

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD****LOS ANGELES REGION**

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To: Interested Parties  
Los Angeles Region

From: Wendy Phillips *Wendy Phillips*  
Chief, Planning Unit  
California Regional Water Quality Control Board, Los Angeles Region

Re: Revised 303(d) List for the Los Angeles Region

Date: February 15, 1996

Attachments: 1. Los Angeles Region Revised 303(d) List  
2. Responsiveness Summary

Introduction

Thank you for your comments on and interest in our efforts to assess water quality in the Los Angeles Region. As you'll recall, on December 21, 1995 we released a draft list of impaired waterbodies in the Los Angeles Region. Since then, we have had many communications regarding the purpose of the list, the way in which the list was developed, and how the list will be used.

Purpose of the 303(d) List

To recap, the purpose of the list is to identify waterbodies that are not fully supporting beneficial uses. Although water quality assessments are part of our standard planning process in this state, the US EPA requires all states to submit a list, based upon periodic water quality assessments, of all impaired waterbodies. This list is known as the 303(d) list (after section 303(d) of the Clean Water Act).

Rationale for Developing the 303(d) List

The list was developed using data (since 1987) that were reasonably available to Regional Board staff. Water quality data from numerous agencies and districts<sup>1</sup> supplemented in-house data.

The data were used, in accordance with federal guidelines,<sup>2</sup> to assess several broad categories of beneficial uses of surface waters, namely: drinking water supply (raw), fish

<sup>1</sup>Other agencies providing data include the US Geological Survey, US Forest Service, California Department of Water Resources, Ventura County Flood Control District, Los Angeles County Department of Public Works, City of Thousand Oaks, City of San Buenaventura, City of Pasadena, City of Los Angeles, the Metropolitan Water District, Water Replenishment District, and the Central and West Basin Municipal Water Districts.

<sup>2</sup>Guidelines for Preparation of the 1996 State Water Quality Assessments (US EPA 1995).

consumption and shell fish harvesting, contact and noncontact recreation, aquatic life support, and agriculture. These broad categories do not precisely match all the beneficial use categories used in our *Water Quality Control Plan (Basin Plan, 1994)*; accordingly, beneficial uses designated in the *Basin Plan* were combined into the broader federal categories, as appropriate. In particular, note that groundwater recharge (GWR), which is a separate category in our *Basin Plan*, has been combined with a federal category for drinking water supply.

The following briefly describes the rationale for assessments in the various categories of beneficial uses.

*Drinking Water Supply:* Assessment of water quality for drinking is based on concentrations of constituents that are regulated for drinking water. In this assessment, data are for raw (untreated) surface water. (Note that such water would be treated and disinfected, in accordance with requirements from the State Department of Health Services, prior to distribution for potable use.) Again, please note that groundwater recharge (GWR), which is a separate category in our *Basin Plan*, has been included in this category.

*Aquatic Life Support:* Assessment of water quality for aquatic life support is primarily based on water quality data for physical parameters and chemical constituents as well as sediment, toxicity and bioaccumulation data. Data on chemical constituents (i.e., in the water column) include not only conventional parameters and constituents (such as dissolved oxygen, pH, and temperature) but—where available—toxic substances (priority pollutants, chlorine, and ammonia). Other considerations included in assessment of water quality for aquatic life support included fish kills, barriers to fish migration, and impairment of benthic communities.

*Contact and Non-contact Recreation:* Assessment of contact recreation is based on closure data for bathing areas, coliform bacteria data, hazardous substances and aesthetics. In some cases, other criteria such as secondary maximum contaminants levels for odorous substances in drinking water, were considered. Also, additional factors, such as persistent scum, oily films, excessive algae growth, significant trash, and persistent observations of non-natural foam and/or odor, were considered in assessing contact as well as non-contact recreational uses.

*Fish Consumption and Shellfish Harvesting:* Assessment of water quality for fish and shellfish consumption is based on fishing advisories.

