

**GHD Inc.**

Report for Mission Trails Regional Park  
Master Plan Update  
Water Quality Study

June 2016



# Contents

1.	Water Quality Study	1
1.1	Purpose	1
1.2	Pollutants and Pollutants of Concern	1
1.3	Water Quality Technical Report	6
1.4	Low Impact Development	6
1.5	Recommended Best Management Practices	7
1.6	Key Environmental Issues	7

## Table Index

Table 1.1	MTRP Receiving Waters	1
Table 1.2	Pollutants listed as impairing the watersheds draining MTRP project areas	4
Table 1.3	Best Management Practices	7

## Figure Index

Figure 1	MTRP Receiving Waters	2
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## Appendices

A	Pollutants
B	Form DS-560

# 1. Water Quality Study

## 1.1 Purpose

The purpose of the this Water Quality Study is to evaluate the Mission Trails Regional Park (MTRP) Master Plan Update, as a whole, to identify potential project generated pollutants and conditions of concern, identify whether a Water Quality Technical Report will be required, identify Low Impact Development (LID) opportunities, recommend source control Best Management Practices (BMPs) and individually address key environmental Issue areas.

## 1.2 Project Location

There are five receiving waters from the MTRP: Sycamore Canyon, Poway Creek, The San Diego River Lower, Forester Creek, and Murray Reservoir. The receiving waters per area are shown in Figure 1 and listed below in Table 1.1.

**Table 1.1 MTRP Receiving Waters**

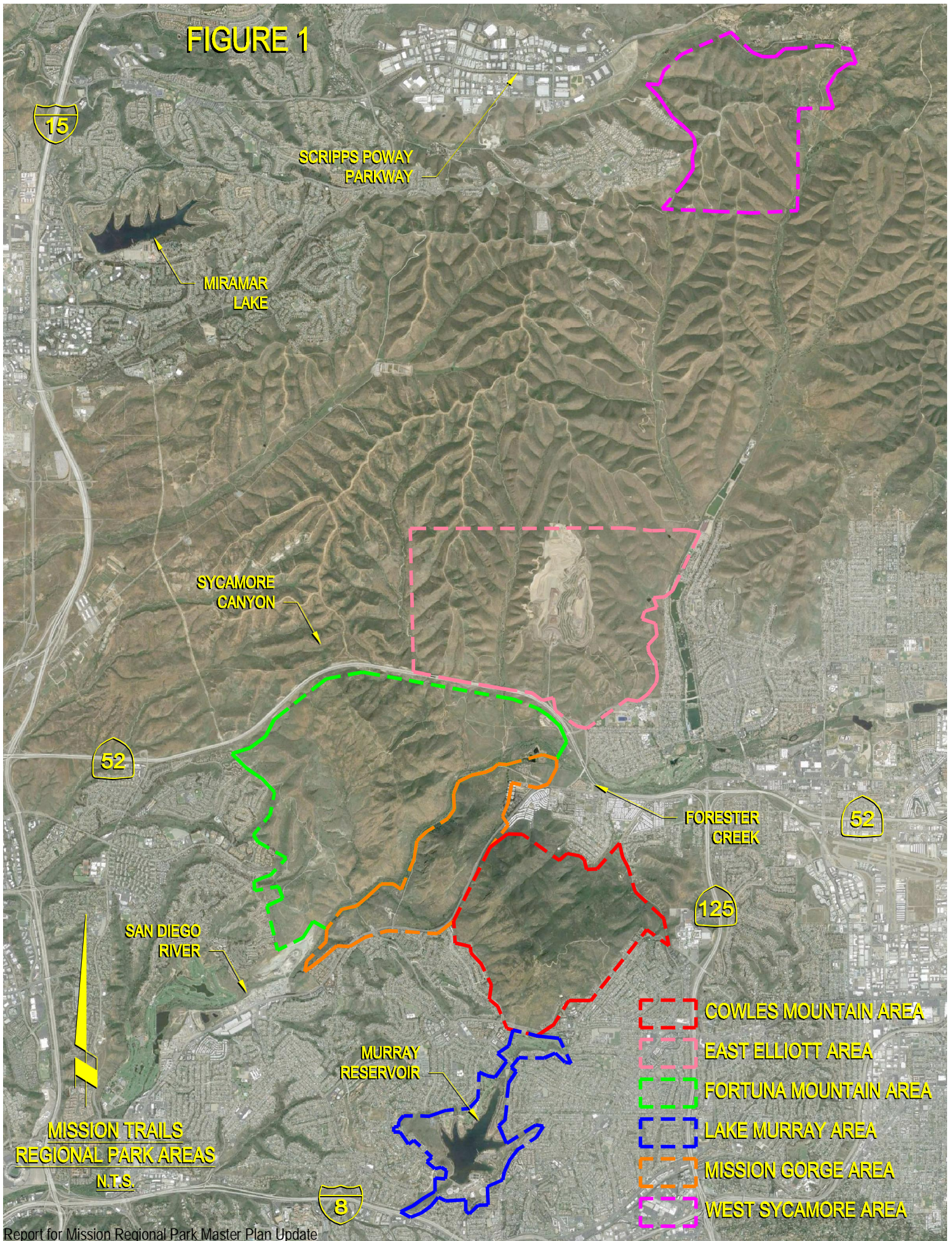
	Poway Creek	Sycamore Canyon	San Diego River Lower	Forester Creek	Murray Reservoir
West Sycamore	X	X			
East Elliot		X	X		
Fortuna Mountain			X		
Mission Gorge Area			X		
Cowles Mountain Area			X	X	X
Lake Murray Area					X

## 1.3 Pollutants and Conditions of Concern

The California Regional Water Quality Control Board (RWQCB), Region 9, has identified a variety of physical, chemical, and biological pollutants as providing impairments to receiving water bodies in the subject project watersheds. These impairments are defined on per the Clean Water Act in the RWQCB's 303(d) list and updated on a 3-year cycle in the 305(b) Integrated Report. The 305(b) Integrated Report lists impairments in 5 categories ranging from constituents that may be removed from the 303(d) list (or those



FIGURE 1





pollutants that were listed without sufficient documentation or for which water quality has improved to a point that they no longer require rigorous management (Category I), to those for which strict numeric discharge limits are identified in documents known as Total Maximum Day Loads (TMDLs). 303(d) listed constituents requiring TMDLs are either Category IV or V on the 305(b) Report.

A review of the current 305(b) Report on the RWQCB's website indicates that the watersheds draining the MTRP sites have impairments requiring TMDLs for those pollutants identified in Table 1.2. Additional information on the pollutants for each area can be found in Appendix A.

### **Project Source Area Assessment**

The MTRP includes the addition of approximately 34.6 miles of new hike & bike, hiking, and multiuse trails, the closure of approximately 20.7 miles of existing trails for a net gain of approximately 13.9 miles of trails. The intended use of these trails are not anticipated to produce conditions that would result in the discharge of potential pollution causing media. The trails are used by visitors to the park for hiking and bicycling, these uses and the routine maintenance of these trails (generally by use of hand tools that are carried in and out by foot) have the potential to generate minor erosion on the trails themselves.

This minor erosion condition will be mediated by the fact that the trails are within an open vegetated area, such that sediments will likely become trapped in adjacent vegetative zones (acting essentially as very long, standard 15-foot width, vegetative buffer strip BMPs) and not be released into the streams draining these watersheds. Other factors that diminish the potential for erosion are the fact that routine use of the trails creates compactive forces on the ground that acts to stabilize these soils and thus reduces the potential for particle release due to impact forces of precipitation. Lastly, many trail areas have the added benefit of having tree canopy coverage that also reduces the impact forces of precipitation events and thus reduces potential erosion-causing mechanisms.

Since the trails will be used by hikers, to mitigate potential for trash and food waste to be discharged to the watersheds, trash receptacles will be planned to be located at trail heads throughout the MTRP. Also, some hikers may bring pets and thus the MTRP will also supply pet-waste stations at the trail heads.

There are three proposed parking lots identified in the MTRP Master Plan Update. All parking lots are anticipated to be gravel or decomposed granite (DG). One parking lot will include 78 parking stalls and is currently planned to be located in the Mission Gorge area on the easterly side of the Father Junipero Serra Trail between Mission Gorge Road and the Visitor and Interpretive Center driveway entrance. The other two parking lots are to be located in the Cowles Mountain Area. One parking lot will be located at the Barker Way entrance with approximately 34 stalls and the second will be located just north of Golfcrest Drive off of Mission Gorge Road, adjacent to the SDCWA pipeline access portal. In addition, the existing wide dirt shoulder along Mesa Road near Big Rock Park is anticipated to be improved as off street gravel or DG parking.

Parking lots with greater than 15 stalls fall under the City of San Diego's Priority Development Project Designation (see Appendix B, Form DS-560) and will require development of structural BMPs in the form of LID facilities such as vegetative swales, bioretention and/or infiltration basins. The BMPs will also be designed to target those pollutants anticipated by the parking lot use and for the constituents for which that watershed is listed as impaired. Also, the designed BMP must also meet the City's Hydromodification management criteria as described in the City's Storm Water Standards Manual.

**Table 1.2 Pollutants listed as impairing the watersheds draining MTRP project areas**

<b>Pollutant</b>	<b>Forester Creek</b>	<b>Murray Reservoir</b>	<b>Poway Creek</b>	<b>San Diego River Lower</b>	<b>Sycamore Canyon</b>
Dissolved Oxygen	X	X		X	
Phosphorus	X			X	
Nitrogen	X	X	X	X	
Sulfates	X	X			
Selenium	X	X	X		
Total Dissolved Solids	X	X		X	
pH	X	X			
Turbidity	X	X			
Fecal Coliform	X			X	
Escherichia coli		X			
Trichloroethane		X			
Tetrachloroethane		X			
Dichloroethylene (DCE)/ Vinylidene Chloride		X			
Trichlorobenzene		X			
Dibromo chloropropane (DBCP)		X			
Dichloroethane		X			
Dichloroethylene,-trans		X			
Alachlor		X			
Aluminium		X			
Ammonia as Nitrogen		X			
Antimony		X			
Arsenic		X			
Atrazine		X			
Barium		X			
Benzene		X			
Benzo(a)pyrene (Benzopyrene)		X			
Carbofuran		X			
Carbon tetrachloride		X			
Chlordane		X			
Chloride		X			X
Chlorobenzene (mono)		X			
Chromium (total)		X			
Color		X			
Copper		X			
Endrin		X			
Ethylbenzene		X			

<b>Pollutant</b>	<b>Forester Creek</b>	<b>Murray Reservoir</b>	<b>Poway Creek</b>	<b>San Diego River Lower</b>	<b>Sycamore Canyon</b>
Fluoride		X			
Glyphosate		X			
Heptachlor		X			
Heptachlor epoxide		X			
Hexachlorobenzene/ HCB		X			
Hexachlorocyclopentadiene		X			
Iron		X			
Lindane/gamma Hexachlorocyclohexane (gamma-HCH)		X			
Manganese		X		X	
Methoxychlor		X			
Molinate		X			
Nickel		X			
Oxamyl (Vydate)		X			
PCBs (Polychlorinated biphenyls)		X			
Pentachlorophenol (PCP)		X			
Picloram		X			
Simazine		X			
Styrene		X			
Tetrachloroethylene/PCE		X			
Toluene		X			
Toxaphene		X			
Trichloroethylene/TCE		X			
Trichlorofluoromethane (CFC-11)		X			
Uranium		X			
Vinyl chloride		X			
Zinc		X			
meta-para xylenes		X			
o-Dichlorobenzene		X			
o-Xylene		X			
p-Dichlorobenzene (DCB)		X			
Toxicity			X	X	
Enterococcus				X	

## **1.4 Storm Water Quality Management Plan**

The purpose of a Storm Water Quality Management Plan (SWQMP) is to describe the source control and Low Impact Development (LID) permanent storm water Best Management Practices (BMPs) that are to be incorporated into each individual project design to mitigate the impacts of urban runoff. To determine if execution of each proposed project within the MTRP will require a SWQMP, the City of San Diego Development Services Storm Water Requirements Applicability Checklist, Form DS-560 shall be completed. Appendix B includes an example Form DS-560 completed for a trail and parking lot project.

A Priority Project SWQMP will be required for any project that includes construction of a parking lot equal to or greater than 5000 sq. ft., or for projects that include construction of 2500 sq. ft. of impervious surfaces in, or in close proximity to, Environmentally Sensitive areas. A Standard SWQMP will be required for trail projects that do not include the construction of impervious surfaces. A SWQMP will not be required for maintenance projects.

It is important to note that the only driver triggering the requirement of the Priority Project SWQMP for Master Plan Projects and classifying each individual project as a Priority Development Project rather than a Standard Development Project, would be inclusion of a parking lot.

The San Diego Water Board adopted Order No. R9-2013-0001, NPDES No. CAS0109266, National Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements for Discharges from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds within the San Diego Region and therefore each project must meet the requirements of the San Diego region MS4 permit.

The parking lots in the MTRP and are planned to be gravel or decomposed granite surfaced parking areas. These areas have the potential to produce pollutants from the standard use of automotive vehicles, and thus during the project design and construction process may be required to implement LID features such as vegetative swales, bioretention basins, and infiltration to treat potential pollutants from the parking lot areas. Decomposed granite surfacing also has the potential for erosion and therefore implementation of LID features such as rilling the subgrade surface and reduction of gradients may be required during the design and construction process.

## **1.5 Low Impact Development**

Priority Development Projects (PDP) are subject to Low-Impact Development (LID) design standards, and LID features attempt to mimic predevelopment hydrologic conditions. The LID features are required to be designed to capture, treat, and infiltrate the 85<sup>th</sup> percentile water quality design storm.

The County Department of Environmental Health requires maximum drawdown times in vaults and detention basins of 96 hours to control vector sources. Therefore, the selection of the appropriate BMPs will depend on soil conditions, specifically the soil's infiltration rate as well as long-term maintenance. Unmaintained basins in areas that have high content of silty/clayey soils tend to create a clogging surface that must be regularly maintained to ensure proper functioning of the LID devices.

The proposed MTRP trails may generally be considered self-treating. However, features should be considered for both of these uses to address their potential pollution (e.g. erosive conditions on trails and conventional vehicular pollution from parking lots).

The proposed parking lots to be located in the Mission Gorge area on the easterly side of the Father Junipero Serra Trail between Mission Gorge Road and the Visitor and Interpretive Center driveway entrance, and in the Cowles Mountain area off of Mission Gorge Road, Baker Way, and Mesa Drive may require LID



and/or BMP features such as bioretention, vegetated swales, and/or infiltration or filtration basins to treat the storm water runoff.

## 1.6 Recommended Best Management Practices

The MTRP will require any number of Best Management Practices to minimize pollutants from the project areas. A geotechnical report prepared in conformance with the City of San Diego Technical Guidelines will be required for each project that includes an LID or treatment control BMP designed for infiltration of runoff. The geotechnical report should also recommend a groundwater migration evaluation by a licensed hydrogeologist if there is any concern that infiltration facilities could have an impact on the existing migration of groundwater

Table 1.3 summarized the general concept BMPs for the project uses.

**Table 1.3 Best Management Practices**

Location	Potential Pollution	Potential BMP	Documentation
Trail construction and/or maintenance	Erosion of ground surface	Standard foot-traffic compaction, Adjacent vegetative buffer strip. Loose soils may require additional soil solidifier additive/application on a routine basis, bonded fiber matrix, etc.	MTRP, project Standard Development Project documentation per City Storm Water Standards Manual
Trail construction and/or maintenance	Solid Waste	Trash Receptacles at trail heads	MTRP, project Standard Development Project documentation per City Storm Water Standards Manual
Trail construction and/or maintenance	Pet Waste	Pet-Waste Stations at trail heads	MTRP, project Standard Development Project documentation per City Storm Water Standards Manual
Gravel or Decomposed Granite Surfaced Parking Lots	Conventional vehicular pollutants and erosion.	Consider Vegetated swale along perimeter, bioretention basin, rilling and reduction of gradients.	MTRP, project Standard Development Project documentation per City Storm Water Standards Manual
Paved Parking Lot and driveway off of Mission Gorge Road	Conventional vehicular pollutants	Consider LID features and/or treatment control BMPs (e.g. addition of vegetated swale along perimeter and bioretention basin).	MTRP, WQTR

## 1.7 Key Environmental Issues

The following is a discussion of key environmental issue area that have been identified for the MTRP. Note: only the civil engineering-related issues are described below and do not include an impact analysis, significance determination, nor identification of mitigation measures. Land Use, Visual Effects and

Neighborhood Character, Air Quality/Odor, Biological Resources, Historical Resources, Geology/Soils, Paleontological Resources, Public Services, and Cumulative Impacts have been prepared by others.

#### **1.7.1 Human Health/Public Safety/Hazardous Materials, Issues 1-3**

**Issue 1: Would the proposed Master Plan Update and Natural Resource Management Plan expose people or property to health hazards, including fire?**

No structures are identified for the project and no overtly recognizable health hazards are apparent in the MTRP update.

