

California Regional Water Quality Control Board  
Santa Ana Region

January 23, 2009

ITEM: 11

SUBJECT: Public Workshop Seeking Comments on the Proposed 2008 Integrated Report/303(d) List of Impaired Water Bodies in the Santa Ana Region.

**INTRODUCTION**

Every two years, the State of California is required by section 303(d) of the federal Clean Water Act (CWA) to develop and submit to the U.S. Environmental Protection Agency (USEPA) for approval a list of "water quality limited segments", waters where applicable water quality standards (which include beneficial uses and water quality objectives) are not being attained or are not expected to be attained with the implementation of technology-based controls. As part of this process, currently listed water bodies can be delisted when the evidence documents that the water body is meeting water quality standards or that the impairment was incorrectly identified. The resulting 303(d) list of impaired water bodies includes a description of the pollutants causing impairment and a schedule for developing a Total Maximum Daily Load (TMDL) for each pollutant. A TMDL is the maximum load of a pollutant that can be discharged and still ensure the attainment of applicable water quality standards. Implementation of the TMDL is typically conducted in accordance with an implementation plan and schedule adopted as an amendment to the Water Quality Control Plan (Basin Plan). However, as specified in the State Water Resources Control Board's (State Water Board or SWRCB) *Water Quality Control Policy for Addressing Impaired Waters: Regulatory Structure and Options* (SWRCB Resolution No. 2005-0050), the TMDL may be implemented through other regulatory or non-regulatory mechanisms. These include permitting actions, waste discharge prohibitions, interagency agreements, and regulatory/non-regulatory actions by other agencies.

The Santa Ana Region's 303(d) list was last reviewed and updated by the State Water Board in 2006. **The 2006 303(d) list, which serves as the basis for the present update, is shown in Attachment 1.**

In addition to CWA section 303(d), CWA section 305(b) requires states to report biennially to USEPA on the water quality conditions of its waters. The USEPA has issued guidance to the states that the 305(b) water quality assessment and 303(d) list of waters not meeting standards should be integrated in a single report (Guidance for the 2004 Assessment, Listing and Reporting Requirements Pursuant to 303(d) and 305(b) of Clean Water Act (July 2003)). For California, this "integrated report" is called the 2008 California 305(b)/303(d) Integrated Report (2008 Integrated Report) and satisfies both the CWA section 305(b) and section 303(d) requirements.

This report describes Board staff's assessment process, including analysis of data and information, and recommendations for additions, deletions and modifications to the 2006 CWA section 303(d) list of impaired water bodies and TMDL completion dates. This report also serves as the CWA section 305(b) report for waters in the Santa Ana Region.

The purpose of this public workshop is to solicit comments from the Regional Board and interested agencies and parties on staff's recommendations. Modifications to the 2008 Integrated Report for the Region will be made based on the comments received. The draft final Integrated Report will be presented to the Board for consideration at a subsequent public hearing. Upon Regional Board approval, the report will be forwarded to the State Water Board for consideration in the development and approval of the statewide Integrated Report.

### **ASSESSMENT PROTOCOL**

Staff used three (3) steps for the preparation of the 305(b) water quality assessment report and the update of the 303(d) list.

First, data were collected from various monitoring programs and activities in the region. The State Water Board initiated this data collection process on behalf of all the regional boards, which are likewise engaged in the 305(b) report/303(d) list update process. By letters dated December 4, 2006 and January 30, 2007, the State Water Board solicited all readily available data and information from the public on the water quality condition of water bodies within the Region (and the state). In addition to the publicly solicited data, Board staff reviewed receiving water data obtained from grant projects, recent investigations, monitoring conducted pursuant to waste discharge requirements and data collected through the State's Surface Water Ambient Monitoring Program (SWAMP). The water bodies assessed included coastal beaches, coastal streams, and inland rivers, streams and lakes. **The water bodies assessed and the respective data sources are listed in Attachment 2.** All readily available data and information obtained was considered in the development of the 2008 Integrated Report.

Second, all data obtained was screened against applicable water quality criteria, Basin Plan objectives and/or other applicable guidelines. The number of exceedances of applicable criteria, objectives or guidelines compared to the number of analyses was determined as specified in the Water Quality Control Policy for Developing California's Clean Water Act Section 303(d) List (Listing Policy) (SWRCB, 2004b). The Listing Policy identifies the process by which the State Water Board and Regional Water Boards are to comply with the listing requirements of CWA section 303(d) and establishes a standardized approach for developing California's section 303(d) list. The Listing Policy and the Final Functional Equivalent Document (FED) (SWRCB, 2004) that was developed to support the provisions of the Listing Policy can be viewed at [http://www.waterboards.ca.gov/water\\_issues/programs/tmdl/303d\\_listing.shtml](http://www.waterboards.ca.gov/water_issues/programs/tmdl/303d_listing.shtml). Board staff relied on the methodology specified in the Listing Policy to assess the data.

