Appendix J:

Drainage and Water Quality

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PRELIMINARY DRAINAGE & WATER QUALITY SUMMARY SOUTHEASTERN SAN DIEGO AND ENCANTO NEIGHBORHOODS COMMUNITY PLAN UPDATES CITY OF SAN DIEGO, CA PROJECT NO. 386029, SCH 2014051075 JUNE 30, 2015

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1.0 PROJECT DESCRIPTION

The proposed project is an update to the Southeastern San Diego Community Plan, which was originally adopted in 1969, comprehensively updated in 1987, and has undergone several smaller amendments in the intervening years. As part of the update effort, the community plan has been split into two: the Southeastern San Diego and Encanto communities, to enable greater focus on each community. Separate community plans are being prepared for each community: the Southeastern San Diego Community Plan Update and the Encanto Neighborhoods Community Plan (collectively referred to as the "CPUs" or "Plans" or "draft plans"). The update will ensure consistency of the CPUs and incorporate relevant policies from the 2008 City of San Diego General Plan (General Plan), as well as provide a long-range, comprehensive policy framework for growth and development in the two communities through 2035.

The proposed CPUs provide detailed neighborhood-specific land use, development regulations (zoning) that are consistent with city-wide zoning classifications, development design guidelines, and numerous other mobility and public realm guidelines, incentives, and programs to revitalize the urban core in accordance with the general goals stated in the General Plan. The proposed CPUs would additionally serve as the basis for guiding a variety of other actions, such as parkland acquisitions and transportation improvements.

2.0 STUDY BACKGROUND AND PURPOSE

This report describes the existing storm water drainage and storm water quality conditions within the communities of Southeastern San Diego and Encanto. The CPUs encompass approximately 6,740 acres in total. The Southeastern San Diego Community Planning area lies south of State Route 94 (SR-94), between Interstate 5 (I-5) and Interstate 805 (I-805), and north of the city limits of National City. The Encanto Community Planning area is bounded by SR-94 to the north and I-805 to the west. This report is in support of the Program Environmental Impact Report (EIR) for the Southeastern San Diego Community Plan Update and the Encanto Neighborhoods Community Plan.

The CPU for each community is structured around addressing the following elements that are integral to the community goals and functions:

- Land use
- Mobility
- Urban design
- Economic prosperity
- Public Facilities, Services, and Safety
- Recreation
- Conservation and Sustainability
- Arts and Culture
- Historic Preservation

These core elements of the CPU for each community are tied together in many respects because community changes with respect to one element may have opportunities and constraints with respect to the other core elements. The goal of the CPU is to address the goals of the community through a holistic approach in order to optimize the benefits to the community. For most of the core elements listed above, there are also implications for drainage and water quality considerations. For example, land use changes (which are a major part of the CPU) may be constrained by existing drainage patterns, topography, and potential for flooding. Land use changes, through redevelopment, also have the opportunity to enhance water quality through low impact development (LID) design approaches through both small-scale and watershed-scale solutions for improving overall water quality in the

watershed. Transportation infrastructure and streetscapes can affect water quality, because streets and roads usually represent a large percentage of the total impervious area of a watershed. Recreation and sustainability opportunities, such as combined trails with creek restoration efforts, can also have interdependent benefits that may also enhance water quality and drainage concerns. For these reasons, water quality and drainage implications for the CPU are important considerations that need to be addressed concurrently with development of the updated community plans for Southeastern San Diego and Encanto. Therefore, the purpose of this report is to describe the existing storm water drainage and storm water quality conditions and summarize some of the water quality and drainage implications of the EIR potential alternatives, so that the EIR can comprehensively evaluate the project impacts of the CPUs.

Drainage from four major watersheds, Chollas Creek, Paleta Creek, Switzer Creek, and Paradise Creek are conveyed through the Southeastern San Diego and Encanto communities, ultimately discharging to San Diego Bay. The majority of the drainage area within the study area drains to Chollas Creek, which is an important element of the CPU. Note that the FEMA FIRM Maps refer to Chollas Creek as Las Chollas Creek and Paleta Creek as Las Puleta Creek. For the purposes of this report, the more contemporary creek names of Chollas Creek and Paleta Creek have been used to be consistent with current terminology.

The storm water drainage analysis, Section 3.0, provides qualitative description of regional runoff patterns within the Southeastern San Diego and Encanto neighborhoods, and floodplain hydrology for the major creeks. The storm water quality analysis, Section 4.0, provides qualitative description of regional runoff characteristics, receiving water characteristics, and sensitivity of the receiving waters. Section 5.0 describes current regulations, policies and programs applicable to storm water drainage, floodplain management, and storm water quality in the City of San Diego that will dictate design criteria and standards for redevelopment within the two communities.

3.0 EXISTING DRAINAGE CONDITIONS

Drainage from four major watersheds, Chollas Creek, Paleta Creek, Switzer Creek, and Paradise Creek are conveyed through the Southeastern San Diego and Encanto communities, ultimately discharging to San Diego Bay. Both Chollas Creek and Paleta Creek receive storm water runoff from the two communities, and Switzer Creek receives stormwater runoff from a small portion of the Southeastern San Diego community. Paradise Creek receives storm water runoff from the southeasterly portion of the Encanto community. Additionally, storm water runoff from some areas drains directly to San Diego Bay via other existing storm drain systems which are not connected to any of the creeks. Attachment A contains an exhibit showing creeks and storm drains and an exhibit showing "drainage regions" identifying portions of Southeastern San Diego and Encanto draining to each of the receiving waters.

Regional Drainage

The Southeastern San Diego and Encanto communities are established communities with mostly single family residential neighborhoods. Much of the Encanto community is dominated by single family residential neighborhoods, with a band of higher density residential areas in the Imperial Avenue corridor. In contrast, the Southeastern San Diego community is more densely developed, and therefore is more impervious. Southeastern San Diego is primarily residential with a mix of single-family homes and multi-family developments, and has much more commercial and industrial development than Encanto. Within highly developed areas, nearly all rainfall can be expected to become runoff because there are minimal opportunities for infiltration. Within the less developed areas, there are more opportunities for infiltration. Storm water runoff originating in Southeastern San Diego and Encanto is conveyed to the receiving waters in streets, gutters, cross gutters, and storm drain systems. Existing storm drain locations that are included in the SanGIS layer of "City Storm Drain Map," dated April 2010 are shown on the exhibit in Attachment A. There are many storm drain systems that drain to the various creek systems, with the vast majority of both communities draining to Chollas Creek.

Floodplains

Each of the major creeks draining through the two communities, Chollas Creek, Switzer Creek, Paleta Creek and Paradise Creek, have been studied and documented in the Federal Emergency Management Agency (FEMA) "Flood Insurance Study for San Diego County,

California and Unincorporated Areas," (FIS). The original analyses were performed in 1979. The creeks are mapped on Flood Insurance Rate Maps (FIRMs). Chollas Creek is identified as "Las Chollas or South Las Chollas Creek," while Paleta Creek is identified as "Las Puleta Creek." An exhibit showing FEMA Flood Zones and copies of FIRMettes, which show portions of the FIRM Panels that include the project area, are included in Attachment B.

Chollas Creek

The Chollas Creek watershed encompasses approximately 25.4 square miles. Drainage from this watershed is conveyed to San Diego Bay via a system of flood control channels. Chollas Creek has a north fork and south fork. FEMA Flood Zones within the two communities include Zone AE and Zone X (shaded), shown on FEMA FIRM Panel Number 06073C 1903 F (see the FIRMette included in Attachment B). "Zone AE" is a flood insurance rate zone used for "1-percent-annual-chance floodplains" that are determined for the Flood Insurance Study (FIS) by detailed methods of analysis. AE zones are areas of inundation by the 1-percent-annual-chance flood. "Zone X (shaded)" is a flood insurance rate zone that corresponds to the areas between the limits of the base flood and the 0.2-percent-annual-chance (or 500-year) flood.

Generally, the flooding associated with Chollas Creek in the Southeastern San Diego community is limited to areas adjacent to the channel where the flows overtop the banks of the channel. Development in the floodplain of the north branch of Chollas Creek in the City of San Diego consists of industrial development downstream of National Avenue on the east bank and residential development downstream of Market Street on the west bank. The floodplain development on the south fork of Chollas Creek is composed of industrial and commercial development downstream of Interstate Highway 805, and a mobile home park upstream of 47th Street on the north bank in the City of San Diego. Many of the flooding problems in the developed areas are caused by the flow exceeding the capacity of the channel at road crossings due to inadequate conveyance structures and debris buildup on the pier walls, at least some of which is caused by illegal dumping in the creek. There is a FEMA Flood Zone associated with Chollas Creek for both communities, as shown on FEMA FIRM Panel Numbers 06073C 1903 G, 1904 G, 1908 G, and 1910 G (see the FIRMettes included in Attachment B).

Paleta Creek

Based on the FIS, the Paleta Creek watershed encompasses approximately 2.8 square miles, measured to the San Diego and Arizona Eastern Railroad. Drainage from this watershed is conveyed to San Diego Bay via open channels downstream of the communities of Southeastern San Diego and Encanto. The development within the floodplain of Paleta Creek consists of residential areas upstream of Interstate Highway 5 and downstream of Interstate Highway 805. There are shallow flooding conditions that exist in Paleta Creek which are caused by inadequate conveyance at bridge crossings. The outlet of Paleta Creek is at 32nd Street Naval Station. There is a FEMA Flood Zone associated with Paleta Creek for both communities, as shown on FEMA FIRM Panel Numbers 06073C 1904 and 1911 G (see the FIRMette included in Attachment B).

Switzer Creek

According to the FIS, Switzer Creek flows through the fully developed central business district. It has been improved by the construction of a 10-foot diameter reinforced concrete pipe. Flow not contained within this pipe will create shallow flooding conditions in the business district. There is no FEMA Flood Zone associated with Switzer Creek for the community of Southeastern San Diego.

Paradise Creek

Based on the FIS, Paradise Creek flows southwesterly through the city of National City. The major portion of National City is in the 5-square mile drainage area of Paradise Creek. The creek passes through highly urbanized areas, and the natural course of the stream has been altered significantly by diversion works to convey floodwater away from the center of the city. This diversion work does not have the capacity to divert major flows. There is a FEMA Flood Zone associated with Paradise Creek for the Encanto community, as shown on FEMA FIRM Panel Numbers 06073C 1904 G and 1908 G (see the FIRMette included in Attachment B).

4.0 EXISTING WATER QUALITY CONDITIONS

Regional Storm Water Quality

The communities of Southeastern San Diego and Encanto are not 100% developed, as there is a considerable amount of land left as open space, either as preserve areas or as currently undeveloped land. Current land uses involve a combination of residential, commercial business, light industrial uses, public agencies, and recreational parks. Anticipated pollutants from the two communities include sediment, nutrients, heavy metals, organic compounds, trash and debris, oxygen demanding substances, oil and grease, bacteria and viruses, and pesticides. The two communities have pervious areas which offer opportunity for infiltration. The majority of existing development in the two communities was established prior to adoption of storm water regulations requiring protection and treatment of storm water runoff. Therefore there are few existing BMPs for protection of storm water runoff quality.

Receiving Waters

The specific receiving waters receiving storm water runoff from the Southeastern San Diego Community are Chollas Creek (north and south fork), Paleta Creek, and Switzer Creek. All of these receiving waters receive storm water runoff from the Encanto Community as well, with the exception of Switzer Creek. In addition, a portion of the Encanto Community drains to Paradise Creek. The runoff collected is drained into the San Diego Bay. Attachment A contains an exhibit showing the creeks and storm drains and an exhibit showing "drainage regions" identifying portions of Southeastern San Diego and Encanto draining to each of the receiving waters. The Southeastern San Diego Bay. Each community is within the Pueblo San Diego Hydologic Unit (908). Portions of the study area are within the San Diego Mesa Hydrologic Area (908.20) and the National City Hydrologic Area (908.30), and the Chollas (908.22), El Toyan (908.31) and Paradise (908.32) Hydrologic Subareas. Chollas Creek is in the 908.31 hydrologic basin planning area, and Paradise Creek is in the 908.32 hydrologic basin planning area.

The creeks located in this watershed are relatively small and are impacted by urban runoff, with the creeks draining into a pipe conveyance system most likely lined with concrete. Switzer Creek is highly urbanized with over half of the municipal storm sewer system existing as a network of pipes and connections underground. The majority of Chollas Creek and Paleta Creek have been channelized and concrete lined, with some sections of natural creek bed remaining.