**Issue 2: Would the proposed Master Plan Update and Natural Resource Management Plan create future risk of an explosion or the release of hazardous substance (including, but not limited to gas, oil, pesticides, chemicals, or radiation)? Would the proposed Master Plan expose people or the environment to a significant hazard through the routine transport, use, or disposal of hazardous materials?**

No addition of the storage of explosive or hazardous substances are anticipated for the MTRP project

**Issue 3: Would the proposed Master Plan's uses be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 6596.25 and, as a result, create a significant hazard to the public or environment?**

Per the State Water Boards GeoTracker website, only the Lake Murray area has open hazardous material sites in its vicinity. These sites include:

- The Alvarado Filtration Plant
- A leaking UST at an AM/PM Mini Market at Jackson Dr. and Golfcrest Dr.
- A leaking UST at a UNOCAL Service Station at Navajo Rd and Park Ridge Blvd.
- A leaking UST at a G&M Oil Station at Navajo Rd and Jackson Dr.
- A leaking UST at an Exxon Service Station at Navajo Rd and Jackson Dr.
- A leaking UST at a UNOCAL Service Station at Navajo Rd and Park Ridge Blvd..
- A leaking UST at a Chevron Service Station at Lake Murray Blvd and Baltimore Dr.

#### **1.7.2 Hydrology/Water Quality, Issues 1-5**

**Issue 1: Would the proposed Master Plan Update and Natural Resource Management Plan result in an increase in impervious surfaces and associated increased runoff? Would the proposed Master Plan Update and Natural Resource Management Plan result in a substantial alteration to on and offsite drainage patterns due to changes runoff flow rates or volumes?**

A project's impact on stormwater runoff patterns or water quality due to disturbance of the existing ground, would be mitigated by the use of storm water BMPs and documented in a project SWQMP.

The SWQMP would also be required to critically evaluate the proposed practices and substantiate that the proposed BMPs mitigate potential impacts due to the increased impervious or area and proposed uses of any parking lot facility included in a project. No substantial alterations to on- and offsite drainage patterns are anticipated by this use.

**Issue 2: What modifications to the natural drainage system would be required for implementation of the proposed Master Plan Update and Natural Resource Management Plan? Would there be an effect on the drainage basins within the San Diego River and Los Penasquitos watersheds with implementation of the proposed Master Plan Update and Natural Resource Management Plan?**

No modifications to the natural drainage system are anticipated.

No effects to the drainage basins within the San Diego River or Los Penasquitos watersheds are anticipated.

**Issue 3: Would the proposal result in alterations to the course or flow of flood waters?**

No alterations to the course or flow of flood waters are anticipated as a result of the project.

**Issue 4: Would the proposed Master Plan create discharges into surface or ground water, or in any alteration of surface or ground water quality, including, but not limited to temperature, dissolved oxygen or turbidity? Would there be increases in pollutant discharges including downstream sedimentation?**

The proposed gravel/DG parking lots would result in the increase of pollutants from vehicles. The gravel/DG parking lots sometimes considered self-cleaning. However, for projects contained in this Master Plan, the addition of LID features for mitigating potential discharge of parking lot related pollutants should be considered a requirement. The proposed net overall trail length increase of approximately 13.9 miles may result in an increase in erosion, thus standard erosion controls (e.g. soil solidifiers) may be required in some areas that have loose, less-cohesive soils. However, standard compaction from routine use by hikers is anticipated to provide general stability of the trail soils and act as an erosion control technique. Also, the surrounding natural area would act as a vegetative buffer strip to capture potential sedimentation and detain sediments from release within the watershed during runoff generating storm events.

**Issue 5: Would the proposed Master Plan Update and Natural Resource Management Plan, when considered in combination with past, current, and future projects in the affected watersheds, result in cumulative significant impacts on the hydrology and water quality?**

The proposed project is not anticipated to generate significant impacts to the hydrology or water quality.

### **1.7.3 Public Utilities, Issue 1**

**Issue 1: Would the proposed project result in the need for new systems or require substantial alterations to existing utilities including water infrastructure, wastewater infrastructure, storm water drainage, water conservation, energy or solid waste disposal, the construction of which would create a physical effect on the environment? These systems include communications systems, water, reclaimed water, sewer, storm water drainage and solid waste disposal.**

Storm drainage would be addressed by the BMPs discussed in the preceding sections. Minor drainage piping may be required for stream crossings or at the drive way to parking lots. There is no anticipated need to provide water or wastewater infrastructure at the proposed project locations. Solid waste receptacles and pet-waste stations are planned to be added to trail heads and would require coordination with maintenance staff to ensure proper collection of solid waste.

## Appendix A

# Pollutants

## Final California 2010 Integrated Report( 303(d) List/305(b) Report)

### Supporting Information

#### Regional Board 9 - San Diego Region

**Water Body Name:** [Forester Creek](#)  
**Water Body ID:** CAR9071300020010924120240  
**Water Body Type:** River & Stream

**DECISION ID** 5024

**Region 9**

Forester Creek

**Pollutant:** Oxygen, Dissolved  
**Final Listing Decision:** Delist from 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** List on 303(d) list (TMDL required list)(2006)  
**Revision Status:** Revised  
**Reason for Delisting:** Flaws in original listing  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for removal from the section 303(d) list under section 4.2 of the Listing Policy. Under this section a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Three of ten of samples exceeded the water quality objective for dissolved oxygen.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification for removing this water segment-pollutant combination from the section 303(d) list.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Three of ten of samples exceeded the water quality objective for dissolved oxygen and this does not exceed the allowable frequency listed in Table 4.2 of the Listing Policy.
4. Pursuant to section 4.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because applicable water quality standards are not being exceeded.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.



**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 5024, Oxygen, Dissolved  
Forester Creek****Region 9**

LOE ID:	3342
Pollutant:	Oxygen, Dissolved
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Dissolved
Beneficial Use:	Industrial Service Supply
Number of Samples:	10
Number of Exceedances:	3
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected at Forester Creek by the City of El Cajon in 09/1997 and monthly from 04/2000-12/2000. Three of 10 averages were below 7.0 mg/L, which is more than 10% of the time (SWRCB, 2003)
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: Dissolved oxygen levels shall not be less than 5.0 mg/l in inland surface waters with designated MAR or WARM beneficial uses or less than 6.0 mg/l in waters with designated COLD beneficial uses. The annual mean dissolved oxygen concentrations shall not be less than 7 mg/l more than 10% of the time.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Forester Creek. The exact sample location is unknown.
Temporal Representation:	Samples were collected in 09/1997 and monthly from 04/2000-12/2000. Averages were reported. It is unknown how many samples were collected per month.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**DECISION ID**  
**Forester Creek****5090****Region 9****Pollutant:** **Phosphorus**

**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Reason for Delisting:**  
**Impairment from Pollutant or Pollution:**

**Delist from 303(d) list (TMDL required list)**  
 List on 303(d) list (TMDL required list)(2006)

Revised  
 Flaws in original listing  
 Pollutant

**Conclusion:**

Regional Board Conclusion:  
 Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Three of 10 samples exceeded the Basin Plan criteria, and these exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

State Board Review and Conclusion:

The original listing in 2006 applied Table 3.1 where the minimum sample requirement is 2 samples. However, Region 9 considers phosphate a conventional pollutant and as such, Table 3.2 should have been applied with a minimum requirement of 5 samples. State Board staff has re-evaluated the original listing and made the recommendation to Delist for phosphorus. The revised recommendation is as follows:

This pollutant is being considered for removal from the section 303(d) list under section 4 of the Listing Policy. Under this section an existing listing may be removed if the listing was based on faulty data and it is demonstrated that the listing would not have occurred in the absence of such faulty data.

One line of evidence is available in the administrative record to assess this pollutant. Three of ten samples exceed the water quality objective for phosphorus. According to table 3.2 of the Listing Policy, for sample size of ten, the water body pollutant combination should be listed if the number of exceedences is equal or are greater than five. The three exceedences do not exceed the allowable frequency in table 3.2.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification in favor of removing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Three of 10 samples exceeded the Basin Plan criteria, and these do not exceed the allowable frequency listed in Table 3.2 of the Listing Policy. This pollutant should not have been listed in 2006.

4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The decision has not changed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the following changes to the decision: The water body-pollutant combination should be removed from the section 303(d) list because applicable water quality standards for the pollutant are not exceeded.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5090, Phosphorus  
Forester Creek**

**Region 9**

LOE ID:	3344
Pollutant:	Phosphorus
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Industrial Service Supply
Number of Samples:	10
Number of Exceedances:	3
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of El Cajon in 09/1997 and monthly from 04/2000-12/2000. Only monthly averages were reported. Three of 10 averages were at or in exceedance of the standard.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters-streams and other flowing waters, with all beneficial uses, the WQO for total phosphorus is 0.1 mg/L. This appears to be desired goal in order to prevent plant nuisance in streams and other flowing waters; not to be exceeded more than 10% of the time.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Forester Creek. The exact sampling location was not reported.
Temporal Representation:	Samples were collected in 09/1997 and monthly from 04/2000-12/2000. Only monthly averages were reported. It is unknown how many samples the monthly average represents.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

<b>DECISION ID</b>	<b>16706</b>	<b>Region 9</b>
<b>Forester Creek</b>		
<b>Pollutant:</b>	<b>Nitrogen</b>	
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	New Decision	
<b>Revision Status</b>	Revised	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.</p> <p>One line of evidence is available in the administrative record to assess this pollutant. Four of the 4 samples exceed the water quality objective.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p> <p>This conclusion is based on the staff findings that:</p> <ol style="list-style-type: none"> <li>1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.</li> <li>2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.</li> <li>3. Four of the 4 samples exceeded the Basin Plan objective and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy.</li> <li>4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.</li> </ol>	
<b>RWQCB Board Staff Decision:</b>	After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because it cannot be determined if applicable water quality standards are not being exceeded due to limited samples.	
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.	
<b>USEPA Action (if applicable):</b>		

**Line of Evidence (LOE) for Decision ID 16706, Nitrogen**  
**Forester Creek**

**Region 9**

LOE ID: 9012

Pollutant:	Nitrogen
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	None
Beneficial Use:	Warm Freshwater Habitat
Number of Samples:	4
Number of Exceedances:	4
Data and Information Type:	Fixed station physical/chemical monitoring (conventional pollutants only)
Data Used to Assess Water Quality:	Four water samples were collected at Forrester Creek 2 station 907SDFRC2 in May 2004, September 2004; February 2005; and April 2005. All showed excessive nitrogen concentrations according to results in California's Surface Water Ambient Monitoring Program Report, 2007.
Data Reference:	<a href="#">Monitoring data for Region 9</a>
Water Quality Objective/Criterion:	Water bodies shall not contain biostimulatory substances in concentrations that promote aquatic growth to the extent that such growths cause nuisance or adversely affect beneficial uses (RWQCB, 2007).  A desired goal in order to prevent plant nuisance in streams and other flowing waters appears to be 0.1 mg/L total phosphorus, P. These values are not to be exceeded more than 10% of the time unless studies of the specific water body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds; however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1, on a weight to weight basis shall be used (RWQCB, 2007).
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Forrester Creek station 2(907SDFRC2).
Temporal Representation:	Samples were collected in May 2004, September 2004, February 2005, and April 2005.
Environmental Conditions:	
QAPP Information:	Quality control for the chemical analysis portion of this study was conducted in accordance with the California's Surface Water Ambient Monitoring Program.
QAPP Information Reference(s):	<a href="#">2002. Quality Assurance Management Plan for the State of California's Surface Water Ambient Monitoring Program. California Department of Fish and Game, Monterey, CA</a>

**DECISION ID** 16462

**Region 9**

**Forester Creek**

<b>Pollutant:</b>	<b>Sulfates</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing</b>	New Decision



**Decision:  
Revision Status  
Impairment from Pollutant or  
Pollution:**

Revised  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Three of 4 samples exceed the secondary drinking water MCL.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Three of 4 samples exceed the secondary drinking water MCL and this sample size is insufficient to determine with the power and confidence of the Listing Policy if standards are not met. A minimum of five samples is needed for application of table 3.2.
4. Pursuant to [SECTION 3.11/4.11] of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because it cannot be determined if applicable water quality standards are not being exceeded.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 16462, Sulfates**

**Region 9**

**Forester Creek**

LOE ID:	9013
Pollutant:	Sulfates
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	None
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	4

Number of Exceedances:	3
Data and Information Type:	Non-fixed station physical/chemical monitoring (conventional pollutant only)
Data Used to Assess Water Quality:	Four water samples were collected at Forrester Creek station 2 in March 2002, April 2002, June 2002, and September 2002. Three showed excessive sulfate concentrations according to results in California's Surface Water Ambient Monitoring Program Report, 2007.
Data Reference:	<a href="#">Monitoring data for Region 9</a>
Water Quality Objective/Criterion:	The recommended secondary drinking water standards for sulfate is 250 mg/l (RWQCB, 2007).
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Forrester Creek station 2(907SDFRC2).
Temporal Representation:	Samples were collected in March 2002, April 2002, June 2002, and September 2002.
Environmental Conditions:	
QAPP Information:	Quality control for the chemical analysis portion of this study was conducted in accordance with the California's Surface Water Ambient Monitoring Program.
QAPP Information Reference(s):	<a href="#">2002. Quality Assurance Management Plan for the State of California's Surface Water Ambient Monitoring Program. California Department of Fish and Game, Monterey, CA</a>

<b>DECISION ID</b>	<b>16463</b>	<b>Region 9</b>
<b>Forester Creek</b>		
<b>Pollutant:</b>	<b>Selenium</b>	
<b>Final Listing Decision:</b>	<b>List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	New Decision	
<b>Revision Status</b>	Revised	
<b>Sources:</b>	Source Unknown	
<b>Expected TMDL Completion Date:</b>	2019	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.</p> <p>One line of evidence is available in the administrative record to assess this pollutant. Four of the 4 samples exceed the water quality objective.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p>	

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Four of 4 samples exceed the CTR value for Se and this exceeds the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

<b>RWQCB Board Staff Decision:</b>	After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.
<b>USEPA Action (if applicable):</b>	USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

#### Line of Evidence (LOE) for Decision ID 16463, Selenium

#### Region 9

##### Forester Creek

LOE ID:	9014
Pollutant:	Selenium
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Dissolved
Beneficial Use:	Warm Freshwater Habitat
Number of Samples:	4
Number of Exceedances:	4
Data and Information Type:	Non-fixed station physical/chemical monitoring (conventional pollutant only)
Data Used to Assess Water Quality:	Four water samples were collected at Forrester Creek station 2 (907SDFRC2) in May 2004, September 2004, April 2005, and February 2005, all showed excessive selenium concentrations according to results in California's Surface Water Ambient Monitoring Program Report, 2007.
Data Reference:	<a href="#">Monitoring data for Region 9</a>
Water Quality Objective/Criterion:	CTR Freshwater Chronic (CCC) 5 ug/L (U.S. EPA, 2000.
Objective/Criterion Reference:	<a href="#">Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California; Rule. 40 CFR Part 131. U.S. Environmental Protection Agency, Region IX, Water Division, San Francisco, CA</a>
Evaluation Guideline:	
Guideline Reference:	

Spatial Representation: Samples were collected at Forrester Creek station 2(907SDFRC2).  
 Temporal Representation: Samples were collected in May 2004, September 2004, April 2005, and February 2005.  
 Environmental Conditions:  
 QAPP Information: Quality control for the chemical analysis portion of this study was conducted in accordance with the California's Surface Water Ambient Monitoring Program.  
 QAPP Information Reference(s): [2002. Quality Assurance Management Plan for the State of California's Surface Water Ambient Monitoring Program. California Department of Fish and Game, Monterey, CA](#)

<b>DECISION ID</b>	<b>5025</b>	<b>Region 9</b>
<b>Forester Creek</b>		
<b>Pollutant:</b>	<b>Total Dissolved Solids</b>	
<b>Final Listing Decision:</b>	<b>Do Not Delist from 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not Delist from 303(d) list (TMDL required list)(2006)	
<b>Revision Status</b>	Original	
<b>Sources:</b>	Agricultural Return Flows   Flow Regulation/Modification   Unknown Nonpoint Source   Unknown Point Source   Urban Runoff/Storm Sewers	
<b>Expected TMDL Completion Date:</b>	2019	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	<p>One line of evidence is available in the administrative record to assess this pollutant. Ten of the 10 samples exceed the Basin Plan criteria. Even though the number of samples is insufficient to determine with the confidence and power of the Listing Policy, a minimum of 61 samples would be needed before 10 exceedances would result in a delisting of this pollutant for this waterbody.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is insufficient justification in favor of removing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p>	
<b>RWQCB Board Staff Decision:</b>	No new data were assessed for 2008. The decision has not changed.	
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.	
<b>USEPA Action (if applicable):</b>	USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.	