Finally, for each water body assessed, Board staff developed Lines of Evidence (LOEs) that summarize the available data and information. The LOEs identify: the specific water body segment/pollutant combination of concern; the beneficial use affected; applicable criteria, narrative and numeric water quality objectives specified in the Water Quality Control Plan for the Santa Ana Region (Basin Plan) or statewide plans (e.g., the Ocean Plan) and guidelines used to assess the data; a summary of the data, including spatial and temporal representativeness; and information related to the quality of the data obtained. The LOEs are used to direct the 303(d) listing decisions and overall beneficial use support ratings. Approximately 500 LOEs were developed in support of staff's recommendations. Due to their volume, water body Factsheets with the respective supporting information are not attached to this report but can be

obtained from the Regional Water Board website at [http://www.waterboards.ca.gov/santaana/2008\\_integrated\\_report](http://www.waterboards.ca.gov/santaana/2008_integrated_report).<sup>1</sup>

### **2008 303(d) LISTING DECISIONS**

Board staff's recommendations for 303(d) list additions and deletions were made in accordance with the requirements specified in the Listing Policy. The Listing Policy outlines a "weight of evidence" approach that provides: rules for making decisions based upon different categories of data; an approach for analyzing data statistically; and, requirements for data quality, data quantity, spatial and temporal representativeness, and administration of the listing process. Decision rules for listing and delisting are provided for chemical-specific water quality standards, bacterial water quality standards, health advisories, bioaccumulation of chemicals in aquatic life tissues, nuisance conditions (such as trash, odor, and foam), nutrients, water and sediment toxicity, adverse biological response, and degradation of aquatic life populations and communities. The Listing Policy also requires that situation-specific weight of evidence listing or delisting factors be used if available information indicates water quality standards are not attained (or, in potential delisting situations, are attained) and the other decision rules do not support listing or delisting.

The Listing Policy requires that all waters that do not meet water quality standards be placed on the CWA section 303(d) list of water quality limited segments, in one of two categories: (1) waters still requiring a TMDL; and (2) waters where the water quality limited segment is being addressed. Water bodies in the "Water Quality Limited Segments Being Addressed" category must meet either of the following conditions:

1. A TMDL has been developed and approved by USEPA and the approved implementation plan is expected to result in full attainment of the standard within a reasonable, specified time frame; or
2. It has been determined that an existing regulatory program is reasonably expected to result in the attainment of the water quality standard within a reasonable, specified time frame.

### **TMDL SCHEDULES**

Pursuant to federal requirements, for waters on the CWA section 303(d) list of impaired waters, the Regional Board is required to identify the TMDLs that will be established within the current listing cycle and those TMDLs that will be established thereafter. Staff reassessed the TMDL schedules established in the 2006 303(d) list by the State Water Board and identified TMDL schedules for the 2008 proposed additions to the 303(d) list. In general, the Listing Policy specifies that the following factors be considered when recommending schedules for completion of TMDLs:

- Water segment significance (such as importance and extent of beneficial uses, threatened and endangered species concerns, and size of water segment);

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<sup>1</sup> For the purpose of analyzing the data and developing the proposed revisions to the 303(d) list and development of the 305(b) report, the "line of evidence" (LOE) approach was used to establish the water quality status of the water body. The LOEs for each assessed water body are summarized in a water body-specific Factsheet. Factsheets were developed for each water body for which sufficient data were available to evaluate during the review and can be viewed at the regional board's web-site.

- Degree that water quality objectives are not met or beneficial uses are not attained or threatened (such as the severity of the pollution or number of pollutants/stressors of concern) [40 CFR 130.7(b)(4)];
- Degree of impairment;
- Potential threat to human health and the environment;
- Water quality benefits of activities ongoing in the watershed;
- Potential for beneficial use protection and recovery;
- Degree of public concern;
- Availability of funding; and
- Availability of data and information to address the water quality problem.