Beneficial Uses of Receiving Waters

The beneficial uses of the receiving waters are uses that achieve high water quality for the betterment of public health and the preservation and enhancement of habitats and wildlife. Water quality objectives and beneficial uses can be found in the Basin Plan. For the following inland and coastal beneficial uses, refer to the San Diego Basin Plan with amendments effective on or before April 4, 2011. The beneficial uses for Chollas Creek and Switzer Creek in Hydrologic Unit Basin Number 908.22 and for "unnamed intermittent streams" in Hydrologic Unit Basin Number 908.31 in Table 2-2 of the Basin Plan include Non-contact Water Recreation (REC2), Warm Freshwater Habitat (WARM), and Wildlife Habitat (WILD); and Contact Water Recreation (REC1) is a potential beneficial use. These inland surface waters are excepted from the Municipal and Domestic Supply (MUN) beneficial use.

The existing coastal beneficial uses identified for the San Diego Bay based on Table 2-3 of the Basin Plan include Industrial Service Supply (IND), Navigation (NAV), Contact Water Recreation (REC-I), Non-contact Water Recreation (REC-2), Commercial and Sport Fishing (COMM), Preservation of Biological Habitats of Special Significance (BIOL), Estuarine Habitat (EST), Wildlife Habitat (WILD), Rare, Threatened, or Endangered Species (RARE), Marine Habitat (MAR), Migration of Aquatic Organisms (MIGR), Spawning, Reproduction, and/or Early Development (SPWN), and Shellfish Harvesting (SHELL).

303(d) List

Under Section 303(d) of the Clean Water Act, states, territories and authorized tribes are required to develop a list of water quality limited segments. The waters on the list do not meet water quality standards, even after point sources of pollution have installed the minimum required levels of pollution control technology. The law requires that these jurisdictions establish priority rankings for waters on the lists and develop action plans, called Total Maximum Daily Loads (TMDLs). The list is known as the Section 303(d) list of impaired waters.

In 2008, California began integrating the 303(d) List of Impaired Waters and the 305(b) Water Quality Assessment Report into a single report (Integrated Report). This Integrated Report will satisfy the requirements of both Clean Water Act sections 303(d) and 305(b). The California 2008-2010 Integrated Report was approved by the State Water Board on August 4, 2010 and approved by the USEPA on October 11, 2011. The receiving waters for the project that are currently listed as impaired based on the 2010 USEPA Approved 303(d) List are: Chollas Creek, Paleta Creek, San Diego Bay Shoreline, and Switzer Creek. The pollutants causing impairment of Chollas Creek are copper, diazinon, indicator bacteria, lead, zinc, nutrients and trash. The pollutants causing impairment of San Diego Bay Shoreline include PCBs (Polychlorinated Biphenyls), Chlordane, benthic community effects, sediment toxicity, and PAHs (Polycyclic Aromatic Hydrocarbons). The pollutants causing impairment of Switzer Creek are copper, lead, and zinc. Excerpts from the 303(d) List, which include the specific locations and potential sources of the impairments, are included in Attachment C.

TMDL Status

A TMDL is a calculated sum which determines the maximum amount of a pollutant which a waterbody can receive while still achieving high water quality and consistency with its beneficial uses for the betterment of the public, plants and wildlife. TMDLs are adopted as amendments to the Basin Plan. The following is the status of existing and planned TMDLs for receiving waters that receive storm water runoff from the communities of Southeastern San Diego and Encanto.

TMDLs Adopted and Being Implemented

The California Regional Water Quality Control Board San Diego Region (SDRWQCB) adopted Resolution Number R9-2002-0123, "Chollas Creek Diazinon Total Maximum Daily Load" on August 14, 2002. The State Water Resources Control Board subsequently approved the TMDL on July 16, 2003. The Office of Administrative Law and the USEPA approved the TMDL on September 11, 2003, and November 3, 2003 respectively. This TMDL is being implemented through SDRWQCB Order No. R9-2004-0277 and through other requirements incorporated into the San Diego County storm water discharge requirements.

The SDRWQCB developed the Chollas Creek TMDL to address water quality impairment due to the pesticide diazinon. Diazinon is causing acute and chronic toxicity to aquatic life in

Chollas Creek. Diazinon is an organophosphate insecticide common in indoor, residential, landscape and agricultural applications, and which was banned for residential uses by the U.S. Environmental Protection Agency (EPA) in 2004. Urban storm water flows are the primary source of diazinon to Chollas Creek. Toxicity in Chollas Creek due to diazinon during storm events was the basis for placement of Chollas Creek onto the 303(d) List in 1996.

TMDLs Adopted and Pending Implementation

Resolution Number R9-2007-0043, "A Resolution Adopting An Amendment to the Water Quality Control Plan for the San Diego Basin (9) to Incorporate Total Maximum Daily Loads for Dissolved Copper, Lead, and Zinc in Chollas Creek, Tributary to San Diego Bay, and to Revise the Toxic Pollutants Section of Chapter 3 to Reference the California Toxics Rule" (Chollas Creek Copper, Lead, and Zinc TMDLs), was adopted June 13, 2007 by the SDRWQCB. The first bacteria TMDL project known as "Total Maximum Daily Loads for Indicator Bacteria, Project I – Beaches and Creeks in the San Diego Region" was adopted by the SDRWQCB on December 12, 2007. On December 17, 2008 the San Diego Water Board withdrew the Bacteria TMDLs Project I from the State Water Board consideration to address significant issues. In addition to significant revisions, bacteria TMDLs for an additional waterbody, Tecolote Creek, were also incorporated into the project. It was re-released to the public as "Revised Total Maximum Daily Loads for Indicator Bacteria, Project I – Twenty Beaches and Creeks in the San Diego Region (Including Tecolote Creek)." It was adopted by the SDRWQCB on February 10, 2010 as Resolution Number R9-2010-0001. This TMDL Basin Plan amendment was subsequently approved by the State Water Resources Control Board on December 14, 2010, the Office of Administrative Law on April 4, 2011, and the USEPA on June 22, 2011.

TMDLs in Process

The SDRWQCB has initiated efforts to develop TMDLs for sediment toxicity in San Diego Bay near the mouths of Paleta, Chollas, and Switzer Creek. Sediments in San Diego Bay near the mouths of Chollas, Paleta, and Switzer Creeks are contaminated with anthropogenic chemicals. In addition, these sites contain a degraded benthic macroinvertebrate community, and samples from these areas have demonstrated toxicity to various marine invertebrate species in laboratory toxicity tests. Consequently these sites have been identified as areas of impaired water quality.

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5.0 CURRENT REGULATIONS, POLICIES, AND PROGRAMS

This Section discusses existing policies and regulations that apply to drainage and water quality in the City of San Diego. New and redevelopment projects in the communities of Southeastern San Diego and Encanto will be subject to requirements and design criteria outlined in these policies and regulations.

<u>Drainage</u>

Pursuant to San Diego Municipal Code Chapter 14 Article 2 Division 2, Storm Water Runoff and Drainage Regulations, drainage regulations apply to all development in the City of San Diego, whether or not a permit or other approval is required.

Drainage design policies and procedures for the City of San Diego are given in the City of San Diego's "Drainage Design Manual," dated April 1984, which is incorporated in the Land Development Manual as Appendix B. The Land Development Manual provides information to assist in the processing and review of applications. The "Drainage Design Manual" provides a guide for designing drainage and drainage-related facilities for developments within the City of San Diego. Chapter 1 of the "Drainage Design Manual" outlines basic policies and objectives. Subsequent chapters provide design criteria. New and redevelopment projects in these communities will be required to adhere to these existing criteria. Of particular relevance to fully built out communities such as Southeastern San Diego and Encanto is basic objective (10), comparing and coordinating proposed design with existing structures and systems handling the same flows. The City of San Diego will be responsible for reviewing hydrologic and hydraulic studies and design features for conformance to criteria given in the "Drainage Design Manual" for every map or permit for which discretionary approval is sought from the City of San Diego. These project specific studies for each development will need to address potential impacts to downstream storm drainage facilities with sufficient detail to support the discretionary action.

Floodplain Management

National Flood Insurance Program (NFIP)

The NFIP is a Federal program enabling property owners in participating communities to purchase insurance protection against losses from flooding. This insurance is designed to provide an insurance alternative to disaster assistance to meet the escalating costs of repairing

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damage to buildings and their contents caused by floods. Participation in the NFIP is based on an agreement between local communities and the Federal Government that states if a community will adopt and enforce a floodplain management ordinance to reduce future flood risks to new construction in Special Flood Hazard Areas, the Federal Government will make flood insurance available within the community as a financial protection against flood losses.

In support of the NFIP, FEMA identifies flood hazard areas throughout the United States and its territories by producing Flood Hazard Boundary Maps (FHBMs), Flood Insurance Rate Maps (FIRMs), and Flood Boundary & Floodway Maps (FBFMs). Several areas of flood hazards are commonly identified on these maps. One of these areas is the Special Flood Hazard Area (SFHA) or high risk area defined as any land that would be inundated by the 100-year flood - the flood having an l-percent chance of occurring in any given year (also referred to as the base flood).

See Attachment B of this document for the SFHAs within the communities of Southeastern San Diego and Encanto. Development may take place within the SFHA, provided that development complies with local floodplain management ordinances, which must meet the minimum Federal requirements and the minimum City requirements. If the minimum City requirements are stricter than the Federal requirements, the development will need to be designed to comply with whichever condition governs.

The City of San Diego is a participating community in the NFIP. Therefore, the City of San Diego is responsible to adopt a floodplain management ordinance that meets certain minimum requirements intended to reduce future flood losses. The City of San Diego has adopted Development Regulations for Special Flood Hazard Areas in the Land Development Code Sections 143.0145 and 143.0146. If redevelopment is proposed within one of the SFHA Zones, these existing regulations will apply. A copy of these regulations is included in Attachment D. The SFHA Zones within Southeastern San Diego and Encanto are shown on the FIRMettes located in Attachment B, and are also overlain on the Drainage Exhibits located in Attachment A. Some of the area proposed for redevelopment is clustered around drainage courses and therefore the regional drainage conditions will need to be further studied during project development in order to address floodplain and drainage improvements that may be required.

Storm Water Quality

Pursuant to Section 402 of the Clean Water Act, the EPA has established regulations under the National Pollutant Discharge Elimination System (NPDES) program to control direct storm water discharges. In California, the State Water Resources Control Board (SWRCB) administers the NPDES permitting programs and is responsible for developing waste discharge requirements. The California Regional Water Quality Control Board San Diego Region (SDRWQCB) is also responsible for developing waste discharge requirements specific to its jurisdiction. General waste discharge requirements that will directly apply to design and construction of redevelopment projects within the two communities will include:

- SWRCB Order No. 2009-0009-DWQ (as amended by subsequent orders) National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000002 Storm Water Discharges Associated with Construction and Land Disturbance Activities (General Construction Permit) adopted September 2, 2009, effective July 1, 2010. The General Construction Permit is due to be reissued. This permit may be reissued several times during the life of the Southeastern San Diego and Encanto Community Plans.
- SDRWQCB Order No. R9-2013-0001, National Pollutant Discharge Elimination System (NPDES) Permit No. CAS0109266, "Waste Discharge Requirements for Discharges of Urban Runoff from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds within the San Diego Region" (Order No. R9-2013-0001, or "Municipal Storm Water Permit"), adopted by the SDRWQCB on May 8, 2013. Order No. R9-2013-0001 supersedes Order No. 2007-0001, National Pollutant Discharge Elimination System (NPDES) No. CAS0108758 "Waste Discharge Requirements for Discharges of Urban Runoff from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds of the County of San Diego, the Incorporated Cities of San Diego County, the San Diego Unified Port District, and the San Diego County Regional Airport Authority" adopted by the SDRWQCB on January 24, 2007. This permit may be reissued several times during the life of the CPUs.

The following discussion describes the General Construction Permit and Municipal Storm Water Permit, which will directly affect design and construction of redevelopment projects. At the end of this Section is a discussion of other permits that may affect specific activities or project sites.

General Construction Permit

During the construction phase, any redevelopment project that is 1 acre or greater in size, or that is less than 1 acre in size but is part of a larger common plan of development, will be subject to the requirements of the General Construction Permit, or a future SWRCB Order reissuing the General Construction Permit. The General Construction Permit was adopted by the SWRCB on September 2, 2009, became effective July 1, 2010, and is due to be reissued. In order to be covered by the General Construction Permit, the Legally Responsible Person (LRP) for the project is required to submit to the SWRCB Permit Registration Documents (PRDs). PRDs include, but are not limited to a Notice of Intent (NOI), site maps, a site specific Risk Assessment, and a Storm Water Pollution Prevention Plan (SWPPP) describing best management practices (BMPs) to be used during construction to prevent the discharge of sediment and other pollutants in storm water runoff from the project. Depending on the site specific Risk Determination, additional requirements may apply.