**Line of Evidence (LOE) for Decision ID 5025, Total Dissolved Solids** **Region 9**  
**Forester Creek**

LOE ID: 3343  
 Pollutant: Total Dissolved Solids

LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total Dissolved
Beneficial Use:	Industrial Service Supply
Number of Samples:	10
Number of Exceedances:	10
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of El Cajon in 09/1997 and monthly from 04/2000-12/2000. Only monthly averages were reported. Ten of 10 averages were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with all beneficial uses, the WQO for TDS is 500. This concentration is not to be exceeded more than 10% of the time during any one year period.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Forester Creek. The exact sampling location was not reported.
Temporal Representation:	Samples were collected in 09/1997 and monthly from 04/2000-12/2000. Only monthly averages were reported. It is unknown how often samples were collected during each month.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

<b>DECISION ID</b>	<b>4942</b>	<b>Region 9</b>
<b>Forester Creek</b>		

<b>Pollutant:</b>	<b>pH</b>
<b>Final Listing Decision:</b>	<b>Do Not Delist from 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not Delist from 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Sources:</b>	Habitat Modification   Industrial Point Sources   Spills   Unknown Nonpoint Source   Unknown Point Source
<b>Expected TMDL Completion Date:</b>	2019
<b>Impairment from Pollutant or Pollution:</b>	Pollutant
<b>Conclusion:</b>	Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against removing this water segment-pollutant combination from the section 303(d) list.  This conclusion is based on the staff findings that:



1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Thirty-eight of 48 samples exceeded the Basin Plan's water quality objective and this exceeds the allowable frequency listed in Table 4.2 of the Listing Policy.
4. Pursuant to section 4.11 of the Listing Policy, no additional data and information are available indicating that standards are met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The decision has not changed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):** USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

#### Line of Evidence (LOE) for Decision ID 4942, pH

**Region 9**

##### Forester Creek

LOE ID:	3336
Pollutant:	pH (high)
LOE Subgroup:	Ancillary Evidence Spills
Matrix:	Not Specified
Fraction:	None
Beneficial Use:	Industrial Service Supply
Number of Samples:	0
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	A letter from the City of El Cajon, by Richard C. Odiorne, City Engineer, was written to Julian Medina at Chem-tronics, Inc, in El Cajon, CA. The letter is dated July 6, 2000 and documents a 1000 gallons sodium hydroxide spill from Chem-tronic, Inc, that occurred on July 5, 2000. The letter from Richard Odiorne (City of El Cajon) asks that Chem-tronics, inc. ensure that they have Best Management Practices in place for spill preventions and cleanup.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: The pH value shall not be changed at any time more than 0.2 pH units from that which occurs naturally. Changes in normal ambient pH levels shall not exceed 0.2 units in waters with designated marine (MAR), or estuarine (EST), or saline (SAL) beneficial uses. Changes in normal ambient pH levels shall not exceed 0.5 units in fresh waters with designated cold freshwater habitat (COLD) or warm freshwater habitat (WARM) beneficial uses. In bays and estuaries the pH shall not be depressed below 7.0 nor raised above 9.0. In inland surface waters the pH shall not be depressed below 6.5 nor raised above 8.5.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>

Evaluation Guideline:	The corresponding numeric objective for pH from the Basin Plan for inland surface waters with all beneficial uses is 6.5 (minimum) to 8.5 (maximum).
Guideline Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Spatial Representation:	A sodium hydroxide spill occurred in the Forester Creek Channel from Chem-tronics, Inc. 1150 West Bradley Av., El Cajon, CA 92020.
Temporal Representation:	The spill occurred on July 5, 2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment. QA=?
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4942, pH  
Forester Creek**

**Region 9**

LOE ID:	3338
Pollutant:	pH (high)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Industrial Service Supply
Number of Samples:	14
Number of Exceedances:	14
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of El Cajon from 09/1994 to 01/2001. Fourteen of 14 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (minimum) to 8.5 (maximum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected in Forester Creek, North of I-8 between Magnolia and Johnson.
Temporal Representation:	Oldest data used is almost 10 years old at time of assessment. Samples were collected from 09/27/1994 to 01/03/2001. Two samples each were collected in 09/1994, 05/1996, 11/1997, 01/1999, 06/1999, and 01/2001. One sample each was collected in 12/1999, and 07/2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4942, pH  
Forester Creek**

**Region 9**

LOE ID:	3341
Pollutant:	pH (high)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Industrial Service Supply
Number of Samples:	10
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of El Cajon in 09/1997 and 04/2000-12/2000. Only monthly averages were reported. None of the 10 averages were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (minimum) to 8.5 (maximum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Forester Creek. Location of sampling is unknown.
Temporal Representation:	Samples were collected in 09/1997 and 04/2000-12/2000. Monthly averages are reported. It is unknown how many samples were collected per month.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4942, pH  
Forester Creek**

**Region 9**

LOE ID:	3340
Pollutant:	pH (high)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Industrial Service Supply

Number of Samples:	12
Number of Exceedances:	12
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of El Cajon from 09/1994 to 01/2001. Twelve of 12 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (minimum) to 8.5 (maximum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Forester Creek Channel at North City Limit.
Temporal Representation:	Age of oldest data assessed is almost 10 years at time of assessment. Samples were collected from 09/27/1994 to 01/03/2001. Two samples per month were collected in 09/1994, 05/1996, 11/1997, 01/1999, and 01/2001. One sample per month was also collected in 06/1999 and 07/2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4942, pH  
Forester Creek**

**Region 9**

LOE ID:	3339
Pollutant:	pH (high)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Industrial Service Supply
Number of Samples:	12
Number of Exceedances:	12
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of El Cajon from 09/1994 to 01/2001. Twelve of 12 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (minimum) to 8.5 (maximum).

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Forester Creek North of Vernon Way between Johnson and Marshall.  
Temporal Representation: Oldest data used is just under 10 years old at time of assessment. Samples were collected from 09/27/1994 to 01/03/2001. Two samples were collected per month in 09/1994, 05/1996, 11/1997, 01/1999, and 01/2001. One sample was collected per month in 06/1999 and 07/2000.

Environmental Conditions:  
QAPP Information: Data used in 2002 assessment.  
QAPP Information Reference(s):

### Line of Evidence (LOE) for Decision ID 4942, pH

Region 9

#### Forester Creek

LOE ID: 3337

Pollutant: pH (high)  
LOE Subgroup: Ancillary Evidence Spills  
Matrix: Not Specified  
Fraction: None

Beneficial Use: Industrial Service Supply

Number of Samples: 0  
Number of Exceedances: 0

Data and Information Type: Not Specified  
Data Used to Assess Water Quality: A County of San Diego Department of Environmental Health referral form indicates that 10-20 gallons of an acid/water/copper mixture (pH of 2-3) spilled into Forester Creek on 05/01/2001. The spill was reported to the County of San Diego DEH by Randy Olms (employee at Chem-tronics). The complaint was referred to the City of El Cajon. It is reported that an emergency response team was on scene to conduct the clean up. County of San Diego DEH referral says that an emergency response team was on the scene to conduct a cleanup of the spill.

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: The pH value shall not be changed at any time more than 0.2 pH units from that which occurs naturally. Changes in normal ambient pH levels shall not exceed 0.2 units in waters with designated marine (MAR), or estuarine (EST), or saline (SAL) beneficial uses. Changes in normal ambient pH levels shall not exceed 0.5 units in fresh waters with designated cold freshwater habitat (COLD) or warm freshwater habitat (WARM) beneficial uses. In bays and estuaries the pH shall not be depressed below 7.0 nor raised above 9.0. In inland surface waters the pH shall not be depressed below 6.5 nor raised above 8.5.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline: The corresponding numeric objective for pH from the Basin Plan for inland surface waters with all



Guideline Reference: [beneficial uses is 6.5 \(minimum\) to 8.5 \(maximum\). Placeholder reference 2006 303\(d\)](#)

Spatial Representation: The spill occurred from 1150 W. Bradley Av., El Cajon, CA 92020 (Chem-tronics, Inc.).

Temporal Representation: The spill occurred on 05/01/2001.

Environmental Conditions: It was noted in the referral form that the acid spilled into a dry bed.

QAPP Information: Data used in 2002 assessment. QA=?

QAPP Information Reference(s):

<b>DECISION ID</b>	<b>5091</b>	<b>Region 9</b>
<b>Forester Creek</b>		
<b>Pollutant:</b>	<b>Turbidity</b>	
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)	
<b>Revision Status</b>	Original	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	<p>One line of evidence is available in the administrative record to assess this pollutant. None of the 9 samples exceed the Basin Plan criteria, and this does not exceed the allowable frequency of the Listing Policy.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p>	
<b>RWQCB Board Staff Decision:</b>	No new data were assessed for 2008. The decision has not changed.	
<b>SWRCB Board Staff Decision:</b>	After review of the available data and information, SWRCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.	
<b>USEPA Action (if applicable):</b>		

<b>Line of Evidence (LOE) for Decision ID 5091, Turbidity</b>	<b>Region 9</b>
<b>Forester Creek</b>	
<b>LOE ID:</b>	3345
<b>Pollutant:</b>	Turbidity
<b>LOE Subgroup:</b>	Pollutant-Water
<b>Matrix:</b>	Water
<b>Fraction:</b>	Total

Beneficial Use:	Industrial Service Supply
Number of Samples:	9
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of El Cajon from 04/2000 to 12/2000. None of the 9 averages were in exceedance of the above standards. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for turbidity is 5 units. For inland surface waters with other beneficial uses, the WQO for turbidity is 20 ntu.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Forester Creek. The exact sampling location was not reported.
Temporal Representation:	Samples were collected from 04/2000 to 12/2000. Only monthly averages were reported. It is unknown how many samples per month the monthly average represents.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

<b>DECISION ID</b>	<b>6101</b>	<b>Region 9</b>
<b>Forester Creek</b>		
<b>Pollutant:</b>	<b>Fecal Coliform</b>	
<b>Final Listing Decision:</b>	<b>List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	List on 303(d) list (TMDL required list)(2006)	
<b>Revision Status</b>	Original	
<b>Sources:</b>	Spills   Unknown Nonpoint Source   Unknown Point Source   Urban Runoff/Storm Sewers	
<b>Expected TMDL Completion Date:</b>	2005	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	303(d) listing decisions made prior to 2006 were not held in an assessment database. The Regional Boards will update this decision when new data and information become available and are assessed.	
<b>RWQCB Board Staff Decision:</b>	No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.	
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.	

**USEPA Action (if applicable):** USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

**Line of Evidence (LOE) for Decision ID 6101, Fecal Coliform  
Forester Creek**

**Region 9**

LOE ID:	4452
Pollutant:	Fecal Coliform
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Not Recorded
Beneficial Use:	Water Contact Recreation
Number of Samples:	0
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Unspecified--This LOE is a placeholder to support a 303(d) listing decision made prior to 2006.
Data Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Water Quality Objective/Criterion:	Unspecified
Objective/Criterion Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Evaluation Guideline:	Unspecified
Guideline Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Spatial Representation:	Unspecified
Temporal Representation:	Unspecified
Environmental Conditions:	Unspecified
QAPP Information:	Unspecified
QAPP Information Reference(s):	

## Final California 2010 Integrated Report( 303(d) List/305(b) Report)

### Supporting Information

#### Regional Board 9 - San Diego Region

**Water Body Name:** [Poway Creek](#)  
**Water Body ID:** **CAR9062000020080904172636**  
**Water Body Type:** **River & Stream**

**DECISION ID** **16972**  
**Poway Creek**

**Region 9**

**Pollutant:** **Total Nitrogen as N**  
**Final Listing Decision:** **Do Not List on 303(d) list (TMDL required list)**  
**Last Listing Cycle's Final Listing Decision:** **New Decision**  
**Revision Status** **Revised**  
**Impairment from Pollutant or Pollution:** **Pollutant**

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Four of the samples exceed the water quality objective for total nitrogen.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. All four samples exceeded the total nitrogen water quality objective and this sample size is insufficient to determine with the power and confidence of the Listing Policy if standards are not met. A minimum of five samples is needed for application of table 3.2.
4. Pursuant to SECTION 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because it cannot be determined if applicable water quality standards are not being exceeded.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 16972, Total Nitrogen as N**

**Region 9**

**Poway Creek**

LOE ID:	7576
Pollutant:	Total Nitrogen as N
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Warm Freshwater Habitat
Aquatic Life Use:	Warm Freshwater Habitat
Number of Samples:	4
Number of Exceedances:	4
Data and Information Type:	Fixed station physical/chemical (conventional plus toxic pollutants)
Data Used to Assess Water Quality:	Four water samples were collected at Poway Creek station 906LPPOW2 in March, April, June, and September 2002. All four samples showed excessive nitrogen concentrations according to results in California's Surface Water Ambient Monitoring Program, 2007.
Data Reference:	<a href="#">Monitoring data for Region 9</a>
Water Quality Objective/Criterion:	Water bodies shall not contain biostimulatory substances in concentrations that promote aquatic growth to the extent that such growths cause nuisance or adversely affect beneficial uses (RWQCB, 2007). A desired goal in order to prevent plant nuisance in streams and other flowing waters appears to be 0.1 mg/L total phosphorus, P. These values are not to be exceeded more than 10% of the time unless studies of the specific water body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds; however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1, on a weight to weight basis shall be used (RWQCB, 2007).
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	
Guideline Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Spatial Representation:	Samples were collected at Poway Creek station (906LPPOW2); (Latitude 32.952, Longitude -117.046).
Temporal Representation:	Samples were collected on March, April, June, and September 2002.
Environmental Conditions:	
QAPP Information:	Quality control for the chemical analysis portion of this study was conducted in accordance with the

QAPP Information Reference(s): [California's Surface Water Ambient Monitoring Program. 2002. Quality Assurance Management Plan for the State of California's Surface Water Ambient Monitoring Program. California Department of Fish and Game, Monterey, CA](#)

<b>DECISION ID</b>	<b>16971</b>	<b>Region 9</b>
<b>Poway Creek</b>		
<b>Pollutant:</b>	<b>Selenium</b>	
<b>Final Listing Decision:</b>	<b>List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	New Decision	
<b>Revision Status</b>	Revised	
<b>Sources:</b>	Unknown Nonpoint Source   Unknown Point Source   Urban Runoff/Storm Sewers	
<b>Expected TMDL Completion Date:</b>	2021	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.</p> <p>One line of evidence is available in the administrative record to assess this pollutant. Three of the samples exceed the water quality objective for selenium.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p> <p>This conclusion is based on the staff findings that:</p> <ol style="list-style-type: none"> <li>1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.</li> <li>2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.</li> <li>3. All three samples exceed the selenium water quality objective and this exceeds the allowable frequency listed in Table 3.1 of the Listing Policy.</li> <li>4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.</li> </ol>	
<b>RWQCB Board Staff Decision:</b>	After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.	
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.	
<b>USEPA Action (if applicable):</b>	USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.	

**Line of Evidence (LOE) for Decision ID 16971, Selenium****Region 9****Poway Creek**

LOE ID:	7577
Pollutant:	Selenium
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Dissolved
Beneficial Use:	Warm Freshwater Habitat
Aquatic Life Use:	Warm Freshwater Habitat
Number of Samples:	3
Number of Exceedances:	3
Data and Information Type:	Fixed station physical/chemical (conventional plus toxic pollutants)
Data Used to Assess Water Quality:	Three water samples were collected at Poway Creek station 906LPPOW2 in March, April, and June 2002. All three samples showed excessive selenium concentrations according to results from California's Surface Water Ambient Monitoring Program Report, 2007.
Data Reference:	<a href="#">Monitoring data for Region 9</a>
Water Quality Objective/Criterion:	CTR Freshwater Chronic (CCC) 5 ug/L. (U.S. EPA, 2000).
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	
Guideline Reference:	<a href="#">Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California; Rule. 40 CFR Part 131. U.S. Environmental Protection Agency. Region IX. Water Division. San Francisco, CA</a>
Spatial Representation:	Water samples were collected at Poway Creek station 906LPPOW2; (Latitude 32.95182, Longitude - 117.046955).
Temporal Representation:	Samples were collected on March, April, and June 2002.
Environmental Conditions:	
QAPP Information:	Quality control for the chemical analysis portion of this study was conducted in accordance with the California's Surface Water Ambient Monitoring Program.
QAPP Information Reference(s):	<a href="#">2002. Quality Assurance Management Plan for the State of California's Surface Water Ambient Monitoring Program. California Department of Fish and Game, Monterey, CA</a>

**DECISION ID****16973****Region 9****Poway Creek**

**Pollutant:** Toxicity  
**Final Listing Decision:** List on 303(d) list (TMDL required list)



<b>Last Listing Cycle's Final Listing Decision:</b>	New Decision
<b>Revision Status</b>	Revised
<b>Sources:</b>	Unknown Nonpoint Source   Unknown Point Source   Urban Runoff/Storm Sewers
<b>Expected TMDL Completion Date:</b>	2021
<b>Impairment from Pollutant or Pollution:</b>	Pollutant
<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.6 of the Listing Policy. Under section 3.6 a single line of evidence is necessary to assess listing status.</p> <p>One line of evidence is available in the administrative record to assess this pollutant. Four of the samples exceed the water quality objective for toxicity.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p> <p>This conclusion is based on the staff findings that:</p> <ol style="list-style-type: none"> <li>1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.</li> <li>2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.</li> <li>3. All four samples exceed the toxicity water quality objective and this exceeds the allowable frequency listed in Table 3.1 of the Listing Policy.</li> <li>4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.</li> </ol>
<b>RWQCB Board Staff Decision:</b>	After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.
<b>USEPA Action (if applicable):</b>	USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

**Line of Evidence (LOE) for Decision ID 16973, Toxicity  
Poway Creek**

**Region 9**

LOE ID:	21388
Pollutant:	Toxicity
LOE Subgroup:	Toxicity
Matrix:	Water
Fraction:	None
Beneficial Use:	Warm Freshwater Habitat

Number of Samples:	4
Number of Exceedances:	4
Data and Information Type:	Ambient toxicity testing (chronic)
Data Used to Assess Water Quality:	Four samples were collected at Poway Creek Station 906LPPOW2 from March 2002 to September 2002 and they showed significant toxicity levels (SL) in the following tests: Selenastrum algae growth test - four of the four samples. Ceriodaphnia dubia survival/reproductive test - one of the four samples. Hyalella Azteca growth/survival test - three of the four samples. Results were from California's Surface Water Ambient Monitoring Program Report, 2007.
Data Reference:	<a href="#">Monitoring data for Region 9</a>
Water Quality Objective/Criterion:	From the Basin Plan, all waters shall be free of toxic substances that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life.
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	According to SWAMP, waters are considered toxic when samples show significant toxicity levels (SWAMP code ?SL?) when compared to a negative control. Significant toxicity is determined when statistical tests result in an alpha of less than 5% and percent control values less than the evaluation threshold (EPA, 2002).
Guideline Reference:	<a href="#">Monitoring data for Region 9</a>
Spatial Representation:	Water samples were collected at Poway Creek Station 906LPPOW2; (Latitude 32.95173, Longitude - 117.04766).
Temporal Representation:	Samples were collected on March, April, June, and September 2002.
Environmental Conditions:	
QAPP Information:	Quality control for the chemical analysis portion of this study was conducted in accordance with the California's Surface Water Ambient Monitoring Program.
QAPP Information Reference(s):	

## Final California 2010 Integrated Report( 303(d) List/305(b) Report)

### Supporting Information

#### Regional Board 9 - San Diego Region

**Water Body Name:** Sycamore Canyon  
**Water Body ID:** CAR9071200020011005135819  
**Water Body Type:** River & Stream

**DECISION ID** 5212  
 Sycamore Canyon

Region 9

**Pollutant:** Chloride  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence are available in the administrative record to assess this pollutant. None of two samples exceed the water quality objective.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. [NUMBER] of [NUMBER] samples exceeded the water quality objective and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The decision has not changed.

