological Monitor will conduct training to educate workers on the importance of "Environmentally Sensitive Areas" and to provide updates as needed.

   e. If an active nest (including nest-building) of a listed bird species is found within 300 feet of the proposed maintenance work area, OC Public Works (or their designee) will notify the USFWS and CDFW and will provide the mapped location of the nest. No maintenance work will be allowed within 300 feet of an active nest of a listed bird species until the nest has fledged or failed, or until the USFWS, CDFW, and OC Public Works agree on appropriate avoidance and minimization measures to allow work activities within 300 feet.

   f. The Biological Monitor will possess the ability to stop or pause work as needed to protect individuals from harm.

   g. After the initial identification of the active nest, the Biologist will not approach within 25 feet of the active nest. Nest monitoring will occur with binoculars from outside of this distance and only to confirm that the nest remains active during maintenance activities.

   h. If no nesting activity is observed, the Biologist may approach the nest to determine the status of the nest. Binoculars should be used to the greatest extent practical to confirm individuals are no longer exhibiting breeding behaviors or tending to the nest prior to approaching the nest directly to determine the nest status.

   i. Any impact to active nests of listed bird species will be reported to the USFWS and CDFW within one business day of the impact.

D. Immediately prior to clearing/grubbing of coastal sage scrub and/or riparian habitat outside the nesting season of listed bird species (see Table 2), a qualified Biologist will perform pre-construction surveys immediately prior to the initiation of clearing/grubbing. If any listed bird species are found in the area where vegetation would be cleared, the Biologist will direct workers to begin clearing/grubbing in an area away from the individuals while the Biologist flushes the individuals toward areas of appropriate vegetation that will be avoided in an effort to minimize the potential for the individuals to be injured or killed by clearing/grubbing.

Burrowing Owl

If the initial biological assessment determines that there is appropriate habitat for burrowing owl based on its current known range[5], OC Public Works will implement the following measures to avoid and minimize adverse effects as a result of maintenance activities. Protective buffers recommended will follow recommendations in Table 3:

TABLE 3
BURROWING OWL PROTECTIVE BUFFER SIZES

		Level of Disturbance		
	Time of Year	**Low**	**Medium**	**High**
Nesting sites	April 1 to August 15	656 feet (200 meters)	1,640 feet (500 meters)	1,640 feet (500 meters)
Nesting sites	August 16 to October 15	656 feet (200 meters)	656 feet (200 meters)	1,640 feet (500 meters)
Nesting sites	October 16 to March 31	164 feet (50 meters)	328 feet (100 meters)	1,640 feet (500 meters)
Source: CDFW 2012				

A. To the extent possible, clearing/grubbing or other ground-disturbing activities within burrowing owl habitat will occur outside the burrowing owl breeding season (i.e., March 1 to August 31); however, it may occur sooner if the Biological Monitor demonstrates to the satisfaction of CDFW that all nesting is complete.

B. To the extent possible, maintenance activities using mechanized equipment within 300 feet of potentially occupied habitat will occur outside the burrowing owl breeding season (i.e., March 1 to August 31); however, it may occur sooner if the Biological Monitor demonstrates to the satisfaction of the CDFW that all nesting is complete. For work conducted during the wintering season, see "D." below.

C. If maintenance activities within potential habitat or maintenance activities with mechanized equipment within 300 feet of potential habitat cannot be conducted outside the burrowing owl breeding season (i.e., March 1 to August 31), the following measures will be implemented within 300 feet of potentially occupied burrowing owl habitat during the breeding season:

    a. A qualified burrowing owl Biologist approved by CDFW will conduct a pre-construction survey (i.e., four visits[6] one week apart with the last survey conducted within seven days of the initiation of maintenance) for burrowing owl and active burrows within 500 feet of maintenance activities (if access is available). A Letter Report will be prepared and submitted to CDFW within 30 days of the

[5] This measure is anticipated to be needed primarily for Orange County Flood Control District facilities at Prado Basin as burrowing owl is not currently known to nest in Orange County, although it may winter in a few locations within the County.