In addition, USEPA guidance specifies that the maximum time between identifying a water body on the 303(d) list and TMDL completion should be 13 years. Taking the Listing Policy factors and USEPA guidance into consideration, Board staff recommends assigning a completion date of 2021 (13 years from 2008) for all new proposed listings. Work is or is expected to be underway on TMDLs needed to address high priority waters currently on the 303(d) list. As a practical matter, given resource constraints, it is unlikely that work could be initiated on these additional water bodies in time to produce TMDLs prior to 2021. With this said, several points should be emphasized. First, work on these additional TMDLs will proceed as soon as possible irrespective of the 2021 completion date. Second, where further consideration of the Listing Policy factors indicates that an accelerated schedule for one or more of these additional TMDLs is appropriate, then the schedule can be revised accordingly in future 303(d) list updates. Finally, Board staff expects that as individual impaired water bodies are addressed, consideration will be given to the potential that an existing regulatory or non-regulatory action, rather than the adoption of a Basin Plan amendment to incorporate a TMDL implementation plan, could be employed to address the impairment. This would likely facilitate the TMDL development and implementation process and early attainment of water quality standards.

### **PROPOSED MODIFICATIONS TO THE CWA SECTION 303(d) LIST OF IMPAIRED WATERS**

Water segments-pollutant combinations proposed for addition to the 303(d) list are shown in **Attachment 3**. Proposed TMDL completion dates are specified.

Water segments-pollutant combinations proposed for addition to the Water Quality Limited Segments Being Addressed category of the section 303(d) list are presented in **Attachment 4**.

Water segments-pollutant combinations proposed to be removed from the 303(d) list are shown in **Attachment 5**.

Justification and data evaluated for each of the proposed changes to the 303(d) list are documented in water body summary Factsheets and supporting information. (As noted previously, due to the volume of these documents, these Factsheets are not attached to this report but are available at the Regional Board website ([http://www.waterboards.ca.gov/santaana/2008\\_integrated\\_report](http://www.waterboards.ca.gov/santaana/2008_integrated_report)) or upon request to Regional Board staff.)

## **2008 BENEFICIAL USE SUPPORT RATINGS AND INTEGRATED REPORT CATEGORY DETERMINATION**

The Integrated Report places each assessed water segment in California into one of five non-overlapping categories of water bodies based on the overall beneficial use support of the water segment. These Integrated Report categories, identified below, are based on the USEPA guidance for states' Integrated Reports, but contain some modifications based on California's 303(d) Listing Policy:

**Category 1:** Water bodies that meet all water quality standards and no use is threatened.

*None of the Santa Ana Region water bodies assessed were identified as Category 1 waters.*

**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.

*Proposed Category 2 water bodies are shown in **Attachment 6**.*

**Category 3:** Insufficient data and information are available to determine if any water quality standard is being attained. This can be the result of either insufficient quantity or quality of data to properly evaluate a water body's attainment status.

*Proposed Category 3 water bodies are shown in **Attachment 7**.*

**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:

**4a:** TMDL already 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.

*Proposed Category 4 water bodies are shown in **Attachment 4**.*

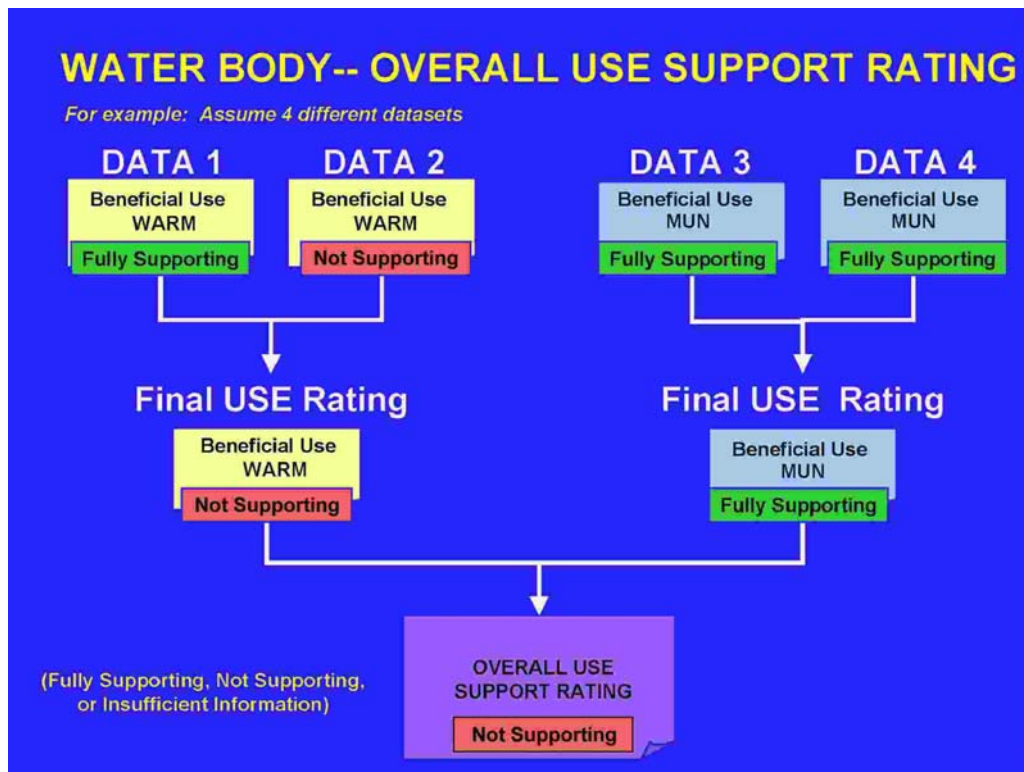
**Category 5:** Water body is impaired, does not attain the water quality standard, and a TMDL or other acceptable pollution abatement initiative is required. The waters in this category historically comprise the 303(d) List. This category also includes a description of the pollutants causing impairment and a priority ranking of the waters for the purposes of development of Total Maximum Daily Loads (TMDLs).