Projects that are less than one acre in size and not part of a larger common plan of development are not subject to the requirements of the General Construction Permit. However, in the City of San Diego, construction storm water requirements apply to all new development and redevelopment activities based on the City of San Diego's Storm Water Management and Discharge Control Ordinance (San Diego Municipal Code Section 43.03, et. seq.). Projects less than one acre are required to prepare a Water Pollution Control Plan (WPCP) which identifies the pollution prevention measures that will be taken during construction activities.

Municipal Storm Water Permit

Pursuant to the Clean Water Act, the Municipal Storm Water Permit issued by the SDRWQCB must include requirements to effectively prohibit non-storm water discharges into MS4s, and require controls to reduce the discharge of pollutants in storm water to the maximum extent practicable. The current Municipal Storm Water Permit in effect that applies in the communities of Southeastern San Diego and Encanto in the City of San Diego

is Order No. R9-2013-0001, adopted May 8, 2013 (MS4 Permit). The permit is required to be renewed every 5 years.

The Municipal Storm Water Permit requires all development and redevelopment projects to implement storm water source control and site design practices to minimize the generation of pollutants. Additionally, the Permit requires new development and significant redevelopment projects that exceed certain size thresholds (referred to as Priority Development Projects) to implement Structural Storm Water Best Management Practices (Structural BMPs) to reduce pollutants in storm water runoff. In addition, Priority Development Projects are also required to address hydromodification requirements to control runoff volumes and flow durations (hydromodification requirements).

The 2013 MS4 Permit represents a shift in emphasis from prescriptive activities required by the permit, to outcome based goals to protect, preserve, enhance, and restore water quality and the beneficial uses of waters of the state. These goals are accomplished through an adaptive planning and management process which includes the development of Water Quality Improvement Plans (WQIPs) for each watershed covered by the MS4 Permit. For each of the nine watersheds in the San Diego Region, the WQIPs will identify the highest priority water quality conditions, sources of pollutants, potential strategies for pollutant reduction, numeric goals, strategies and schedules for implementation, and monitoring and assessment of the results. This regional or watershed approach to the permit, requires multiple jurisdictions within common watersheds to work together to author the WQIPs and ensure their implementation.

The City of San Diego is a Copermittee under the Municipal Storm Water Permit, and as such must implement several storm water management programs, including programs designed to control storm water discharges from new development and redevelopment. In addition to contributing to the development of the WQIPs, the City is required to update its Storm Water Standards (BMP Design Manual) to ensure any specific requirements resulting from development of the WQIPs are included. The specific sections of the MS4 Permit that will affect design and construction of redevelopment projects include Provision E.3. Development Planning, and Provision 4. Construction Management. The City of San Diego implements the requirements through their JURMP and BMP Design Manual. In addition, Attachment E of the Municipal Permit, Specific Provisions for Total Maximum Daily Loads Applicable to Order No. R9-2013-0001 provides requirements for TMDLs. The City of San Diego will also

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implement these requirements through their JURMP, Storm Water Standards Manual, and BMP Design Manual, and these requirements will affect design of permanent post-construction BMPs.

The Southeastern San Diego and Encanto communities lie within the San Diego Bay Watershed Management Area, specifically, the Pueblo San Diego Watershed. The Cities of Lemon Grove, Chula Vista and National City are taking the lead in development of the WQIP for this watershed. On June 25, 2014, the "San Diego Bay WMA WQIP First Interim Deliverable and Related Attachments" was submitted to the SDRWQCB, and the public review comment period ended July 28, 2014. Once completed and approved by the RWQCB, the WQIP will be incorporated into the City of San Diego's Jurisdictional Runoff Management program.

City of San Diego Storm Water Standards

The City of San Diego's current "Storm Water Standards Manual" dated January 20, 2012 is incorporated in the Land Development Manual as Appendix O. The Storm Water Standards Manual outlines for project applicants requirements that must be met in order to comply with the permanent and construction storm water quality provisions of the MS4 Permit. The new Storm Water Development Regulations will become effective December 24, 2015 and all projects will be subject to those regulations unless projects have begun grading or construction activities by the Regulations effective date (unless the projects are otherwise grandfathered with a prior lawful approval status).

Although the Storm Water Standards Manual is currently being updated to incorporate the requirements of the 2013 MS4 Permit, many of the concepts for design of projects will remain the same, and are therefore listed and briefly described below.

- Source Control BMP Requirements
- Low Impact Development (LID) BMP Requirements
- BMPs Applicable to Individual Priority Development Projects
- Treatment Control BMP Requirements
- Hydromodification Management BMP Requirements

LID BMPs will continue to be important to site planning because these features can require a significant amount of on-site area to retain storm water for infiltration, re-use, or evapotranspiration. Although required landscaping features can provide a dual-use, i.e. the footprint of the LID BMPs can often be fit into landscaping features, this requires early planning to ensure the following: 1) the features are located strategically within the drainage basin to intercept storm flows, 2) the features can safely store the water without adverse effects to adjacent slopes, structures, roadways or other features, and 3) the features are sized appropriately to meet the sizing requirements of the MS4 Permit.

Hydromodification requirements, i.e. limitations on increases of runoff discharge rates and durations, will continue to dictate design elements in locations where downstream channels are susceptible to erosion from increases in storm water runoff. The 2013 MS4 Permit and subsequent WQIPs being developed may allow for specific exemptions to these requirements. Refer to the Storm Water Standards Manual for further specific project requirements.

The City's Storm Water Standards Manual also includes performance standards for Construction Storm Water BMPs. These standards will apply during the construction of new and redevelopment projects in the communities of Southeastern San Diego and Encanto. The standards provide minimum requirements for construction site management, inspection and maintenance of construction BMPs, monitoring of the weather and emergency deployment of BMPs as needed. The Manual also provides minimum performance standards including; pollution prevention measures so that there will be no measurable increase of pollution (including sediment) in runoff from the site; no slope erosion; maintenance of water velocity moving offsite to pre-construction levels; and preservation of natural hydraulic features and riparian buffers where possible.

Other Permits

In addition to the permits described above, other permits may be applicable to specific activities or project sites.

Temporary Groundwater Extraction

Sites requiring temporary groundwater extraction (such as for dewatering during construction), will be subject to the requirements of SDRWQCB Order No. R9-2007-0034,

NPDES No. CAG919001, "General Waste Discharge Requirements for Discharges From Temporary Groundwater Extraction and Similar Waste Discharges to San Diego Bay, Tributaries Thereto Under Tidal Influence, and Storm Drains or Other Conveyance Systems Tributary Thereto (WDR)." This permit was adopted in 2007 and will remain effective until a new permit is adopted to supersede it. This permit may be reissued several times during the life of the Southeastern San Diego and Encanto community plan updates. This permit does not cover permanent groundwater extraction discharges. Starting in a previous version of this permit, SDRWQCB Order No. 2000-90, the SDRWQCB found that the capacity of the San Diego Bay to assimilate pollutants is limited, and therefore prohibited new groundwater extraction waste discharges to San Diego Bay.

General Industrial Permit

Industrial facilities are subject to the requirements of State Water Resources Control Board Water Quality Order No. 2014-0057-DWQ National Pollutant Discharge Elimination System (NPDES) Permit No. CAS00000l, "Waste Discharge Requirements for Storm Water Discharges Associated With Industrial Activities," (General Industrial Permit). This permit was adopted in 2014 and will become effective on July 1, 2015. The permit will remain in effect until a new permit is adopted that supersedes it. This permit currently applies to operation of existing industrial facilities associated with nine broad categories of industrial activities (as listed in Attachment A of the permit), and will apply to operation of proposed new industrial facilities within those same categories. The General Industrial Permit requires the implementation of storm water management measures and development of a Storm Water Pollution Prevention Plan (SWPPP). This permit may be reissued several times during the life of the community plans for Southeastern San Diego and Encanto.

Individual Waste Discharge Requirements

Some existing dischargers (existing ship construction, modification, repair or maintenance facilities) require individual waste discharge requirements for discharge to navigable waters (San Diego Bay). Whether or not individual waste discharge requirements will be needed for redevelopment projects depends on the specific type and location of the redevelopment project.

Alterations to Chollas Creek Channel

Alteration to the channel of Chollas Creek would require permits issued at many levels from federal, state, and local agencies including Section 404 (of the Clean Water Act) Permit from the United States Army Corps of Engineers, Section 401 Water Quality Certification from the SDRWQCB, and several agreements and certifications from other agencies that are required as part of the Section 404 and/or Section 401 permitting process, including documentation and review under the California Environmental Quality Act (CEQA).

Other Programs

City of San Diego General Plan

The City of San Diego's General Plan, adopted March 10, 2008, contains several citywide goals and policies related to storm water runoff and floodplain management. For example, the Conservation Element aims to manage floodplains to address their multi-purpose use (natural drainage, habitat preservation, and open space and passive recreation), while protecting health and safety. The Conservation Element also encourages the implementation of best practices and pollution control measures to improve and maintain urban runoff water quality. The Urban Design Element emphasizes using landscaping to support storm water management goals for filtration, percolation, and erosion control and promotes the use of pervious surface materials to reduce runoff and infiltrate storm water. The Public Facilities, Services, and Safety Element requires that development projects fully address impacts to public facilities and services (including storm water facilities) and that specific improvements and financing be identified. The CPUs and future development proposals must maintain consistency with the relevant goals and policies outlined in the General Plan.

Chollas Creek Enhancement Program

Chollas Creek has been substantially altered from its natural state as a result of past development and human activity. However, since the 1970s, policies and plans to restore and enhance the creek have been included in several community plans. The Chollas Creek Enhancement Program, adopted May 14, 2002, consolidates information from various documents into a single plan specifically focusing on the enhancement of Chollas Creek. The Enhancement Program is intended to transform the creek into a linear park with natural and urban treatments that can provide trail links between several communities and ultimately lead to San Diego Bay. The goal

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is to embrace the creek as a positive feature of development projects, restore the habitat along the natural portions of the creek, reconstruct and beautify existing concrete channels, and provide special landscaping treatments and public art along the corridor. Interpretive signage is planned along the trail system to inform the public of the creek's natural habitat and historical and cultural significance.

The portion of Chollas Creek within the Southeastern San Diego Community Plan is in Phase I, "South Branch" of the Chollas Creek Enhancement Program. This is the highest profile area. It contains the greatest diversity with small habitat areas, large disturbed areas that can be restored, several rehabilitation areas, and two limited reconstruction areas. The plan indicates that encroachment into the flood channel should be avoided to maintain recreational use of Chollas Creek. It also recommends an 11-foot dedication on the north of the existing channel for passive use and 25-feet on the south for active use as a combination bike and pedestrian trail.

The portion of Chollas Creek within the Encanto Neighborhoods Community Plan is in Phase II, "Encanto Branch." This portion of Chollas Creek has been selected for near-term implementation because it is the logical eastward extension of Phase I. In it there are a number of areas with opportunities for redevelopment where the Creek interfaces with Imperial Avenue. Much of the creek area is channelized and adjacent to the railroad tracks and Imperial Avenue. A special project should consider the linear park qualities of this multiple use transportation corridorfloodway and park.

ATTACHMENT A

Drainage Exhibits



Date: 8/7/2014 Name: 4074_Encanto_Watershed Path: P:\4074\GIS\Mxd\4074_Encanto_Watershed.mxd G/S exhibits may be composed from various sources with different levels of accuracy.For details on accuracy of this exhibit please refer to Meta Data provided.

Drainage Watershed Map







Date: 8/7/2014 Name: 4074_Encanto_StormDrain Path: P:\4074\GIS\Mxd\4074_Encanto_StormDrain.mxd G/S exhibits may be composed from various sources with different levels of accuracy.For details on accuracy of this exhibit please refer to Meta Data provided.

Storm Drain Map



Feet

2,500

1,250

0



Date: 8/6/2014 Name: 4074_Encanto_FloodPlain Path: P:\4074\GIS\Mxd\4074_Encanto_FloodPlain.mxd GIS exhibits may be composed from various sources with different levels of accuracy.For details on accuracy of this exhibit please refer to Meta Data provided.

FEMA Flood Plain Map



0



Date: 6/30/2015 Name: 4074_Encanto_LandUseChange Path: P:\4074\GIS\Mxd\4074_Encanto_LandUseChange.mxd GiS exhibits may be composed from various sources with different levels of accuracy.For details on accuracy of this exhibit please refer to Meta Data provided.

Proposed Land Use Change Areas





Date: 8/7/2014 Name: 4074_SE_Watershed Path: P:\4074\GIS\Mxd\4074_SE_Watershed.mxd G/S exhibits may be composed from various sources with different levels of accuracy.For details on accuracy of this exhibit please refer to Meta Data provided.

Drainage Watershed Map







Date: 8/7/2014 Name: 4074_SE_StormDrain Path: P:\d074\GIS\Mxd\4074_SE_StormDrain.mxd G/S exhibits may be composed from various sources with different levels of accuracy.For details on accuracy of this exhibit please refer to Meta Data provided.

