

Item 8
Clean Water Act Section 303(d) and 305 (b) Integrated Report

ERRATA SHEET

CATEGORY 2 – PROPOSED LIST OF WATERBODIES WITH SOME USES FULLY SUPPORTED, BUT INSUFFICIENT DATA TO ASSESS ALL USES (STAFF REPORT TABLE 1)

- Add Santa Ana River, Reach 1 for fecal coliform

CATEGORY 5, PROPOSED SECTION 303(d) LIST OF IMPAIRED WATERS (STAFF REPORT TABLE 4)

- Remove Newport Beach - proposed listing for enterococcus, fecal coliform

California Regional Water Quality Control Board
Santa Ana Region

October 23, 2009

ITEM: 8

SUBJECT: Minor Revisions to the Clean Water Act Section 305(b) Integrated Report/303(d) List of Impaired Water Bodies in the Santa Ana Region.

DISCUSSION

On April 24, 2009, the Regional Board approved the Santa Ana Region's Clean Water Act section 305(b) Integrated Report, including revisions to the section 303(d) List of Impaired Waters. The Integrated Report/303(d) List revisions and the supporting database (California Water Quality Assessment [CALWQA] database), were transmitted to the State Water Resources Control Board staff (State Water Board) for review and inclusion in an approved Statewide Integrated Report. State Water Board staff reviewed the transmittal, which consisted of the April 24, 2009 staff report, the CALWQA database, supporting data and comment letters. State Board staff found inconsistencies between the information contained in the April 24, 2009 staff report and the CALWQA database. Consequently, State Water Board staff requested that revisions and clarifications be made by the Regional Board. The majority of the proposed changes are minor but are necessary to maintain the integrity and consistency of the information on the assessed water bodies. Some of the additional proposed changes would modify the region's 303(d) list as compared to the list approved by the Regional Board at the April 24, 2009 Public Hearing, including additions, deletions and clarifications. The proposed modifications are summarized and discussed below.

As a reminder, the Integrated Report categories are as follows:

- Category 1:** Water bodies that meet all water quality standards and no use is threatened (No water bodies assessed in the region were identified in this category).
- Category 2:** Water bodies meeting some water quality standards but with insufficient data and information to determine if other water quality standards are being met. **(Table 1)**
- Category 3:** Insufficient data and information are available to determine if any water quality standard is being attained. Listings in this Category may be the result of insufficient quantity and/or quality of data to properly evaluate a water body's attainment status. **(Table 2)**
- Category 4:** One or more water quality standards are impaired or threatened but a TMDL is not required or has already been established.

The following subcategories are included in category 4: **(Table 3)**

- 4A:** water segment where **ALL** it's 303(d) listing are being addressed by an approved or established by EPA;
- 4B:** Other pollution control requirements (*i.e.*, permits, consent decrees, etc.) are expected to attain water quality standards; or,
- 4C:** Water body impairment is not caused by a pollutant.

Category 5: Water body is impaired, does not attain the applicable water quality standards, and a TMDL or other acceptable pollution abatement initiative is required. This is the part of the List historically known as the 303(d) List. This list also includes a description of the pollutants causing impairment and a priority ranking of the waters for the purposes of development of Total Maximum Daily Loads (TMDLs).

The following subcategories are included in category 5: **(Table 4)**

5A: TMDL is required

5B: water segment where **one or some, but not all** of it's 303(d) listing are being addressed by an approved or established by EPA;

5C: Other pollution control requirements (*i.e.*, permits, consent decrees, etc.) are expected to attain water quality standards; or,

Delisted Water bodies Water bodies delisted from the 303(d) List of Impaired Waters. **(Table 5)**

Tables 1 through 5 list the water body, beneficial use/pollutant assessed, along with proposed changes based on discussions with State Water Board staff. As seen in these tables, modifications to either the name of the water body or the specific identification of the assessed reach or location of the water body are needed in order to ensure consistency between the staff report and the CALWQA database. This will ensure that the information in the staff report is consistent with the information in the CALWQA database.

State Water Board staff also indicated that there were inconsistencies in the pollutant assessment for several water bodies and the assignment of the appropriate Category. For example, several water bodies were already included on the 2006 303(d) List of impaired water bodies for bacterial exceedances and were incorrectly identified for inclusion on Category 2 (Some Uses Fully Supported, but Insufficient Data to Assess All Uses), resulting in a de-facto delisting of these water bodies. However, Board staff did not specifically identify, and the Regional Board did not approve, delisting of these water bodies from the 303(d) List as part of the 2008 listing process. Therefore, it was necessary to reassess these waters. The recommended listing action is included in the tables.

There are also a number of water bodies for which there were insufficient bacterial data to make a use impairment assessment for body contact recreation. For the most part, the bacterial data for these water bodies (e.g., Temescal Creek) are single sample maximum data. As discussed at the April 24, 2009 Regional Board hearing on this matter, single sample maximum data should not be used for impairment assessment purposes, absent prior determination of the level of recreational use of each of the water bodies and the single sample maximum values that apply. These determinations have not been made for these water bodies. Therefore, as shown in Table 1, there are insufficient bacterial data available to make a use impairment determination for certain water bodies.

Finally, State Water Board staff also requested that Regional Board staff assess all of the historic bacterial data for the coastal waters to ensure the appropriateness of any proposed listing or delisting action [for the 2008 assessment, Board staff had assessed only bacterial data for 2006 through 2008]. Based on this comprehensive assessment of historic and current

bacterial data, Board staff is proposing additions/deletions to the 303(d) List. These are summarized in Tables 1 through 5.

The complete Integrated Report for the Santa Ana Region, including the water bodies and corresponding category, is attached to this staff report. It is important to note that the 303(d) List (Category 5) includes water bodies currently on the existing 2006 303(d) List as well as water bodies added during this 2008 assessment.

STAFF RECOMMENDATION

Adopt Resolution No. R8-2009-0062, directing staff to make the necessary modifications to the approved April 24, 2009 Integrated Report and 303(d) List of Impaired Waters and to transmit these modifications, the revised CALWQA database, all comments received and all other relevant materials to the State Water Resources Control Board in support of the statewide approval of the Integrated Report.

**California Regional Water Quality Control Board
Santa Ana Region**

RESOLUTION NO. R8-2009-0062

Approval of Revisions to the 2008 Integrated Report of Federal Clean Water Act (CWA)
Section 305(b) and Section 303(d) List Of Water Quality Limited Segments

WHEREAS, the California Regional Water Quality Control Board, Santa Ana Region (hereinafter Water Board), finds that:

1. On April 24, 2009 the Water Board approved the Santa Ana Region's Integrated Report consisting of updates to the 2006 Clean Water Act section 303 (d) List of Impaired Waters (Resolution No. R8-2009-0032);
2. Upon transmittal of the approved Santa Ana Region Integrated Report to the State Board, State Board staff identified the need to consider additional modifications to the Integrated Report, the Integrated Report database (CALWQA database) and to the 303(d) List of Impaired Waters;
3. Water Board staff made the requested clarifications to the CALWQA database;
4. Water Board staff reviewed additional data to support modifications to the 303(d) List of Impaired Waters;
5. Water Board staff developed written responses to all public comments received and revised the Integrated Report, including the proposed 303(d) List, as appropriate; and
6. On October 23, 2009, the Water Board held a Public Hearing to consider the revisions to the Integrated Report, including additional revisions to the 303(d) List. Notice of the Public Hearing, dated September 8, 2009, was given to all interested persons and published in accordance with 40 CFR 132.20(h).

THEREFORE, BE IT RESOLVED THAT:

1. The Water Board, in fulfillment of the requirements described in Clean Water Act section 305(b) and Clean Water Act section 303(d), hereby approves the necessary revisions to the Integrated Report, including updates to the 303(d) List of Impaired Waters and TMDL schedules, shown in the Attachment to this Resolution; and
2. The Executive Officer is authorized to transmit the Water Board's 2008 Integrated Report revisions, including the revised 303(d) List, and other supporting information to the State Water Board for its consideration and approval.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of a resolution adopted by the California Regional Water Quality Control Board, Santa Ana Region, on October 23, 2009.