*Agriculture:* Water quality standards for agriculture can vary by area and by crop. Due to the lack of state or federal standards, assessment of water quality for agricultural use is based upon local guidelines.

It is important to understand that data are limited and that a complete suite of water quality data were not available for measurement against appropriate water quality standards for each waterbody. Therefore, it is not correct to assume that constituents not cited on this list are not causing water quality problems.

### Use of the 303(d) List

As mentioned above, we are under federal requirements to submit this list to the State Board, which will compile the lists for all of California's nine regions for submittal to the US EPA. The US EPA will use this list to report to Congress on the quality of the nation's waterbodies.

Setting aside these reporting requirements, we plan to use information from our water quality assessment and list of impaired waterbodies in the Watershed Initiative. Specifically, this information will be a starting point as we assess water quality problems watershed by watershed. In most areas, we shall need to supplement our data with additional data in order to link impaired waterbodies with sources of pollutants. As you'll note from the 303(d) list, we suspect that most of these pollutants are of a nonpoint source nature. While the data for the 303(d) list also will be helpful, in certain cases, as we develop appropriate limits in Waste Discharge Requirements, Regional Board staff do not intend to use the list as a basis for recommending new, advanced, and/or upgraded treatment technologies for POTWs. Rather, these issues will be considered in greater depth by stakeholders within the context of individual watersheds.

Finally, you'll recall that our draft 303(d) list had a column indicating TMDL priorities (high, medium, or low). Total maximum daily loads (TMDLs) of pollutants are a way to quantify pollutants loads from point and nonpoint sources, and can be used to allocate allowable loads in order to meet water quality standards. Priorities on our draft 303(d) list were based on a combination of many factors, including the severity of problems, the value of the resource, the watershed schedule, staff resources, and practicality/available solutions.

As a result of the discussion of TMDL priorities, we have eliminated this column on our revised 303(d) list. Since we must commit to make significant progress, if not complete, any TMDLs we designate as 'high' priority, we have dropped the TMDL priority of all waterbodies to 'low,' with the exception of the Malibu Creek and Los Angeles River watersheds. TMDLs for certain constituents in these watersheds are still ranked high priority; to date, we have already collected substantial data and modeling efforts are well underway.

The priority of all future TMDLs will be discussed and evaluated by stakeholder groups under the Watershed Approach. Staff and other stakeholder resources will be key factors in determining the number of TMDLs we can undertake in the future.

### Other Issue (Municipal and Domestic Supply)

Many dischargers expressed concern that certain waterbodies were noted as impaired for drinking water on the draft 303(d) list (dated December 21, 1995), even though these waterbodies are not known to supply drinking water. The reason that most of these waterbodies were included is that they are considered potential sources of drinking water (potential MUN), in accordance with our policy entitled *Sources of Drinking Water* (State Board Resolution No. 88-063) and, as such, must be protected as potential sources of drinking water.

Based on recent discussions with State Board and US EPA staff, we decided not to assess drinking water use for those waterbodies that were recently added as potential sources of

drinking water in the *Basin Plan*, solely on the basis of the *Sources of Drinking Water* policy (see asterisks in MUN designations on Table 2-1 of the *Basin Plan*). Accordingly, the assessment of 36 waterbodies for drinking water use has been eliminated from our water quality assessment. Please note that any of the above-mentioned waterbodies that also are designated for groundwater recharge (GWR) in our *Basin Plan* were still assessed under the drinking water category, and still included on the revised 303(d) list.

The fact that we are not assessing certain waterbodies designated as potential sources of drinking water at this time does not mean that they have been de-designated for MUN in the *Basin Plan*. A review of our exemption criteria for MUN is on-going, and Regional Board staff plan to make recommendations for appropriate revisions to our *Sources of Drinking Water* policy later this year. Appropriate revisions to the 303(d) list will follow, if necessary.

#### Conclusion

We are grateful for the many comments and additional information received since December 21, 1996. Please see the attached Responsiveness Summary, which outlines, by subject, our responses and revisions.