**SWRCB Board Staff Decision:** After review of the available data and information, SWRCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 5212, Chloride  
Sycamore Canyon****Region 9**

LOE ID:	3335
Pollutant:	Chloride
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Agricultural Supply
Number of Samples:	2
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 2000. None of the 2 samples were in exceedance (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters in the 907.10 HA and all beneficial uses, the WQO for Chloride is 400 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Sycamore Canyon Creek site SYC2.
Temporal Representation:	Samples were collected on 03/06/2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

## Final California 2010 Integrated Report( 303(d) List/305(b) Report)

### Supporting Information

#### Regional Board 9 - San Diego Region

**Water Body Name:** [San Diego River \(Lower\)](#)  
**Water Body ID:** CAR9071100020011025101606  
**Water Body Type:** River & Stream

**DECISION ID** 6514  
 San Diego River (Lower)

**Region 9**

**Pollutant:** Fecal Coliform  
**Final Listing Decision:** Do Not Delist from 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** List on 303(d) list (TMDL required list)(2006)  
**Revision Status** Revised  
**Sources:** Nonpoint Source | Point Source | Urban Runoff/Storm Sewers | Wastewater  
**Expected TMDL Completion Date:** 2009  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for removal from the section 303(d) list under section 4.2 of the Listing Policy. Under this section a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. Thirteen of 15 of samples exceed the Basin Plan water quality objective for fecal coliform.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against removing this water segment-pollutant combination from the section 303(d) list.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Thirteen of 15 of samples exceed the Basin Plan water quality objective for fecal coliform, and this exceeds the allowable frequency listed in Table 4.2 of the Listing Policy.
4. Pursuant to section 4.11 of the Listing Policy, no additional data and information are available indicating that standards are met.

**RWQCB Board Staff Decision:** After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be removed from the section 303(d) list because applicable water quality standards for the pollutant are being exceeded.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):** USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

**Line of Evidence (LOE) for Decision ID 6514, Fecal Coliform  
San Diego River (Lower)**

**Region 9**

LOE ID: 7488

Pollutant: Fecal Coliform  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: None

Beneficial Use: Water Contact Recreation

Number of Samples: 15  
Number of Exceedances: 13

Data and Information Type: Fixed station physical/chemical monitoring (conventional pollutants only)  
Data Used to Assess Water Quality: Thirteen of fifteen samples collected exceed the water quality objective according to results in the San Diego County Municipal Copermittees Urban Runoff Monitoring Report, 2007. Samples were collected one to three times a year from 2001-2006.

Data Reference: [Urban Runoff Monitoring, Volume 1- Final Report](#)

Water Quality Objective/Criterion: From the Basin Plan, no more than 10% of the samples during any 30-day period for waters designated for contact recreation shall exceed 400 colonies per 100 ml (RWQCB, 2007).

Objective/Criterion Reference: [Water Quality Control Plan for the San Diego Basin](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at the mass loading station located near the lower boundary of the watershed along a natural channel adjacent to the Fashion Valley Mall in San Diego.

Temporal Representation: Samples were collected one to three times a year from 2001-2006.

Environmental Conditions: Samples were collected during wet weather.

QAPP Information: QA/QC conducted according to Federal Regulations under requirements of a NPDES permit.

QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 6514, Fecal Coliform  
San Diego River (Lower)**

**Region 9**

LOE ID: 4719

Pollutant:	Fecal Coliform
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Not Recorded
Beneficial Use:	Water Contact Recreation
Number of Samples:	0
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Unspecified--This LOE is a placeholder to support a 303(d) listing decision made prior to 2006.
Data Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Water Quality Objective/Criterion:	Unspecified
Objective/Criterion Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Evaluation Guideline:	Unspecified
Guideline Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Spatial Representation:	Unspecified
Temporal Representation:	Unspecified
Environmental Conditions:	Unspecified
QAPP Information:	Unspecified
QAPP Information Reference(s):	

**DECISION ID****17921****Region 9****San Diego River (Lower)**

<b>Pollutant:</b>	<b>Manganese</b>
<b>Final Listing Decision:</b>	<b>List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	New Decision
<b>Revision Status</b>	Revised
<b>Sources:</b>	Source Unknown
<b>Expected TMDL Completion Date:</b>	2021
<b>Impairment from Pollutant or Pollution:</b>	Pollutant

**Conclusion:**

Regional Board Conclusion:  
This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 one line(s) of evidence is necessary to assess listing status.

One line of evidence are available in the administrative record to assess this pollutant. All three of the samples exceed

the water quality objective.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. All three samples exceeded the manganese water quality objective and this sample size is insufficient to determine with the power and confidence of the Listing Policy if standards are not met. A minimum of five samples is needed for application of table 3.2.
4. Pursuant to SECTION 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

State Board Review and Conclusion:

The Regional Board staff mistakenly assessed manganese as a conventional pollutant and applied table 3.2 of the listing Policy. Manganese is a toxicant and should be assessed using Table 3.1. State Water Board staff has corrected this error and revised the recommendation to List for manganese as follows:

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. Three of the three samples exceed the water quality objective for manganese.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification for placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Three of three samples exceeded the water quality objective for manganese and this exceeds the allowable frequency under Section 3.1 of the Listing Policy.
4. Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met..

**RWQCB Board Staff Decision:**

After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because it cannot be determined if applicable water quality standards are not being exceeded.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the following changes to the decision: The water body-pollutant combination should be placed on the section 303(d) list because applicable water quality standards for the pollutant are being exceeded.

**USEPA Action (if applicable):**

USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.



**Line of Evidence (LOE) for Decision ID 17921, Manganese  
San Diego River (Lower)**

**Region 9**

LOE ID:	30914
Pollutant:	Manganese
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Not Recorded
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	3
Number of Exceedances:	3
Data and Information Type:	Fixed station physical/chemical (conventional plus toxic pollutants)
Data Used to Assess Water Quality:	Five water samples were collected at San Diego River station 907SSDR15 on March, April, June and September 2002, all showed excessive manganese concentrations (SWAMP, 2007).
Data Reference:	<a href="#">Monitoring data for Region 9</a>
Water Quality Objective/Criterion:	Inland surface waters shall not contain manganese in excess of the numerical values described in table 3-2. The secondary drinking water standard for manganese is 0.05 mg/l (RWQCB, 2007).
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Water samples were collected at San Diego River station 907SSDR15; (Latitude 32.7621, Longitude - 117.1925).
Temporal Representation:	Data was collected during the months of May and Sept. 2004, and April and Feb. 2005.
Environmental Conditions:	
QAPP Information:	Quality control for the chemical analysis portion of this study was conducted in accordance with the California's Surface Water Ambient Monitoring Program.
QAPP Information Reference(s):	<a href="#">2002. Quality Assurance Management Plan for the State of California's Surface Water Ambient Monitoring Program. California Department of Fish and Game, Monterey, CA</a>

**DECISION ID** 17603  
**San Diego River (Lower)**

**Region 9**

<b>Pollutant:</b>	<b>Toxicity</b>
<b>Final Listing Decision:</b>	<b>List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing</b>	<b>New Decision</b>

**Decision:**  
**Revision Status** Revised  
**Sources:** Nonpoint Source | Other Urban Runoff | Unknown Point Source  
**Expected TMDL Completion Date:** 2021  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. Five of the 19 samples exceed the water quality objective.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Five of the 19 samples exceed the toxicity water quality objective and this exceeds the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):** USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

**Line of Evidence (LOE) for Decision ID 17603, Toxicity  
San Diego River (Lower)**

**Region 9**

LOE ID: 7491  
Pollutant: Toxicity  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: None  
Beneficial Use: Warm Freshwater Habitat

Number of Samples:	4
Number of Exceedances:	3
Data and Information Type:	Ambient toxicity testing (chronic)
Data Used to Assess Water Quality:	Four samples were collected and three samples show significant toxicity levels (SL) as determined by at least one of the following tests: Selenastrum Capicornutum growth test, and Ceriodaphnia dubia survival/reproductive test according to the Surface Water Ambient Monitoring Program, 2007. Samples were collected one to four times a year from 2001-2006.
Data Reference:	<a href="#">Monitoring data for Region 9</a>
Water Quality Objective/Criterion:	From the Basin Plan, all waters shall be free of toxic substances that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life (RWQCB, 2007).
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	Waters are considered toxic when samples show significant toxicity levels (SWAMP code ?SL?) when compared to a negative control. Significant toxicity is determined when statistical tests result in an alpha of less than 5% and percent control values less than the evaluation threshold.
Guideline Reference:	<a href="#">Monitoring data for Region 9</a>
Spatial Representation:	Samples were collected at San Diego River 15.
Temporal Representation:	Samples were collected one to four times a year from 2001-2006.
Environmental Conditions:	Samples were collected during wet weather.
QAPP Information:	QA/QC conducted according Surface Ambient Monitoring Program procedures.
QAPP Information Reference(s):	<a href="#">2002. Quality Assurance Management Plan for the State of California's Surface Water Ambient Monitoring Program. California Department of Fish and Game, Monterey, CA</a>

**Line of Evidence (LOE) for Decision ID 17603, Toxicity****Region 9****San Diego River (Lower)**

LOE ID:	25293
Pollutant:	Toxicity
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	None
Beneficial Use:	Warm Freshwater Habitat
Number of Samples:	15
Number of Exceedances:	2
Data and Information Type:	Ambient toxicity testing (chronic)
Data Used to Assess Water Quality:	Two of fifteen samples were found to be toxic as determined by at least one of the following tests: Selenastrum Capicornutum growth test, Ceriodaphnia dubia survival/reproductive test, and Hyalella Azteca growth/survival test according to results in the San Diego County Municipal Copermittees Urban Runoff Monitoring Report, 2007.

Data Reference:	<a href="#">Monitoring data for Region 9</a>
Water Quality Objective/Criterion:	From the Basin Plan, all waters shall be free of toxic substances that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life (RWQCB, 2007).
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	Samples were found to exhibit toxicity when the No Observed Effect Concentration (NOEC) or median lethal concentration (LC50) for any given species was estimated to be less than 100% of the test sample concentration
Guideline Reference:	<a href="#">Waste Discharge Requirements for Discharges of Urban Runoff From the Municipal Separate Storm Sewer Systems Draining the Watersheds of the County of San Diego, the Incorporated Cities of San Diego, the San Diego Unified Port District, and the San Diego County Regional Airport. Order No. R9-2007-0001</a>
Spatial Representation:	Samples were collected at the mass loading station located near the lower boundary of the watershed along a natural channel adjacent to the Fashion Valley Mall in San Diego. Samples were collected one to four times a year from 2001-2006.
Temporal Representation:	Samples were collected one to four times a year from 2001-2006.
Environmental Conditions:	Samples were collected during wet weather.
QAPP Information:	QA/QC conducted according to SWAMP guidelines.
QAPP Information Reference(s):	<a href="#">2002. Quality Assurance Management Plan for the State of California's Surface Water Ambient Monitoring Program. California Department of Fish and Game, Monterey, CA</a>

<b>DECISION ID</b>	<b>17047</b>	<b>Region 9</b>
<b>San Diego River (Lower)</b>		
<b>Pollutant:</b>	<b>Enterococcus</b>	
<b>Final Listing Decision:</b>	<b>List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	New Decision	
<b>Revision Status</b>	Original	
<b>Sources:</b>	Nonpoint Source   Point Source   Urban Runoff/Storm Sewers	
<b>Expected TMDL Completion Date:</b>	2021	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.</p> <p>One lines of evidence are available in the administrative record to assess this pollutant. Fifteen of 15 of the samples exceed the Basin Plan water quality objective for Enterococcus.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p>	

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Fifteen of 15 of the samples exceed the Basin Plan water quality objective for Enterococcus, and this exceeds the allowable frequency listed in Table 3.2 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

<b>RWQCB Board Staff Decision:</b>	After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.
<b>USEPA Action (if applicable):</b>	USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

**Line of Evidence (LOE) for Decision ID 17047, Enterococcus  
San Diego River (Lower)**

**Region 9**

LOE ID:	7487
Pollutant:	Enterococcus
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	None
Beneficial Use:	Water Contact Recreation
Number of Samples:	15
Number of Exceedances:	15
Data and Information Type:	Fixed station physical/chemical monitoring (conventional pollutants only)
Data Used to Assess Water Quality:	All fifteen samples collected exceed the water quality objective according to results in the San Diego County Municipal Copermittees Urban Runoff Monitoring Report, 2007. Samples were collected one to three times a year from 2001-2006.
Data Reference:	<a href="#">Urban Runoff Monitoring, Volume 1- Final Report</a>
Water Quality Objective/Criterion:	From the Basin Plan, the criteria for enterococcus sets a maximum limit at 61 colonies per 100mL (RWQCB, 2007).
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	
Guideline Reference:	

Spatial Representation:  Temporal Representation: Environmental Conditions: QAPP Information: QAPP Information Reference(s):	Samples were collected at the mass loading station located near the lower boundary of the watershed along a natural channel adjacent to the Fashion Valley Mall in San Diego. Samples were collected one to three times a year from 2001-2006. Samples were collected during wet weather. QA/QC conducted according to Federal Regulations under requirements of a NPDES permit.
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<b>DECISION ID</b>  <b>San Diego River (Lower)</b>	<b>6519</b>	<b>Region 9</b>
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<b>Pollutant:</b> <b>Final Listing Decision:</b> <b>Last Listing Cycle's Final Listing Decision:</b> <b>Revision Status</b> <b>Sources:</b> <b>Expected TMDL Completion Date:</b> <b>Impairment from Pollutant or Pollution:</b>	<b>Low Dissolved Oxygen</b> <b>List on 303(d) list (TMDL required list)</b> List on 303(d) list (TMDL required list)(2006)  Original Unknown Nonpoint Source   Unknown Point Source   Urban Runoff/Storm Sewers 2019 Pollutant
<b>Conclusion:</b>	303(d) listing decisions made prior to 2006 were not held in an assessment database. This is a placeholder decision for a 303(d) listing made in a previous assessment cycle. The Regional Boards will update this decision when new data and information become available and are assessed.
<b>RWQCB Board Staff Decision:</b>	No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.
<b>USEPA Action (if applicable):</b>	USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

<b>Line of Evidence (LOE) for Decision ID 6519, Low Dissolved Oxygen</b>  <b>San Diego River (Lower)</b>	<b>Region 9</b>
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LOE ID:  Pollutant: LOE Subgroup: Matrix: Fraction:  Beneficial Use:	4720  Low Dissolved Oxygen Pollutant-Water Water Not Recorded  Warm Freshwater Habitat
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Number of Samples:	0
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Unspecified--This LOE is a placeholder to support a 303(d) listing decision made prior to 2006.
Data Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Water Quality Objective/Criterion:	Unspecified
Objective/Criterion Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Evaluation Guideline:	Unspecified
Guideline Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Spatial Representation:	Unspecified
Temporal Representation:	Unspecified
Environmental Conditions:	Unspecified
QAPP Information:	Unspecified
QAPP Information Reference(s):	

**DECISION ID****17046****Region 9****San Diego River (Lower)****Pollutant:****Nitrogen****Final Listing Decision:****List on 303(d) list (TMDL required list)****Last Listing Cycle's Final Listing Decision:**

New Decision

**Revision Status**

Original

**Sources:**

Nonpoint Source | Point Source | Urban Runoff/Storm Sewers

**Expected TMDL Completion Date:**

2021

**Impairment from Pollutant or Pollution:**

Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. Fifteen of 19 of the samples exceed the Basin Plan water quality objective for nitrogen.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.

3. Fifteen of 19 of the samples exceed the Basin Plan water quality objective for nitrogen, and this exceeds the allowable frequency listed in Table 3.2 of the Listing Policy.

4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

<b>RWQCB Board Staff Decision:</b>	After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.
<b>USEPA Action (if applicable):</b>	USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

#### Line of Evidence (LOE) for Decision ID 17046, Nitrogen

Region 9

#### San Diego River (Lower)

LOE ID:	7489
Pollutant:	Total Nitrogen as N
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Warm Freshwater Habitat
Number of Samples:	15
Number of Exceedances:	14
Data and Information Type:	Fixed station physical/chemical monitoring (conventional pollutants only)
Data Used to Assess Water Quality:	Fourteen of fifteen samples collected exceeded the water quality objective according to results in the San Diego County Municipal Copermittees Urban Runoff Monitoring Report, 2007. Samples were collected one to three times a year from 2001-2006.
Data Reference:	<a href="#">Urban Runoff Monitoring, Volume 1- Final Report</a>
Water Quality Objective/Criterion:	Water bodies shall not contain biostimulatory substances in concentrations that promote aquatic growth to the extent that such growths cause nuisance or adversely affect beneficial uses. (RWQCB, 2007) A desired goal in order to prevent plant nuisance in streams and other flowing waters appears to be 0.1 mg/L total P. These values are not to be exceeded more than 10% of the time unless studies of the specific water body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds; however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1, on a weight to weight basis shall be used. (RWQCB, 2007)
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>



Evaluation Guideline:  
Guideline Reference: [Water Quality Control Plan for the San Diego Basin](#)

Spatial Representation: Samples were collected at the mass loading station located near the lower boundary of the watershed along a natural channel adjacent to the Fashion Valley Mall in San Diego.