Gerard J. Thibeault
Executive Officer

Tentative

Attachment to
Resolution No. R8-2009-0062

Table 1

**Category 2 List of Water Bodies
(Some Uses Fully Supported, but Insufficient Data to
Assess All Uses)**

Proposed changes to the April 24, 2009 recommended Category 2 water body List are shown in ~~strikeout~~ for deletions and underline for additions.

Name of Water body as Listed in CALWQA	Beneficial Use Assessed and Fully Supported	Water Quality Indicators Assessed	Proposed Change	Rationale for Proposed Changes
Bolsa Chica State Beach	Body Contact Recreation	Enterococcus, Fecal coliform, Total coliform	Delete from Category 2	Water body currently on the 2006 303(d) List for copper and nickel and cannot be listed on both Category 2 and the 303(d) List.
Bonita Creek	Aquatic Life	Chlorpyrifos, Malathion	None	n/a
<u>Borrego Creek</u> <u>(from Irvine Blvd up to State Route 241)</u>	<u>Aquatic Life</u>	<u>Ammonia (unionized), temperature, pH</u>	Add to Category 2	Insufficient data to make use determination; appropriately identified as Category 2 water
Crystal Cove State Park (at the following locations: Crystal Cove, El Morro, Muddy Creek Surf, Pelican Point)	Body Contact Recreation	Enterococcus, Fecal coliform and Total Coliform	Delete specific locations	CALWQA name of the water body needed for consistency
<u>Day Creek</u>	<u>Aquatic Life</u>	<u>pH</u>	Add to Category 2	Insufficient data to make use determination; appropriately identified as Category 2 water
	<u>Drinking water supply</u>	<u>Boron</u>	Add to Category 2	Insufficient data to make use determination; appropriately identified as Category 2 water
<u>Goldenstar Creek</u>	<u>Body Contact Recreation</u>	<u>E. coli</u>	Add to Category 2	Insufficient data to make use determination; appropriately identified as Category 2 water
<u>Hole Lake</u>	<u>Body Contact Recreation</u>	<u>E. coli</u>	Add to Category 2	Insufficient data to make use determination; appropriately identified as Category 2 water
	<u>Aquatic Life</u>	<u>pH</u>		

Name of Water body as Listed in CALWQA	Beneficial Use Assessed and Fully Supported	Water Quality Indicators Assessed	Proposed Change	Rationale for Proposed Changes
Huntington Beach State Park (at the following locations: Brookhurst Street, Magnolia Street, Santa Ana River North, SCE Plant, 50' North of Santa Ana River)	Body Contact Recreation	Enterococcus, Fecal coliform, Total coliform	Remove from Category 2. Delist	Water body currently on the 2006 303(d) List for "enterococcus" and "indicator bacteria". Bacterial data were re-assessed. Water body does not belong in Category 2. Further, the exceedance rate of enterococcus, fecal and total coliform data does supports delisting.
Huntington City Beach (at the following locations: Beach Hut, Bluffs, Jack's Snackbar, 17 th Street)	Body Contact Recreation	Enterococcus, Fecal coliform, Total coliform	Delete specific locations	CALWQA name of the water body needed for consistency
Huntington Harbour (at the following locations: Admiralty Drive, Anderson Street, Clubhouse, Coral Cay, Davenport Beach, Harbour Channel, Humboldt Beach, Mother's Beach, Sea Gate, Sunset Aquatic Park, Trinidad Lane, 11 th Street)	Body Contact Recreation	Enterococcus, Fecal coliform, Total coliform	Remove from Category 2 and retain existing 303(d) listing for pathogens	Water body currently on the 2006 303(d) List for "pathogens". Bacterial data were re-assessed and indicate exceedances. Water body does not belong in Category 2; water body should remain on 303(d) List for pathogens
Mill Creek, Prado Area	Aquatic Life, Body Contact Recreation	Aluminum, Chromium, Mercury, Selenium, E. coli,	Delete E. coli	E.coli was not assessed
<u>Morning Canyon Creek</u>	<u>Aquatic Life</u>	<u>Ammonia (unionized), temperature, pH</u>	Add to Category 2	Insufficient data to make use determination; appropriately identified as Category 2 water
	<u>Body Contact Recreation</u>	<u>E. coli</u>		
Newport Beach (at the following locations: Corona del Mar, Little Corona, Newport Pier, Orange St, 15 th /16 th Street, 38 th Street - 9S, 52 nd /53 rd Street, South of the Santa Ana River, Balboa Pier, the Wedge)	Body Contact Recreation	Enterococcus, Fecal coliform, Total coliform	Delete from Category 2	Add to 303(d) List
<u>San Sevaine Channel</u>	<u>Aquatic life</u>	<u>Total nitrogen, pH</u>	Add to Category 2	Incorrectly identified as Category 3 water, appropriately identified as Category 2 water

Name of Water body as Listed in CALWQA	Beneficial Use Assessed and Fully Supported	Water Quality Indicators Assessed	Proposed Change	Rationale for Proposed Changes
San Timoteo Creek Reach 3 (Yucaipa Creek to headwaters)	Aquatic Life	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,2,4-Trichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Chloronaphthalene 2-Nitrophenol 4-Nitrophenol Acenaphthene Aldrin Butyl benzyl phthalate Carbon Disulfide Chlorobenzene (mono) Chloroform DDT Dichlorobenzene (mixed isomers) Dieldrin Diethyl phthalate Endosulfan Endrin Heptachlor epoxide Hexachlorobenzene/ HCB Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Methoxychlor Naphthalene Nitrobenzene Pentachlorophenol\Phenol Tetrachloroethylene/PCE Toxaphene	Add Reach designation	Full name of the water body needed for consistency
<u>Santa Ana Delhi Channel</u>	<u>Aquatic Life</u>	<u>Ammonia (unionized), temperature, pH</u>	Add to Category 2	Insufficient data to make use determination; appropriately identified as Category 2 water
	<u>Body Contact Recreation</u>	<u>E. Coli</u>		
<u>Santa Ana River, Reach 2</u>	<u>Aquatic Life</u>	<u>Alachlor, Atrazine, Azinphos-methyl (Guthion), Carbaryl, Carbofuran, Chlorpyrifos, DDE, Diazinon, Dieldrin, Disulfoton, Malathion, Methyl Parathion, Molinate, Simazine, Thiobencarb/Bolero</u>	Add to Category 2	Insufficient data to make use determination; appropriately identified as Category 2 water
	<u>Body Contact Recreation</u>	<u>E. Coli</u>		

Name of Water body as Listed in CALWQA	Beneficial Use Assessed and Fully Supported	Water Quality Indicators Assessed	Proposed Change	Rationale for Proposed Changes
<u>Santa Ana River, Reach 5</u>	<u>Aquatic Life</u>	<u>Alachlor, Atrazine, Azinphos-methyl (Guthion), Carbaryl, Carbofuran, Chlorpyrifos, DDE, Diazinon, Dieldrin, Disulfoton, Malathion, Methyl Parathion, Molinate, Simazine, Thiobencarb/Bolero</u>	Add to Category 2	Insufficient data to make use determination; appropriately identified as Category 2 water
Santiago Creek Reach 1	Body Contact Recreation	E. Coli	None	n/a
Santiago Creek Reach 4	Body Contact Recreation	E. Coli	None	n/a
<u>Seal Beach/ Surfside (Sea Way, 1st Street, 8th Street, 14th Street, 100 yards South of Pier)</u>	<u>Body Contact Recreation</u>	<u>Enterococcus, Fecal coliform, Total coliform</u>	Delete from Category 2	Seal Beach currently on the 2006 303(d) List for "pathogens". Data were reassessed and indicate exceedances at the specific 1 st Street Drain location for enterococcus.
Sunset Beach	Body Contact Recreation	Enterococcus, Fecal coliform, Total coliform	None	n/a
<u>Temescal Creek, Reach 6 (Elsinore groundwater subbasin boundary to Lake Elsinore outlet)</u>	<u>Body Contact Recreation</u>	<u>E. Coli</u>	Add to Category 2	Insufficient data to make use determination; appropriately identified as Category 2 water

Table 2

**Category 3 List of Water Bodies
(Insufficient Data to Make Use Determination)**

Proposed changes to the April 24, 2009 recommended Category 3 water body List are shown in ~~strikeout~~ for deletions and underline for additions.