Should you have questions, you may reach Heather Trim (213) 266-7553 or me at (213) 266-7557.

cc: David Smith, US EPA, Region IX  
Nancy Richard, Monitoring and Assessment Unit, State Board

Revised 303(d) List: Inland Watersheds  
 Note: Data are limited and not all constituents were sampled for each waterbody. Therefore, it is not correct to assume that contaminants not cited below are not causing water quality problems.  
 Abbreviations are explained on the last page.

Reach/location	Hydro	Beneficial Use	Evidence of Impairment	Known or Potential Sources
McGrath Lake (estuary)	403.11	Aquatic life	Sed(DDT, chlordane, total pesticides), SED TOX	Nonpoint source
Ventura River Estuary	402.10	Aquatic life Recreation: contact Recreation: non-contact Fish consumption	TS(DDT), EUT Trash, Algae Trash, Algae TS(DDT)	Nonpoint source and point source
Ventura River (estuary to Weldon Cyn)	402.10	Aquatic life Recreation: contact Recreation: non-contact	TS(Cu, Se, Ag, Zn) Algae Algae	Nonpoint source and point source
Ventura River (Weldon Cyn to Camino Cielo)	402.10	Aquatic life	Water diversion and pumping	Nonpoint source
Matiija Creek and reservoir	402.20	Aquatic life	Fish barrier	Nonpoint source
Santa Clara River Estuary	403.11	Recreation: contact	Collorm	Nonpoint source
Santa Clara River (W Pier Hwy 99 to Bouquet Cyn Rd Bridge)	403.51	Aquatic life Recreation: contact	AMM Collorm	Nonpoint source and point source
Mugu Lagoon	403.11	Aquatic life	Cu, Hg, Ni, Zn, bird reproductive (DDT), TS (Chlordane, DDT, endosulfan, dacthal, toxaphene, PCBs, As, Cd, Ag), Nitrogen, Sed(DDT, toxaphene), SED TOX, excessive sediment	Nonpoint source and point source
Rio de Santa Clara (tributary to Mugu Lagoon)	403.11	Aquatic life Fish consumption	SED TOX, TS(chlordane, toxaphene, DDT, Chema, PCBs), Nitrogen TS(chlordane, toxaphene, DDT, Chema, PCBs)	Nonpoint sources
Tributary from duck ponds to Mugu Lagoon	403.11	Aquatic life Fish consumption	TOX, SED TOX, Sed(DDT), TS(chlordane, toxaphene, DDT, Chema), Nitrogen TS(chlordane, toxaphene, DDT, Chema)	Nonpoint source
Calleguas Creek (Estuary to Arroyo Los Posas)	403.11 403.12	Drinking water/GWR Aquatic life Fish consumption	N+N AMM, TOX, Sed (DDT, toxaphene), TS (PCBs, DDT, toxaphene, Chema, chlordane, dacthal, endosulfan), Nitrogen, SED TOX TS (DDT, toxaphene, Chema, chlordane)	Nonpoint source and point source
Revolon Slough and Beardsley Channel/Wash	403.61 403.63 403.64 403.66	Drinking water/GWR Aquatic life Recreation: contact Recreation: non-contact Fish consumption	N+N Se, TOX, Sed (toxaphene, chlordane, DDT, endosulfan, dacthal), TS (endosulfan, chlordane, toxaphene, DDT, Chema, dieldrin, chlorpyrifos, hexachlorobenzene, PCBs, dacthal), Nitrogen Algae, Trash Algae, Trash TS (endosulfan, chlordane, toxaphene, DDT, Chema, dieldrin, PCBs)	Nonpoint source
Conejo Creek /Arroyo Conejo (confluences Calleguas to above Lym Rd)	403.12 403.63 403.64 403.66	Aquatic life Recreation: contact Recreation: non-contact Fish consumption	DO, AMM, TOX, TS(endosulfan, toxaphene, DDT, Chema, dacthal, Ag, Cd, Cr, Ni), Sed(toxaphene) Algae Algae TS(endosulfan, toxaphene, DDT, Chema)	Nonpoint source and point source
Conejo Creek/Arroyo Conejo North Fork	403.64	Aquatic life Fish consumption	AMM, TS(chlordane, DDT, Ag) TS(chlordane, DDT)	Nonpoint source and point source