*Proposed Category 5 water bodies are shown in **Attachment 3**.*

The USEPA recommended beneficial use support ratings - fully supporting, not supporting, and insufficient information - are used in this 2008 Integrated Report. A water segment is placed in one of these categories based on the overall use support rating of the water segment and the status of its 303(d) listing. Again, the status of a water segment's 303(d) listings (i.e., whether or not, how and at what stage they are being addressed) determines whether it is a Category 4 or Category 5 water body.

In general, to conduct the CWA section 305(b) water quality assessment, for each water body assessed, Board staff first identified the applicable beneficial uses for that water body as specified in the Basin Plan or based on Best Professional Judgment (BPJ) for those water bodies not specifically listed in the Basin Plan. As was done for this update of the CWA section 303(d) list, staff identified water quality criteria, water quality objectives or applicable guidelines intended to protect identified beneficial uses. Using the Listing Policy protocols, the data were then compared to the applicable criteria, water quality objective or guideline to determine if there were exceedances and therefore, if the use was supported. For multiple water body/pollutant data combinations, the decision matrix depicted in Figure 1 was applied to determine an overall use rating. The water body Factsheets summarize the data and use support determinations.

**Figure 1**  
Water Body Use Decision  
Flowchart



**STAFF RECOMMENDATION**

Based on comments received, direct staff to prepare the final Integrated Report, including an updated 303(d) list of impaired water bodies, for consideration at a future public hearing.

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**LIST OF ATTACHMENTS**

- Attachment 1** – 2006 Clean Water Act Santa Ana Region 303(d) List of Impaired Waters
- Attachment 2** – Assessed Water Bodies and Data Source
- Attachment 3** – Proposed Additions to the 303(d) List of Impaired Waters where one or more uses not supported; TMDL required and TMDL schedule. (305(b) Category 5)
- Attachment 4** – Proposed List of Impaired Water Bodies, but no TMDL required as impairment is being addressed or is not a pollutant) (305(b) Category 4)
- Attachment 5** – Proposed Water bodies to be Delisted from the 303(d) List
- Attachment 6** – Proposed List of Water Bodies where some, but not all uses fully supported) (305(b) Category 2)
- Attachment 7** – Proposed List of Water Bodies where there was insufficient data to make use determination) (305(b) Category 3)