Storm Drain Map



Feet

2,500

1,250

0



Date: 8/6/2014 Name: 4074_SE_FloodPlain Path: P:\4074\GIS\Mxd\\4074_SE_FloodPlain.mxd GIS exhibits may be composed from various sources with different levels of accuracy.For details on accuracy of this exhibit please refer to Meta Data provided.

FEMA Flood Plain Map



1,250

n



Date: 6/30/2015 Name: 4074_SE_LandUseChange Path: P:\4074\GIS\Mxd\4074_SE_LandUseChange.mxd GIS exhibits may be composed from various sources with different levels of accuracy.For details on accuracy of this exhibit please refer to Meta Data provided.

Proposed Land Use Change Areas

0



ATTACHMENT B

FIRMettes














































ATTACHMENT C

Excerpts from 2010 Clean Water Act Section 303(d) List of Water Quality Limited Segments (303(d) List)

REGION	WATER BODY NAME	WATER BODY TYPE	WBID	INTEGRATED REPORT CATEGORY			ESTIMATED SIZE AFFECTED	UNIT	POLLUTANT	POLLUTANT CATEGORY	FINAL LISTING DECISION	TMDL REQUIREMEN T STATUS**	EXPECTED TMDL COMPLETION DATE***	EXPECTED ATTAINMENT DATE***	USEPA TMDL APPROVED DATE***	COMMENTS INCLUDED ON 303(d) LIST	POTENTIAL SOURCES	SOURCE CATEGORY
9	Aliso Creek	River & Stream	CAR9011300019990208093130	5	18070301	90113000	19	Miles	Phosphorus	Nutrients	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19			This listing for phosphorus applies to the Aliso Creek mainstem and all the major tributaries of Aliso Creek which are Sulphur Creek, Wood Canyon, Aliso Hills Canyon, Dairy Fork, and English Canyon. □	Unknown Nonpoint Source	Unspecified Nonpoint Source
9	Aliso Creek	River & Stream	CAR9011300019990208093130	5	18070301	90113000	19	Miles	Phosphorus	Nutrients	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19			This listing for phosphorus applies to the Aliso Creek mainstem and all the major tributaries of Aliso Creek which are Sulphur Creek, Wood Canyon, Aliso Hills Canyon, Dairy Fork, and English Canyon.	Urban Runoff/Storm Sewers	
9	Aliso Creek	River & Stream	CAR9011300019990208093130	5	18070301	90113000	19	Miles	Selenium	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Unknown Nonpoint Source	Unspecified Nonpoint Source
9			CAR9011300019990208093130 CAR9011300019990208093130	5	18070301 18070301	90113000 90113000			Selenium Total Nitrogen as N	Metals/Metalloids Nutrients	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-21 01-Jan-19				Urban Runoff/Storm Sewers Natural Sources	Urban Runoff Natural Sources
9	Aliso Creek		CAR9011300019990208093130	5	18070301	90113000			Total Nitrogen as N	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	Aliso Creek	River & Stream	CAR9011300019990208093130	5	18070301	90113000	19	Miles	Total Nitrogen as N	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	000100
9	Aliso Creek	River & Stream	CAR9011300019990208093130	5	18070301	90113000	19	Miles	Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-19			This listing for toxicity applies to the Aliso Creek mainstem and all the major tributaries of Aliso Creek which are Sulphur Creek, Wood Canyon, Aliso Hills Canyon, Dairy Fork and English Canyon.	-	Source Unknown
9	Aliso Creek	River & Stream	CAR9011300019990208093130	5	18070301	90113000	19	Miles	Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-19			This listing for toxicity applies to the Aliso Creek mainstem and all the major tributaries of Aliso Creek which are Sulphur Creek, Wood Canyon, Aliso Hills Canyon, Dairy Fork and English Canyon.		Unspecified Nonpoint Source
9	Aliso Creek	River & Stream	CAR9011300019990208093130	5	18070301	90113000	19	Miles	Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-19			This listing for toxicity applies to the Aliso Creek mainstem and all the major tributaries of Aliso Creek which are Sulphur Creek, Wood Canyon, Aliso Hills Canyon, Dairy Fork and English Canyon.	, Unknown Point Source	Unspecified Point Source
9	Aliso Creek (mouth)	Estuary	CAE9011300019990208095945	5	18070301	90113000	0	Acres	Indicator Bacteria	Pathogens	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Nonpoint Source	Unspecified Nonpoint Source
9	Aliso Creek (mouth)	Estuary	CAE9011300019990208095945	5	18070301	90113000	0		Indicator Bacteria	Pathogens	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Point Source	Unspecified Point Source
9			CAR9071100020011025125514 CAR9012000020011025103603	5 5	18070304 18070202	90711000 90120000	5	Miles Miles	Selenium Diazinon	Metals/Metalloids Pesticides	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-21 01-Jan-19				Other Urban Runoff Agriculture	Urban Runoff Agriculture
9	Arroyo Trabuco Creek	River & Stream	CAR9012000020011025103603	5	18070202	90120000	23	Miles	Diazinon	Pesticides	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Contaminated Sediments	Sediment
9	Arroyo Trabuco Creek Arroyo Trabuco Creek		CAR9012000020011025103603 CAR9012000020011025103603	5	18070202 18070202	90120000 90120000			Diazinon Diazinon	Pesticides Pesticides	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19 01-Jan-19				Source Unknown Unknown Nonpoint Source	Source Unknown Unspecified Nonpoint
9			CAR9012000020011025103603	5	18070202	90120000			Diazinon	Pesticides	List on 303(d) list (TMDL required list)	54	01-Jan-19				Urban Runoff/Storm Sewers	Source Urban Runoff
9	Arroyo Trabuco Creek	River & Stream	CAR9012000020011025103603	5	18070202	90120000	23	Miles	Phosphorus	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Natural Sources	Natural Sources
9			CAR9012000020011025103603 CAR9012000020011025103603	5 5	18070202 18070202	90120000 90120000	23		Phosphorus Phosphorus	Nutrients Nutrients	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19 01-Jan-19				Source Unknown Urban Runoff/Storm Sewers	Source Unknown Urban Runoff
9			CAR9012000020011025103603 CAR9012000020011025103603	5	18070202	90120000	23		Total Nitrogen as N Total Nitrogen as N	Nutrients Nutrients	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19 01-Jan-19				Agriculture Natural Sources	Agriculture Natural Sources
9	Arroyo Trabuco Creek		CAR9012000020011025103603	5	18070202	90120000			Total Nitrogen as N	Nutrients	List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19 01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint
9			CAR9012000020011025103603	5	18070202	90120000			Total Nitrogen as N	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	Source Urban Runoff
9	Arroyo Trabuco Creek		CAR9012000020011025103603	5	18070202	90120000		Miles		Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint
0	Arroyo Trabuco Creek	River & Stream	CAR9012000020011025103603	5	18070202	90120000	22	Miloc	Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Point Source	Unspecified Point Source
9			CAR9012000020011025103603	5	18070202	90120000		Miles		Toxicity	List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19				Urban Runoff/Storm Sewers	
9	Barrett Lake		CAL9113000019980803101540	5	18070305	91130000	125	Acres	Color	Nuisance	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9			CAL9113000019980803101540 CAL9113000019980803101540	5	18070305 18070305	91130000 91130000			Manganese Perchlorate	Metals/Metalloids Other Organics	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19 01-Jan-19				Source Unknown Source Unknown	Source Unknown Source Unknown
9	Barrett Lake		CAL9113000019980803101540	5	18070305	91130000			Total Nitrogen as N	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Natural Sources	Natural Sources
9	Barrett Lake		CAL9113000019980803101540	5	18070305	91130000			Total Nitrogen as N	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9			CAL9113000019980803101540 CAL9113000019980803101540	5 5	18070305 18070305	91130000 91130000		Acres Acres	Total Nitrogen as N pH	Nutrients Miscellaneous	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19 01-Jan-19				Urban Runoff/Storm Sewers Source Unknown	Source Unknown
9	Buena Creek		CAR9043200020050630113820	5	18070303	90432000	5	Miles	DDT (Dichlorodiphenyltrichloro ethane)	Pesticides	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9			CAR9043200020050630113820	5	18070303	90432000			Nitrate and Nitrite	Nutrients	List on 303(d) list (TMDL required list) Do Not Delist from 303(d) list (TMDL		01-Jan-19				Source Unknown	Source Unknown Unspecified Nonpoint
9	Buena Vista Creek	River & Stream	CAR9042100020011025103123	5	18070303	90421000	11	Miles	Sediment Toxicity	Toxicity	required list)	5A	01-Jan-19				Unknown Nonpoint Source	Source
9	Buena Vista Creek		CAR9042100020011025103123	5	18070303	90421000			Sediment Toxicity	Toxicity	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Point Source	Unspecified Point Source
9			CAR9042100020011025103123	5	18070303	90421000			Selenium	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19		-		Source Unknown	Source Unknown Unspecified Nonpoint
9	Buena Vista Lagoon	Estuary	CAE9042100019990209090045	-	18070303	90421000			Indicator Bacteria	Pathogens	List on 303(d) list (TMDL required list)		01-Jan-08				Nonpoint Source	Source
9	Buena Vista Lagoon	Estuary	CAE9042100019990209090045	5	18070303	90421000	202	Acres	Indicator Bacteria	Pathogens	List on 303(d) list (TMDL required list)	5A	01-Jan-08				Point Source	Unspecified Point Source
9	Buena Vista Lagoon	Estuary	CAE9042100019990209090045	5	18070303	90421000	202	Acres	Nutrients	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19			Estimated size of impairment is 150 acres located in upper portion of lagoon.	Nonpoint Source	Unspecified Nonpoint Source
9	Buena Vista Lagoon	Estuary	CAE9042100019990209090045	5	18070303	90421000	202	Acres	Nutrients	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19			Estimated size of impairment is 150 acres located in upper portion of lagoon.	Point Source	Unspecified Point Source
9	Buena Vista Lagoon	Estuary	CAE9042100019990209090045	5	18070303	90421000	202	Acres	Sedimentation/Siltation	Sediment	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Nonpoint Source	Unspecified Nonpoint Source
9	Buena Vista Lagoon	Estuary	CAE9042100019990209090045	5	18070303	90421000	202	Acres	Sedimentation/Siltation	Sediment	List on 303(d) list (TMDL required list)	5A	01-Jan-19		Ì		Point Source	Unspecified Point Source
	Chollas Creek		CAR9082200019990208140725	5	18070304	90822000	4		Copper		List on 303(d) list (TMDL required list)	5A	01-Jan-04		1		Nonpoint Source	Unspecified Nonpoint
			-				4										- ·	Source
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4	Miles	Copper	Metals/Metalloids	List on 303(d) list (TMDL required list) Do Not Delist from 303(d) list (being	5A	01-Jan-04				Point Source	Unspecified Point Source
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4	Miles	Diazinon	Pesticides	addressed with USEPA approved TMDL) Do Not Delist from 303(d) list (being	5B			03-Nov-03		Nonpoint Source	Unspecified Nonpoint Source
9	Chollas Creek		CAR9082200019990208140725	5	18070304	90822000	4		Diazinon	Pesticides	addressed with USEPA approved TMDL)	5B			03-Nov-03		Point Source	Unspecified Point Source Unspecified Nonpoint
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4	Miles	Indicator Bacteria	Pathogens	List on 303(d) list (TMDL required list)	5A	01-Jan-05				Nonpoint Source	Source
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4	Miles	Indicator Bacteria	Pathogens	List on 303(d) list (TMDL required list)	5A	01-Jan-05				Point Source	Unspecified Point Source
9			CAR9082200019990208140725	5	18070304	90822000			Indicator Bacteria	Pathogens Matela/Matellaida	List on 303(d) list (TMDL required list)		01-Jan-05				Urban Runoff/Storm Sewers	
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4	Miles	Lead	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-04	1	1		Atmospheric Deposition	Atmospheric Deposition