Reach/location	Hydro Unit	Beneficial Use Categories Impaired	Evidence of Impairment	Known or Potential Sources
Arroyo Las Posas	403.62	Drinking water/GWR Aquatic life	N+N AMM, Sed(DDT)	Nonpoint source and point source
Arroyo Simi (~Moorpark Frwy (23) to Brea cyn)	403.62	Aquatic life Recreation: contact Recreation: non-contact	AMM, Temp, TOX, TIS(Cr, Ni, Ag, Zn, Se) Algae Algae	Nonpoint source and point source
Malibu Lagoon	404.21	Aquatic life Recreation: contact Fish consumption Shellfish Harvesting	Benthic community, TIS (As, Cr, Ni, Se, Pb, Ag), EUT Coliform, Enteric viruses, swimming restriction TIS(As, Se, Pb) Advisory	Nonpoint source and point source
Malibu Creek: lagoon to Malibu Lake	404.21	Aquatic life Recreation: contact Recreation: non-contact Fish consumption	Fish barrier, TIS (As, Cr, Ni, Cd, Se, Ag, Pb, Cu) Trash, Algae, Coliform, Scum Trash, Algae, Scum TIS (As, Cr, Ni, Se)	Nonpoint source and point source
Las Virgenes Creek	404.22	Aquatic life Recreation: contact* Recreation: non-contact	Se, DO Coliform, Scum, Algae, Trash Scum, Trash, Algae	Nonpoint source
Stokes Creek	404.22	Recreation: contact	Coliform	Nonpoint source
Medea Creek	404.24 404.23	Aquatic life Recreation: contact* Recreation: non-contact	Se Coliform, Algae, Trash Coliform, Algae, Trash	Nonpoint source
Lindero Creek	404.23	Aquatic life Recreation: contact Recreation: non-contact	Se Coliform, Trash, Algae, Scum Coliform, Trash, Algae, Scum	Nonpoint source
Palo Comado	404.23	Recreation: contact Recreation: non-contact	Coliform Coliform	Nonpoint source
Triunfo Cyn Creek	404.24 404.25	Aquatic life	Hg, Pb	Nonpoint source
Topanga Canyon Creek	404.11	Aquatic life	Pb	Nonpoint source
Santa Monica Channel/Canyon	405.13	Aquatic life Recreation: contact* Recreation: non-contact	Pb Coliform Coliform	Nonpoint source
Pico Kenter Drain	405.13	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Cu, Pb, TOX, PAHs Coliform, Enteric viruses, Trash Coliform, Trash	Nonpoint source
Ashland Avenue Drain	405.13	Aquatic life Recreation: contact*	DO, TOX Coliform	Nonpoint source
Ballona Creek Estuary	405.13	Aquatic life Recreation: contact Shellfish harvesting	SED TOX, Sed(Pb, Zn, DDT, aroclor, PCBs, PAHs, chlordanes), TIS(chlordanes, PCBs) Coliform Advisory	Nonpoint source and point source