**Attachment 1**

**2006 Clean Water Act Section**

**303(d) List of Impaired Waters**

**Santa Ana Region**



## **Attachment 2**

### **2008 List of Water Bodies Assessed**

## 2008 List of Water bodies Assessed <sup>1</sup>

| <b>Waterbody</b>   | <b>Beneficial Use(s)<br/>Assessed</b>    | <b>Source of Data</b>   |
|--|--|---|
| Big Bear Lake  | Aquatic Life                             | Big Bear Municipal Water District   |
| Bolsa Chica Channel  | Body Contact Recreation,<br>Aquatic Life | Orange County Coast Keeper;<br>Department of Pesticide<br>Regulation                                  |
| Bolsa Chica Ecological Reserve Inlet   | Body Contact Recreation                  | Surfrider Foundation  |
| Bolsa Chica State Beach  | Body Contact Recreation                  | SWRCB   |
| Bonita Creek   | Aquatic Life                             | Department of Pesticide<br>Regulation   |
| Borrego Creek  | Aquatic Life,<br>Body Contact Recreation | Orange County Coast Keeper  |
| Buck Gully   | Aquatic Life, Body Contact<br>Recreation | Orange County Coast Keeper  |
| Chino Creek Reach 1a   | Aquatic Life                             | Department of Pesticide<br>Regulation   |
| Chino Creek Reach 1b   | Aquatic Life                             | Chino Basin Watermaster<br>Database   |
| Chino Creek Reach 2  | Aquatic Life                             | Chino Basin Watermaster<br>Database   |
| City Creek   | Aquatic Life                             | San Bernardino County<br>Municipal Storm Water Permit<br>Data   |
| Crystal Cove State Park (at<br>the following locations: Crystal<br>Cove, El Morro, Muddy Creek<br>Surf, Pelican Point) | Body Contact Recreation                  | SWRCB   |
| Cucamonga Creek Reach 1  | Aquatic Life                             | Department of Pesticide<br>Regulation; San Bernardino<br>County Municipal Storm Water<br>Permit data  |
| Cucamonga Creek Reach 2  | Aquatic Life                             | Department of Pesticide<br>Regulations; San Bernardino<br>County Municipal Storm Water<br>Permit data |
| Day Creek  | Aquatic Life                             | Chino Basin Watermaster<br>Database   |
| Delhi Channel  | Aquatic Life, Body Contact<br>Recreation | Orange County Coast Keeper  |
| Golden Star Creek  | Body Contact Recreation                  | Orange County Coast Keeper  |
| Grout Creek  | Aquatic Life                             |   |
| Hole Lake  | Aquatic Life                             | Chino Basin Watermaster<br>Database   |
| Huntington Beach State Park  | Body Contact Recreation                  | SWRCB   |

| <b>Waterbody</b>  | <b>Beneficial Use(s)<br/>Assessed</b>    | <b>Source of Data</b>  |
|---|--|--|
| (at the following locations:<br>Brookhurst Street, Magnolia<br>Street, Santa Ana River North,<br>SCE Plant, 50' North of Santa<br>Ana River )   |  |  |
| Huntington City Beach (at the<br>following locations: Beach<br>Hut, Bluffs, Jack's Snackbar,<br>17 <sup>th</sup> Street, )  | Body Contact Recreation                  | SWRCB  |
| Huntington Harbour (at the<br>following locations: Admiralty<br>Drive, Anderson Street,<br>Clubhouse, Coral Cay,<br>Davenport Beach, Harbour<br>Channel, Humboldt Beach,<br>Mother's Beach, Sea Gate,<br>Sunset Aquatic Park, Trinidad<br>Lane, 11 <sup>th</sup> Street, )  | Body Contact Recreation                  | SWRCB  |
| Huntington State Beach  | Body Contact Recreation                  | Orange County Municipal Storm<br>Water Permit data                 |
| Knickerbocker Creek   | Aquatic Life                             |  |
| Lake Elsinore   | Aquatic Life                             | SWAMP Regional Monitoring  |
| Mill Creek, Prado Area  | Body Contact Recreation,<br>Aquatic Life | Orange County Coast Keeper,<br>Chino Basin Watermaster<br>Database |
| Morning Canyon  | Aquatic Life, Body Contact<br>Recreation | Orange County Coast Keeper   |
| Newport Bay   | Body Contact Recreation                  | Proposition 13 grant   |
| Newport Bay Lower -Turning<br>Basin/South Lido Channel  | Aquatic Life                             | Lower Newport Bay<br>Copper/Metals Marina Study                    |
| Newport Bay Upper (at the<br>following stations: De Anza,<br>Newport Dunes East, Newport<br>Dunes Middle, Newport Dunes<br>North, Newport Dunes West,<br>Northstar Beach, Ski Zone,<br>Vaugh's Launch,  | Aquatic Life                             | Orange County Municipal Storm<br>Water Permit data                 |
| Newport Bay Lower (at the<br>following stations: Abalone<br>Avenue, Alvarado/Bay Island,<br>Bayside Drive, Bayshore<br>Beach, Garnet Avenue, Grand<br>Canal, Lido Yacht Club,<br>Newport Blvd Bridge, Onyx<br>Avenue, Park Avenue,<br>Promontory Point, Rhine<br>Channel, Rocky Point, Ruby<br>Avenue, Sapphire Avenue, | Body Contact Recreation                  | SWRCB  |