Name of Water body as Listed in CALWQA	Beneficial Use Assessed	Water Quality Indicators Assessed	Proposed Change	Rationale for Proposed Changes
Chino Creek Reach 1a <u>(Santa Ana River R3 confluence to just downstream of confluence with Mill Creek)</u>	Aquatic Life	Pesticides: Alachlor, Atrazine, Azinphos-methyl (Guthion), Carbaryl, Carbofuran, Chlorpyrifos, DDE, Hexachlorobenzene/ HCB, Malathion, Methyl Parathion, Molinate, Simazine, Thiobencarb/Bolero	Add Reach designation	Full name of the water body needed for consistency
<u>Newport Bay (Turning Basin and South Lido Channel to east end of H-J Moorings)</u>	<u>Aquatic Life</u>	<u>Copper, Mercury, Zinc</u>	Add water body	Data assessed insufficient to make use determination
San Sevaine Creek	<u>Aquatic Life</u> <u>Municipal water supply</u>	<u>pH</u> <u>Chloride, TDS, sodium, sulfates, total nitrogen</u>	Add to Category 2	Appropriately identified under Category 2

Table 3

**Category 4 List of Water Bodies
(one or more uses not supported; no TMDL required or
has been established for ALL water body pollutants)**

Proposed changes to the April 24, 2009 recommended Category 4 water body List are shown in strikethrough for deletions and underline for additions.

Name of Water body as Listed in CALWQA	Beneficial Use	Pollutant(s)	Proposed Change	Rationale for Proposed Changes
Newport Bay	Body Contact Recreation	Bacterial indicators²	Delete from Category 4A and move to Category 5	Full name of the water body needed for consistency and correct name of listing. Water body is currently on the 2006 303(d) List for pollutants other than bacteria; no TMDL has yet been established for some of these pollutants. Therefore water should be placed on Category 5. Retain water body on 303(d) List

Table 4

**Category 5 Water Bodies
PROPOSED SECTION 303(D) LIST OF IMPAIRED WATERS**

Proposed changes to the April 24, 2009 recommended 303(d) List are shown in ~~strikeout~~ for deletions and underline for additions

Name of Water body as Listed in CALWQA	Beneficial Use	Pollutant(s)	TMDL Schedule (As soon as possible but no later than the year specified)	Proposed Change	Rationale for Proposed Changes
Bolsa Chica Channel	Aquatic Life	Ammonia <u>(unionized)</u>	2021	Add "unionized"	The word "unionized" was inadvertently omitted
Borrego Creek (Downstream of <u>(from Irvine Blvd to San Diego Creek Reach 2)</u>)	Aquatic Life	Ammonia <u>(unionized)</u>	2021	Add "unionized"	The word "unionized" was inadvertently omitted; specific reach identified
Chino Creek Reach 1B (<u>Mill Creek confl to start of concrete lined channel</u>)	Aquatic Life	COD	2021	Add Reach designation	Full name of the water body needed for consistency and correct name of listing.
Chino Creek Reach 2 (<u>Beginning of concrete channel to confl w San Antonio Creek</u>)	Aquatic Life	pH	2021	Add Reach designation	Full name of the water body needed for consistency and correct name of listing.
City Creek	Aquatic Life	Cadmium	2021	None	n/a

Name of Water body as Listed in CALWQA	Beneficial Use	Pollutant(s)	TMDL Schedule (As soon as possible but no later than the year specified)	Proposed Change	Rationale for Proposed Changes
Cucamonga Creek Reach 1 (Valley Reach)	Aquatic Life	pH, copper, zinc	2021	Add Reach designation Delete pH listing	Full name of the water body needed for consistency and correct name of listing. pH inadvertently identified as meeting listing criteria, however reassessment of pH data does not support listing.
Cucamonga Creek Reach 2 (Mountain Reach)	Aquatic Life	pH	2021	Add Reach designation	Full name of the water body needed for consistency and correct name of listing.
East Gardengrove Wintersburg Channel	Aquatic Life	Ammonia (<u>unionized</u>)	2021	Add "unionized"	The word "unionized" was inadvertently omitted
Lake Elsinore	Aquatic Life	Sediment toxicity	2021	None	n/a
Newport Beach (south of Santa Ana River mouth)	Body Contact Recreation	Indicator bacteria <u>enterococcus, fecal coliform,</u>	2021	None	Bacterial indicator data were reassessed resulting in recommended listings for enterococcus and fecal coliform. Comment added to CALWQA database with specific location of exceedances (south of Santa Ana River mouth).
Newport Slough	Body Contact Recreation	<u>Enterococcus, fecal coliform, total coliform</u>	<u>2021</u>	Add additional indicator bacteria	Additional indicator bacteria were inadvertently omitted
Peters Canyon Channel	Aquatic Life	pH	2021	None	n/a

Name of Water body as Listed in CALWQA	Beneficial Use	Pollutant(s)	TMDL Schedule (As soon as possible but no later than the year specified)	Proposed Change	Rationale for Proposed Changes
Rathbone (<u>Rathbun</u>) Creek	Aquatic Life	Cadmium, copper	2021	Add alternative water body name spelling	Full name of the water body needed for consistency and correct name of listing.
San Antonio Creek	Aquatic Life	pH	2021	None	n/a
Santa Ana River Reach 3	Aquatic Life	Copper (wet season)	2021	None	n/a
<u>Santa Ana River Reach 6</u>	<u>Aquatic Life</u>	<u>Cadmium</u>	<u>2021</u>	Add to 303(d) List	Listing mistakenly left off of list. Data assessed indicates exceedances.
<u>Seal Beach</u>	<u>Body Contact Recreation</u>	<u>Enterococcus</u>	<u>2019</u>	Move from Category 2 to 303(d) List and add comment to existing 303(d) listing for Seal Beach.	Water body currently on the 2006 303(d) List for "enterococcus" with a TMDL schedule of 2019. Bacterial data were re-assessed and indicate only enterococcus exceedances at 1 st Street Drain.
Serrano Creek	Aquatic Life	pH, <u>ammonia (unionized)</u>	2021	Add ammonia (unionized) to 303(d) List	Listing mistakenly left off of list. Data assessed indicates exceedances.
Temescal Creek Reach 1	Aquatic Life	pH	2021	None	n/a

Table 5

Proposed Water bodies to be Delisted from the 303(d) List

Proposed changes to the April 24, 2009 water bodies to be delisted from the 303(d) List are shown in strikeout for deletions and underline for additions

Name of Water body as Listed in CALWQA	Pollutant(s)	Justification
Big Bear Lake	Sedimentation/siltation	Incorrect listing
	Copper	Current data show standards met
Grout Creek	Metals	Incorrect use of <i>Corbicula</i> tissue data
<u>Huntington Beach State Park</u>	<u>Enterococcus, Indicator bacteria</u>	<u>The exceedance rate of enterococcus, fecal and total coliform data does not result in a listing.</u>
Knickerbocker Creek	Metals	Incorrect use of <i>Corbicula</i> tissue data
San Diego Creek, Reach 2	Metals (lead, chromium, arsenic, cadmium, silver, zinc, nickel)	The number of exceedances found does not meet the Listing Policy's criteria for listing

CALWQA WATER BODY TABLES

October 7, 2009

2008 CALIFORNIA WATERS SUPPORTING SOME CALIFORNIA BENEFICIAL USES

Core Beneficial Uses

Aquatic Life Support

Drinking Water Supply
 Fish Consumption
 Secondary Contact
 Shellfishing

Applicable California Beneficial Uses

Cold Freshwater Habitat, Estuarine Habitat, Fish Migration, Fish Spawning, Freshwater Replenishment, Inland Saline Water Habitat, Limited Warmwater, Marine Habitat, Preservation of Areas of Special Biological Significance, Preservation of Rare & Endangered Species, Warm Freshwater Habitat, Wetland Habitat, Wildlife Habitat
 Municipal & Domestic Supply
 Commercial or recreational collection of fish, shellfish, or organisms, Subsistence Fishing
 Non-Contact Recreation
 Shellfish Harvesting

Category 2 Criteria: 1) A water that supports some, but not all, of its California beneficial uses; and 2) has other uses that are not assessed or lack sufficient information to be assessed.