Reach/location	Hydro	Beneficial Use Categories Impaired	Evidence of Impairment	Known or Potential Sources
Balona Creek	405.13	Aquatic life Recreation: contact* Recreation: non-contact Fish consumption	Pb, SED TOX, TOX, TIS(As, chlordane, DDT, dieldrin, PCBs, Chema, Cr, Cu, Pb, Ag, Zn), Sed(Cd, TBT, Cu, Pb, Ag) Coliform, Trash, enteric viruses TIS(As, chlordane, DDT, dieldrin, PCBs, Chema)	Nonpoint source and point source
Balona Wetland	405.13	Aquatic life Recreation: contact Recreation: non-contact Fish consumption	TIS(As, Pb, Cr), Habitat alteration, Exotic vegetation, Reduced tidal flushing, Hydromodification Trash TIS(As)	Nonpoint source
Sepulveda Channel/Canyon	405.13	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Pb Coliform Coliform	Nonpoint source
Dominguez Channel (includes estuary)	405.12	Aquatic life Recreation: contact* Recreation: non-contact Fish consumption	AMM, Cu, Pb, Sed(Cr, Zn, DDT, PAHs), TIS(dieldrin, chlordane, DDT, dieldrin, PCBs, Chema, Pb) Benthic community impairment Coliform Coliform TIS(chlordane, DDT, dieldrin, PCBs)	Nonpoint source and point source
Wilmington Drain	405.12	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Cu, Pb Coliform Coliform	Nonpoint source
Torrance Carson Channel	405.12	Aquatic life Recreation: contact* Recreation: non-contact	Cu, Pb Coliform Coliform	Nonpoint source
Colorado Lagoon	405.12	Aquatic life	Sed(Pb, Zn, chlordane, PAHs), TIS(chlordane, DDT, dieldrin, PCBs, Ag, Pb, Cu, Chema), SED TOX	Nonpoint source
Los Cerritos Channel	405.12	Aquatic life Recreation: contact Recreation: non-contact	AMM, Cu, Pb, Zn Coliform Coliform	Nonpoint source
Los Angeles River Reach 1 (upstream Carson St to Estuary)	405.12	Aquatic life Recreation: contact* Recreation: non-contact	pH, AMM, Pb Coliform, Trash, Scum, Algae Coliform, Trash, Scum, Algae	Nonpoint source and point source
Los Angeles River Reach 2 (Figure 2 to upstream Carson St)	405.15	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Pb Coliform, Trash, Scum, Algae, ODOR, Oil	Nonpoint source and point source
Compton Creek	405.15	Aquatic life Recreation: contact* Recreation: non-contact	Cu, Pb, pH Coliform Coliform	Nonpoint source and point source
Rio Hondo Reach 1 (Santa Ana Fwy to Los Angeles River)	405.15	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Cu, Pb, Zn, pH Coliform, Trash Coliform, Trash	Nonpoint source and point source

Reach/location	Hydro Unit	Beneficial Use Categories Impaired	Evidence of Impairment	Known or Potential Sources
✓ Rio Hondo Reach 2 (from Whittier Narrows Flood Control Basin to Spreading Grounds)	405.15	Aquatic life Recreation: contact* Recreation: non-contact	AMM Coliform Coliform	Nonpoint source and point source
Monrovia Canyon Creek	405.33	Aquatic life	Pb	Nonpoint source
Arroyo Seco Reach 1 (downstream Devils Gate Dam)	405.15	Recreation: contact* Recreation: non-contact	Coliform, Trash, Algae Trash, Algae	Nonpoint source
Los Angeles River Reach 3 (Riverside Drive to Figueroa St)	405.21	Aquatic life Recreation: contact Recreation: non-contact	AMM Trash, Algae, ODOR, Scum Trash, Algae, ODOR, Scum	Nonpoint source and point source
Verdugo Wash	405.21	Recreation: contact* Recreation: non-contact	Coliform, Trash, Algae Coliform, Trash, Algae	Nonpoint source
Los Angeles River Reach 4 (Sepulveda Dam to Riverside Dr)	405.21	Aquatic life Recreation: contact Recreation: non-contact	AMM, Pb Coliform, Trash, Scum, Algae, ODOR Coliform, Trash, Scum, Algae, ODOR	Nonpoint source and point source
Burbank Western Channel	405.21	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Cd Trash, Scum, Algae, ODOR Trash, Scum, Algae, ODOR	Nonpoint source and point source
Tujunga Wash (downstream Hansen Dam to Los Angeles River)	405.21	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Cu Coliform, Trash, Scum, ODOR Trash, Scum, ODOR	Nonpoint source
Los Angeles River Reach 5 (within Sepulveda Basin)	405.21	Aquatic life Recreation: contact Recreation: non-contact Fish consumption	AMM, TIS(Ag, chlorophylls, ChemA) Trash, Scum, Algae, ODOR, Oil Trash, Scum, Algae, ODOR, Oil TIS(ChemA)	Nonpoint source and point source
Los Angeles River Reach 6 (upstream of Sepulveda Flood Control Basin)	405.21	Drinking water/GWR Recreation: contact Recreation: non-contact	1, 1-DCE, PCE, TCE Coliform Coliform	Nonpoint source
Aliso Canyon Wash	405.21	Aquatic life	Se	Nonpoint source
Bell Creek	405.21	Recreation: contact* Recreation: non-contact	Coliform Coliform	Nonpoint source and point source
✓ San Gabriel River Estuary	405.15	Aquatic life Fish consumption	TOX, TIS(Ag, Cu, Ag, Cr), HIST TIS(Ag)	Nonpoint source and point source
✓ Coyote Creek	405.15	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Pb, TOX, HIST, CHL, TIS(Cr, Cu, Ag) Coliform, Algae, Coliform, Algae, 7.	Nonpoint source and point source
✓ San Gabriel River Reach 1 (Estuary to Firestone)	405.15	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Pb, TOX, HIST Coliform, Algae Coliform, Algae	Nonpoint source and point source