| <b>Waterbody</b>   | <b>Beneficial Use(s)<br/>Assessed</b>  | <b>Source of Data</b>   |
|--|--|---|
| Via Genoa, 10 <sup>th</sup> Street, 15 <sup>th</sup> Street, 19 <sup>th</sup> Street, 33 <sup>rd</sup> Street, 38 <sup>th</sup> Street, 43 <sup>rd</sup> Street)   |  |   |
| Newport Slough (at the following stations: Grant Street, Lancaster/62 <sup>nd</sup> )  | Body Contact Recreation                | SWRCB   |
| Newport Beach (Corona del Mar, Little Corona, Newport Pier, Orange St, 15 <sup>th</sup> /16 <sup>th</sup> Street, 38 <sup>th</sup> Street – 9S, 52 <sup>nd</sup> /53 <sup>rd</sup> Street, South of the Santa Ana River, Balboa Pier, the Wedge) | Body Contact Recreation                | SWRCB   |
| Peters Canyon Channel  | Aquatic Life, Body Contact Recreation, | Orange County Coast Keeper  |
| Rathbone Creek   | Aquatic Life                           | San Bernardino County Municipal Storm Water Permit data                     |
| San Antonio Creek Reach 1  | Aquatic Life                           | Chino Basin Watermaster Database  |
| San Antonio Creek Reach 2  | Aquatic Life                           | Chino Basin Watermaster Database  |
| Santiago Creek   | Body Contact Recreation                | Orange County Coast Keeper  |
| San Diego Creek Reach 1  | Body Contact Recreation                | Orange County Coast Keeper  |
| San Diego Creek Reach 2  | Body Contact Recreation, Aquatic Life  | Orange County Coast Keeper, Orange County Municipal Storm Water Permit data |
| San Sevaine Creek  | Aquatic Life                           | Chino Basin Watermaster Database  |
| San Timoteo Creek Reach 2  | Aquatic Life                           | Chino Basin Watermaster Database  |
| Santa Ana Delhi Channel  | Body Contact Recreation                | Orange County Coast Keeper  |
| Santa Ana River Reach 2  | Body Contact Recreation                | Orange County Coast Keeper  |
| Santa Ana River Reach 3  | Aquatic Life                           | Chino Basin Watermaster Database  |
| Santa Ana River Reach 5  | Aquatic Life                           | Chino Basin Watermaster Database  |
| Santa Ana River Reach 6  | Aquatic Life                           | Chino Basin Watermaster Database  |
| Santiago Creek Reach 1   | Body Contact Recreation                | Orange County Coast Keeper  |
| Santiago Creek Reach 4   | Body Contact Recreation                | Orange County Coast Keeper  |
| Seal Beach/ Surfside (Sea Way, 1 <sup>st</sup> Street, 8 <sup>th</sup> Street, 14 <sup>th</sup> Street, 100 yards South of Pier)   | Body Contact Recreation                | SWRCB   |
| Serrano Creek  | Aquatic Life, Body Contact             | Orange County Coast Keeper  |

| <b>Waterbody</b>                         | <b>Beneficial Use(s)<br/>Assessed</b>    | <b>Source of Data</b>  |
|--|--|--|
|  | Recreation                               |  |
| Silverado Creek                          | Body Contact Recreation                  | Orange County Coast Keeper   |
| Sunset Beach (Broadway)                  | Body Contact Recreation                  | SWRCB  |
| Temescal Creek 1                         | Aquatic Life, Body Contact<br>Recreation | Chino Basin Watermaster<br>Database; Orange County<br>Coast Keeper |
| Temescal Creek Reach 2                   | Body Contact Recreation                  | Orange County Coast Keeper   |
| Temescal Creek Reach 6                   | Body Contact Recreation                  | Orange County Coast Keeper   |
| East Garden Grove<br>Wintersburg Channel | Aquatic Life, Body Contact<br>Recreation | Orange County Coast Keeper   |

<sup>1</sup> See the Regional Water Board's website for the Water Body Factsheets  
[http://www.waterboards.ca.gov/santaana/2008\\_integrated\\_report](http://www.waterboards.ca.gov/santaana/2008_integrated_report)