* USGS HUC = US Geological Survey Hydrologic Unit Code. Calwater = State Water Resources Control Board hydrological subunit area or even smaller planning watershed.

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	<ul style="list-style-type: none"> • CORE BENEFICIAL USE <i>California Beneficial Use</i> <ul style="list-style-type: none"> ▪ <u>Pollutant</u> 	ESTIMATED AREA ASSESSED
8	Bonita Creek	Coastal & Bay Shoreline	80111000 / 18070201	<ul style="list-style-type: none"> • Aquatic Life Support <ul style="list-style-type: none"> ◦ <i>Warm Freshwater Habitat</i> <ul style="list-style-type: none"> ▪ <u>Chlorpyrifos</u> ▪ <u>Malathion</u> 	3.8 Miles

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	<ul style="list-style-type: none"> • CORE BENEFICIAL USE <i>California Beneficial Use</i> <ul style="list-style-type: none"> ▪ <u>Pollutant</u> 	ESTIMATED AREA ASSESSED
8	Borrego Creek (from Irvine Blvd up to State Route 241)	Coastal & Bay Shoreline	80111000 / 18070201	<ul style="list-style-type: none"> • Aquatic Life Support <ul style="list-style-type: none"> ○ <i>Warm Freshwater Habitat</i> <ul style="list-style-type: none"> ▪ <u>Ammonia (Unionized)</u> ▪ <u>Temperature, water</u> ▪ <u>pH</u> 	3 Miles
8	City Creek	River & Stream	80152000 / 18070203	<ul style="list-style-type: none"> • Aquatic Life Support <ul style="list-style-type: none"> ○ <i>Warm Freshwater Habitat</i> <ul style="list-style-type: none"> ▪ <u>Cadmium</u> ○ <i>Wildlife Habitat</i> <ul style="list-style-type: none"> ▪ <u>Arsenic</u> ▪ <u>Chloride</u> ▪ <u>Copper</u> ▪ <u>Iron</u> ▪ <u>Lead</u> ▪ <u>Mercury</u> ▪ <u>Selenium</u> ▪ <u>Silver</u> ▪ <u>Zinc</u> 	14 Miles
8	Crystal Cove State Park	Coastal & Bay Shoreline	80111000 / 18070201	<ul style="list-style-type: none"> • Swimming <ul style="list-style-type: none"> ○ <i>Water Contact Recreation</i> <ul style="list-style-type: none"> ▪ <u>Enterococcus</u> ▪ <u>Fecal Coliform</u> 	2.4 Miles

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	<ul style="list-style-type: none"> • CORE BENEFICIAL USE <i>California Beneficial Use</i> ▪ <u>Pollutant</u> ▪ <u>Total Coliform</u> 	ESTIMATED AREA ASSESSED
8	Day Creek	River & Stream	80121000 / 18070203	<ul style="list-style-type: none"> • Drinking Water Supply <ul style="list-style-type: none"> ○ <i>Municipal & Domestic Supply</i> ▪ <u>Boron</u> • Aquatic Life Support <ul style="list-style-type: none"> ○ <i>Cold Freshwater Habitat</i> ▪ <u>pH</u> 	15 Miles
8	Goldenstar Creek	River & Stream	80126000 / 18070203	<ul style="list-style-type: none"> • Swimming <ul style="list-style-type: none"> ○ <i>Water Contact Recreation</i> ▪ <u>Escherichia coli (E. Coli)</u> • Aquatic Life Support <ul style="list-style-type: none"> ○ <i>Warm Freshwater Habitat</i> ▪ <u>Escherichia coli (E. Coli)</u> 	2.4 Miles
8	Hole Lake	Lake & Reservoir	80126000 / 18070203	<ul style="list-style-type: none"> • Aquatic Life Support <ul style="list-style-type: none"> ○ <i>Warm Freshwater Habitat</i> ▪ <u>pH</u> 	16 Acres
				<ul style="list-style-type: none"> • Swimming 	

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	CORE BENEFICIAL USE <i>California Beneficial Use</i>	ESTIMATED AREA ASSESSED
8	Huntington City Beach	Coastal & Bay Shoreline	80111000 / 18070201	<ul style="list-style-type: none"> • <i>Water Contact Recreation</i> <ul style="list-style-type: none"> ▪ <u>Enterococcus</u> ▪ <u>Fecal Coliform</u> ▪ <u>Total Coliform</u> 	3.4 Miles
8	Morning Canyon Creek	River & Stream	80111000 / 18070201	<ul style="list-style-type: none"> • <i>Swimming</i> <ul style="list-style-type: none"> ○ <i>Water Contact Recreation</i> <ul style="list-style-type: none"> ▪ <u>Escherichia coli (E. Coli)</u> • <i>Aquatic Life Support</i> <ul style="list-style-type: none"> ○ <i>Warm Freshwater Habitat</i> <ul style="list-style-type: none"> ▪ <u>Ammonia (Unionized)</u> ▪ <u>Temperature, water</u> ▪ <u>pH</u> 	1.1 Miles
8	San Sevaine Channel	River & Stream	80121000 / 18070203	<ul style="list-style-type: none"> • <i>Aquatic Life Support</i> <ul style="list-style-type: none"> ○ <i>Warm Freshwater Habitat</i> <ul style="list-style-type: none"> ▪ <u>Total Nitrogen as N</u> 	9.3 Miles
8	San Timoteo Creek Reach 3 (Yucaipa Creek to Headwaters)	River & Stream	80152000 / 18070202	<ul style="list-style-type: none"> • <i>Aquatic Life Support</i> <ul style="list-style-type: none"> ○ <i>Wildlife Habitat</i> <ul style="list-style-type: none"> ▪ <u>1,1,2,2-Tetrachloroethane</u> ▪ <u>1,1,2-Trichloroethane</u> ▪ <u>1,2,4-Trichlorobenzene</u> 	23 Miles

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	CORE BENEFICIAL USE <i>California Beneficial Use</i>	ESTIMATED AREA ASSESSED
				<ul style="list-style-type: none"> ▪ <u>Pollutant</u> ▪ <u>1,2-Dichloroethane</u> ▪ <u>1,2-Dichloropropane</u> ▪ <u>2,4,6-Trichlorophenol</u> ▪ <u>2,4-Dichlorophenol</u> ▪ <u>2,4-Dinitrophenol</u> ▪ <u>2,4-Dinitrotoluene</u> ▪ <u>2,6-Dinitrotoluene</u> ▪ <u>2-Chloronaphthalene</u> ▪ <u>2-Nitrophenol</u> ▪ <u>4-Nitrophenol</u> ▪ <u>Acenaphthene</u> ▪ <u>Aldrin</u> ▪ <u>Butyl benzyl phthalate</u> ▪ <u>Carbon Disulfide</u> ▪ <u>Chlorobenzene (mono)</u> ▪ <u>Chloroform</u> ▪ <u>DDT</u> <u>(Dichlorodiphenyltrichloroethane)</u> ▪ <u>Dichlorobenzene (mixed isomers)</u> ▪ <u>Dieldrin</u> ▪ <u>Diethyl phthalate</u> ▪ <u>Endosulfan</u> ▪ <u>Endrin</u> ▪ <u>Heptachlor epoxide</u> ▪ <u>Hexachlorobenzene/ HCB</u> 	