Temporal Representation: Samples were collected one to three times a year from 2001-2006.

Environmental Conditions: Samples were collected during wet weather.

QAPP Information: QA/QC conducted according to Federal Regulations under requirements of a NPDES permit.

QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 17046, Nitrogen**  
**San Diego River (Lower)**

**Region 9**

LOE ID: 7490

Pollutant: Total Nitrogen as N  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: Total

Beneficial Use: Warm Freshwater Habitat

Number of Samples: 4  
Number of Exceedances: 1

Data and Information Type: Fixed station physical/chemical monitoring (conventional pollutants only)  
Data Used to Assess Water Quality: One of the four samples exceeds water quality objectives according to results in the Surface Water Ambient Monitoring Program Annual Progress Report, 2007. Samples were collected on four dates. May 18 and September 13, 2004 and February 28 and April 19, 2005.

Data Reference: [Monitoring data for Region 9](#)

Water Quality Objective/Criterion: Water bodies shall not contain biostimulatory substances in concentrations that promote aquatic growth to the extent that such growths cause nuisance or adversely affect beneficial uses. (RWQCB, 2007)  
A desired goal in order to prevent plant nuisance in streams and other flowing waters appears to be 0.1 mg/L total P. These values are not to be exceeded more than 10% of the time unless studies of the specific water body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds; however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1, on a weight to weight basis shall be used. (RWQCB, 2007)

Objective/Criterion Reference: [Water Quality Control Plan for the San Diego Basin](#)

Evaluation Guideline:  
Guideline Reference: [Water Quality Control Plan for the San Diego Basin](#)

Spatial Representation: Samples were collected at the monitoring station San Diego River 15 (station id: 907SSDR15 lat/long:

Temporal Representation: 32.76194/-117.1927), located on the main stem of the San Diego River.  
 Environmental Conditions: Samples were collected on four dates. May 18 and September 13, 2004, February 28 and April 19, 2005. The first two sampling events occurred during declining and minimum base flow respectively. The third sample occurred between storm events and the fourth during high base flow.  
 QAPP Information: Quality control for the chemical analysis portion of this study was conducted in accordance with the California's Surface Water Ambient Monitoring Program.  
 QAPP Information Reference(s): [2002. Quality Assurance Management Plan for the State of California's Surface Water Ambient Monitoring Program. California Department of Fish and Game, Monterey, CA](#)

<b>DECISION ID</b>	<b>6520</b>	<b>Region 9</b>
<b>San Diego River (Lower)</b>		
<b>Pollutant:</b>	<b>Phosphorus</b>	
<b>Final Listing Decision:</b>	<b>List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	List on 303(d) list (TMDL required list)(2006)	
<b>Revision Status</b>	Original	
<b>Sources:</b>	Unknown Nonpoint Source   Unknown Point Source   Urban Runoff/Storm Sewers	
<b>Expected TMDL Completion Date:</b>	2019	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	303(d) listing decisions made prior to 2006 were not held in an assessment database. This is a placeholder decision for a 303(d) listing made in a previous assessment cycle. The Regional Boards will update this decision when new data and information become available and are assessed.	
<b>RWQCB Board Staff Decision:</b>	No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.	
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.	
<b>USEPA Action (if applicable):</b>	USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.	

**Line of Evidence (LOE) for Decision ID 6520, Phosphorus** **Region 9**  
**San Diego River (Lower)**

LOE ID:	4721
Pollutant:	Phosphorus
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Not Recorded

Beneficial Use:	Warm Freshwater Habitat
Number of Samples:	0
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Unspecified--This LOE is a placeholder to support a 303(d) listing decision made prior to 2006.
Data Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Water Quality Objective/Criterion:	Unspecified
Objective/Criterion Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Evaluation Guideline:	Unspecified
Guideline Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Spatial Representation:	Unspecified
Temporal Representation:	Unspecified
Environmental Conditions:	Unspecified
QAPP Information:	Unspecified
QAPP Information Reference(s):	

<b>DECISION ID</b>	<b>6522</b>	<b>Region 9</b>
<b>San Diego River (Lower)</b>		

<b>Pollutant:</b>	<b>Total Dissolved Solids</b>
<b>Final Listing Decision:</b>	<b>List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Sources:</b>	Flow Regulation/Modification   Natural Sources   Unknown Nonpoint Source   Unknown Point Source   Urban Runoff/Storm Sewers
<b>Expected TMDL Completion Date:</b>	2019
<b>Impairment from Pollutant or Pollution:</b>	Pollutant
<b>Conclusion:</b>	303(d) listing decisions made prior to 2006 were not held in an assessment database. This is a placeholder decision for a 303(d) listing made in a previous assessment cycle. The Regional Boards will update this decision when new data and information become available and are assessed.
<b>RWQCB Board Staff Decision:</b>	No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.
<b>USEPA Action (if applicable):</b>	USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

**Line of Evidence (LOE) for Decision ID 6522, Total Dissolved Solids  
San Diego River (Lower)**

**Region 9**

LOE ID:	4722
Pollutant:	Total Dissolved Solids
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Not Recorded
Beneficial Use:	Agricultural Supply
Number of Samples:	0
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Unspecified--This LOE is a placeholder to support a 303(d) listing decision made prior to 2006.
Data Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Water Quality Objective/Criterion:	Unspecified
Objective/Criterion Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Evaluation Guideline:	Unspecified
Guideline Reference:	<a href="#">Placeholder reference pre-2006 303(d)</a>
Spatial Representation:	Unspecified
Temporal Representation:	Unspecified
Environmental Conditions:	Unspecified
QAPP Information:	Unspecified
QAPP Information Reference(s):	

## Final California 2010 Integrated Report( 303(d) List/305(b) Report)

### Supporting Information

#### Regional Board 9 - San Diego Region

**Water Body Name:** [Murray Reservoir](#)  
**Water Body ID:** CAL9071100020011005142858  
**Water Body Type:** Lake & Reservoir

**DECISION ID** 16344  
 Murray Reservoir

Region 9

**Pollutant:** Escherichia coli (E. coli)  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** New Decision  
**Revision Status** Revised  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. Three of the 24 samples exceed the Basin Plan water quality objective for fresh water geomean density for E. coli and one of the 99 samples exceed the Basin Plan water quality objective for fresh water designated as a moderately or lightly used area, single sample maximum allowable density for E. coli.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Three of the 24 samples exceed the Basin Plan water quality objective for fresh water geomean density for E. coli and one of the 99 samples exceed the Basin Plan water quality objective for fresh water designated as a moderately or lightly used area, single sample maximum allowable density for E. coli and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because applicable water quality standards are not being exceeded.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 16344, Escherichia coli (E. coli)**  
**Murray Reservoir**

**Region 9**

LOE ID:	6168
Pollutant:	Escherichia coli (E. coli)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	None
Beneficial Use:	Water Contact Recreation
Number of Samples:	99
Number of Exceedances:	1
Data and Information Type:	Fixed station physical/chemical monitoring (conventional pollutants only)
Data Used to Assess Water Quality:	Samples were collected by the City of San Diego for their Water Quality Monitoring Data for Drinking Source Water Reservoirs. Samples were collected from January 2005 to December 2006.
Data Reference:	Of the 99 single samples collected, only one exceeded the water quality objective. <a href="#">Water Department. Water Quality Monitoring Data for Drinking Source Water Reservoirs. January 2005 to December 2006</a>
Water Quality Objective/Criterion:	In fresh water designated as a moderately or lightly used area, the single sample maximum allowable density for E. coli is 406 per 100 mL.
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	One surface water sample was collected per sampling event at Murray Reservoir at a standard location designated ?Station A?.
Temporal Representation:	Samples were collected once or twice a month from January 2005 to December 2006.
Environmental Conditions:	
QAPP Information:	Samples were collected and analyzed according to the Water Quality Laboratory?s Quality Assurance Manual. Applicable field and laboratory Standard Operating Procedures were also provided by the San Diego Water Department.
QAPP Information Reference(s):	<a href="#">Water Quality Laboratory. Quality Assurance Manual</a>

**Line of Evidence (LOE) for Decision ID 16344, Escherichia coli (E. coli)****Region 9****Murray Reservoir**

LOE ID:	26989
Pollutant:	Escherichia coli (E. coli)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	None
Beneficial Use:	Water Contact Recreation
Number of Samples:	24
Number of Exceedances:	3
Data and Information Type:	Fixed station physical/chemical monitoring (conventional pollutants only)
Data Used to Assess Water Quality:	Samples were collected by the City of San Diego for their Water Quality Monitoring Data for Drinking Source Water Reservoirs. Samples were collected from January 2005 to December 2006.
Data Reference:	Of the 24 geomeans, three exceeded the water quality objective. <a href="#">Water Department. Water Quality Monitoring Data for Drinking Source Water Reservoirs. January 2005 to December 2006</a>
Water Quality Objective/Criterion:	In fresh water the geometric mean shall not exceed 126 per 100 mL.
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	One surface water sample was collected per sampling event at Murray Reservoir at a standard location designated ?Station A?.
Temporal Representation:	Samples were collected once or twice a month from January 2005 to December 2006.
Environmental Conditions:	
QAPP Information:	Samples were collected and analyzed according to the Water Quality Laboratory?s Quality Assurance Manual. Applicable field and laboratory Standard Operating Procedures were also provided by the San Diego Water Department.
QAPP Information Reference(s):	<a href="#">Water Quality Laboratory. Quality Assurance Manual</a>

**DECISION ID****16330****Region 9****Murray Reservoir**

**Pollutant:** Nitrogen  
**Final Listing Decision:** List on 303(d) list (TMDL required list)

<b>Last Listing Cycle's Final Listing Decision:</b>	New Decision
<b>Revision Status</b>	Revised
<b>Sources:</b>	Natural Sources   Unknown Nonpoint Source   Urban Runoff/Storm Sewers
<b>Expected TMDL Completion Date:</b>	2021
<b>Impairment from Pollutant or Pollution:</b>	Pollutant
<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.</p> <p>One line of evidence is available in the administrative record to assess this pollutant. Twenty-two of the twenty eight samples exceed the Basin Plan water quality objective for total nitrogen as N.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p> <p>This conclusion is based on the staff findings that:</p> <ol style="list-style-type: none"> <li>1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.</li> <li>2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.</li> <li>3. Twenty-two of the twenty eight samples exceed the Basin Plan water quality objective for total nitrogen as N and this exceeds the allowable frequency listed in Table 3.2 of the Listing Policy.</li> <li>4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.</li> </ol>
<b>RWQCB Board Staff Decision:</b>	After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.
<b>USEPA Action (if applicable):</b>	USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

**Line of Evidence (LOE) for Decision ID 16330, Nitrogen  
Murray Reservoir**

**Region 9**

LOE ID:	6169
Pollutant:	Total Nitrogen as N
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	None
Beneficial Use:	Warm Freshwater Habitat



Aquatic Life Use:	Warm Freshwater Habitat
Number of Samples:	28
Number of Exceedances:	22
Data and Information Type:	Fixed station physical/chemical monitoring (conventional pollutants only)
Data Used to Assess Water Quality:	Samples were collected by the City of San Diego's Water Quality Monitoring Data for their Drinking Source Water Reservoirs program. Sampling period was from January 2005 to December 2006.
Data Reference:	<p>Twenty two of the 28 samples exceeded the water quality objective.</p> <p><a href="#">Water Department, Water Quality Monitoring Data for Drinking Source Water Reservoirs. January 2005 to December 2006</a></p>
Water Quality Objective/Criterion:	<p>Water bodies shall not contain biostimulatory substances in concentrations that promote aquatic growth to the extent that such growths cause nuisance or adversely affect beneficial uses.</p> <p>A desired goal in order to prevent plant nuisance in any standing body of water is 0.025 mg/L total phosphorus, P. These values are not to be exceeded more than 10% of the time unless studies of the specific water body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds; however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1, on a weight to weight basis shall be used. (RWQCB, 2007)</p>
Objective/Criterion Reference:	<a href="#">Water Quality Control Plan for the San Diego Basin</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	One surface water sample was collected per sampling event at Lake Murray Reservoir at a standard location designated ?Station A?.
Temporal Representation:	Samples were collected once or twice a month from January 2005 to December 2006.
Environmental Conditions:	
QAPP Information:	Samples were collected and analyzed according to the Water Quality Laboratory's Quality Assurance Manual. Applicable field and laboratory Standard Operating Procedures were also provided by the San Diego Water Department.
QAPP Information Reference(s):	<a href="#">Water Quality Laboratory, Quality Assurance Manual</a>

<b>DECISION ID</b>	<b>4663</b>	<b>Region 9</b>
<b>Murray Reservoir</b>		
<b>Pollutant:</b>	<b>1,1,1-Trichloroethane</b>	
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)(2006)</b>	
<b>Revision Status</b>	<b>Original</b>	

**Impairment from Pollutant or Pollution:****Pollutant****Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for 1,1,1-Trichloroethane .

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for 1,1,1-Trichloroethane and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 4663, 1,1,1-Trichloroethane****Region 9****Murray Reservoir**

LOE ID: 1013

Pollutant: 1,1,1-Trichloroethane

LOE Subgroup: Pollutant-Water

Matrix: Water

Fraction: Total Dissolved

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 18

Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples

Data Reference: [Placeholder reference 2006 303\(d\)](#) were in exceedance. (SWRCB, 2003).

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for 1,1,1-Trichloroethane is 0.200 mg/L.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
Temporal Representation: Samples were collected on a quarterly basis from 01/1997 to 08/2001.  
Environmental Conditions:  
QAPP Information: Data used in 2002 assessment.  
QAPP Information Reference(s):

**DECISION ID**  
**Murray Reservoir**

5588

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**1,1,2,2-Tetrachloroethane**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)  
  
Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for 1,1,2,2-Tetrachloroethane.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for 1,1,2,2-Tetrachloroethane and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5588, 1,1,2,2-Tetrachloroethane  
Murray Reservoir**

**Region 9**

LOE ID: 1014

Pollutant: 1,1,2,2-Tetrachloroethane  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 18  
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).  
Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for 1,1,2,2-Tetrachloroethane is 0.001 mg/L.  
Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
Temporal Representation: Samples were collected on a quarterly basis from 01/1997 to 08/2001.  
Environmental Conditions:  
QAPP Information: Data used in 2002 assessment.  
QAPP Information Reference(s):

**DECISION ID** 5589  
**Murray Reservoir**

**Region 9**

**Pollutant:** 1,1,2-Trichloroethane  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status:** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for 1,1,2-Trichloroethane.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for 1,1,2-Trichloroethane and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5589, 1,1,2-Trichloroethane**  
**Murray Reservoir**

**Region 9**

LOE ID: 1015  
 Pollutant: 1,1,2-Trichloroethane  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total  
 Beneficial Use: Municipal & Domestic Supply

Number of Samples: 18  
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).  
Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for 1,1,2-Trichloroethane is 0.005 mg/L.  
Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
Temporal Representation: Samples were collected on a quarterly basis from 01/1997 to 08/2001.  
Environmental Conditions:  
QAPP Information: Data used in 2002 assessment.  
QAPP Information Reference(s):

**DECISION ID**

5590

Region 9

**Murray Reservoir**

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**1,1-Dichloroethylene (DCE)/ Vinylidene Chloride**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)

Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for 1,1-Dichloroethylene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.

3. None of the 18 samples exceed the Basin Plan water quality objective for 1,1-Dichloroethylene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5590, 1,1-Dichloroethylene (DCE)/ Vinylidene Chloride  
Murray Reservoir**

**Region 9**

LOE ID:	1016
Pollutant:	1,1-Dichloroethylene (DCE)/ Vinylidene Chloride
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for 1.1-DCE is 0.006 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/1997 to 08/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

5610

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**1,2,4-Trichlorobenzene**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)

Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for 1,2,4-Trichlorobenzene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for 1,2,4-Trichlorobenzene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5610, 1,2,4-Trichlorobenzene**  
**Murray Reservoir**

Region 9

LOE ID: 1017

Pollutant: 1,2,4-Trichlorobenzene  
LOE Subgroup: Pollutant-Water



Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 18  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for 1,2,4-Trichlorobenzene is 0.07 mg/L.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 01/1997 to 08/2001.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID**  
**Murray Reservoir**

5593

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**1,2-Dibromo-3-chloropropane (DBCP)**  
**Do Not List on 303(d) list (TMDL required list)**  
 Do Not List on 303(d) list (TMDL required list)(2006)

Original  
 Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. None of the 34 samples exceed the Basin Plan water quality objective for 1,2-Dibromo-3-chloropropane.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited

Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 34 samples exceed the Basin Plan water quality objective for 1,2-Dibromo-3-chloropropane and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5593, 1,2-Dibromo-3-chloropropane (DBCP)**

**Region 9**

**Murray Reservoir**

LOE ID:	1019
Pollutant:	1,2-Dibromo-3-chloropropane (DBCP)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	16
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 16 samples were in exceedance. EPA methods 504 and/or 505 were used for sample analysis. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for 1,2-Dibromo-3-chloropropane is 0.0002 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.