## **Attachment 3**

**Proposed Additions to 303(d) List of Impaired Waters**

**One or More Uses Not Supported;**

**TMDL required and TMDL Schedule.**

**(305(b) Category 5)**

**Proposed Additions to the 303(d) List – 305(b) Category 5 Water  
Bodies  
And Proposed TMDL Schedule<sup>1</sup>**

| <b>Waterbody</b>        | <b>Beneficial Use</b> | <b>Pollutant(s)</b>  | <b>TMDL Schedule</b><br><small>(As soon as possible but no later than the year specified)</small> |
|-------------------------|-----------------------|--|---|
| Bolsa Chica Channel     | Aquatic Life          | Ammonia  | 2021  |
| Borrego Creek           | Aquatic Life          | Ammonia  | 2021  |
| Chino Creek Reach 1b    | Groundwater Recharge  | Sodium, chloride, TIN, sulfates, COD   | 2021  |
| Chino Creek Reach 2     | Aquatic Life          | pH   | 2021  |
|                         | Groundwater Recharge  | TDS, chloride, sulfate   |   |
| City Creek              | Aquatic Life          | Cadmium, silver, naphthalene, chlorine residual, acenaphthene, mercury                         | 2021  |
| Cucamonga Creek Reach 1 | Aquatic Life          | pH, zinc, naphthalene, chlorine residual, acenaphthene, cadmium, iron, silver, copper, mercury | 2021  |
| Cucamonga Creek Reach 2 | Groundwater Recharge  | TDS, sodium, chloride, sulfates, pH  | 2021  |

| <b>Waterbody</b>                      | <b>Beneficial Use</b>   | <b>Pollutant(s)</b>  | <b>TMDL Schedule</b><br><b>(As soon as possible but no later than the year specified)</b> |
|---------------------------------------|-------------------------|--|---|
| Day Creek                             | Groundwater Recharge    | TDS, sodium, chloride, TIN, sulfates   | 2021  |
| East Garden Grove Wintersburg Channel | Aquatic Life            | Ammonia  | 2021  |
| Hole Lake                             | Groundwater Recharge    | TDS, sodium, chloride, sulfates TIN  | 2021  |
| Lake Elsinore                         | Aquatic Life            | Sediment toxicity  | 2021  |
| Newport Beach                         | Body Contact Recreation | Enterococcus   | 2021  |
| Peters Canyon Channel                 | Aquatic Life            | pH   | 2021  |
| Rathbone Creek                        | Aquatic Life            | Acenaphthene, naphthalene, cadmium, copper, chlorine residual, iron, mercury | 2021  |
| San Antonio Creek                     | Aquatic Life            | pH   | 2021  |
|                                       | Groundwater Recharge    | Chloride, sodium, sulfate, TDS7  |   |
| Santa Ana River Reach 3               | Aquatic Life            | Acenaphthene, naphthalene, aluminum, cadmium, copper, iron, lead, mercury    | 2021  |
| Santa Ana River Reach 5               | Aquatic Life            | Acenaphthene, chlorine residual, iron, mercury, naphthalene, silver          | 2021  |
| Seal Beach                            | Body Contact Recreation | Enterococcus   | 2021  |
| Serrano Creek                         | Aquatic Life            | pH   | 2021  |



| <b>Waterbody</b>       | <b>Beneficial Use</b> | <b>Pollutant(s)</b>            | <b>TMDL Schedule</b><br><b>(As soon as possible but no later than the year specified)</b> |
|------------------------|-----------------------|--------------------------------|---|
| Temescal Creek Reach 1 | Aquatic Life          | pH                             | 2021  |
|                        | Groundwater Recharge  | Sulfate, sodium, TDS, chloride |   |

<sup>1</sup> See the Regional Water Board's website for the Water Body Factsheets  
[http://www.waterboards.ca.gov/santaana/2008\\_integrated\\_report](http://www.waterboards.ca.gov/santaana/2008_integrated_report)

## **Attachment 4**

**Proposed List of Impaired Water Bodies**

**With one or more Uses not Supported;**

**no TMDL Required as Impairment is**

**Being Addressed or is not a Pollutant**

**(305(b) Category 4)**

**Proposed Additions to List of Impaired Water Bodies  
Where no TMDL Required (305(b) Category 4)**

| <b>Water body</b>        | <b>Beneficial Use Assessed</b> | <b>Water Quality Indicators Assessed</b> |
|--------------------------|--------------------------------|--|
| Newport Bay <sup>2</sup> | Body Contact Recreation        | Pathogen Indicators                      |

<sup>1</sup> See the Regional Water Board's website for the Water Body Factsheets  
[http://www.waterboards.ca.gov/santaana/2008\\_integrated\\_report](http://www.waterboards.ca.gov/santaana/2008_integrated_report)

<sup>2</sup> Pathogen indicators in Newport Bay are being addressed as part of an approved TMDL.