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	<ul style="list-style-type: none"> CORE BENEFICIAL USE <ul style="list-style-type: none"> <i>California Beneficial Use</i> <ul style="list-style-type: none"> <u>Pollutant</u> <ul style="list-style-type: none"> <u>Hexachlorobutadiene</u> <u>Hexachlorocyclopentadiene</u> <u>Hexachloroethane</u> <u>Methoxychlor</u> <u>Naphthalene</u> <u>Nitrobenzene</u> <u>Pentachlorophenol (PCP)</u> <u>Phenol</u> <u>Tetrachloroethylene/PCE</u> <u>Toxaphene</u> 	ESTIMATED AREA ASSESSED
8	Santa Ana Delhi Channel	River & Stream	80111000 / 18070201	<ul style="list-style-type: none"> Aquatic Life Support <ul style="list-style-type: none"> <i>Warm Freshwater Habitat</i> <ul style="list-style-type: none"> <u>Ammonia (Unionized)</u> <u>Escherichia coli (E. Coli)</u> <u>Temperature, water</u> <u>pH</u> 	6.8 Miles
8	Santa Ana River, Reach 2	River & Stream	80113000 / 18070201	<ul style="list-style-type: none"> Swimming <ul style="list-style-type: none"> <i>Water Contact Recreation</i> <ul style="list-style-type: none"> <u>Escherichia coli (E. Coli)</u> Aquatic Life Support <ul style="list-style-type: none"> <i>Warm Freshwater Habitat</i> <ul style="list-style-type: none"> <u>Alachlor</u> 	20 Miles

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	CORE BENEFICIAL USE <i>California Beneficial Use</i>	ESTIMATED AREA ASSESSED
				<ul style="list-style-type: none"> • <u>Pollutant</u> <ul style="list-style-type: none"> ▪ <u>Atrazine</u> ▪ <u>Azinphos-methyl (Guthion)</u> ▪ <u>Carbaryl</u> ▪ <u>Carbofuran</u> ▪ <u>Chlorpyrifos</u> ▪ <u>DDE</u> (<u>Dichlorodiphenyldichloro ethylene</u>) ▪ <u>Diazinon</u> ▪ <u>Dieldrin</u> ▪ <u>Disulfoton</u> ▪ <u>Malathion</u> ▪ <u>Methyl Parathion</u> ▪ <u>Molinate</u> ▪ <u>Simazine</u> ▪ <u>Thiobencarb/Bolero</u> 	
				<ul style="list-style-type: none"> • Aquatic Life Support <ul style="list-style-type: none"> ○ <i>Warm Freshwater Habitat</i> <ul style="list-style-type: none"> ▪ <u>Alachlor</u> ▪ <u>Atrazine</u> ▪ <u>Azinphos-methyl (Guthion)</u> ▪ <u>Carbaryl</u> ▪ <u>Carbofuran</u> ▪ <u>Chlorpyrifos</u> ▪ <u>DDE</u> 	
8	Santa Ana River, Reach 5	River & Stream	80152000 / 18070203		52 Miles

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	<ul style="list-style-type: none"> CORE BENEFICIAL USE <i>California Beneficial Use</i> <ul style="list-style-type: none"> <u>Pollutant</u> 	ESTIMATED AREA ASSESSED
				<ul style="list-style-type: none"> (Dichlorodiphenyldichloro ethylene) <u>Diazinon</u> <u>Dieldrin</u> <u>Disulfoton</u> <u>Malathion</u> <u>Methyl Parathion</u> <u>Molinate</u> <u>Simazine</u> <u>Thiobencarb/Bolero</u> 	
8	Santiago Creek, Reach 1	River & Stream	80111000 / 18070203	<ul style="list-style-type: none"> Swimming <ul style="list-style-type: none"> Water Contact Recreation <ul style="list-style-type: none"> <u>Escherichia coli (E. Coli)</u> 	17 Miles
8	Sunset Beach	Coastal & Bay Shoreline	80111000 / 18070201	<ul style="list-style-type: none"> Swimming <ul style="list-style-type: none"> Water Contact Recreation <ul style="list-style-type: none"> <u>Enterococcus</u> <u>Fecal Coliform</u> <u>Total Coliform</u> 	1.9 Miles
8	Temescal Creek, Reach 6 (Elsinore Groundwater sub	River & Stream	80135000 / 18070202	<ul style="list-style-type: none"> Swimming <ul style="list-style-type: none"> Water Contact Recreation 	5.4 Miles

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER/ USGS HUC	CORE BENEFICIAL USE <i>California Beneficial Use</i> ▪ <u>Pollutant</u>	ESTIMATED AREA ASSESSED
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basin boundary to Lake
Elsinore Outlet)

- Escherichia coli (E. Coli)

2008 CALIFORNIA WATERS WITH INSUFFICIENT INFORMATION TO ASSESS BENEFICIAL USES*

Core Beneficial Uses

Applicable California Beneficial Uses

Aquatic Life Support

Cold Freshwater Habitat, Estuarine Habitat, Fish Migration, Fish Spawning, Freshwater Replenishment, Inland Saline Water Habitat, Limited Warmwater, Marine Habitat, Preservation of Areas of Special Biological Significance, Preservation of Rare & Endangered Species, Warm Freshwater Habitat, Wetland Habitat, Wildlife Habitat

Drinking Water Supply

Municipal & Domestic Supply

Fish Consumption

Commercial or recreational collection of fish, shellfish, or organisms, Subsistence Fishing

Secondary Contact

Non-Contact Recreation

Shellfishing

Shellfish Harvesting

Category 3 Criteria: A water with water quality information that could not be used for an assessment, for reasons such as: monitoring data have poor quality assurance, not enough samples in a dataset, no existing numerical objective or evaluation guideline, the information alone cannot support an assessment, etc.

* Waters completely lacking water quality information are considered "not assessed". These waters are summarized at the end of this list.

** USGS HUC = US Geological Survey Hydrologic Unit Code. Calwater = State Water Resources Control Board hydrological subunit area or even smaller planning watershed.

REGION	WATER BODY NAME	WATER TYPE	WATERSHED** CALWATER / USGS HUC	CORE BENEFICIAL USE <i>California Beneficial Use</i> <u>Pollutant</u>	ESTIMATED AREA ASSESSED
				Aquatic Life Support	
				Warm Freshwater Habitat	
				<u>Alachlor</u>	
				<u>Atrazine</u>	
				<u>Azinphos-methyl</u>	
				(<u>Guthion</u>)	
				<u>Carbaryl</u>	
8	Chino Creek Reach 1A (Santa Ana River R5 confl to just downstream of confl with Mill Creek)	River & Stream	80121000 / 18070203	<u>Carbofuran</u>	0.79 Miles
				<u>Chlorpyrifos</u>	
				<u>DDE</u>	
				(<u>Dichlorodiphenyldichloroethylene</u>)	
				<u>Diazinon</u>	
				<u>Hexachlorobenzene/</u>	
				<u>HCB</u>	

REGION	WATER BODY NAME	WATER TYPE	WATERSHED** CALWATER / USGS HUC	CORE BENEFICIAL USE <i>California Beneficial Use</i> <u>Pollutant</u>	ESTIMATED AREA ASSESSED
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Malathion
 Methyl Parathion
 Molinate
 Simazine
 Thiobencarb/Bolero

**2008 CALIFORNIA LIST OF WATER QUALITY LIMITED SEGMENTS
 BEING ADDRESSED BY USEPA APPROVED TMDLS**

Category 4A Criteria: 1) A water segment where ALL its 303(d) listings are being addressed; and 2) at least one of those listings is being addressed by a USEPA approved TMDL.