REGION	WATER BODY NAME	WATER BODY TYPE	WBID	INTEGRATED REPORT CATEGORY	USGS CATALOGIN G UNIT*	CALWATER WATERSHED	ESTIMATED SIZE UNIT POLLUT AFFECTED	ANT POLLUTANT CATEGORY	FINAL LISTING DECISION	TMDL REQUIREMEN T STATUS**	EXPECTED TMDL COMPLETION DATE***	EXPECTED ATTAINMENT DATE***	USEPA TMDL APPROVED DATE***	COMMENTS INCLUDED ON 303(d) LIST	POTENTIAL SOURCES	SOURCE CATEGORY
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Lead	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-04				Landfills	Waste Storage And Disposal
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Lead	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-04				Nonpoint Source	Unspecified Nonpoint Source
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Lead	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-04				Point Source	Unspecified Point Source
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Lead		List on 303(d) list (TMDL required list)	5A	01-Jan-04				Surface Runoff	Urban Runoff
9	Chollas Creek Chollas Creek	River & Stream River & Stream	CAR9082200019990208140725 CAR9082200019990208140725	5	18070304 18070304	90822000 90822000	4 Miles Lead 4 Miles Phosphorus	Metals/Metalloids Nutrients	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-04 01-Jan-19				Urban Runoff/Storm Sewers Source Unknown	s Urban Runoff Source Unknown
9	Chollas Creek		CAR9082200019990208140725	5	18070304	90822000	4 Miles Total Nitrogen	as N Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	Chollas Creek Chollas Creek	River & Stream River & Stream	CAR9082200019990208140725 CAR9082200019990208140725	5	18070304 18070304	90822000 90822000	4 Miles Trash 4 Miles Trash	Trash	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-21 01-Jan-21				Illegal dumping Surface Runoff	Unpermitted Discharges Urban Runoff
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Trash	Trash	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Urban Runoff/Storm Sewers	
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Zinc	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-04				Atmospheric Deposition	Atmospheric Deposition
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Zinc	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-04				Highway/Road/Bridge Runo	
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Zinc	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-04				Landfills	Waste Storage And Disposal
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Zinc	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-04				Nonpoint Source	Unspecified Nonpoint Source
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Zinc	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-04				Point Source	Unspecified Point Source
9	Chollas Creek	River & Stream	CAR9082200019990208140725	5	18070304	90822000	4 Miles Zinc	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-04				Surface Runoff	Urban Runoff
9	Chollas Creek		CAR9082200019990208140725	5	18070304	90822000	4 Miles Zinc		List on 303(d) list (TMDL required list)	5A	01-Jan-04				Urban Runoff/Storm Sewers	Lincocified Neppoint
9	Cloverdale Creek	River & Stream	CAR9053200020010926112758	5	18070304	90532000	1 Miles Phosphorus	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Source
9	Cloverdale Creek	River & Stream	CAR9053200020010926112758	5	18070304	90532000	1 Miles Phosphorus	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Point Source	Unspecified Point Source
9	Cloverdale Creek	River & Stream	CAR9053200020010926112758	5	18070304	90532000	1 Miles Phosphorus	Nutrients	List on 303(d) list (TMDL required list) Do Not Delist from 303(d) list (TMDL	5A	01-Jan-19	<u> </u>	<u> </u>		Urban Runoff/Storm Sewers	Lincocified Neppoint
9	Cloverdale Creek	River & Stream	CAR9053200020010926112758	5	18070304	90532000	1 Miles Total Dissolved	Solids Salinity	required list)	5A	01-Jan-19				Unknown Nonpoint Source	Source
9	Cloverdale Creek	River & Stream	CAR9053200020010926112758	5	18070304	90532000	1 Miles Total Dissolved	d Solids Salinity	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Point Source	Unspecified Point Source
9	Cloverdale Creek	River & Stream	CAR9053200020010926112758	5	18070304	90532000	1 Miles Total Dissolved	d Solids Salinity	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	s Urban Runoff
9	Cottonwood Creek (San Marcos Creek watershed)	River & Stream	CAR9045100020011009142248	5	18070303	90451000	2 Miles (DDT (Dichlorodipher ethane)	nyltrichloro Pesticides	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	Cottonwood Creek (San Marcos Creek watershed)	River & Stream	CAR9045100020011009142248	5	18070303	90451000	2 Miles Sediment Toxic	city Toxicity	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	Cottonwood Creek (San Marcos Creek watershed)	River & Stream	CAR9045100020011009142248	5	18070303	90451000	2 Miles Sediment Toxic	city Toxicity	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Point Source	Unspecified Point Source
9	Cottonwood Creek (San Marcos Creek watershed)	River & Stream	CAR9045100020011009142248	5	18070303	90451000	2 Miles Sediment Toxic	city Toxicity	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	s Urban Runoff
9	Cottonwood Creek (San Marcos Creek watershed)	River & Stream	CAR9045100020011009142248	5	18070303	90451000	2 Miles Selenium	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	Cottonwood Creek (Tijuana River watershed)	River & Stream	CAR9116000020020306143545	5	18070305	91160000	53 Miles Selenium	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	Dana Point Harbor	Bay & Harbor	CAB9011400020010831141600	5	18070301	90114000	119 Acres Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Marinas and Recreational Boating	Marinas And Recreational Boating
9	Dana Point Harbor	Bay & Harbor	CAB9011400020010831141600	5	18070301	90114000	119 Acres Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	Dana Point Harbor	Bay & Harbor	CAB9011400020010831141600	5	18070301	90114000	119 Acres Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	Dana Point Harbor	Bay & Harbor	CAB9011400020010831141600	5	18070301	90114000	119 Acres Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	
9	Dana Point Harbor	Bay & Harbor	CAB9011400020010831141600	5	18070301	90114000	119 Acres Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	Dana Point Harbor	Bay & Harbor	CAB9011400020010831141600	5	18070301	90114000	119 Acres Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Unknown Point Source	Unspecified Point Source
9	Dana Point Harbor		CAB9011400020010831141600	5	18070301	90114000	119 Acres Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Urban Runoff/Storm Sewers Marinas and Recreational	s Urban Runoff Marinas And
9	Dana Point Harbor	Bay & Harbor	CAB9011400020010831141600	5	18070301	90114000	119 Acres Zinc	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Boating	Recreational Boating
9	Dana Point Harbor	Bay & Harbor	CAB9011400020010831141600	5	18070301	90114000	119 Acres Zinc	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	Dana Point Harbor	Bay & Harbor	CAB9011400020010831141600	5	18070301	90114000	119 Acres Zinc	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
	Dana Point Harbor			5	18070301	90114000	119 Acres Zinc	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	
	De Luz Creek De Luz Creek	River & Stream River & Stream	CAR9022100020010924135442 CAR9022100020010924135442	5	18070302	90221000 90221000	14 Miles Iron 14 Miles Manganese		List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19 01-Jan-19	ł			Source Unknown Source Unknown	Source Unknown Source Unknown
	De Luz Creek			5	18070302	90221000	14 Miles Nitrogen	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Agriculture	Agriculture
9	De Luz Creek	River & Stream	CAR9022100020010924135442	5	18070302	90221000	14 Miles Nitrogen	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Nonpoint Source	Unspecified Nonpoint Source
	De Luz Creek	River & Stream	CAR9022100020010924135442	5	18070302	90221000	14 Miles Nitrogen	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Point Source	Unspecified Point Source
9	De Luz Creek	River & Stream	CAR9022100020010924135442 CAL9073100020011025093211	5	18070302 18070304	90221000 90731000	14 Miles Sulfates 1454 Acres Color		List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	El Capitan Lake El Capitan Lake	Lake & Reservoir Lake & Reservoir	CAL9073100020011025093211 CAL9073100020011025093211	ວ 5	18070304	90731000	1454 Acres Color 1454 Acres Manganese	Nuisance Metals/Metalloids	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19 01-Jan-19				Source Unknown Source Unknown	Source Unknown Source Unknown
9	El Capitan Lake	Lake & Reservoir	CAL9073100020011025093211	5	18070304	90731000	1454 Acres Phosphorus	Nutrients	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Other Urban Runoff	Urban Runoff
9	El Capitan Lake El Capitan Lake		CAL9073100020011025093211 CAL9073100020011025093211	5	18070304 18070304	90731000 90731000	1454 Acres Total Nitrogen a 1454 Acres pH	as N Nutrients Miscellaneous	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-21 01-Jan-19	ł	├		Other Urban Runoff Source Unknown	Urban Runoff Source Unknown
9	Encinitas Creek		CAR9045100019991117144759	5	18070303	90451000	3 Miles Selenium		List on 303(d) list (TMDL required list)		01-Jan-19				Source Unknown	Source Unknown
9	Encinitas Creek	River & Stream	CAR9045100019991117144759	5	18070303	90451000	3 Miles Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	Encinitas Creek		CAR9045100019991117144759	5	18070303	90451000	3 Miles Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Point Source	Unspecified Point Source
9	Encinitas Creek English Canyon		CAR9045100019991117144759 CAR9011300020050602203953	5	18070303 18070301	90451000 90113000	3 Miles Toxicity 4 Miles Benzo[b]fluorar	Toxicity other Organics	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-19 01-Jan-19	<u> </u>			Urban Runoff/Storm Sewers Source Unknown	s Urban Runoff Source Unknown
	English Canyon		CAR9011300020050602203953	5	18070301	90113000	4 Miles Dieldrin	Pesticides	List on 303(d) list (TMDL required list)	5A	01-Jan-19	1			Source Unknown	Source Unknown
9	English Canyon	River & Stream	CAR9011300020050602203953	5	18070301	90113000	4 Miles Sediment Toxic	city Toxicity	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	English Canyon	River & Stream	CAR9011300020050602203953	5	18070301	90113000	4 Miles Sediment Toxic	city Toxicity	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Point Source	Unspecified Point Source
9	English Canyon			5	18070301	90113000	4 Miles Sediment Toxic		Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	s Urban Runoff
9	English Canyon	River & Stream	CAR9011300020050602203953	5	18070301	90113000	4 Miles Selenium	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown

REGION WATER BODY NAME	WATER BODY TYPE	WBID	INTEGRATED REPORT CATEGORY	USGS CATALOGIN G UNIT*	CALWATER WATERSHED	ESTIMATED SIZE AFFECTED	UNIT	POLLUTANT	POLLUTANT CATEGORY	FINAL LISTING DECISION	TMDL REQUIREMEN T STATUS**	EXPECTED TMDL COMPLETION DATE***	EXPECTED ATTAINMENT DATE***	USEPA TMDL APPROVED DATE***	COMMENTS INCLUDED ON 303(d) LIST	POTENTIAL SOURCES	SOURCE CATEGORY
Pacific Ocean Shoreline, Tijuana 9 HU, at 3/4 mile North of Tijuana River	Coastal & Bay Shoreline	CAC9111100020090505134454	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-21				Urban Runoff/Storm Sewers	Urban Runoff
9 Pacific Ocean Shoreline, Tijuana HU, at Monument Road	Coastal & Bay Shoreline	CAC9111100020090505135322	5	18070305	91111000	0	Miles	Fecal Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-21				Other Urban Runoff	Urban Runoff
 Pacific Ocean Shoreline, Tijuana HU, at Monument Road 	Coactal & Roy	CAC9111100020090505135322	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Natural Sources	Natural Sources
9 Pacific Ocean Shoreline, Tijuana HU, at Monument Road	Coastal & Bay Shoreline	CAC9111100020090505135322	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9 Pacific Ocean Shoreline, Tijuana HU, at Monument Road	Coactal & Ray	CAC9111100020090505135322	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9 Pacific Ocean Shoreline, Tijuana HU, at Monument Road	Coactal & Ray	CAC9111100020090505135322	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	Urban Runoff
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Enterococcus	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Natural Sources	Natural Sources
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay Shoreline	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Enterococcus	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay Shoreline	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Enterococcus	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay Shoreline	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Enterococcus	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	Urban Runoff
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay Shoreline	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Fecal Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Natural Sources	Natural Sources
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay Shoreline	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Fecal Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay Shoreline	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Fecal Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Fecal Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	Urban Runoff
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay Shoreline	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Natural Sources	Natural Sources
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay Shoreline	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coastal & Bay Shoreline	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9 Pacific Ocean Shoreline, Tijuana HU, at Tijuana River mouth	Coactal & Ray	CAC9111100020090505134951	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	Urban Runoff
9 Pacific Ocean Shoreline, Tijuana HU, at end of Seacoast Drive	Coactal & Roy	CAC9111100020090505131259	5	18070305	91111000	0	Miles	Enterococcus	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-21				Urban Runoff/Storm Sewers	Urban Runoff
 Pacific Ocean Shoreline, Tijuana HU, at end of Seacoast Drive 	Coactal & Ray	CAC9111100020090505131259	5	18070305	91111000	0	Miles	Fecal Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-21				Urban Runoff/Storm Sewers	Urban Runoff
9 Pacific Ocean Shoreline, Tijuana HU, at end of Seacoast Drive	Coastal & Bay	CAC9111100020090505131259	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Natural Sources	Natural Sources
9 Pacific Ocean Shoreline, Tijuana HU, at end of Seacoast Drive	Coactal & Ray	CAC9111100020090505131259	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9 Pacific Ocean Shoreline, Tijuana HU, at end of Seacoast Drive	Coastal & Bay Shoreline	CAC9111100020090505131259	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9 Pacific Ocean Shoreline, Tijuana HU, at end of Seacoast Drive	Coactal & Ray	CAC9111100020090505131259	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	Urban Runoff
9 Pacific Ocean Shoreline, Tijuana HU, at the US Border	Coastal & Bay	CAC9111100020090505135528	5	18070305	91111000	0	Miles	Enterococcus	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-21				Urban Runoff/Storm Sewers	Urban Runoff
9 Pacific Ocean Shoreline, Tijuana HU, at the US Border	Coactal & Ray	CAC9111100020090505135528	5	18070305	91111000	0	Miles	Fecal Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-21				Urban Runoff/Storm Sewers	Urban Runoff
9 Pacific Ocean Shoreline, Tijuana HU, at the US Border	Coostal 9 Day	CAC9111100020090505135528	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Natural Sources	Natural Sources
9 Pacific Ocean Shoreline, Tijuana HU, at the US Border	Coastal & Bay Shoreline	CAC9111100020090505135528	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9 Pacific Ocean Shoreline, Tijuana HU, at the US Border	Coastal & Bay Shoreline	CAC9111100020090505135528	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9 Pacific Ocean Shoreline, Tijuana HU, at the US Border	Coastal & Bay	CAC9111100020090505135528	5	18070305	91111000	0	Miles	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	Urban Runoff
9 Paleta Creek		CAR9083100020080825092823	5	18070304	90831000	4	Miles	Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Unknown Nonpoint Source	Unspecified Nonpoint Source
9 Paleta Creek	River & Stream	CAR9083100020080825092823	5	18070304	90831000	4	Miles	Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Unknown Point Source	Unspecified Point Source
9 Paleta Creek 9 Paleta Creek	River & Stream (River & Stream (CAR9083100020080825092823 CAR9083100020080825092823	5	18070304 18070304	90831000 90831000	4	Miles Miles		Metals/Metalloids Metals/Metalloids	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-21 01-Jan-21				Urban Runoff/Storm Sewers Other Urban Runoff	Urban Runoff Urban Runoff
9 Paleta Creek		CAR9083100020080825092823	5	18070304	90831000	4	Miles		Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Unknown Nonpoint Source	Unspecified Nonpoint Source
9 Paleta Creek	River & Stream	CAR9083100020080825092823	5	18070304	90831000	4	Miles	Lead	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Unknown Point Source	Unspecified Point Source
9 Paradise Creek, HSA 908.320 9 Pine Valley Creek (Upper)		CAR9091200019991117092131 CAR9114100020010924113027	5	18070304 18070305	90912000 91141000	3		Selenium Turbidity	Metals/Metalloids Sediment	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-21 01-Jan-19				Source Unknown Source Unknown	Source Unknown Source Unknown
9 Poggi Canyon Creek		CAR9102000020050630122106	5	18070303	91020000	8		Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Unknown Nonpoint Source	Unspecified Nonpoint Source
9 Poggi Canyon Creek	River & Stream	CAR9102000020050630122106	5	18070304	91020000	8	Miles	Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Unknown Point Source	Unspecified Point Source
9 Poggi Canyon Creek		CAR9102000020050630122106		18070304	91020000	8	Miles	Toxicity	Toxicity	List on 303(d) list (TMDL required list)		01-Jan-21				Urban Runoff/Storm Sewers	Urban Runoff Unspecified Nonpoint
9 Poway Creek		CAR9062000020080904172636	5	18070304	90620000	7		Selenium	Metals/Metalloids		5A	01-Jan-21				Unknown Nonpoint Source	Source
9 Poway Creek 9 Poway Creek		CAR9062000020080904172636 CAR9062000020080904172636	5	18070304 18070304	90620000 90620000	7		Selenium Selenium	Metals/Metalloids	List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-21 01-Jan-21				Unknown Point Source Urban Runoff/Storm Sewers	Unspecified Point Source
9 Poway Creek		CAR9062000020080904172636	5	18070304	90620000	7	Miles		Toxicity	List on 303(d) list (TMDL required list)	5A 5A	01-Jan-21 01-Jan-21				Unknown Nonpoint Source	Unspecified Nonpoint Source
9 Poway Creek	River & Stream	CAR9062000020080904172636	5	18070304	90620000	7	Miles	Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Unknown Point Source	Unspecified Point Source
9 Poway Creek		CAR9062000020080904172636		18070304	90620000	7		Toxicity	Toxicity	List on 303(d) list (TMDL required list)		01-Jan-21	1			Urban Runoff/Storm Sewers	Urban Runoff Unspecified Nonpoint
9 Prima Deshecha Creek		CAR9013000020010924090843	5	18070301	90130000	1		Cadmium	Metals/Metalloids		5A	01-Jan-21				Unknown Nonpoint Source	Source
9 Prima Deshecha Creek 9 Prima Deshecha Creek		CAR9013000020010924090843 CAR9013000020010924090843	5	18070301 18070301	90130000 90130000	1		Cadmium Cadmium		List on 303(d) list (TMDL required list) List on 303(d) list (TMDL required list)	5A 5A	01-Jan-21 01-Jan-21				Unknown Point Source Urban Runoff/Storm Sewers	Unspecified Point Source
5 Prima Desnecha Greek	INVEL & SURAM	GAINED 13000020010924090843	5	10070301	90120000	1	willes	Cauillulli	inetais/inetail0lds	List on 303(d) list (TMDL required list)	AC	UI-Jall-21	1	l		orban Kunon/Storm Sewers	Ulban Runun

REGION	WATER BODY NAME	WATER BODY TYPE	, WBID	INTEGRATED REPORT CATEGORY	USGS CATALOGIN G UNIT*	CALWATER WATERSHED	ESTIMATED SIZE UNIT AFFECTED	POLLUTANT	POLLUTANT CATEGORY	FINAL LISTING DECISION	TMDL REQUIREMEN T STATUS**	EXPECTED TMDL COMPLETION DATE***	EXPECTED ATTAINMENT DATE***	USEPA TMDL APPROVED DATE***	COMMENTS INCLUDED ON 303(d) LIST	POTENTIAL SOURCES	SOURCE CATEGORY
9	San Diego Bay Shoreline, at Bayside Park (J Street)	Bay & Harbor	CAB9091100020041209205208	5	18070304	90911000	50 Acres	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19			This listing was made by USEPA for 2006.	Unknown Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, at Bayside Park (J Street)	Bay & Harbor	CAB9091100020041209205208	5	18070304	90911000	50 Acres	Total Coliform	Pathogens	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-19			This listing was made by USEPA for 2006.	Urban Runoff/Storm Sewers	Urban Runoff
9	San Diego Bay Shoreline, at Coronado Cays	Bay & Harbor	CAB9101000020041209191852	5	18070304	91010000	47 Acres	Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	San Diego Bay Shoreline, at Glorietta Bay	Bay & Harbor	CAB9101000020041209185339	5	18070304	91010000	52 Acres	Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	San Diego Bay Shoreline, at Harbor Island (East Basin)	Bay & Harbor	CAB9082100020021230112926	5	18070304	90821000	73 Acres	Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	San Diego Bay Shoreline, at Harbor Island (West Basin)	Bay & Harbor	CAB9081000020020306104110	5	18070304	90810000	132 Acres	Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	San Diego Bay Shoreline, at Marriott Marina	Bay & Harbor	CAB9082100020020307102410	5	18070304	90821000	24 Acres	Copper	Metals/Metalloids	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Source Unknown	Source Unknown
9	San Diego Bay Shoreline, at Spanish Landing	Bay & Harbor	CAB9082100020041209181254	5	18070304	90821000	47 Acres	Total Coliform	Pathogens	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, at Spanish Landing	Bay & Harbor	CAB9082100020041209181254	5	18070304	90821000	47 Acres	Total Coliform	Pathogens	List on 303(d) list (TMDL required list)	5A	01-Jan-21				Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	Copper	Metals/Metalloids	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-15			Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	Copper	Metals/Metalloids	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-15			Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	Mercury	Metals/Metalloids	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-13			Major Industrial Point Source	e Industrial Wastewater
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	PAHs (Polycyclic Aromatic Hydrocarbons)	Other Organics	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-13			Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	PAHs (Polycyclic Aromatic Hydrocarbons)	Other Organics	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-13			Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	PCBs (Polychlorinated biphenyls)	Other Organics	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-13			Major Industrial Point Source	e Industrial Wastewater
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	PCBs (Polychlorinated biphenyls)	Other Organics	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-13			Unknown Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	PCBs (Polychlorinated biphenyls)	Other Organics	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-13			Unknown Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	PCBs (Polychlorinated biphenyls)	Other Organics	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-13			Urban Runoff/Storm Sewers	Urban Runoff
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	Zinc	Metals/Metalloids	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-13			Source Unknown	Source Unknown
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres	Zinc	Metals/Metalloids	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-13			Unknown Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, between Sampson and 28th Streets	Bay & Harbor	CAB9082200020021015082916	4b	18070304	90822000	53 Acres		Metals/Metalloids	List on 303(d) list (being addressed by action other than TMDL)	5C		01-Jan-13			Unknown Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, near Chollas Creek	Bay & Harbor	CAB9082200019990210102831	5	18070304	90822000	15 Acres	Effects	Miscellaneous	List on 303(d) list (TMDL required list)	5A	01-Jan-10				Source Unknown	Source Unknown
9	San Diego Bay Shoreline, near Chollas Creek	Bay & Harbor	CAB9082200019990210102831	5	18070304	90822000	15 Acres	Effects	Miscellaneous	List on 303(d) list (TMDL required list)	5A	01-Jan-10				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, near Chollas Creek	Bay & Harbor	CAB9082200019990210102831	5	18070304	90822000	15 Acres	Benthic Community Effects	Miscellaneous	List on 303(d) list (TMDL required list)	5A	01-Jan-10				Unknown Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, near Chollas Creek	Bay & Harbor	CAB9082200019990210102831	5	18070304	90822000	15 Acres	Sediment Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-10				Source Unknown	Source Unknown
9	San Diego Bay Shoreline, near Chollas Creek	Bay & Harbor	CAB9082200019990210102831	5	18070304	90822000	15 Acres	Sediment Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-10				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, near Chollas Creek	Bay & Harbor	CAB9082200019990210102831	5	18070304	90822000	15 Acres	Sediment Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-10				Unknown Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, near Coronado Bridge	Bay & Harbor	CAB9082200020021015082223	5	18070304	90822000	37 Acres	Ellecis	Miscellaneous	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, near Coronado Bridge	Bay & Harbor	CAB9082200020021015082223	5	18070304	90822000	37 Acres	Ellecis	Miscellaneous	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, near Coronado Bridge	Bay & Harbor	CAB9082200020021015082223	5	18070304	90822000	37 Acres	Benthic Community Effects	Miscellaneous	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	
9	San Diego Bay Shoreline, near Coronado Bridge	Bay & Harbor	CAB9082200020021015082223	5	18070304	90822000	37 Acres	Sediment Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-19			Includes Crosby Street/Cesar Chavez Park area, that will receive additional monitoring.	Unknown Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, near Coronado Bridge	Bay & Harbor	CAB9082200020021015082223	5	18070304	90822000	37 Acres	Sediment Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-19			Includes Crosby Street/Cesar Chavez Park area, that will receive additional monitoring.	Unknown Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, near Coronado Bridge	Bay & Harbor	CAB9082200020021015082223	5	18070304	90822000	37 Acres	Sediment Toxicity	Toxicity	List on 303(d) list (TMDL required list)	5A	01-Jan-19			Includes Crosby Street/Cesar Chavez Park area, that will receive additional monitoring.	Urban Runoff/Storm Sewers	
9	San Diego Bay Shoreline, near Switzer Creek	Bay & Harbor	CAB9082100019990210093822	5	18070304	90821000	6 Acres	Chlordane	Pesticides	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, near Switzer Creek	Bay & Harbor	CAB9082100019990210093822	5	18070304	90821000	6 Acres	Chlordane	Pesticides	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, near Switzer Creek	Bay & Harbor	CAB9082100019990210093822	5	18070304	90821000	6 Acres	Chlordane	Pesticides	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	
9	San Diego Bay Shoreline, near Switzer Creek	Bay & Harbor	CAB9082100019990210093822	5	18070304	90821000	6 Acres	Alomatic Hydrocarbons/	Other Organics	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Nonpoint Source	Unspecified Nonpoint Source
9	San Diego Bay Shoreline, near Switzer Creek	Bay & Harbor	CAB9082100019990210093822	5	18070304	90821000	6 Acres	PAHs (Polycyclic Aromatic Hydrocarbons)	Other Organics	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Unknown Point Source	Unspecified Point Source
9	San Diego Bay Shoreline, near Switzer Creek	Bay & Harbor	CAB9082100019990210093822	5	18070304	90821000	6 Acres	PAHe (Polyoyolia	Other Organics	List on 303(d) list (TMDL required list)	5A	01-Jan-19				Urban Runoff/Storm Sewers	Urban Runoff
9	San Diego Bay Shoreline, near sub base	Bay & Harbor	CAB9081000019990210085507	5	18070304	90810000	16 Acres	Benthic Community	Miscellaneous	Do Not Delist from 303(d) list (TMDL required list)	5A	01-Jan-21			There is not an expected TMDL completion date because the TMDL is for the waterbody and pollutant and the TMDL can not be completed for benthic community effects alone.	Other	Source Unknown