[6] Pre-construction surveys may be discontinued if the species is determined to be present during one of the visits and the Biologist is confident in the extent of the area occupied.

completion of surveys to document the results of the pre-construction survey. If any active burrows are observed, the Biologist will determine an appropriate protective buffer for the burrow based on CDFW (2012) guidelines (see Table 3 above).

b. If an active burrow is observed, OC Public Works (or their designee) will notify CDFW and will provide the mapped location of the burrow and its protective buffer. No maintenance work will be allowed within the determined protective buffer until the burrow is no longer active, or until CDFW and OC Public Works agree on appropriate avoidance and minimization measures to allow work activities closer than the determined protective buffer.

c. Occupied burrows and their protective buffers will be protected with stakes and rope, stakes and flagging, orange snow fencing, or other suitable fencing (i.e., highly visible and sturdy enough to withstand onsite conditions) to stop access by equipment and workers. Signs will be posted to indicate that the area is an "Environmentally Sensitive Area" and that no work activities will occur within the fencing. Any non-biodegradable fencing materials and signage will be removed following maintenance. The Biological Monitor will conduct training to educate workers on the importance of "Environmentally Sensitive Areas" and to provide updates as needed.

d. If an active burrow was present during the pre-construction survey, weekly surveys will continue throughout the nesting season to monitor the status of active burrows until maintenance work is completed or the nesting season has ended. As they are observed, new active burrows will be added as "Environmentally Sensitive Areas" and inactive "Environmentally Sensitive Areas" will be removed. Once maintenance is in progress, weekly reports will be prepared as documentation.

e. The Biological Monitor will possess the ability to stop or pause work as needed to protect individuals from harm.

f. After the initial identification of the active burrow, the Biologist will not approach within 25 feet of an active burrow. Monitoring will occur with binoculars from outside of this distance and only to confirm that the burrow remains active during maintenance activities.

g. If no nesting activity is observed, the Biologist may approach the burrow to determine the status of the burrow. Binoculars should be used to the greatest extent practical to confirm the burrow is no longer active.

h. Any adverse impact to active burrowing owl burrows will be reported to CDFW within one business day of impact.

i. If time lapses of greater than 30 days occur during maintenance in a particular portion of the work area, an additional survey will be conducted by a qualified Biologist within 24 hours prior to vegetation clearing and/or ground disturbance in that area. If any new burrowing owl burrows are observed, the conditions above will be applied.

D. For maintenance work conducted within potentially occupied habitat or maintenance work using mechanized equipment within 300 feet of potentially occupied habitat during the burrowing owl wintering season (i.e., September 1 to February 28), the following measures will apply during the wintering season:

a. A qualified Biologist approved by CDFW will conduct a pre-construction survey (i.e., one visit conducted within 30 days of the initiation of maintenance) to search for active wintering burrows within 500 feet of maintenance activities (if access is available). A Letter Report will be prepared and submitted to CDFW within 30 days of the completion of surveys to document the results of the pre-construction survey. If any active burrows are observed, the Biologist will determine an

appropriate protective buffer for the burrow based on CDFW (2012) guidelines (see Table 3 above).

b. If an active burrowing owl wintering burrow is observed, no maintenance work will be allowed within the determined protective buffer until the burrow is no longer active, or until CDFW and OC Public Works agree on appropriate avoidance and minimization measures to allow work activities closer than the determined protective buffer.

c. If an active wintering burrow is observed and it cannot be avoided, the burrowing owl will be passively excluded from the burrow following methods described in CDFW (2012) guidelines. One-way doors will be used to exclude owls from the burrows; doors will be left in place for at least 48 hours. Once the burrow is determined to be unoccupied, the burrow will be closed by a qualified Biologist who will excavate the burrow using hand tools. Prior to excluding an owl from an active burrow, a receptor burrow survey will be conducted to confirm that at least two potentially suitable unoccupied burrows are within approximately 688 feet prior to installation of the one-way door. If two natural receptor burrows are not located, one artificial burrow will be created for every burrow that would be closed.