* USGS HUC = US Geological Survey Hydrologic Unit Code. Calwater = State Water Resources Control Board hydrological subunit area or even smaller planning watershed.

** "Addressed By" is defined as: B = Being addressed by USEPA approved TMDL and C = Being addressed by action(s) other than a TMDL

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT		ESTIMATED AREA ASSESSED	FIRST YEAR LISTED	ADDRESSED BY**	USEPA TMDL APPROVAL DATE
				POTENTIAL SOURCES <i>Relevant Notes</i>					
8	San Diego Creek Reach 2	River & Stream	80111000 / 18070201	<u>Nutrients</u>		6.3 Miles	1996	B	1999
				Agriculture Groundwater					
				Loadings Urban Runoff/Storm Sewers					
8	San Diego Creek Reach 2	River & Stream	80111000 / 18070201	<u>Sedimentation/Siltation</u>		6.3 Miles	1996	B	1999
				Agriculture Channel Erosion Construction/Land					
				Development Erosion/Siltation					
8	San Diego Creek Reach 2	River & Stream	80111000 / 18070201	<u>Unknown Toxicity</u>		6.3 Miles	1996	B	2004
				Unknown Nonpoint Source					

2008 CALIFORNIA WATERS WITH INSUFFICIENT INFORMATION TO ASSESS BENEFICIAL USES*

Core Beneficial Uses

Applicable California Beneficial Uses

Aquatic Life Support

Cold Freshwater Habitat, Estuarine Habitat, Fish Migration, Fish Spawning, Freshwater Replenishment, Inland Saline Water Habitat, Limited Warmwater, Marine Habitat, Preservation of Areas of Special Biological Significance, Preservation of Rare & Endangered Species, Warm Freshwater Habitat, Wetland Habitat, Wildlife Habitat

Drinking Water Supply
 Fish Consumption
 Secondary Contact
 Shellfishing

Municipal & Domestic Supply
 Commercial or recreational collection of fish, shellfish, or organisms, Subsistence Fishing
 Non-Contact Recreation
 Shellfish Harvesting

Category 3 Criteria: A water with water quality information that could not be used for an assessment, for reasons such as: monitoring data have poor quality assurance, not enough samples in a dataset, no existing numerical objective or evaluation guideline, the information alone cannot support an assessment, etc.

* Waters completely lacking water quality information are considered "not assessed". These waters are summarized at the end of this list.

** USGS HUC = US Geological Survey Hydrologic Unit Code. Calwater = State Water Resources Control Board hydrological subunit area or even smaller planning watershed.

REGION	WATER BODY NAME	WATER TYPE	WATERSHED** CALWATER / USGS HUC	CORE BENEFICIAL USE		ESTIMATED AREA ASSESSED
				California Beneficial Use	Pollutant	
8	Chino Creek Reach 1A (Santa Ana River R5 confl to just downstream of confl with Mill Creek)	River & Stream	80121000 / 18070203	Aquatic Life Support	Warm Freshwater Habitat <u>Alachlor</u> <u>Atrazine</u> <u>Azinphos-methyl</u> (Guthion) <u>Carbaryl</u> <u>Carbofuran</u> <u>Chlorpyrifos</u> <u>DDE</u> (Dichlorodiphenyldichloroethylene) <u>Diazinon</u> <u>Hexachlorobenzene/</u> <u>HCB</u>	0.79 Miles
				Drinking Water Supply Fish Consumption Secondary Contact Shellfishing		

REGION WATER BODY NAME WATER TYPE WATERSHED**
CALWATER /
USGS HUC CORE BENEFICIAL USE ESTIMATED
AREA
ASSESSED

*California Beneficial Use
Pollutant*

Malathion
Methyl Parathion
Molinate
Simazine
Thiobencarb/Bolero

2008 CALIFORNIA 303(d) LIST OF WATER QUALITY LIMITED SEGMENTS*

Category 5 criteria: 1) A water segment where standards are not met and a TMDL is required, but not yet completed, for at least one of the pollutants being listed for this segment.

* USGS HUC = US Geological Survey Hydrologic Unit Code. Calwater = State Water Resources Control Board hydrological subunit area or even smaller planning watershed.

** TMDL requirement status definitions for listed pollutants are: A= TMDL still required, B= being addressed by USEPA approved TMDL, C= being addressed by action other than a TMDL

*** Dates relate to the TMDL requirement status, so a date for A= TMDL scheduled completion date, B= Date USEPA approved TMDL, and C= Completion date for action other than a TMDL

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	FIRST YEAR LISTED	TMDL REQUIREMENT STATUS**	DATE***			
8	Anaheim Bay	Bay & Harbor	80111000 / 1.80702e	<u>Dieldrin (tissue)</u> Source Unknown	402 Acres	2006	5A	2019			
				<i>This listing was made by USEPA.</i>							
				<u>Nickel</u> Source Unknown	402 Acres	2002	5A	2019			
				<i>This listing was made by USEPA.</i>							
8	Anaheim Bay	Bay & Harbor	80111000 / 1.80702e	<u>PCBs (Polychlorinated biphenyls) (tissue)</u> Source Unknown	402 Acres	2002	5A	2019			
				<i>This listing was made by USEPA.</i>							
8	Anaheim Bay	Bay & Harbor	80111000 / 1.80702e	<u>Sediment Toxicity</u> Source Unknown	402 Acres	2006	5A	2019			
				<i>This listing was made by USEPA.</i>							

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT		ESTIMATED FIRST AREA ASSESSED LISTED	TMDL REQUIREMENT STATUS**	DATE***	
				POTENTIAL SOURCES <i>Relevant Notes</i>					
8	Balboa Beach	Coastal & Bay Shoreline	80114000 / 18070201	<u>DDT</u> <u>(Dichlorodiphenyltrichloroethane)</u>		1.8 Miles	2006	5A	2019
				Source Unknown					
				<u>Dieldrin</u>		1.8 Miles	2006	5A	2019
				<u>PCBs (Polychlorinated biphenyls)</u>		1.8 Miles	2006	5A	2019
				Source Unknown					
8	Big Bear Lake	Lake & Reservoir	80171000 / 18070203	<u>Mercury</u>		2865 Acres	1994	5A	2007
				Resource Extraction					
				<u>Metals</u>		2865 Acres	1994	5A	2007
				Resource Extraction					
				<u>Noxious aquatic plants</u>		2865 Acres	1994	5B	2007
				Construction/Land Development Unknown Nonpoint Source					
				<u>Nutrients</u>		2865 Acres	1994	5B	2007
				Construction/Land Development Snow skiing					

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	TMDL YEAR REQUIREMENT STATUS**	DATE***
				activities			
				<u>PCBs (Polychlorinated biphenyls)</u>			
				Source Unknown	2865 Acres	2006	5A 2019
				<u>Ammonia (Unionized)</u>			
				Other Urban Runoff			
8	Bolsa Chica Channel	River & Stream	80111000 / 18070201	Storm sewers Surface Runoff Unknown Nonpoint Source	5.1 Miles	2008	5A 2021
				<u>Copper</u>			
8	Bolsa Chica State Beach	Coastal & Bay Shoreline	80111000 / 18070201	Source Unknown	2.6 Miles	2002	5A 2019
				<i>This listing was made by USEPA.</i>			
				<u>Nickel</u>			
				Source Unknown	2.6 Miles	2002	5A 2019
				<i>This listing was made by USEPA.</i>			
				<u>Ammonia (Unionized)</u>			
				Other Urban Runoff			
8	Borrego Creek (from Irvine Blvd to San Diego Creek Reach 2)	River & Stream	80111000 / 18070203	Storm sewers	3.2 Miles	2008	5A 2021