## **Attachment 5**

**Proposed Water Bodies to be De-listed from the 303(d) List**

**Water bodies Proposed to be De-listed from the  
Section 303(d) List of Impaired Waters**

| <b>Waterbody</b>           | <b>Pollutant(s)</b>   | <b>Justification</b>   |
|----------------------------|---|--|
| Big Bear Lake              | Sedimentation/siltation   | Incorrect listing  |
|                            | Copper  | Current data shows standards met   |
| Grout Creek                | Metals  | Incorrect use of <i>Corbicula</i> tissue data  |
| Knickerbocker Creek        | Metals  | Incorrect use of <i>Corbicula</i> tissue data  |
| San Diego Creek<br>Reach 2 | Metals (lead, chromium,<br>arsenic, cadmium,<br>silver, zinc, nickel) | The number of exceedances found does<br>not meet the Listing Policy's criteria for<br>listing. |

<sup>1</sup> See the Regional Water Board's website for the specific water body Factsheets  
[http://www.waterboards.ca.gov/santaana/2008\\_integrated\\_report](http://www.waterboards.ca.gov/santaana/2008_integrated_report)

## **Attachment 6**

### **Proposed List of Water Bodies with Some Uses**

**Fully Supported,**

**Insufficient Data to Determine  
Status of all Uses**

**(305(b) Category 2)**

**Proposed 305(b) Category 2 List of Water Bodies**  
 (Some, but not all uses fully supported; insufficient data to determine status of all uses)

| <b>Waterbody</b>   | <b>Beneficial Use Assessed<sup>1</sup></b> | <b>Water Quality Indicators Assessed</b>                |
|--|--|---|
| Bolsa Chica State Beach  | Body Contact Recreation                    | Enterococcus, Fecal coliform, Total coliform            |
| Bonita Creek   | Aquatic Life                               | Chlorpyrifos, Malathion                                 |
| 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         |
| 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            |
| Huntington City Beach (at the following locations: Beach Hut, Bluffs, Jack's Snackbar, 17 <sup>th</sup> Street, )  | Body Contact Recreation                    | Enterococcus, Fecal coliform, Total coliform            |
| 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 <sup>th</sup> Street)                             | Body Contact Recreation                    | Enterococcus, Fecal coliform, Total coliform            |
| Mill Creek, Prado Area   | Aquatic Life, Body Contact Recreation      | Aluminum, Chromium, Mercury, Selenium, <i>E. coli</i> , |
| Newport Beach (at the following locations: Corona del Mar, Little Corona, Newport Pier, Orange St, 15 <sup>th</sup> /16 <sup>th</sup> Street, 38 <sup>th</sup> Street – 9S, 52 <sup>nd</sup> /53 <sup>rd</sup> Street, South of the Santa Ana River, Balboa Pier, the Wedge) | Body Contact Recreation                    | Enterococcus, Fecal coliform, Total coliform            |

| Waterbody  | Beneficial Use Assessed <sup>1</sup>  | Water Quality Indicators Assessed   |
|--|---------------------------------------|---|
| San Timoteo Creek Reach 3  | 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 (PCP)   Phenol   Tetrachloroethylene/PCE   Toxaphene |
| Santiago Creek Reach 1   | Aquatic Life, Body Contact Recreation | <i>E. coli</i>  |
| Santiago Creek Reach 4   | Body Contact Recreation               | <i>E. coli</i>  |
| Seal Beach/ Surfside (Sea Way, 1 <sup>st</sup> Street, 8 <sup>th</sup> Street, 14 <sup>th</sup> Street, 100 yards South of Pier) | Body Contact Recreation               | Enterococcus, Fecal coliform, Total coliform  |
| Sunset Beach   | Body Contact Recreation               | Enterococcus, Fecal coliform, Total coliform  |

<sup>1</sup> Assessed data indicate that these uses are supported



## **Attachment 7**

### **Proposed List of Water Bodies with Insufficient Data to Make Use Determination) ( 305(b) Category 3)**

**Proposed 305(b) Category 3 List of Water Bodies  
(Insufficient Data to Make Use Determination)**

| <b>Waterbody</b>     | <b>Beneficial Use Assessed</b>               | <b>Water Quality Indicators Assessed</b>  |
|----------------------|--|---|
| Chino Creek Reach 1a | Aquatic Life                                 | Pesticides: Alachlor, Atrazine, Azinphos-methyl (Guthion), Carbaryl, Carbofuran, Chlorpyrifos, DDE, Hexachlorobenzene/ HCB, Malathion, Methyl Parathion, Molinate, Simazine, Thiobencarb/Bolero |
| San Sevaine Creek    | Aquatic Life                                 | pH  |
|                      | Groundwater recharge, Municipal water supply | chloride, TDS, sodium, sulfates, total nitrogen   |