REGION	WATER BODY NAME	WATER BODY TYPE	WBID	INTEGRATED REPORT CATEGORY	USGS CATALOGIN G UNIT*	CALWATER	ESTIMATED SIZE AFFECTED	UNIT	POLLUTANT	POLLUTANT CATEGORY FINAL LISTING DECISION	TMDL REQUIREMEN T STATUS**	EXPECTED TMDL COMPLETION DATE***	EXPECTED USEPA TMDL ATTAINMENT APPROVED DATE*** DATE***	COMMENTS INCLUDED ON 303(d) LIST	POTENTIAL SOURCES	SOURCE CATEGORY
9	Sweetwater River, Lower (below Sweetwater Reservoir)	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5	Miles	Selenium	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21			Unknown Point Source	Unspecified Point Source
9	Sweetwater River, Lower (below	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5	Miles	Total Dissolved Solids	Salinity List on 303(d) list (TMDL required list	5A	01-Jan-21			Other Urban Runoff	Urban Runoff
9	Sweetwater Reservoir) Sweetwater River, Lower (below	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5		Total Dissolved Solids	Salinity List on 303(d) list (TMDL required list		01-Jan-21			Unknown Nonpoint Source	Unspecified Nonpoint
0	Sweetwater Reservoir) Sweetwater River, Lower (below	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5		Total Dissolved Solids	Salinity List on 303(d) list (TMDL required list		01-Jan-21			Unknown Point Source	Source Unspecified Point Source
9	Sweetwater Reservoir) Sweetwater River, Lower (below						5									
9	Sweetwater Reservoir) Sweetwater River, Lower (below	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5		Total Nitrogen as N	Nutrients List on 303(d) list (TMDL required list		01-Jan-21			Other Urban Runoff	Urban Runoff
9	Sweetwater Reservoir) Sweetwater River, Lower (below	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5		Total Nitrogen as N	Nutrients List on 303(d) list (TMDL required list		01-Jan-21			Point Source	Unspecified Point Source Unspecified Nonpoint
9	Sweetwater Reservoir)	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5	Miles	Total Nitrogen as N	Nutrients List on 303(d) list (TMDL required list	5A	01-Jan-21			Unknown Nonpoint Source	Source
9	Sweetwater River, Lower (below Sweetwater Reservoir)	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5	Miles	Total Nitrogen as N	Nutrients List on 303(d) list (TMDL required list	5A	01-Jan-21			Unknown Point Source	Unspecified Point Source
9	Sweetwater River, Lower (below Sweetwater Reservoir)	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5	Miles	Toxicity	Toxicity List on 303(d) list (TMDL required list	5A	01-Jan-21			Other Urban Runoff	Urban Runoff
9	Sweetwater River, Lower (below Sweetwater Reservoir)	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5	Miles	Toxicity	Toxicity List on 303(d) list (TMDL required list	5A	01-Jan-21			Unknown Nonpoint Source	Unspecified Nonpoint Source
9	Sweetwater River, Lower (below Sweetwater Reservoir)	River & Stream	CAR9091200020091030145725	5	18070304	90912000	5	Miles	Toxicity	Toxicity List on 303(d) list (TMDL required list	5A	01-Jan-21			Unknown Point Source	Unspecified Point Source
9	Switzer Creek	River & Stream	CAR9082200020080825092534	5	18070304	90822000	1	Miles	Copper	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21			Nonpoint Source	Unspecified Nonpoint Source
9	Switzer Creek	River & Stream	CAR9082200020080825092534	5	18070304	90822000	1	Miles	Copper	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21			Point Source	Unspecified Point Source
9	Switzer Creek	River & Stream	CAR9082200020080825092534	5	18070304	90822000	1	Miles		Metals/Metalloids List on 303(d) list (TMDL required list		01-Jan-21			Urban Runoff/Storm Sewers	
9	Switzer Creek	River & Stream	CAR9082200020080825092534	5	18070304	90822000	1	Miles	Lead	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21			Nonpoint Source	Unspecified Nonpoint Source
9	Switzer Creek	River & Stream	CAR9082200020080825092534	5	18070304	90822000	1	Miles	Lead	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21			Point Source	Unspecified Point Source
9	Switzer Creek	River & Stream	CAR9082200020080825092534	5	18070304	90822000	1	Miles	Lead	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21			Urban Runoff/Storm Sewers	
9	Switzer Creek	River & Stream	CAR9082200020080825092534	5	18070304	90822000	1	Miles	Zinc	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21			Nonpoint Source	Unspecified Nonpoint Source
9	Switzer Creek	River & Stream	CAR9082200020080825092534	5	18070304	90822000	1	Miles	Zinc	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21			Point Source	Unspecified Point Source
9	Switzer Creek Tecate Creek	River & Stream River & Stream	CAR9082200020080825092534 CAR9112300020081210154839	5	18070304 18070305	90822000 91123000	1	Miles Miles	Zinc Selenium	Metals/Metalloids List on 303(d) list (TMDL required list Metals/Metalloids List on 303(d) list (TMDL required list		01-Jan-21 01-Jan-21			Urban Runoff/Storm Sewers Source Unknown	Urban Runoff Source Unknown
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000			Cadmium	Metals/Metalloids List on 303(d) list (TMDL required list		01-Jan-19			Nonpoint Source	Unspecified Nonpoint Source
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7	Miles	Cadmium	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-19			Point Source	Unspecified Point Source
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7	Miles	Copper	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-19			Nonpoint Source	Unspecified Nonpoint
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7	Miles		Metals/Metalloids List on 303(d) list (TMDL required list		01-Jan-19			Point Source	Source Unspecified Point Source
3							7									Unspecified Nonpoint
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	/		Indicator Bacteria	Pathogens List on 303(d) list (TMDL required list		01-Jan-09			Nonpoint Source	Source
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7	Miles	Indicator Bacteria	Pathogens List on 303(d) list (TMDL required list	5A	01-Jan-09			Point Source	Unspecified Point Source
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7	Miles	Lead	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-19			Nonpoint Source	Unspecified Nonpoint Source
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7	Miles	Lead	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-19			Point Source	Unspecified Point Source
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7	Miles	Nitrogen	Nutrients List on 303(d) list (TMDL required list	5A	01-Jan-21			Nonpoint Source	Unspecified Nonpoint Source
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7	Miles	Nitrogen	Nutrients List on 303(d) list (TMDL required list	5A	01-Jan-21			Point Source	Unspecified Point Source
9	Tecolote Creek Tecolote Creek	River & Stream River & Stream	CAR9065000019990208103941 CAR9065000019990208103941	5	18070304 18070304	90650000 90650000		Miles	Nitrogen Phosphorus	Nutrients List on 303(d) list (TMDL required list Nutrients List on 303(d) list (TMDL required list		01-Jan-21 01-Jan-19			Urban Runoff/Storm Sewers Source Unknown	Urban Runoff Source Unknown
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7	Miles	Selenium	Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21			Natural Sources	Natural Sources
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7		Selenium	Metals/Metalloids List on 303(d) list (TMDL required list		01-Jan-21			Source Unknown	Source Unknown Unspecified Nonpoint
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	-		Toxicity	Toxicity List on 303(d) list (TMDL required list		01-Jan-19			Nonpoint Source	Source
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7		Toxicity	Toxicity List on 303(d) list (TMDL required list	-	01-Jan-19			Point Source	Unspecified Point Source Unspecified Nonpoint
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7		Turbidity	Sediment List on 303(d) list (TMDL required list		01-Jan-19			Unknown Nonpoint Source	Source
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7		Turbidity	Sediment List on 303(d) list (TMDL required list		01-Jan-19			Unknown Point Source	Unspecified Point Source
9	Tecolote Creek Tecolote Creek	River & Stream River & Stream	CAR9065000019990208103941 CAR9065000019990208103941	5	18070304 18070304	90650000 90650000	7	Miles		Sediment List on 303(d) list (TMDL required list Metals/Metalloids List on 303(d) list (TMDL required list		01-Jan-19 01-Jan-19			Urban Runoff/Storm Sewers Nonpoint Source	Unspecified Nonpoint
3			1	-			-									Source
9	Tecolote Creek	River & Stream	CAR9065000019990208103941	5	18070304	90650000	7	Miles	∠inc Selenium	Metals/Metalloids List on 303(d) list (TMDL required list Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-19 01-Jan-21			Point Source Natural Sources	Unspecified Point Source Natural Sources
9	Telegraph Canyon Creek	River & Stream	CAR9091100020081010151336	5	18070304	90911000	10	Miles	Selenium	Metals/Metalloids List on 303(d) list (TMDL required list Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21			Nonpoint Source	Unspecified Nonpoint Source
9	Telegraph Canyon Creek	River & Stream		5	18070304	90911000			Selenium	Metals/Metalloids List on 303(d) list (TMDL required list		01-Jan-21			Point Source	Source Unspecified Point Source
9	Temecula Creek		CAR9025100020011025111323	5	18070302	90251000			Chlorpyrifos	Pesticides List on 303(d) list (TMDL required list	5A	01-Jan-21			Source Unknown	Source Unknown
9	Temecula Creek Temecula Creek		CAR9025100020011025111323 CAR9025100020011025111323	5	18070302 18070302	90251000 90251000	44	Miles Miles	Copper	Metals/Metalloids List on 303(d) list (TMDL required list Metals/Metalloids List on 303(d) list (TMDL required list	5A	01-Jan-21 01-Jan-21			Source Unknown Urban Runoff/Storm Sewers	Source Unknown Urban Runoff
9	Temecula Creek		CAR9025100020011025111323	5	18070302	90251000			Phosphorus	Nutrients List on 303(d) list (TMDL required list		01-Jan-21 01-Jan-19			Unknown Nonpoint Source	Unspecified Nonpoint
9	Temecula Creek		1	5	18070302	90251000			Phosphorus	Nutrients List on 303(d) list (TMDL required list	-	01-Jan-19			Unknown Point Source	Source Unspecified Point Source
	Temecula Creek		CAR9025100020011025111323	5	18070302	90251000			Phosphorus	Nutrients List on 303(d) list (TMDL required list		01-Jan-19			Urban Runoff/Storm Sewers	Urban Runoff
9	Temecula Creek	River & Stream	CAR9025100020011025111323	5	18070302	90251000	44		Total Dissolved Solids	Salinity List on 303(d) list (TMDL required list		01-Jan-19			Unknown Nonpoint Source	Unspecified Nonpoint Source
9	Temecula Creek	River & Stream	CAR9025100020011025111323	5	18070302	90251000	44	Miles	Total Dissolved Solids	Salinity List on 303(d) list (TMDL required list	5A	01-Jan-19			Unknown Point Source	Unspecified Point Source
9	Temecula Creek	River & Stream	CAR9025100020011025111323	5	18070302	90251000	44	Miles	Total Dissolved Solids	Salinity List on 303(d) list (TMDL required list	5A	01-Jan-19			Urban Runoff/Storm Sewers	Urban Runoff

ATTACHMENT D

Excerpts from Land Development Code (Sections 143.0145 and 143.0146)

§143.0145 Development Regulations for Special Flood Hazard Areas

- (a) Special Flood Hazard Areas within the City of San Diego are established in accordance with the report entitled "Flood Insurance Study, San Diego County, California," dated June 16, 1999 and the accompanying Flood Insurance Rate Maps (FIRM), published by the Federal Emergency Management Agency (FEMA), on file in the office of the City Clerk as Document Nos. 18910-1 and 18910-2, including any supplements, amendments, and revisions which are properly promulgated by FEMA or the Federal Insurance Administrator.
- (b) For the purpose of Sections 143.0145 and 143.0146, the City Engineer is the designated Floodplain Administrator and shall administer, implement, and enforce these regulations.
- (c) The degree of *flood* protection required by this section is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger *floods* can and will occur on rare occasions. It is possible that increased *flood* heights may result from man-made or natural causes. This section does not imply that land outside a *Special Flood Hazard Area* or uses permitted within such areas will be free from *flooding* or *flood* damages. This section shall not create liability on the part of the City, any officer or employee thereof, or the FEMA, for any *flood* damages that result from reliance on this chapter or any administrative decision lawfully made there under.
- (d) The following development regulations and all other applicable requirements and regulations of FEMA apply to all *development* proposing to encroach into a *Special Flood Hazard Area*, including both the *floodway* and *flood fringe* areas or that does not qualify for an exemption pursuant to Section 143.0110(c):
- (e) Floodways
 - (1) Within the *floodway* portion of a *premises*, development regulations are as set forth for the OF zone, pursuant to Section 131.0231.
 - (2) *Structures* associated with any allowed use shall comply with the following requirements:
 - (A) *Structures* shall not be attached to a foundation, in order to readily move them in case of *flood*; and
 - (B) Structures shall be removed upon imminence of flooding, as predicted by the National Weather Service or local public weather broadcast. If a structure is not removed and flooding occurs, the retrieval or salvage of the structure and repair of any damage caused by the structure shall be the responsibility of the owner.