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT		ESTIMATED FIRST AREA ASSESSED LISTED	TMDL YEAR REQUIREMENT STATUS**	DATE***	
				POTENTIAL SOURCES <i>Relevant Notes</i>					
				Surface Runoff Unknown Nonpoint Source					
8	Buck Gully Creek	River & Stream	80111000 / 18070201	<u>Fecal Coliform</u> Source Unknown		0.3 Miles	2002	5A	2019
				<i>Listing is downstream of Pacific Coast Highway.</i>					
				<u>Total Coliform</u> Source Unknown		0.3 Miles	2002	5A	2019
				<i>Listing is downstream of Pacific Coast Highway.</i>					
8	Canyon Lake (Railroad Canyon Reservoir)	Lake & Reservoir	80211000 / 18070202	<u>Nutrients</u> Nonpoint Source		453 Acres	1998	5B	2005
				<u>Pathogens</u> Nonpoint Source		453 Acres	1998	5A	2006
8	Chino Creek Reach 1B (Mill Creek confl to start of concrete lined channel)	River & Stream	80121000 / 18070203	<u>Chemical oxygen demand (COD)</u> Source Unknown		7 Miles	2008	5A	2021
8	Chino Creek Reach 2 (Beginning of concrete channel to confl w San	River & Stream	80121000 / 18070203	<u>Coliform Bacteria</u> Unknown		2.5 Miles	1998	5B	2007

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	YEAR REQUIRED	TMDL REQUIREMENT STATUS**	DATE***
	Antonio Creek)			Nonpoint Source				
				<u>pH</u>				
				Source Unknown	2.5 Miles	2008	5A	2021
8	Cucamonga Creek Reach 1 (Valley Reach)	River & Stream	80121000 / 18070203	<u>Coliform Bacteria</u> Unknown Nonpoint Source	9.6 Miles	1998	5B	2007
				<u>Copper</u>				
				Source Unknown	9.6 Miles	2008	5A	2021
				<u>Zinc</u>				
				Source Unknown	9.6 Miles	2008	5A	2021
8	Cucamonga Creek Reach 2 (Mountain Reach)	River & Stream	80124020 / 18070203	<u>pH</u>				
				Source Unknown	13 Miles	2008	5A	2021
8	East Gardengrove Wintersburg Channel	River & Stream	80111000 / 18070201	<u>Ammonia (Unionized)</u> Source Unknown	2.9 Miles	2008	5A	2021
8	Elsinore, Lake	Lake & Reservoir	80231000 / 18070202	<u>Nutrients</u> Unknown Nonpoint Source	2431 Acres	1994	5B	2005
				<u>Organic Enrichment/Low Dissolved Oxygen</u>				
				Unknown	2431 Acres	1994	5B	2005

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	FIRST YEAR LISTED	TMDL REQUIREMENT STATUS**	DATE***
				Nonpoint Source				
				<u>PCBs (Polychlorinated biphenyls)</u>				
				Source Unknown	2431 Acres	2006	5A	2019
				<u>Sediment Toxicity</u>				
				Source Unknown	2431 Acres	2008	5A	2021
				<u>Unknown Toxicity</u>				
				Source Unknown	2431 Acres	1994	5A	2007
				<u>Pathogens</u>				
8	Fulmor, Lake	Lake & Reservoir	80221000 / 18070202	Unknown Nonpoint Source	4.2 Acres	1998	5A	2019
				<u>Nutrients</u>				
8	Grout Creek	River & Stream	80171000 / 18070203	Unknown Nonpoint Source	3.5 Miles	1994	5A	2008
				<u>PCBs (Polychlorinated biphenyls)</u>				
8	Huntington Beach State Park	Coastal & Bay Shoreline	80111000 / 18070201	Source Unknown	5.8 Miles	2006	5A	2019
				<u>Chlordane</u>				
8	Huntington Harbour	Bay & Harbor	80111000 / 18070201	Source Unknown	221 Acres	2006	5A	2019
				<u>Copper</u>				

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	FIRST YEAR REQUIREMENT DATE***	TMDL REQUIREMENT STATUS**
				Source Unknown	221 Acres	2002	5A
				<i>This listing was made by USEPA.</i>			
				<u>Lead</u>			
				Source Unknown	221 Acres	2006	5A
				<u>Nickel</u>			
				Source Unknown	221 Acres	2002	5A
				<i>This listing was made by USEPA.</i>			
				<u>PCBs (Polychlorinated biphenyls) (tissue)</u>			
				Source Unknown	221 Acres	2002	5A
				<i>This listing was made by USEPA.</i>			
				<u>Pathogens</u>			
				Urban Runoff/Storm Sewers	221 Acres	1992	5A
				<i>The data shows that the impairment is focused at the 11th Street, Anderson Street Marina, Clubhouse Marina and Sunset Aquatic Park locations. These locations exceed mainly the enterococcus standard.</i>			
				<u>Sediment Toxicity</u>			
				Source Unknown	221 Acres	2006	5A
				<u>Pathogens</u>			

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT		ESTIMATED FIRST AREA ASSESSED LISTED	YEAR REQUIRED	TMDL REQUIREMENT STATUS**	DATE***
				SOURCES	POTENTIAL <i>Relevant Notes</i>				
8	Knickerbocker Creek	River & Stream	80171000 / 18070203	Unknown	Nonpoint Source	2 Miles	2006	5A	2005

For 2006, pathogens was moved by USEPA from the being addressed list back to the 303(d) list pending completion and USEPA approval of a TMDL.

8	Los Trancos Creek (Crystal Cove Creek)	River & Stream	80111000 / 18070201	<u>Fecal Coliform</u>		0.19 Miles	2006	5A	2019
				Source Unknown	<i>Listing is downstream of Pacific Coast Highway.</i>				
				<u>Total Coliform</u>		0.19 Miles	2006	5A	2019
				Source Unknown	<i>Listing is downstream of Pacific Coast Highway.</i>				
8	Lytle Creek	River & Stream	80141000 / 18070203	<u>Pathogens</u> Unknown Nonpoint Source		41 Miles	2006	5A	2019
8	Mill Creek (Prado Area)	River & Stream	80121000 / 18070203	<u>Nutrients</u>		1.6 Miles	1996	5A	2019
				Agriculture Dairies					
				<u>Pathogens</u>		1.6 Miles	1996	5B	2007
Dairies									
				<u>Total Suspended Solids</u>					

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED AREA ASSESSED	FIRST YEAR LISTED	TMDL REQUIREMENT STATUS**	DATE***
				<u>(TSS)</u> Dairies	1.6 Miles	1996	5A	2019
8	Mill Creek Reach 1	River & Stream	80156000 / 18070203	<u>Pathogens</u> Unknown Nonpoint Source	12 Miles	1998	5A	2019
8	Mill Creek Reach 2	River & Stream	80158000 / 18070203	<u>Pathogens</u> Unknown Nonpoint Source	12 Miles	1998	5A	2019
8	Mountain Home Creek	River & Stream	80158000 / 18070203	<u>Pathogens</u> Unknown Nonpoint Source	3.7 Miles	1998	5A	2019
8	Mountain Home Creek, East Fork	River & Stream	80158000 / 18070203	<u>Pathogens</u> Unknown Nonpoint Source	5.1 Miles	1998	5A	2019
8	Newport Bay, Lower (entire lower bay, including Rhine Channel, Turning Basin and South Lido Channel to east end of H-J Moorings)	Bay & Harbor	80114000 / 18070201	<u>Chlordane</u> Source Unknown	767 Acres	2006	5A	2019
				<u>Copper</u>	767 Acres	2006	5A	2007

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	FIRST YEAR REQUIREMENT STATUS**	TMDL REQUIREMENT STATUS**	DATE***
				Source Unknown				
				<u>DDT</u> <u>(Dichlorodiphenyltrichloroethane)</u>				
				Source Unknown	767 Acres	1990	5A	2019
				<u>Indicator Bacteria</u>				
				Source Unknown	767 Acres		5B	2000
				<u>Nutrients</u>				
				Source Unknown	767 Acres	1992	5B	1999
				<u>PCBs (Polychlorinated biphenyls)</u>				
				Source Unknown	767 Acres	1990	5A	2019
				<u>Pesticides</u>				
				Agriculture Contaminated Sediments	767 Acres	1990	5B	2004
				<u>Sediment Toxicity</u>				
				Source Unknown	767 Acres	2006	5A	2019
8	Newport Bay, Upper (Ecological Reserve)	Estuary	80111000 / 18070201	<u>Chlordane</u>				
				Source Unknown	653 Acres	2006	5A	2019
				<u>Copper</u>	653 Acres	2006	5A	2007