Temporal Representation: Samples were collected on a quarterly basis from 03/1997 to 05/2001.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 5593, 1,2-Dibromo-3-chloropropane (DBCP)**  
**Murray Reservoir**

**Region 9**

LOE ID: 1018

Pollutant: 1,2-Dibromo-3-chloropropane (DBCP)  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 18  
 Number of Exceedances: 0

Data and Information Type: Not Specified  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. EPA method 524.2 was used for sample analysis. (SWRCB, 2003).  
 Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for 1,2-Dibromo-3-chloropropane is 0.0002 mg/L.  
 Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 01/1997 to 08/2001.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID** 5595  
**Murray Reservoir**

**Region 9**

**Pollutant:** 1,2-Dichloroethane  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing** Do Not List on 303(d) list (TMDL required list)(2006)

**Decision:  
Revision Status  
Impairment from Pollutant or  
Pollution:**

Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for 1,2-Dichloroethane.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for 1,2-Dichloroethane and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5595, 1,2-Dichloroethane  
Murray Reservoir**

**Region 9**

LOE ID:	1021
Pollutant:	1,2-Dichloroethane
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).  
 Data Reference: [Placeholder reference 2006 303\(d\)](#)  
 Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for 1,2-Dichloroethane is 0.0005 mg/L.  
 Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)  
 Evaluation Guideline:  
 Guideline Reference:  
 Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 01/1997 to 08/2001.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID****5580****Region 9****Murray Reservoir**

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**1,2-Dichloroethylene,-trans**  
**Do Not List on 303(d) list (TMDL required list)**  
 Do Not List on 303(d) list (TMDL required list)(2006)

Original  
 Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for trans-1,2-Dichloroethylene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for trans-1,2-Dichloroethylene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that

standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5580, 1,2-Dichloroethylene,-trans  
Murray Reservoir**

**Region 9**

LOE ID:	1036
Pollutant:	1,2-Dichloroethylene,-trans
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for trans-1,2-Dichloroethylene is 0.01 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/07/1997 to 08/07/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**

**5744**

**Region 9**

**Murray Reservoir**

**Pollutant:** 1,2-Dichloropropane  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status:** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for 1,2-Dichloropropane.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for 1,2-Dichloropropane and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5744, 1,2-Dichloropropane****Region 9****Murray Reservoir**

**LOE ID:** 1022  
**Pollutant:** 1,2-Dichloropropane  
**LOE Subgroup:** Pollutant-Water  
**Matrix:** Water  
**Fraction:** Total

Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for 1,2-Dichloropropane is 0.005 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/1997 to 08/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID****5611****Region 9****Murray Reservoir**

<b>Pollutant:</b>	<b>Alachlor</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Impairment from Pollutant or Pollution:</b>	Pollutant

<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.</p> <p>Two lines of evidence are available in the administrative record to assess this pollutant. None of the 25 samples exceed the Basin Plan water quality objective for Alachlor.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p>
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This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 25 samples exceed the Basin Plan water quality objective for Alachlor and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5611, Alachlor  
Murray Reservoir**

**Region 9**

LOE ID:	1038
Pollutant:	Alachlor
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	16
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 16 samples were in exceedance. Samples were analyzed using EPA method 525.2. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Alachlor is 0.002 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 05/02/1997 to 07/10/2001.
Environmental Conditions:	

QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 5611, Alachlor  
 Murray Reservoir**

**Region 9**

LOE ID: 1039

Pollutant: Alachlor  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 9  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2000. None of the 9 samples were in exceedance. Samples were analyzed using EPA methods 507 and/or 531.1. (SWRCB, 2003).  
 Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Alachlor is 0.002 mg/L.  
 Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 03/1997 to 08/1998 and twice in 2000 (once in August and once in November).

Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID 4634  
 Murray Reservoir**

**Region 9**

**Pollutant:** Aluminum  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)

**Revision Status  
Impairment from Pollutant or  
Pollution:**Original  
Pollutant**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 15 samples exceed the Basin Plan water quality objective for aluminum.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 15 samples exceed the Basin Plan water quality objective for aluminum and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 4634, Aluminum****Region 9****Murray Reservoir**

LOE ID:	961
Pollutant:	Aluminum
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	15
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 15 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Aluminum is 0.2 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	Samples were collected 3-4 times per year from 01/1996 to 09/2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

**17107**

**Region 9**

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Ammonia as Nitrogen**  
**Do Not List on 303(d) list (TMDL required list)**  
New Decision  
  
Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. An unknown number of the 10 samples exceed the water quality objective for ammonia as N. The wrong methodology was used to assess the data. The data will be assessed for exceedences of the water quality objective during the next listing cycle.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. An unknown number of the 10 samples exceed the water quality objective for ammonia as N. The wrong methodology was used to assess the data.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that

standards are not met.

**RWQCB Board Staff Decision:**

After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list because it cannot be determined if applicable water quality standards are not being exceeded.

The wrong methodology was used to assess the data. The data will be assessed for exceedences of the water quality objective during the next listing cycle.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 17107, Ammonia as Nitrogen  
Murray Reservoir**

**Region 9**

LOE ID: 6167

Pollutant: Ammonia as Nitrogen  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 10  
Number of Exceedances: 10

Data and Information Type: Fixed station physical/chemical monitoring (conventional pollutants only)  
Data Used to Assess Water Quality: Samples were collected by the City of San Diego for their Water Quality Monitoring Data for Drinking Source Water Reservoirs report. Sampling period was from January 2005 to December 2006.

A total of 23 samples were collected. Thirteen samples were recorded as non detects but the method detection limits were above the water quality objective. The remaining 10 samples were all above the objective.

Data Reference: [Water Department, Water Quality Monitoring Data for Drinking Source Water Reservoirs. January 2005 to December 2006](#)

Water Quality Objective/Criterion: From the Basin Plan the WQO for un-ionized ammonia (NH<sub>3</sub>) for inland surface waters is 0.025mg/L (as N) (RWQCB, 2007).

Objective/Criterion Reference: [Water Quality Control Plan for the San Diego Basin](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: One surface water sample was collected per sampling event at Murray Reservoir at a standard location designated ?Station A?.

Temporal Representation: Samples were collected once or twice a month from January 2005 to December 2006.

Environmental Conditions:

QAPP Information: Samples were collected and analyzed according to the Water Quality Laboratory?s Quality Assurance Manual. Applicable field and laboratory Standard Operating Procedures were also provided by the San Diego Water Department.

QAPP Information Reference(s): [Water Quality Laboratory. Quality Assurance Manual](#)

**DECISION ID****4635****Region 9****Murray Reservoir****Pollutant:****Antimony****Final Listing Decision:****Do Not List on 303(d) list (TMDL required list)****Last Listing Cycle's Final Listing Decision:**

Do Not List on 303(d) list (TMDL required list)(2006)

**Revision Status**

Original

**Impairment from Pollutant or Pollution:**

Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the six samples exceed the Basin Plan water quality objective for antimony.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the six samples exceed the Basin Plan water quality objective for antimony and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4635, Antimony****Region 9****Murray Reservoir**

LOE ID:	962
Pollutant:	Antimony
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	6
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 1997. None of the 6 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For all waters with a municipal beneficial use, the WQO for Antimony is 0.006 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	Three samples were collected per year from 01/1996 to 09/1997.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID****4636****Region 9****Murray Reservoir**

<b>Pollutant:</b>	<b>Arsenic</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Impairment from Pollutant or Pollution:</b>	Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 15 samples exceed the Basin Plan water quality objective for arsenic.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 15 samples exceed the Basin Plan water quality objective for arsenic and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

#### **Line of Evidence (LOE) for Decision ID 4636, Arsenic**

**Region 9**

#### **Murray Reservoir**

LOE ID:	963
Pollutant:	Arsenic
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	15
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 15 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>



Water Quality Objective/Criterion:  
Objective/Criterion Reference:

From the Basin Plan: For all waters with a municipal beneficial use, the WQO for arsenic is 0.05 mg/L.  
[Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation:  
Temporal Representation:  
Environmental Conditions:  
QAPP Information:  
QAPP Information Reference(s):

Samples were collected at Murray Reservoir site MUA-0.  
Two of the 4 samples were collected per year from 01/1996 to 09/2000.  
  
Data used in 2002 assessment.

## DECISION ID

5612

Region 9

Murray Reservoir

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Atrazine**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)  
  
Original  
Pollutant

## Conclusion:

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. None of the 23 samples exceed the Basin Plan water quality objective for atrazine.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 23 samples exceed the Basin Plan water quality objective for atrazine and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

## RWQCB Board Staff Decision:

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

## SWRCB Board Staff Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 5612, Atrazine  
Murray Reservoir****Region 9**

LOE ID:	1040
Pollutant:	Atrazine
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	14
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of 14 samples were in exceedance. Samples were analyzed using EPA method 525.5. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Atrazine is 0.003 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 05/02/1997 to 07/10/2001, with the exception of 03/1999 and 12/1999 samples (which were not collected).
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 5612, Atrazine  
Murray Reservoir****Region 9**

LOE ID:	1041
Pollutant:	Atrazine
LOE Subgroup:	Pollutant-Water

Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 9  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2000. None of the 9 samples were in exceedance. Analyses were conducted using EPA methods 507 and/or 531.1. (SWRCB, 2003).

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Atrazine is 0.003 mg/L.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 03/1997 to 08/1998. One sample was collected in 08/2000, and one in 11/2000.

Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID**  
**Murray Reservoir**

4648

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Barium**  
**Do Not List on 303(d) list (TMDL required list)**  
 Do Not List on 303(d) list (TMDL required list)(2006)

Original  
 Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 17 samples exceed the water quality objective.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification

against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 17 samples exceed the water quality objective and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4648, Barium  
Murray Reservoir**

**Region 9**

LOE ID:	964
Pollutant:	Barium
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	17
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 17 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For all waters with a municipal beneficial use, the WQO for Barium is 1.0 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.

Temporal Representation: Two of 4 samples were collected per year from 01/1996 to 09/2000.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID****5746****Region 9****Murray Reservoir****Pollutant:****Benzene****Final Listing Decision:****Do Not List on 303(d) list (TMDL required list)****Last Listing Cycle's Final Listing Decision:**

Do Not List on 303(d) list (TMDL required list)(2006)

**Revision Status**

Original

**Impairment from Pollutant or Pollution:**

Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for benzene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for benzene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 5746, Benzene****Region 9****Murray Reservoir**

LOE ID: 1024

Pollutant: Benzene  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 18  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).  
 Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Benzene is 0.001 mg/L.  
 Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 01/1997 to 08/2001.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID**  
**Murray Reservoir**

5613

Region 9

**Pollutant:** Benzo(a)pyrene (3,4-Benzopyrene -7-d)  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 14 samples exceed the Basin Plan water quality objective for benzo(a)pyrene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 14 samples exceed the Basin Plan water quality objective for benzo(a)pyrene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5613, Benzo(a)pyrene (3,4-Benzopyrene -7-d)**  
**Murray Reservoir**

**Region 9**

LOE ID:	1042
Pollutant:	Benzo(a)pyrene (3,4-Benzopyrene -7-d)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	14
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 14 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Benzo(a)pyrene is 0.0002 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>

Evaluation Guideline:  
Guideline Reference:

Spatial Representation:  
Temporal Representation:

Samples were collected at Murray Reservoir at station A at the surface.  
Samples were collected on a quarterly basis from 02/04/1997 to 07/10/2001, except for 12/1999, 12/2000, and 03/2001 ( in which months samples were not collected).

Environmental Conditions:  
QAPP Information:  
QAPP Information Reference(s):

Data used in 2002 assessment.

#### DECISION ID

5813

Region 9

Murray Reservoir

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Carbofuran**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)  
  
Original  
Pollutant

#### Conclusion:

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 15 samples exceed the Basin Plan water quality objective for carbofuran.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 15 samples exceed the Basin Plan water quality objective for carbofuran and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

#### RWQCB Board Staff Decision:

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

#### SWRCB Board Staff Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.



**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 5813, Carbofuran****Region 9****Murray Reservoir**

LOE ID:	1060
Pollutant:	Carbofuran
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	15
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 15 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Carbofuran is 0.018 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 03/1997 to 07/2001, except for 08/1998, 11/1999, 08/2000, and 11/2000, for which months samples measurements were not reported.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID****6037****Region 9****Murray Reservoir**

<b>Pollutant:</b>	<b>Carbon tetrachloride</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)

**Revision Status  
Impairment from Pollutant or  
Pollution:**Original  
Pollutant**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for carbon tetrachloride.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for carbon tetrachloride and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 6037, Carbon tetrachloride****Region 9****Murray Reservoir**

LOE ID:	1025
Pollutant:	Carbon tetrachloride
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Carbon Tetrachloride is 0.0005 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/1997 to 08/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

5812

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Chlordane**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)  
  
Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. None of the 20 samples exceed the Basin Plan water quality objective for chlordane.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 20 samples exceed the Basin Plan water quality objective for chlordane and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5812, Chlordane**

**Region 9**

**Murray Reservoir**

LOE ID:	1058
Pollutant:	Chlordane
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	9
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2000. None of the 9 samples were in exceedance. EPA method 525.2 was used for sample analysis. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Total Chlordane is 0.0001 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected 2-4 times per year from 09/1997 to 12/2000. No samples were collected in 1999.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 5812, Chlordane**

**Region 9**

**Murray Reservoir**

LOE ID: 1059

Pollutant: Chlordane  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 11  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 11 samples were in exceedance. EPA methods 504 and/or 505 were used for sample analysis. (SWRCB, 2003).  
 Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Total Chlordane is 0.0001 mg/L.  
 Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 03/1997 to 08/1998. One sample each was collected in 12/1999, 02/2000, 02/2001, and 05/2001.

Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID**  
**Murray Reservoir**

4649

Region 9

**Pollutant:** Chloride  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 22 samples exceed the Basin Plan water quality objective for chloride.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 22 samples exceed the Basin Plan water quality objective for chloride and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4649, Chloride  
Murray Reservoir**

**Region 9**

LOE ID:	965
Pollutant:	Chloride
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	22
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2001. None of the 22 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters in HA 907.11 with a municipal beneficial use, the WQO for chloride is 400 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir site MUA-0.  
Temporal Representation: Samples were collected 2-5 times per year from 03/1996 to 06/2001.  
Environmental Conditions:  
QAPP Information: Data used in 2002 assessment.  
QAPP Information Reference(s):

**DECISION ID**  
**Murray Reservoir**

6068

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Chlorobenzene (mono)**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)  
  
Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for chlorobenzene (mono).

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for chlorobenzene (mono) and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 6068, Chlorobenzene (mono)****Region 9****Murray Reservoir**

LOE ID:	1026
Pollutant:	Chlorobenzene (mono)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Chlorobenzene (mono) is 0.07 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/1997 to 08/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID****4655****Region 9****Murray Reservoir**

<b>Pollutant:</b>	<b>Chromium (total)</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original



**Impairment from Pollutant or Pollution:****Pollutant****Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the eight samples exceed the Basin Plan water quality objective for chromium.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the eight samples exceed the Basin Plan water quality objective for chromium and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 4655, Chromium (total)****Region 9****Murray Reservoir**

LOE ID: 966

Pollutant: Chromium (total)  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 8  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 8 samples were

Data Reference: [in exceedance. \(SWRCB, 2003\). Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For all waters with a municipal beneficial use, the WQO for chromium is 0.05 mg/L.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:

Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir site MUA-0.

Temporal Representation: Samples were collected twice per year from 01/1996 to 09/2000. No samples were collected in 1999.

Environmental Conditions:

QAPP Information: Data used in 2002 assessment.

QAPP Information Reference(s):

**DECISION ID****4670****Region 9****Murray Reservoir****Pollutant:****Color****Final Listing Decision:****Do Not List on 303(d) list (TMDL required list)****Last Listing Cycle's Final Listing Decision:**

Do Not List on 303(d) list (TMDL required list)(2006)

**Revision Status**

Original

**Impairment from Pollutant or Pollution:**

Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.

Four lines of evidence are available in the administrative record to assess this pollutant. None of the 190 samples exceed the Basin Plan water quality objective for color.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 190 samples exceed the Basin Plan water quality objective for color and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information

become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4670, Color  
Murray Reservoir**

**Region 9**

LOE ID:	970
Pollutant:	Color
LOE Subgroup:	Pollutant-Nuisance
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	58
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 58 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Color is 15 units.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-GA75.
Temporal Representation:	One to 2 samples per year were collected in 1996-1998. Five samples were collected in 1999, and samples were collected 3-4 times monthly for the entire year in 2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4670, Color  
Murray Reservoir**

**Region 9**

LOE ID: 968

Pollutant:	Color
LOE Subgroup:	Pollutant-Nuisance
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	57
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 57 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Color is 15 units.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-GA49.
Temporal Representation:	One to 2 samples per year were collected in 1996-1998. Five samples were collected in 1999, and samples were collected 3-4 times monthly for the entire year in 2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment. QA=?
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4670, Color****Region 9****Murray Reservoir**

LOE ID:	967
Pollutant:	Color
LOE Subgroup:	Pollutant-Nuisance
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	17
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. One of 17 samples was in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Color is 15 units.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	Samples were collected 2-4 times per year from 03/1996 to 12/2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4670, Color  
Murray Reservoir**

**Region 9**

LOE ID:	969
Pollutant:	Color
LOE Subgroup:	Pollutant-Nuisance
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	58
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 58 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Color is 15 units.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-GA62.
Temporal Representation:	One to 2 samples per year were collected in 1996-1998. 5 samples were collected in 1999, and samples

were collected 3-4 times monthly for the entire year in 2000.