Reach/location	Hydro Unit	Beneficial Use Categories Impaired	Evidence of Impairment	Known or Potential Sources
* San Gabriel River Reach 2 (Firestone to Whittier Narrows Dam)	405.15	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Pb Coliform Coliform	Nonpoint source and point source
San Gabriel River Reach 3 (Whittier Narrows to Ramona)	405.41	Aquatic life	TOX	Nonpoint source and point source
* San Jose Creek	405.41	Aquatic life Recreation: contact* Recreation: non-contact	AMM, Pb, TOX Coliform, Algae Coliform, Algae	Nonpoint source and point source
Walnut Creek	405.41	Aquatic life	pH, TOX	Nonpoint source and point source
San Gabriel River East Fork	405.43	Recreation: contact Recreation: non-contact	Trash Trash	Nonpoint source

Revised 303(d) List: Coastal Features and Bays  
 Note: Data are limited and not all constituents were sampled for each waterbody. Therefore, it is not correct to assume that contaminants not cited below are not causing water quality problems.  
 Abbreviations are explained on the last page.

Reach/location	Hydro Unit	Beneficial Use Categories Impaired	Evidence of Impairment	Known or Potential Sources
Ventura Harbor, Ventura Keys at Arundell Barranca	403.11	Recreation: contact	Coliform	Nonpoint source
Santa Clara River Estuary Beach/Surfers Knoll	403.11	Recreation: contact	Coliform	Nonpoint source
McGrath Beach	403.11	Recreation: contact	Coliform, beach closures	Nonpoint source
Mandalay Beach	403.11	Recreation: contact	Beach closures	Nonpoint source
Channel Islands Harbor	403.11	Aquatic life	Sed (Pb, Zn)	Nonpoint source
Port Hueneme Harbor	403.11	Aquatic life	Sed (PAHs), TIS(DDT, PCBs, TBT, Zn)	Nonpoint source
SANTA MONICA BAY NEARSHORE ZONE AND OFFSHORE ZONE: Hypoxen 5 mile and 7 mile outfall areas Joint Water Pollution Control Plant outfall area Palos Verdes shell Marina del Rey area Santa Monica Pier area Manhattan Beach area Redondo Pier area Malibu Pier area Short Bank Point Dume area Malibu area Point Vicente area Palos Verdes-NV Whites Point	various	Aquatic life Fish Consumption	SED TOX, TIS(Ag, DDT, Cr, Pb, PCBs), Sed(Cd, Cu, Pb, Hg, Ni, Zn, DDT, PCBs, chlordane, PAHs), Sed(DDT, PCBs), debris Advisories	Nonpoint source and point source
Santa Monica Bay/Southern LA County beaches: Ventura County Line to Long Beach City Line	various	Recreation: contact Fish consumption	All beaches are impaired due to periodically high coliform counts and/or beach closures. Many areas are impaired due to fish consumption advisories.	Nonpoint Source
Marina del Rey Harbor	405.13	Aquatic life Recreation: contact Shellfish Harvesting	TIS (chlordane, DDT, PCBs, TBT, Zn, Cu, Pb, Chema, dieldrin), Sed (Zn, Cu, Pb, chlordane, DDT), SED TOX, Benthic community effects Coliform Advisory (DDT, PCBs)	Nonpoint source
San Pedro Bay nearshore and offshore zone: Cabrillo Pier area	405.12	Aquatic life Fish consumption	TIS (DDT), SED, TOX, Sed (PAHs, DDT, Zn, Cu, Cr) Advisory (DDT, PCBs)	Nonpoint source and point source
Los Angeles Harbor, particularly Main Channel, Fish Harbor, Cabrillo Pier, and breakwater	405.12	Aquatic life Recreation: contact Fish Consumption	TIS (DDT, PCB, Zn, Cu, PAHs), Sed (DDT, PCBs, Cu, Zn, PAHs, TBT), SED TOX Beach closures Advisory (DDT, PCBs)	Nonpoint source and point source