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- (3) *Channelization* or other substantial alteration of rivers or streams shall be limited to that necessary for the following:
 - (A) Essential public service projects, where no other feasible construction method or alternative project location exists; and
 - (B) *Flood* control projects, where no other feasible method for protecting existing public or private *development* exists and where such protection is necessary for public safety.
 - (C) Projects where the primary function is the improvement of fish and wildlife habitat.
- (4) *Development* in *floodways* shall be offset by improvements or modifications to enable the passage of a *base flood*, in accordance with the FEMA standards and regulations provided in Section 143.0146.
- (5) *Development* that involves *channelization* or other substantial alteration of rivers or streams is subject to the following requirements.
 - (A) All requirements and relevant recommendations of hydrological studies for the watershed of the affected stream, as approved by the City Engineer, shall be incorporated into the project design and mitigation measures. These requirements include erosional characteristics, flow velocities, volume, sediment transport, and maintenance of hydrology.
 - (B) The channel shall be designed to ensure that the following occur:
 - (i) Stream scour is minimized;
 - (ii) Erosion protection is provided;
 - (iii) Water flow velocities are maintained as specified by the City Engineer;
 - (iv) There are neither significant increases nor contributions to downstream bank erosion and sedimentation of *sensitive biological resources*; acceptable techniques to control stream sediment include planting riparian vegetation in and near the stream and detention or retention basins;
 - (v) Wildlife habitat and corridors are maintained;
 - (vi) Resource management criteria are implemented consistent with applicable *land use plans*; and
 - (vii) Groundwater recharge capability is maintained or improved.



- (C) Channels that accommodate a *base flood* shall do so without increasing the water surface elevation more than one foot at any point from the level of a nonconfined *base flood* in the natural undeveloped floodplain. Channels may accommodate less than a *base flood* (low-flow channels), but shall be designed and constructed in accordance with FEMA regulations.
- (D) All artificial channels shall consist of natural bottoms and sides and shall be designed and sized to accommodate existing and proposed riparian vegetation and other natural or proposed constraints. Where maintenance is proposed or required to keep vegetation at existing levels compatible with the design capacity of the channel, a responsible party shall be identified and a maintenance and monitoring process shall be established to the satisfaction of the City Engineer.
- (6) *Development* shall not significantly adversely affect existing *sensitive biological resources* on-site or off-site.
- (7) Within the Coastal Overlay Zone, no *structure* or portion thereof shall be erected, constructed, converted, established, altered or enlarged, or no landform alteration *grading*, placement or removal of vegetation, except that related to a historic and ongoing agricultural operation, or land division shall be permitted, provided:
 - (A) Parking lots, new roadways and roadway expansions shall be allowed only where indicated on an adopted *Local Coastal Program land use plan*.
 - (B) Floodway encroachments for utility and transportation crossings shall be offset by improvements or modifications to enable the passage of the *base flood*, in accordance with the FEMA standards and regulations provided in Section 143.0146.
- (f) *Flood Fringe*. The applicable development regulations are those in the underlying zone, subject to the following supplemental regulations:
 - (1) Within the *flood fringe* of a *Special Flood Hazard Area*, permanent *structures* and *fill* for permanent *structures*, roads, and other *development* are allowed only if the following conditions are met:
 - (A) The *development* or *fill* will not significantly adversely affect existing *sensitive biological resources* on-site or off-site;



- (B) The *development* is capable of withstanding *flooding* and does not require or cause the construction of off-site *flood* protective works including artificial *flood* channels, revetments, and levees nor will it cause adverse impacts related to *flooding* of properties located upstream or downstream, nor will it increase or expand a (*FIRM*) Zone A;
- (C) Grading and filling are limited to the minimum amount necessary to accommodate the proposed development, harm to the environmental values of the floodplain is minimized including peak flow storage capacity, and wetlands hydrology is maintained;
- (D) The *development* neither significantly increases nor contributes to downstream bank erosion and sedimentation nor causes an increase in *flood* flow velocities or volume; and
- (E) There will be no significant adverse water quality impacts to downstream wetlands, lagoons or other *sensitive biological resources*, and the *development* is in compliance with the requirements and regulations of the National Pollution Discharge Elimination System, as implemented by the City of San Diego.
- (F) The design of the *development* incorporates the findings and recommendations of both a site specific and coastal watershed hydrologic study.
- (2) All *development* that involves *fill*, *channelization*, or other alteration of a *Special Flood Hazard Area* is subject to the requirements for *channelization* in Section 143.0145(e)(5) and with FEMA regulations.

(Amended 4-22-2002 by O-19051 N.S.; effective 10-8-2002.) (Amended 11-13-08 by O-19805 N.S; effective 12-13-2008.)



§143.0146 Supplemental Regulations for Special Flood Hazard Areas

All proposed *development* within a *Special Flood Hazard Area* is subject to the following requirements and all other applicable requirements and regulations of FEMA.

- (a) *Development* and Permit Review
 - (1) Where *base flood elevation* data has not been provided by the *Flood Insurance Study*, the City Engineer shall obtain, review, and utilize *base flood elevation* and *floodway* data available from federal or state sources, or require submittal of such data from the *applicant*. The City Engineer shall make interpretations, where needed, as to the location of the boundaries of the areas of the *Special Flood Hazard Area*, based on the best available engineering or scientific information.
 - (2) Proposed *development* in a *Special Flood Hazard Area* shall not adversely affect the *flood* carrying capacity of areas where *base flood elevations* have been determined but the *floodway* has not been designated. "Adversely affect" as used in this section means that the cumulative effect of the proposed *development*, when combined with all other existing and anticipated *development*, will not increase the water surface elevation of the *base flood* more than one foot at any point.
 - (3) In all cases where a watercourse is to be altered the City Engineer shall do the following:
 - (A) Notify affected, adjacent communities and the California Department of Water Resources of any proposed alteration or relocation of a watercourse and submit evidence of the notice to the Federal Insurance Administration;
 - (B) Require that the *flood* carrying capacity of the altered or relocated portion of the watercourse is maintained; and
 - (C) Secure and maintain for public inspection and availability the *certifications*, appeals, and variances required by these regulations.
 - (4) The *applicant* shall grant a flowage easement to the City for that portion of the property within a *floodway*.

- (5) Appropriate agreements shall be secured between the *applicant* and the City to assure participation by the *applicant* or any successor in interest in financing of future *flood* control works.
- (6) *Development* in a *Special Flood Hazard Area* shall not increase or expand a *FIRM* Zone A.
- (7) In In all *floodways*, any *encroachment*, including *fill*, new construction, significant modifications, and other *development* is prohibited unless *certification* by a registered professional engineer is provided demonstrating that *encroachments* will not result in any increase in *flood* levels during the occurrence of the *base flood* discharge except as allowed under Code of Federal Regulations Title 44, Chapter 1, Part 60.3(c)(13).
- (b) Standards for *Subdivisions*
 - (1) All preliminary *subdivision* proposals shall identify the *Special Flood Hazard Area* and the elevation of the *base flood*.
 - (2) All final *subdivision maps* shall provide the elevation of proposed *structures* and pads. If the site is *filled* above the *base flood elevation*, the *lowest floor*, including *basement*, shall be certified to be 2 feet above the *base flood elevation* by a registered professional engineer or surveyor, and the *certification* shall be provided to the City Engineer.
 - (3) All *subdivisions* shall be designed to minimize *flood* damage.
 - (4) All *subdivisions* shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize *flood* damage.
 - (5) All *subdivisions* shall provide adequate drainage to reduce exposure to *flood* hazards.
 - (6) The final map shall bear the notation "Subject to Inundation" for those portions of the property with a *grade* lower than 2 feet above the *base flood elevation*.
- (c) Standards of Construction

In all *Special Flood Hazard Areas*, the following standards apply for all *development*.

(1) All permitted, permanent *structures* and other significant improvements shall be anchored to prevent flotation, collapse, or lateral movement resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy.



- (2) All permitted permanent *structures* and other significant improvements shall be constructed with materials and utility equipment resistant to *flood* damage.
- (3) Construction methods and practices that minimize *flood* damage shall be used.
- (4) All electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities shall be designed and located to prevent water from entering or accumulating within the equipment components during conditions of *flooding*.
- (5) *Breakaway walls* shall be certified by a registered engineer or architect to meet all applicable FEMA requirements. The *certification* shall be provided to the City Engineer before final inspection approval.
- (6) New construction or substantial improvement of any structure shall have the lowest floor, including basement, elevated at least 2 feet above the base flood elevation. Upon completion of the development, the elevation of the lowest floor, including basement, shall be certified by a registered professional engineer or surveyor to be properly elevated. The certification shall be provided to the City Engineer before final inspection approval. The City Engineer reserves the right to require a preliminary certification before foundation inspection approval.
- (7) New construction or substantial improvement of any structure in FIRM Zone AH or AO shall have the lowest floor, including basement, elevated above the highest adjacent grade at least 2 feet higher than the depth number specified on the FIRM, or at least 4 feet if no depth number is specified. Upon the completion of the structure the elevation of the lowest floor, including basement, shall be certified by a registered professional engineer or surveyor, to be properly elevated. The certification shall be provided to the City Engineer before final inspection approval. The City Engineer may require a preliminary certification before foundation inspection approval.



- (8) Permitted nonresidential construction shall either be elevated as required by Section 143.0146(c)(6) or (7) or, together with attendant utility and sanitary facilities, meet the flood proofing requirements of FEMA. *Certification* by a registered professional engineer or architect that such requirements are met shall be provided to the City Engineer before final inspection approval. The City Engineer may require a preliminary *certification* before foundation inspection approval.
- (9) Fully enclosed areas below the *lowest floor* that are subject to *flooding* shall be certified by a registered professional engineer or architect that they comply with the flood proofing requirements of FEMA. The *certification* shall be provided to the City Engineer before final inspection approval.
- (d) Standards for Manufactured Homes

All new and replacement *manufactured homes* and additions to *manufactured homes* are subject to the following regulations.

- (1) The *lowest floor* shall be elevated at least 2 feet above the *base flood elevation*.
- (2) *Manufactured homes* shall be securely anchored to a permanent foundation system to resist flotation, collapse, or lateral movement.
- (3) A registered engineer or architect must certify that the conditions of this subsection have been met. The *certification* shall be provided to the City Engineer before final inspection approval.
- (e) Standards for Utilities

Certification shall be provided to the City Engineer before final inspection approval that the following requirements have been met.

- (1) All new and replacement water supply and sanitary sewage systems shall be designed to minimize or eliminate infiltration of *flood* waters into the system and discharge from systems into *flood* waters.
- (2) On-site waste disposal systems shall be located and designed to avoid impairment to them or contamination from them during *flooding*.



(f) The City Engineer shall notify the San Diego District Offices of the Coastal Commission of any pending changes to the adopted Flood Insurance Rate Maps affecting property within the Coastal Overlay Zone when the City Engineer receives notification of such potential changes. The City Engineer shall notify the Commission staff when *costal development* within the City of San Diego's Coastal

Development Permit jurisdiction would require processing a change to the FIRM maps. The City Engineer shall assure the Commission's District Office has the most current effective Flood Insurance Rate Maps approved by FEMA by forwarding any revised maps affecting the Coastal Overlay Zone within thirty working days of City Engineer's receipt.

(Amended 4-22-2002 by O-19051 N.S.; effective 10-8-2002.) (Amended 8-4-2011 by O-20081 N.S.; effective 10-6-2011.)

§143.0150 Deviations from Environmentally Sensitive Lands Regulations

Plans submitted in accordance with this section shall, to the maximum extent feasible, comply with the regulations of this division. If a proposed *development* does not comply with all applicable development regulations of this division and a deviation is requested as indicated in Table 143-01A, the Planning Commission may approve, conditionally approve, or deny the proposed Site Development Permit in accordance with Process Four, subject to the following:

- (a) Deviations from the regulations of this division may be granted only if the decision maker makes the *findings* in Section 126.0504(c).
- (b) Deviations from the Supplemental Regulations for Special Flood Hazard Areas in Section 143.0146 may be granted only if the decision maker makes the *findings* in Section 126.0504(d).
- (c) Within the Coastal Overlay Zone, deviations from the Environmentally Sensitive Lands Regulations may be granted only if the decision maker makes the *findings* in Section 126.0708.



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