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	YEAR REQUIRED	TMDL REQUIREMENT STATUS**	DATE***
				Source Unknown				
				<u>DDT</u> <u>(Dichlorodiphenyltrichloroethane)</u>				
				Source Unknown	653 Acres	2006	5A	2019
				<u>Indicator Bacteria</u>				
				Source Unknown	653 Acres	2008	5B	2000
				<u>Metals</u>				
				Urban Runoff/Storm Sewers	653 Acres	1992	5A	2019
				<u>Nutrients</u>				
				Source Unknown	653 Acres	2006	5B	1999
				<u>PCBs (Polychlorinated biphenyls)</u>				
				Source Unknown	653 Acres	2006	5A	2019
				<u>Pesticides</u>				
				Agriculture Unknown Nonpoint Source	653 Acres	1992	5B	2004
				<u>Sediment Toxicity</u>				
				Source Unknown	653 Acres	2006	5A	2019
				<u>Sedimentation/Siltation</u>				
				Agriculture Channel Erosion	653 Acres	2006	5B	1999

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT		ESTIMATED FIRST AREA ASSESSED LISTED	TMDL YEAR REQUIREMENT STATUS**	DATE***	
				POTENTIAL SOURCES <i>Relevant Notes</i>					
				Construction/Land Development Erosion/Siltation					
8	Newport Beach	Coastal & Bay Shoreline	80114000 / 18070201	Enterococcus Urban Runoff/Storm Sewers		4.1 Miles	2008	5A	2021
				<i>The impairment is at the location south of the Santa Ana River.</i>					
				Fecal Coliform Urban Runoff/Storm Sewers		4.1 Miles	2008	5A	2021
				<i>The impairment is at the sampling sation located south of the Santa Ana River.</i>					
8	Newport Slough	River & Stream	80111000 / 18070201	Enterococcus Source Unknown		1.3 Miles	2008	5A	2021
				Fecal Coliform Source Unknown		1.3 Miles	2008	5A	2021
				Total Coliform Source Unknown		1.3 Miles	2008	5A	2021
8	Peters Canyon Channel	River & Stream	80111000 / 18070201	DDT <u>(Dichlorodiphenyltrichloroethane)</u>		3 Miles	2006	5A	2019

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	YEAR REQUIRED	TMDL REQUIREMENT STATUS**	DATE***
				Source Unknown				
				Toxaphene				
				Source Unknown	3 Miles	2006	5A	2019
				pH				
				Unknown				
				Nonpoint Source				
				Urban	3 Miles	2008	5A	2021
				Runoff/Storm Sewers				
				Nutrients				
8	Prado Park Lake	Lake & Reservoir	80121000 / 18070203	Nonpoint Source	90 Acres	1998	5A	2019
				Pathogens				
				Nonpoint Source	90 Acres	1998	5B	2007
				Cadmium				
8	Rathbone (Rathbun) Creek	River & Stream	80171000 / 18070203	Source Unknown	4.7 Miles	2008	5A	2021
				Copper				
				Source Unknown	4.7 Miles	2008	5A	2021
				Nutrients				
				Snow skiing				
				activities				
				Unknown	4.7 Miles	1994	5A	2008
				Nonpoint Source				
				Sedimentation/Siltation				

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	FIRST YEAR LISTED	TMDL REQUIREMENT STATUS**	DATE***
				Snow skiing activities Unknown Nonpoint Source	4.7 Miles	1994	5A	2006
8	Rhine Channel	Bay & Harbor	80114000 / 18070201	<u>Copper</u> Source Unknown	20 Acres	2006	5A	2019
				<u>Lead</u> Source Unknown	20 Acres	2006	5A	2019
				<u>Mercury</u> Source Unknown	20 Acres	2006	5A	2019
				<u>PCBs (Polychlorinated biphenyls)</u> Source Unknown	20 Acres	2006	5A	2019
				<u>Sediment Toxicity</u> Source Unknown	20 Acres	2006	5A	2019
				<u>Zinc</u> Source Unknown	20 Acres	2006	5A	2019
8	San Antonio Creek	River & Stream	80121000 / 18070203	<u>pH</u> Source Unknown	23 Miles	2008	5A	2021
8	San Diego Creek Reach 1	River &	80111000 /	<u>Fecal Coliform</u> Other Urban	7.8 Miles	2002	5A	2019

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	FIRST YEAR LISTED	TMDL REQUIREMENT STATUS**	DATE***
		Stream	18070201	Runoff Urban Runoff/Storm Sewers				
				Nutrients Source Unknown	7.8 Miles	1996	5B	1999
				Pesticides Unknown Nonpoint Source	7.8 Miles	1990	5B	2004
				Sedimentation/Siltation Source Unknown	7.8 Miles	1996	5B	1999
				Selenium Source Unknown	7.8 Miles	2006	5A	2007
				Toxaphene Source Unknown	7.8 Miles	2006	5A	2019
8	Santa Ana River Reach 6	River & Stream	80157000 / 18070203	Cadmium Source Unknown	27 Miles	2008	5A	2021
8	Santa Ana River, Reach 3	River & Stream	80121000 / 18070203	Copper Source Unknown	26 Miles	2008	5A	2021
				<i>The impairment is during the wet season only.</i>				
				Pathogens				

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT		ESTIMATED FIRST AREA ASSESSED LISTED	TMDL YEAR REQUIREMENT STATUS**	DATE***	
				POTENTIAL SOURCES <i>Relevant Notes</i>					
				Dairies		26 Miles	1994	5B	2007
8	Santa Ana River, Reach 4	River & Stream	80127000 / 18070203	<u>Pathogens</u> Nonpoint Source		14 Miles	1994	5A	2019
8	Santiago Creek, Reach 4	River & Stream	80112000 / 18070203	<u>Salinity/TDS/Chlorides</u> Source Unknown		9.8 Miles	1996	5A	2019
8	Seal Beach	Coastal & Bay Shoreline	80111000 / 18070201	<u>Enterococcus</u> Urban Runoff/Storm Sewers <i>Impaired 50 yards around drain at 1st Street.</i>		0.53 Miles	2002	5A	2019
				<u>PCBs (Polychlorinated biphenyls)</u> Source Unknown		0.53 Miles	2006	5A	2019
8	Serrano Creek	River & Stream	80111000 / 18070201	<u>Ammonia (Unionized)</u> Source Unknown		7.2 Miles	2008	5A	2021
				<u>pH</u> Source Unknown		7.2 Miles	2008	5A	2021
8	Silverado Creek	River & Stream	80112000 / 18070203	<u>Pathogens</u> Unknown		11 Miles	1998	5A	2019

REGION	WATER BODY NAME	WATER TYPE	WATERSHED* CALWATER / USGS HUC	POLLUTANT POTENTIAL SOURCES <i>Relevant Notes</i>	ESTIMATED FIRST AREA ASSESSED LISTED	FIRST YEAR LISTED	TMDL REQUIREMENT STATUS**	DATE***
				Nonpoint Source				
				<u>Salinity/TDS/Chlorides</u> Unknown Nonpoint Source	11 Miles	1996	5A	2019
				<u>Nutrients</u> Construction/Land Development				
8	Summit Creek	River & Stream	80171000 / 18070203		1.5 Miles	1998	5A	2008
				<u>pH</u> Source Unknown				
8	Temescal Creek, Reach 1	River & Stream	80125000 / 18070203		2.3 Miles	2008	5A	2021