Environmental Conditions:  
QAPP Information:  
QAPP Information Reference(s):

QA Info Missing

**DECISION ID**

**4671**

**Region 9**

**Murray Reservoir**

**Pollutant:**

**Copper**

**Final Listing Decision:**

**Do Not List on 303(d) list (TMDL required list)**

**Last Listing Cycle's Final Listing Decision:**

Do Not List on 303(d) list (TMDL required list)(2006)

**Revision Status**

Original

**Impairment from Pollutant or Pollution:**

Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 14 samples exceed the Basin Plan water quality objective for copper.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 14 samples exceed the Basin Plan water quality objective for copper and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4671, Copper**

**Region 9**

**Murray Reservoir**

LOE ID: 971

Pollutant: Copper  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 14  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 14 samples were in exceedance. (SWRCB, 2003).  
 Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for copper is 1.0 mg/L.  
 Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir site MUA-0.  
 Temporal Representation: Samples were collected 1-4 times per year from 01/1996 to 09/2000.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID**  
**Murray Reservoir**

5614

Region 9

**Pollutant:** Endrin  
**Final Listing Decision:** **Do Not List on 303(d) list (TMDL required list)**  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. None of the 28 samples exceed the Basin Plan water quality objective for endrin.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 28 samples exceed the Basin Plan water quality objective for endrin and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5614, Endrin  
Murray Reservoir**

**Region 9**

LOE ID:	1044
Pollutant:	Endrin
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	13
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 13 samples were in exceedance. EPA methods 504 and/or 505 were used for sample analysis. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Endrin is 0.002 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>



Evaluation Guideline:  
Guideline Reference:

Spatial Representation:  
Temporal Representation:

Samples were collected at Murray Reservoir station A at the surface.  
Samples were collected on a quarterly basis from 03/1997 to 02/1999. One sample each was collected in 12/1999, 02/2000, 02/2001, and 05/2001.

Environmental Conditions:  
QAPP Information:  
QAPP Information Reference(s):

Data used in 2002 assessment.

**Line of Evidence (LOE) for Decision ID 5614, Endrin  
Murray Reservoir**

**Region 9**

LOE ID: 1043

Pollutant: Endrin  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 15  
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 15 samples were in exceedance. (SWRCB, 2003).

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Endrin is 0.002 mg/L.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation:  
Temporal Representation:

Samples were collected at Murray Reservoir station A at the surface.  
Samples were collected on a quarterly basis from 05/02/1997 to 07/10/2001, except for 03/2001, in which no samples were collected.

Environmental Conditions:  
QAPP Information:  
QAPP Information Reference(s):

Data used in 2002 assessment.

**DECISION ID**  
**Murray Reservoir**

**6069**

**Region 9**

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Ethylbenzene**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)

Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for ethylbenzene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for ethylbenzene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 6069, Ethylbenzene**  
**Murray Reservoir**

**Region 9**

LOE ID: 1027

Pollutant: Ethylbenzene  
LOE Subgroup: Pollutant-Water  
Matrix: Water

Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Ethylbenzene is 0.7 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/1997 to 08/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID****4672****Region 9****Murray Reservoir****Pollutant:****Fluoride****Final Listing Decision:****Do Not List on 303(d) list (TMDL required list)****Last Listing Cycle's Final Listing Decision:**

Do Not List on 303(d) list (TMDL required list)(2006)

**Revision Status**

Original

**Impairment from Pollutant or Pollution:**

Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 17 samples exceed the Basin Plan water quality objective for flouride.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 17 samples exceed the Basin Plan water quality objective for flouride and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4672, Fluoride  
Murray Reservoir**

**Region 9**

LOE ID:	972
Pollutant:	Fluoride
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	17
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 17 samples was in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for Fluoride is 1.0 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	Two to 4 samples were collected per year from 03/1996 to 09/2000.

Environmental Conditions:  
QAPP Information:  
QAPP Information Reference(s):

Data used in 2002 assessment.

**DECISION ID**

**4662**

**Region 9**

**Murray Reservoir**

**Pollutant:**

**Glyphosate**

**Final Listing Decision:**

**Do Not List on 303(d) list (TMDL required list)**

**Last Listing Cycle's Final Listing Decision:**

Do Not List on 303(d) list (TMDL required list)(2006)

**Revision Status**

Original

**Impairment from Pollutant or Pollution:**

Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence available in the administrative record to assess this pollutant. None of the 16 samples exceed the Basin Plan water quality objective for glyphosate.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 16 samples exceed the Basin Plan water quality objective for glyphosate and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4662, Glyphosate**

**Region 9**

**Murray Reservoir**

LOE ID:	1012
Pollutant:	Glyphosate
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	16
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 16 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for glyphosate is 0.7 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir, station A at the surface.
Temporal Representation:	Samples were collected 2-4 times per year (on a somewhat quarterly basis) from 03/1997 to 07/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

<b>DECISION ID</b>	<b>5636</b>	<b>Region 9</b>
<b>Murray Reservoir</b>		
<b>Pollutant:</b>	<b>Heptachlor</b>	
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)	
<b>Revision Status</b>	Original	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.</p> <p>Two lines of evidence are available in the administrative record to assess this pollutant. None of the 27 samples</p>	

exceed the Basin Plan water quality objective for Heptachlor.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 27 samples exceed the Basin Plan water quality objective for Heptachlor and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5636, Heptachlor  
Murray Reservoir**

**Region 9**

LOE ID:	1047
Pollutant:	Heptachlor
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	14
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 14 samples were in exceedance. EPA method 525.2 was used for sample analysis. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Heptachlor is 0.00001 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
Temporal Representation: Samples were collected on a quarterly basis from 05/1997 to 03/2001.  
Environmental Conditions:  
QAPP Information: Data used in 2002 assessment.  
QAPP Information Reference(s):

#### Line of Evidence (LOE) for Decision ID 5636, Heptachlor

Region 9

##### Murray Reservoir

LOE ID: 1048

Pollutant: Heptachlor  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 13  
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 13 samples were in exceedance. EPA methods 504 and/or 505 were used for sample analysis. (SWRCB, 2003).  
Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Heptachlor is 0.00001 mg/L.  
Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
Temporal Representation: Samples were collected on a quarterly basis from 03/1997 to 02/1999. One sample each was collected in 12/1999, 02/2000, 02/2001, and 05/2001.  
Environmental Conditions:  
QAPP Information: Data used in 2002 assessment.  
QAPP Information Reference(s):

DECISION ID

5615

Region 9



**Murray Reservoir**

**Pollutant:** Heptachlor epoxide  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status:** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. None of the 27 samples exceed the Basin Plan water quality objective heptachlor epoxide.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 27 samples exceed the Basin Plan water quality objective heptachlor epoxide and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5615, Heptachlor epoxide**

**Region 9**

**Murray Reservoir**

LOE ID: 1046  
 Pollutant: Heptachlor epoxide  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total

Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	13
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 13 samples were in exceedance. EPA methods 504 and/or 505 were used for sample analysis.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Heptachlor epoxide is 0.00001 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface. (SWRCB, 2003).
Temporal Representation:	Samples were collected on a quarterly basis from 03/1997 to 02/1999. One sample each was collected in 12/1999, 02/2000, 02/2001, and 05/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

#### Line of Evidence (LOE) for Decision ID 5615, Heptachlor epoxide

**Region 9**

#### Murray Reservoir

LOE ID:	1045
Pollutant:	Heptachlor epoxide
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	14
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 14 samples were in exceedance. EPA method 525.2 was used for sample analysis. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Heptachlor

Objective/Criterion Reference: epoxide is 0.00001 mg/L.  
[Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 05/1997 to 03/2001.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID****5548****Region 9****Murray Reservoir**

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Hexachlorobenzene/ HCB**  
**Do Not List on 303(d) list (TMDL required list)**  
 Do Not List on 303(d) list (TMDL required list)(2006)  
 Original  
 Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. None of the 28 samples exceed the Basin Plan water quality objective for hexachlorobenzene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 28 samples exceed the Basin Plan water quality objective for hexachlorobenzene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 5548, Hexachlorobenzene/ HCB  
Murray Reservoir****Region 9**

LOE ID:	1049
Pollutant:	Hexachlorobenzene/ HCB
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	15
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 15 samples were in exceedance. EPA method 525.2 was used for sample analysis. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Hexachlorobenzene is 0.001 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 05/1997 to 07/2001, except for 06/2000, in which no samples were reported.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 5548, Hexachlorobenzene/ HCB  
Murray Reservoir****Region 9**

LOE ID:	1050
Pollutant:	Hexachlorobenzene/ HCB
LOE Subgroup:	Pollutant-Water

Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	13
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 13 samples were in exceedance. EPA methods 504 and/or 505 were used for sample analysis. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Hexachlorobenzene is 0.001 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 03/1997 to 02/1999. One sample each was collected in 12/1999, 02/2000, 02/2001, and 05/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

5549

Region 9

<b>Pollutant:</b>	<b>Hexachlorocyclopentadiene</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Impairment from Pollutant or Pollution:</b>	Pollutant

<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.</p> <p>Two lines of evidence are available in the administrative record to assess this pollutant. None of the 29 samples exceed the Basin Plan water quality objective for hexachlorocyclopentadiene.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification</p>
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against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 29 samples exceed the Basin Plan water quality objective for hexachlorocyclopentadiene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5549, Hexachlorocyclopentadiene  
Murray Reservoir**

**Region 9**

LOE ID:	1052
Pollutant:	Hexachlorocyclopentadiene
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	13
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 13 samples were in exceedance. EPA methods 504 and/or 505 were used for sample analysis. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Hexachlorocyclopentadiene is 0.05 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 03/1997 to 02/1999. One sample each was collected in 12/1999, 02/2000, 02/2001, and 05/2001.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 5549, Hexachlorocyclopentadiene  
 Murray Reservoir**

**Region 9**

LOE ID: 1051

Pollutant: Hexachlorocyclopentadiene  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 16  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 16 samples were in exceedance. EPA method 525.2 was used for sample analysis. (SWRCB, 2003).  
 Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Hexachlorocyclopentadiene is 0.05 mg/L.  
 Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 05/1997 to 07/2001.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID 4673  
 Murray Reservoir**

**Region 9**

**Pollutant: Iron**

**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Do Not List on 303(d) list (TMDL required list)**  
 Do Not List on 303(d) list (TMDL required list)(2006)

Original  
 Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. One of the 15 samples exceed the Basin Plan water quality objective for iron.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. One of the 15 samples exceed the Basin Plan water quality objective for iron and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4673, Iron  
 Murray Reservoir**

**Region 9**

LOE ID:	973
Pollutant:	Iron
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	15



Number of Exceedances:	1
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. One of the 15 samples was in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for iron is 0.3 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	Two of 4 samples were collected per year from 06/1996 to 12/2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

<b>DECISION ID</b>	<b>5953</b>	<b>Region 9</b>
<b>Murray Reservoir</b>		
<b>Pollutant:</b>	<b>Lindane/gamma Hexachlorocyclohexane (gamma-HCH)</b>	
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)	
<b>Revision Status</b>	Original	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.</p> <p>One line of evidence is available in the administrative record to assess this pollutant. None of the five samples exceed the Basin Plan water quality objective for lindane.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p> <p>This conclusion is based on the staff findings that:</p> <ol style="list-style-type: none"> <li>1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.</li> <li>2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.</li> <li>3. None of the five samples exceed the Basin Plan water quality objective for lindane and this does not exceed the</li> </ol>	

allowable frequency listed in Table 3.1 of the Listing Policy.

4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5953, Lindane/gamma Hexachlorocyclohexane (gamma-HCH)  
Murray Reservoir**

**Region 9**

LOE ID:	1063
Pollutant:	Lindane/gamma Hexachlorocyclohexane (gamma-HCH)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	5
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1999 to 2001. None of the 5 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Lindane is 0.0002 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected 2 times in 1999 (once in February and once in December), once in 02/2000, and twice in 2001 (once in February and once in May).
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

4674

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Manganese**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)

Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 21 samples exceed the Basin Plan water quality objective for manganese.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 21 samples exceed the Basin Plan water quality objective for manganese and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4674, Manganese**  
**Murray Reservoir**

Region 9

LOE ID: 974

Pollutant: Manganese  
LOE Subgroup: Pollutant-Water

Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	21
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 21 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	The water quality objective for manganese in Murray Reservoir is 0.05 milligrams/liter (mg/l) according to Basin Plan, Table 3-2 entitled, Water Quality Objectives. This concentration is not be exceeded more than 10% of the time during any one year period.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	Two to 7 samples were collected per year form 01/1996 to 09/2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

5747

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Methoxychlor**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)

Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. None of the 27 samples exceed the Basin Plan water quality objective for methoxychlor.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification

against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 27 samples exceed the Basin Plan water quality objective for methoxychlor and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5747, Methoxychlor  
Murray Reservoir**

**Region 9**

LOE ID:	1054
Pollutant:	Methoxychlor
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	13
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 13 samples were in exceedance. EPA methods 504 and/or 505 were used in sample analysis. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Methoxychlor is 0.04 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	

Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 03/1997 to 02/1999. One sample each was collected in 12/1999, 02/2000, 02/2001, and 05/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 5747, Methoxychlor  
Murray Reservoir**

**Region 9**

LOE ID:	1053
Pollutant:	Methoxychlor
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	14
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 14 samples were in exceedance. EPA method 525.2 was used for sample analysis. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Methoxychlor is 0.04 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 05/1997 to 07/2001, except for 12/200 and 03/2001, in which months samples were not reported.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**                      **5951**  
**Murray Reservoir**

**Region 9**

<b>Pollutant:</b>	<b>Molinate</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Impairment from Pollutant or Pollution:</b>	Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the nine samples exceed the Basin Plan water quality objective for molinate.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the nine samples exceed the Basin Plan water quality objective for molinate and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5951, Molinate  
Murray Reservoir**

**Region 9**

LOE ID:	1061
Pollutant:	Molinate
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply

Number of Samples: 9  
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2000. None of the 9 samples were in exceedance. (SWRCB, 2003).  
Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Molinate is 0.02 mg/L.  
Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
Temporal Representation: Samples were collected from 1997 to 2000. Samples were collected on a quarterly basis from 03/1997 to 08/1998, and once in 08/2000 and 11/2000. No samples were reported for 1999.

Environmental Conditions:  
QAPP Information: Data used in 2002 assessment.  
QAPP Information Reference(s):

**DECISION ID** 4675 **Region 9**

### Murray Reservoir

**Pollutant:** Nickel  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 11 samples exceed the Basin Plan water quality objective for nickel.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:  
1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.



2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 11 samples exceed the Basin Plan water quality objective for nickel and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4675, Nickel  
Murray Reservoir**

**Region 9**

LOE ID:	975
Pollutant:	Nickel
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	11
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 1998. None of the 11 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For all waters with a municipal beneficial use, the WQO for Nickel is 0.1 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	Samples were collected 3-4 times per year from 01/1996 to 12/1998.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

5952

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Oxamyl (Vydate)**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)

Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 15 samples exceed the Basin Plan water quality objective for oxamyl.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 15 samples exceed the Basin Plan water quality objective for oxamyl and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5952, Oxamyl (Vydate)**  
**Murray Reservoir**

Region 9

LOE ID: 1062

Pollutant: Oxamyl (Vydate)  
LOE Subgroup: Pollutant-Water

Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	15
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 15 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Oxamyl is 0.2 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected from 1997 to 2001. Samples were collected on a quarterly basis from 03/1997 to 06/1998. One sample each was also collected in 09/1998, 03/1999, 12/1999, 03/2000, and 09/2000. One sample was collected every 1-2 months from 12/2000 to 07/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

<b>DECISION ID</b>	<b>4661</b>	<b>Region 9</b>
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**Murray Reservoir**

<b>Pollutant:</b>	<b>Oxygen, Dissolved</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Impairment from Pollutant or Pollution:</b>	Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.