d. Occupied burrowing owl burrows and their protective buffers will be protected with stakes and rope, stakes and flagging, orange snow fencing, or other suitable fencing (i.e., highly visible and sturdy enough to withstand onsite conditions) to stop access by equipment and workers. Signs will be posted to indicate that the area is an “Environmentally Sensitive Area” and that no work activities will occur within the fencing. Any non-biodegradable fencing materials and signage will be removed following maintenance. The Biological Monitor will conduct training to educate workers on the importance of “Environmentally Sensitive Areas” and to provide updates as needed.

e. If burrowing owl were present during the pre-construction surveys, weekly surveys will continue to monitor the status of active burrows until maintenance work is completed or the burrow is no longer active. As they are observed, new active burrows will be added as “Environmentally Sensitive Areas” and inactive “Environmentally Sensitive Areas” will be removed. Once maintenance work is in progress, weekly reports will be prepared as documentation.

f. The Biological Monitor will possess the ability to stop or pause work as needed to protect individuals from harm.

g. After the initial identification of the active wintering burrow, the Biologist will not approach within 25 feet of an active burrow. Burrow monitoring will occur with binoculars from outside of this distance and only to confirm that the nest remains active during maintenance activities.

h. If no burrowing owl activity is observed, the Biologist may approach the burrow to determine the status of the burrow. Binoculars should be used to the greatest extent practical to confirm individuals are no longer occupying the burrow prior to approaching the burrow to determine the nest status.

i. Any impact to active burrowing owl burrows will be reported to CDFW within one business day of impact.

j. If time lapses of greater than 30 days occur during maintenance in a particular portion of the work area, an additional pre-construction survey will be conducted by a qualified Biologist within 24 hours prior to vegetation clearing and/or ground disturbance in that area. If any new burrowing owl burrows are observed, the conditions above will be applied.

ROOSTING BATS

If the Biological Survey determines that there are structures or trees suitable for bat roosting that could be impacted by maintenance activities, OC Public Works will implement the following measures to avoid and minimize adverse effects of maintenance activities:

A. If structures that have potential for roosting bats would be affected or if trees suitable for roosting would be removed or trimmed, a pre-construction roosting bat survey (including both day and evening efforts) will be conducted by a qualified Biologist within two weeks prior to the initiation of maintenance activities to ensure that no active day-roosts would be impacted. The day survey will involve inspecting the structures for sign of bat roosting. The evening survey will involve monitoring each potential roost site for evening emergence, conducting exit counts, and acoustic monitoring (from a half an hour before sunset to at least one hour after sunset) near potential roosts. In addition to the evening survey, if desired by the qualified Biologist, a dawn survey can be conducted to monitor each potential roost site for bats returning to roosts, and acoustic monitoring (from at least one hour before sunrise to a half hour after sunrise). If active bat day-roosts occur within a structure that would be impacted, bat exclusion devices will be installed under the supervision of a qualified Biologist prior to the start of maintenance activities.

B. If active bat day-roosts occur within structures proposed for removal/repair, then exclusionary measures, such as barriers with one-way doors or permanent exclusion (e.g., caulking or wire mesh), will be installed under the supervision of a qualified Biologist.

C. If active bat day-roosts occur within trees proposed for removal or trimming, tree removal/trimming will occur under the supervision of a qualified Biologist. If the tree will be removed, the removal will occur during the non-maternity season (i.e., September 1 through March 31) and will utilize phased tree trimming (i.e., removing branches, lowering them gently to the ground, and leaving them on the ground overnight, then removing the tree trunk the next day).