Reach/location	Hydro Unit	Beneficial Use Categories Impaired	Evidence of Impairment	Known or Potential Sources
Los Angeles Harbor: Consolidated Slip	405.12	Aquatic life Fish Consumption	TIS(DDT, chlordane, PCBs, TBT, Zn), SED TOX, Benthic community effects, Sed (PAHs, Zn, Cr, Pb, DDT, chlordane, PCBs) Advisory (DDT, PCBs)	Nonpoint source
Los Angeles Harbor: Southwest Slip	405.12	Aquatic life Fish Consumption	SED TOX Advisory (DDT, PCBs)	Nonpoint source
Long Beach Harbor, particularly Main Channel, Southeast Basin, West Basin, Pier J, and breakwater	405.12	Aquatic life Fish Consumption	TIS (DDT, PCBs), Benthic community effects, Sed (PAHs), SED TOX Advisory (DDT, PCBs)	Nonpoint source

Revised 303(d) List: Lakes

Note: Data are limited and not all constituents were sampled for each waterbody. Therefore, it is not correct to assume that contaminants not cited below are not causing water quality problems. Abbreviations are explained on the last page.

Waterbody	Hydro unit	Beneficial Use Categories Impaired	Evidence of impairment	Known or Potential Sources
Lake Casitas	402.20	Aquatic life	DO	Nonpoint source
Lake Hughes	403.51	Aquatic life Recreation: contact Recreation: non-contact	EUT, Fish kills Trash, Odors, Algae Trash, Odors, Algae	Nonpoint source
Munz Lake	403.51	Aquatic life Recreation: contact Recreation: non-contact	EUT Trash Trash	Nonpoint source
Elizabeth Lake	403.51	Aquatic life Recreation: contact Recreation: non-contact	pH, EUT, DO pH, Trash Trash	Nonpoint source
Malibou Lake	404.24	Aquatic life Recreation: contact Recreation: non-contact	DO, EUT, TIS (PCBs, chlordane, Cd, Cu, Zn) Algae Algae	Nonpoint source
Lake Lindero	404.23	Aquatic life Recreation: contact Recreation: non-contact Fish consumption	CHL, SC, Se, EUT, TIS (Se, oxadiazon) Odors, Trash, Algae Odors, Trash, Algae TIS(Se)	Nonpoint source
Westlake Lake	404.25	Aquatic life Recreation: contact Recreation: non-contact Fish consumption	AMM, DO, Cu, Pb, EUT, TIS(chlordane, Cd, Cu, Zn) Algae Algae TIS(chlordane)	Nonpoint source
Lake Sherwood	404.26	Aquatic life Recreation: contact Recreation: non-contact Fish consumption	AMM, DO, EUT, TIS (Hg) Algae Algae TIS (Hg)	Nonpoint source
Machado Lake (Harbor Lake)	405.12	Aquatic life Recreation: contact Recreation: non-contact Fish Consumption	AMM, EUT, TIS (chlordane, ChemA, DDT, dieldrin, PCBs) Odors, Trash, Algae Odors, Trash, Algae Advisory (DDT, chlordane), TIS (chlordane, ChemA, DDT, dieldrin, PCBs)	Nonpoint source
Calabasas Lake	405.21	Aquatic life Recreation: contact Recreation: non-contact Fish Consumption	AMM, TIS (DDT, Cu, Zn, Cd), EUT, DO, pH Odors Odors TIS (DDT)	Nonpoint source
Echo Park Lake	405.15	Aquatic life Recreation: contact Recreation: non-contact Fish Consumption	AMM, Cu, Pb, EUT, TIS (PCBs), pH Odors, Trash, Algae Odors, Trash, Algae TIS (PCBs)	Nonpoint source