D. The Biological Monitor will possess the ability to stop or pause work as needed to protect individuals from harm.

NATIVE TREES

If the Biological Survey determines that there are mature native trees within 50 feet of the work area that could be inadvertently impacted by maintenance activities due to their proximity to work areas (assuming no existing access roads are present where maintenance work would occur), OC Public Works will implement the following measures to avoid and minimize adverse effects of maintenance activities:

A. Coast live oak and western sycamore trees to be preserved that are located within 50 feet of work areas will be protected with stakes and rope, stakes and flagging, orange snow fencing, or other suitable fencing (i.e., highly visible and sturdy enough to withstand onsite conditions) to stop access by equipment and workers. The fencing will be placed at 1.5 times the dripline/root protection zone (defined as the outer canopy edge, at least 15 feet from the trunk). These areas will be labeled as “Tree Protection Areas” and will be regarded as Environmentally Sensitive Areas. If an existing access road is within the Tree Protection Area, the Tree Protection Area may be adjusted to allow for access along the existing roadway. Any non-biodegradable fencing materials and signage will be removed following maintenance.

B. Stockpiling of materials or vehicle operation will be prohibited within the Tree Protection Areas. If a Tree Protection Area has been adjusted to allow for an existing access road, no stockpiles or materials will be allowed within 1.5 times the dripline/root protection zone of the tree. If it is unavoidable to track equipment within the dripline of a native tree,

root protection measures will be implemented, including but not limited to placing plywood sheets over roots.

C. Limbs of coast live oak and western sycamore trees can be pruned, if necessary, to allow construction equipment access. Small branches (i.e., less than three inches diameter) can be trimmed without the supervision of a Certified Arborist if less than ten percent of the total canopy would be removed. If larger branches need to be removed or if more than ten percent of the total canopy would be affected, these activities will be approved and supervised by a Certified Arborist.

D. Changes to the drainage patterns in the areas surrounding a Tree Protection Area will be avoided (e.g., excess water should not drain to native trees), unless otherwise approved by a Certified Arborist.

E. Any activities (e.g., vehicle operation) occurring within a Tree Protection Area will be coordinated with a Certified Arborist to ensure that activities would not affect the health of the tree(s).

F. The on-site pre-construction worker environmental awareness program training will inform construction personnel of tree restrictions prior to the initiation of work.

G. The Biological Monitor will possess the ability to stop or pause work as needed to protect native trees from harm.

If less than five native trees, each greater than three inches and less than eight inches diameter at breast height (DBH)[7], would need to be removed, replacement trees will be planted nearby at a location approved by a qualified Biologist. The native trees impacted will be replaced at a 2:1 ratio using cuttings or container plants of the same species; alternative approaches (e.g., use of acorn planting to replace small oak trees) must be described in a letter report with detailed methods.

If any native trees greater than eight inches DBH would need to be removed, the Annual Work Plan will present the replacement planting plan in a letter report describing active restoration activities for the maintenance project (see Restoration and Monitoring Plan). Native trees with eight inches or greater DBH will be replaced at a minimum 3:1 ratio, or as otherwise agreed to by the resource agencies, and will require follow-up monitoring for three to five years as described in the letter report describing active restoration activities. Alternative mitigation approaches (e.g., non-native mitigation removal) may be considered with approval by the resource agencies.

[7] The DBH of the tree will include the total of the largest two trunks.

ATTACHMENT C

COUNTYWIDE PERMIT

REPORTING SCHEDULE

Table C-1

Countywide Permit Reporting Schedule

Activity	Schedule
OC Public Works identifies upcoming maintenance projects for internal review	February–March
Biological surveys of proposed upcoming maintenance projects/Annual Work Plan prepared	April
Draft Annual Work Plan submitted to Resource Agencies for review	May 1st
Annual Work Plan Meeting with Resource Agencies	Mid–May
Resource Agencies provide comments on Draft Annual Work Plan	May 31st
Final Annual Work Plan submitted to Resource Agencies	June 14th
Maintenance Projects Begin	July 1st
One Year Follow-up Monitoring of Passive Restoration	12 months following completion of maintenance activity
Follow-up Monitoring for Active Restoration	As described in Restoration Recommendations Letter/Restoration Plans
Annual Report for maintenance projects completed from the prior year's Annual Work Plan (July 1–June 30) and any carryover projects from prior years	September 1st
Annual Monitoring Report (attached to the Annual Report)	September 1st