Waterbody	Hydro	Beneficial Use	Categories Impaired	Evidence of Impairment	Known or Potential Sources
Lincoln Park Lake	405.15	Aquatic life Recreation: contact Recreation: non-contact	AMM, Pb, EUT, DO Odors, Trash Odors, Trash		Nonpoint source
Peck Rd Lake	405.41	Aquatic life Recreation: contact Recreation: non-contact Fish Consumption	DO, Pb, TIS (DDT, chlordane) Odors, Trash Odors, Trash TIS (DDT, chlordane)		Nonpoint source
El Dorado Lakes	405.15	Aquatic life Recreation: contact Recreation: non-contact	AMM, Cu, Pb, EUT, TIS (Hg, Cr), pH Algae Algae		Nonpoint source
Legg Lake	405.41	Aquatic life Recreation: contact Recreation: non-contact	Cu, Pb, AMM, pH Odors, Trash Odors, Trash		Nonpoint source
Puddingstone Reservoir	405.52	Aquatic life Fish Consumption	DO, TIS (PCBs, chlordane, DDT, dacthal, oxadiazon, Hg, As) TIS (PCBs, DDT, Hg)		Nonpoint source
Santa Fe Dam Park Lake	405.41	Aquatic life	Pb, Cu, pH		Nonpoint source
Crystal Lake	405.43	Aquatic life	DO		Nonpoint source

# ABBREVIATIONS AND FOOTNOTES

Although people sometimes swim, bathe, drink, fish, and otherwise use these waterbodies, access is restricted. Please refer to the Basin Plan (1994) for footnotes which identify specific restrictions.

TOX  
SED TOX  
Chemta  
Metals

Tests or studies of chronic or acute toxicity of species (water column).  
Toxic Substances Monitoring Program combination of pesticides: Aldrin, dieldrin, chlordane, endrin, heptachlor, heptachlor epoxide, HCH (including lindane), endosulfan, and toxaphene.  
Ag (Silver), Ba (Barium), Cd (Cadmium), Cr (Chromium), CrVI (Chromium VI), Cu (Copper), Pb (Lead), Se (Selenium), TNT (tributyl tin), Zn (Zinc), and Hg (Mercury).

Coliform  
DO  
Temp  
N+P  
AMM  
GWR  
Groundwater recharge use  
Ammonia-N  
Nitrate-N + Nitrite-N  
Temperature of effluent is greater than 5° above ambient temperature in waterbody.  
Dissolved oxygen (depleted levels)  
Coliform bacteria: fecal coliform for inland surface waterbodies; total and fecal coliform for beaches.  
Significant trash and debris observed  
Significant odors observed  
Significant algal growth observed  
Oily film observed on surface of water  
Scum  
Turbidity  
Eutrophic  
Polycyclic aromatic hydrocarbons

Level of constituent in sediment is elevated.  
Abnormal fish histology observed.  
Fish or mussel data from State Mussel Watch and State Toxic Substances Monitoring programs. The constituent in parentheses exceeds the standard(s).