Eight lines of evidence are available in the administrative record to assess this pollutant. Nine of the 70 samples exceed the Basin Plan water quality objective for dissolved oxygen.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Nine of the 70 samples exceed the Basin Plan water quality objective for dissolved oxygen and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4661, Oxygen, Dissolved  
Murray Reservoir**

**Region 9**

LOE ID:	1005
Pollutant:	Oxygen, Dissolved
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	6
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 05/1997. None of the 6 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: Dissolved oxygen levels shall not be less than 5.0 mg/l in inland surface waters with designated MAR or WARM beneficial uses or less than 6.0 mg/l in waters with designated COLD beneficial uses. The annual mean dissolved oxygen concentrations shall not be less than 7 mg/l more than 10% of the time.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Watershed, drainage MURDS, station MUR1A.  
Temporal Representation: Samples were collected on 05/27/1997 from 07:35am to 07:42am.  
Environmental Conditions:  
QAPP Information: QA Info Missing  
QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 4661, Oxygen, Dissolved  
Murray Reservoir**

**Region 9**

LOE ID: 1008

Pollutant: Oxygen, Dissolved  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: Dissolved

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 6  
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. in 09/1997 and 01/1998. None of the 6 samples were in exceedance. (SWRCB, 2003).  
Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: Dissolved oxygen levels shall not be less than 5.0 mg/l in inland surface waters with designated MAR or WARM beneficial uses or less than 6.0 mg/l in waters with designated COLD beneficial uses. The annual mean dissolved oxygen concentrations shall not be less than 7 mg/l more than 10% of the time.  
Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected in the Murray watershed at drainage MURDS, station MUR5b.  
Temporal Representation: Samples were collected on 09/25/1997 at 12:58 pm and on 01/29/1998 from 15:13to 15:16pm.  
Environmental Conditions:  
QAPP Information: QA Info Missing  
QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 4661, Oxygen, Dissolved**

**Region 9**

**Murray Reservoir**

LOE ID:	1009
Pollutant:	Oxygen, Dissolved
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	10
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 03/1997 and 05/1997. None of the 10 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: Dissolved oxygen levels shall not be less than 5.0 mg/l in inland surface waters with designated MAR or WARM beneficial uses or less than 6.0 mg/l in waters with designated COLD beneficial uses. The annual mean dissolved oxygen concentrations shall not be less than 7 mg/l more than 10% of the time.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected in the Murray Watershed, drainage MURDS, station MUR7.
Temporal Representation:	Samples were collected on 03/12/1997 at 14:47 and 14:48pm and 05/28/1997 from 8:41 to 8:48am.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4661, Oxygen, Dissolved**  
**Murray Reservoir**

**Region 9**

LOE ID:	1006
Pollutant:	Oxygen, Dissolved
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Dissolved
Beneficial Use:	Municipal & Domestic Supply

Number of Samples:	3
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 09/1997. None of the 3 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: Dissolved oxygen levels shall not be less than 5.0 mg/l in inland surface waters with designated MAR or WARM beneficial uses or less than 6.0 mg/l in waters with designated COLD beneficial uses. The annual mean dissolved oxygen concentrations shall not be less than 7 mg/l more than 10% of the time.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray watershed, drainage MURDS, station MUR1A.
Temporal Representation:	Samples were collected on 09/25/1997 at 12:28 pm.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4661, Oxygen, Dissolved  
Murray Reservoir**

**Region 9**

LOE ID:	1007
Pollutant:	Oxygen, Dissolved
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	9
Number of Exceedances:	9
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 03/1997 and 05/1997. Nine of 9 samples were in exceedance, 2 of 2 averages were in exceedance (when the average of the samples in each day is calculated). (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: Dissolved oxygen levels shall not be less than 5.0 mg/l in inland surface waters with

Objective/Criterion Reference:	designated MAR or WARM beneficial uses or less than 6.0 mg/l in waters with designated COLD beneficial uses. The annual mean dissolved oxygen concentrations shall not be less than 7 mg/l more than 10% of the time. <a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline: Guideline Reference:	
Spatial Representation:	Samples were collected in the Murray Watershed, drainage MURDS, station MUR4A.
Temporal Representation:	Samples were collected on 03/12/1997 at 13:54 and 13:55 and on 05/28/1997 from 8:03am to 8:08am.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4661, Oxygen, Dissolved  
Murray Reservoir**

**Region 9**

LOE ID:	1004
Pollutant:	Oxygen, Dissolved
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	3
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 09/1997. None of the 3 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: Dissolved oxygen levels shall not be less than 5.0 mg/l in inland surface waters with designated MAR or WARM beneficial uses or less than 6.0 mg/l in waters with designated COLD beneficial uses. The annual mean dissolved oxygen concentrations shall not be less than 7 mg/l more than 10% of the time.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline: Guideline Reference:	
Spatial Representation:	Samples were collected in the Murray Watershed, drainage MURDS, station MBP5.
Temporal Representation:	Samples were collected on 09/25/1997 at 13:41.
Environmental Conditions:	



QAPP Information: QA Info Missing  
 QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 4661, Oxygen, Dissolved  
 Murray Reservoir**

**Region 9**

LOE ID:	1011
Pollutant:	Oxygen, Dissolved
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	8
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected in 1998 by the City of San Diego Water Dept. None of the 8 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: Dissolved oxygen levels shall not be less than 5.0 mg/l in inland surface waters with designated MAR or WARM beneficial uses or less than 6.0 mg/l in waters with designated COLD beneficial uses. The annual mean dissolved oxygen concentrations shall not be less than 7 mg/l more than 10% of the time.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir sites 2a and 2b. (These sites are most likely within 200 m of each other).
Temporal Representation:	Samples were collected on 01/29/1998 (at 2b) and on 02/04/1998 (at 2a).
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4661, Oxygen, Dissolved  
 Murray Reservoir**

**Region 9**

LOE ID:	1010
Pollutant:	Oxygen, Dissolved

LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	25
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 09/1997 to 02/1998. None of the 25 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: Dissolved oxygen levels shall not be less than 5.0 mg/l in inland surface waters with designated MAR or WARM beneficial uses or less than 6.0 mg/l in waters with designated COLD beneficial uses. The annual mean dissolved oxygen concentrations shall not be less than 7 mg/l more than 10% of the time.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected in Murray Watershed, drainage MURDS, station MUR8b.
Temporal Representation:	Samples were collected on 09/18/1997 from 12:50 to 13:46pm, on 09/25/1997 at 13:17 and 13:18pm, on 12/10/1997 from 11:48-11:57am, 01/08/1998 from 15:34 to 15:38pm, 01/29/1998 from 15:30 to 15:32 om, and 02/04/1998 from 15:25-15:28pm.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

<b>DECISION ID</b>	<b>5542</b>	<b>Region 9</b>
<b>Murray Reservoir</b>		

<b>Pollutant:</b>	<b>PCBs (Polychlorinated biphenyls)</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Impairment from Pollutant or Pollution:</b>	Pollutant

<b>Conclusion:</b>	This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.
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One line of evidence is available in the administrative record to assess this pollutant. None of the 12 samples exceed the Basin Plan water quality objective for polychlorinated biphenyls.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 12 samples exceed the Basin Plan water quality objective for polychlorinated biphenyls and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

#### Line of Evidence (LOE) for Decision ID 5542, PCBs (Polychlorinated biphenyls)

Region 9

##### Murray Reservoir

LOE ID:	1037
Pollutant:	PCBs (Polychlorinated biphenyls)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	12
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 1997 and 1998. A total of 12 samples were collected for 9 different PCBs. No samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for PCBs is 0.0005 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>

Evaluation Guideline:  
Guideline Reference:

Spatial Representation:  
Temporal Representation:

Samples were collected at Murray Reservoir station A at the surface.  
One to 2 samples were collected for each PCB. Samples were collected on 02/04/1997, 05/02/1997, and/or 12/02/1998.

Environmental Conditions:  
QAPP Information:  
QAPP Information Reference(s):

Data used in 2002 assessment.

## DECISION ID

5748

Region 9

Murray Reservoir

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Pentachlorophenol (PCP)**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)

Original  
Pollutant

## Conclusion:

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the eight samples exceed the Basin Plan water quality objective for pentachlorophenol.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the eight samples exceed the Basin Plan water quality objective for pentachlorophenol and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

## RWQCB Board Staff Decision:

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

## SWRCB Board Staff Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 5748, Pentachlorophenol (PCP)****Region 9****Murray Reservoir**

LOE ID:	1055
Pollutant:	Pentachlorophenol (PCP)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	8
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2000. None of the 8 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Pentachlorophenol is 0.001 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected 2-3 times per year in 1997, 1998 and 2000. Samples were collected in spring, summer, and winter months.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID****4831****Region 9****Murray Reservoir**

<b>Pollutant:</b>	<b>Picloram</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)

**Revision Status  
Impairment from Pollutant or  
Pollution:**Original  
Pollutant**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. The one sample did not exceed the Basin Plan water quality objective for picloram.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. The one sample did not exceed the Basin Plan water quality objective for picloram and this sample size is insufficient to determine with the power and confidence of the Listing Policy if standards are not met. A minimum of two samples is needed for application of table 3.1.
4. Pursuant to [SECTION 3.11/4.11] of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 4831, Picloram  
Murray Reservoir****Region 9**

LOE ID:	985
Pollutant:	Picloram
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	1
Number of Exceedances:	0

Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. on 12/02/1998. One sample was collected, it was not in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Picloram is 0.5 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	One sample was collected on 12/02/1998.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID****4832****Region 9****Murray Reservoir**

<b>Pollutant:</b>	<b>Selenium</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Impairment from Pollutant or Pollution:</b>	Pollutant

<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.</p> <p>One line of evidence is available in the administrative record to assess this pollutant. None of the eight samples exceed the Basin Plan water quality objective for selenium.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p> <p>This conclusion is based on the staff findings that:</p> <ol style="list-style-type: none"> <li>1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.</li> <li>2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.</li> <li>3. None of the eight samples exceed the Basin Plan water quality objective for selenium and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy.</li> <li>4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that</li> </ol>
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standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

#### Line of Evidence (LOE) for Decision ID 4832, Selenium

**Region 9**

##### Murray Reservoir

LOE ID:	986
Pollutant:	Selenium
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	8
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 1996 and 1997. None of the 8 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For all waters with a municipal beneficial use, the WQO for Selenium is 0.05 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	Samples were collected 4 times per year from 01/1996 to 12/1997.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**

**5749**

**Region 9**

##### Murray Reservoir



**Pollutant:** Simazine  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. None of the 21 samples exceed the Basin Plan water quality objective for simazine.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 21 samples exceed the Basin Plan water quality objective for simazine and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5749, Simazine  
Murray Reservoir**

**Region 9**

LOE ID: 1056

Pollutant: Simazine  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples:	12
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 12 samples were in exceedance. Analysis was conducted using EPA method 525.2. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Simazine is 0.004 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected 2-4 times per year from 02/1997 to 07/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 5749, Simazine**  
**Murray Reservoir**

**Region 9**

LOE ID:	1057
Pollutant:	Simazine
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	9
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2000. None of the 9 samples were in exceedance. Sample analysis was conducted using EPA methods 507 and/or 531.1. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Simazine is 0.004 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>

Evaluation Guideline:  
Guideline Reference:

Spatial Representation:  
Temporal Representation:

Samples were collected at Murray Reservoir station A at the surface.  
Samples were collected on a quarterly basis from 03/1997 to 08/1998. One sample was collected in 08/2000 and one in 11/2000.

Environmental Conditions:  
QAPP Information:  
QAPP Information Reference(s):

Data used in 2002 assessment.

**DECISION ID**  
**Murray Reservoir**

**6071**

**Region 9**

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Styrene**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)  
  
Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for styrene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for styrene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 6071, Styrene  
Murray Reservoir**

**Region 9**

LOE ID:	1029
Pollutant:	Styrene
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Styrene is 0.1 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/07/1997 to 08/07/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID 4833  
Murray Reservoir**

**Region 9**

<b>Pollutant:</b>	<b>Sulfates</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Impairment from Pollutant or</b>	Pollutant

**Pollution:****Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 22 samples exceed the Basin Plan water quality objective for sulfates.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 22 samples exceed the Basin Plan water quality objective for sulfates and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4833, Sulfates**  
**Murray Reservoir**

**Region 9**

LOE ID: 987

Pollutant: Sulfates  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 22  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1996 to 2001. None of the 22 samples were in exceedance.

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters in the 907.11 HA and all beneficial uses, the WQO for sulfate is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir site MUA-0.  
Temporal Representation: Samples were collected 2-5 times per year from 03/1996 to 06/2001.  
Environmental Conditions:  
QAPP Information: Data used in 2002 assessment. QA=?  
QAPP Information Reference(s):

**DECISION ID**  
**Murray Reservoir**

**6072**

**Region 9**

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Tetrachloroethylene/PCE**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)  
  
Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for tetrachloroethylene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for tetrachloroethylene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 6072, Tetrachloroethylene/PCE  
Murray Reservoir**

**Region 9**

LOE ID:	1030
Pollutant:	Tetrachloroethylene/PCE
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Tetrachloroethylene is 0.005 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/07/1997 to 08/07/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

**5844**

**Region 9**

**Pollutant:** Toluene  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status:** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

Two lines of evidence are available in the administrative record to assess this pollutant. None of the 19 samples exceed the Basin Plan water quality objective for toluene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 19 samples exceed the Basin Plan water quality objective for toluene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5844, Toluene  
Murray Reservoir**

**Region 9**

LOE ID: 997  
Pollutant: Toluene  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: Total  
Beneficial Use: Municipal & Domestic Supply



Number of Samples:	1
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. on 12/02/1997. One sample was collected, it was not in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Toluene is 0.15 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	One sample was collected on 12/02/1997.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessmnet.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 5844, Toluene**  
**Murray Reservoir**

**Region 9**

LOE ID:	1031
Pollutant:	Toluene
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Toluene is 0.15 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	

## Guideline Reference:

Spatial Representation:  
 Temporal Representation:  
 Environmental Conditions:  
 QAPP Information:  
 QAPP Information Reference(s):

Samples were collected at Murray Reservoir station A at the surface.  
 Samples were collected on a quarterly basis from 01/07/1997 to 08/07/2001.

Data used in 2002 assessment.

**DECISION ID**

4834

Region 9

**Murray Reservoir**

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Total Dissolved Solids**  
**Do Not List on 303(d) list (TMDL required list)**  
 Do Not List on 303(d) list (TMDL required list)(2006)

Original  
 Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.

Nine lines of evidence are available in the administrative record to assess this pollutant. Thirty-nine of the 64 samples exceed the Basin Plan water quality objective for total dissolved solids.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Thirty-nine of the 64 samples exceed the Basin Plan water quality objective for total dissolved solids, and these exceed the allowable frequency listed in Table 3.2 of the Listing Policy. At the October 25th, 2006 Water Board meeting, comments were received concerning total dissolved solids in terminal reservoirs in the San Diego region. The Board concluded that it was inappropriate to list these water bodies based on secondary MCLs when the TDS values of the incoming supplying waters were higher than the MCLs. Narrative standards are therefore met.
4. Pursuant to [SECTION 3.11/4.11] of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):****Line of Evidence (LOE) for Decision ID 4834, Total Dissolved Solids  
Murray Reservoir****Region 9**

LOE ID:	996
Pollutant:	Total Dissolved Solids
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	8
Number of Exceedances:	5
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 1998. Five of 8 samples (1 of 2 averages) were in exceedance. At the October 25th Water Board meeting, comments were received concerning total dissolved solids in terminal reservoirs in the San Diego region. The Board concluded that it was inappropriate to list these water bodies based on secondary MCLs when the TDS values of the incoming supplying waters were higher than the MCLs. Narrative standards are therefore met.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for TDS is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir sites 2a and 2b.
Temporal Representation:	Samples were collected on 01/29/1998 and 02/04/1998 3-5 times within 5 minutes.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4834, Total Dissolved Solids  
Murray Reservoir****Region 9**

LOE ID:	995
Pollutant:	Total Dissolved Solids

LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	20
Number of Exceedances:	14
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 09/1997 to 02/1998. Fourteen of 20 samples were in exceedance. Samples collected on 09/18/1997, 12/10/1997, and 02/04/1998 were in exceedance and those collected on other days were not. At the October 25th Water Board meeting, comments were received concerning total dissolved solids in terminal reservoirs in the San Diego region. The Board concluded that it was inappropriate to list these water bodies based on secondary MCLs when the TDS values of the incoming supplying waters were higher than the MCLs. Narrative standards are therefore met.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for TDS is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected in the Murray Watershed, drainage MURDS, station MUR8b.
Temporal Representation:	Samples were collected on 09/18/1997 from 12:50 to 13:46pm and on 09/25/1997 at 13:17 and 13:18pm. Samples were also collected 3-6 times within 10 minutes on 12/10/1997, 01/29/1998, and 02/04/1998.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

#### Line of Evidence (LOE) for Decision ID 4834, Total Dissolved Solids

Region 9

#### Murray Reservoir

LOE ID:	994
Pollutant:	Total Dissolved Solids
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	2

Number of Exceedances:	2
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 03/1997 and 05/1997. Ten of 10 samples were in exceedance. Two of 2 averages were in exceedance (where averages were calculated for all samples collected each day. For 2 sampling days, 1 average was calculated for each day). At the October 25th Water Board meeting, comments were received concerning total dissolved solids in terminal reservoirs in the San Diego region. The Board concluded that it was inappropriate to list these water bodies based on secondary MCLs when the TDS values of the incoming supplying waters were higher than the MCLs. Narrative standards are therefore met.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for TDS is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected in the Murray watershed, drainage MURDS, station MUR7.
Temporal Representation:	Samples were collected on 03/12/1997 at 14:47 and 14:48pm and 05/28/1997 at 8:41-8:48am.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4834, Total Dissolved Solids****Region 9****Murray Reservoir**

LOE ID:	988
Pollutant:	Total Dissolved Solids
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	7
Number of Exceedances:	3
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1998 to 2000. Three of 7 samples were in exceedance. At the October 25th Water Board meeting, comments were received concerning total dissolved solids in terminal reservoirs in the San Diego region. The Board concluded that it was inappropriate to list these water bodies based on secondary MCLs when the TDS values of the incoming supplying waters were higher than the MCLs. Narrative standards are therefore met.

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for TDS is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir site MUA-0.  
Temporal Representation: Samples were collected 1-4 times per year from 09/1998 to 12/2000.  
Environmental Conditions:  
QAPP Information: Data used in 2002 assessment.  
QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 4834, Total Dissolved Solids  
Murray Reservoir**

**Region 9**

LOE ID: 992

Pollutant: Total Dissolved Solids  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: Total Dissolved

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 9  
Number of Exceedances: 9

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. in 03/1997 and 05/1997. Nine of 9 samples were in exceedance. Two of 2 averages were in exceedance (when averages are calculated for each the samples collected on each sampling day). At the October 25th Water Board meeting, comments were received concerning total dissolved solids in terminal reservoirs in the San Diego region. The Board concluded that it was inappropriate to list these water bodies based on secondary MCLs when the TDS values of the incoming supplying waters were higher than the MCLs. Narrative standards are therefore met.

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for TDS is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation:	Samples were collected in the Murray Watershed, drainage MURDS, station MUR4A.
Temporal Representation:	Samples were collected on 03/12/1997 at 13:54 and 13:55 and on 05/28/1997 from 8:03am to 8:08am.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4834, Total Dissolved Solids  
Murray Reservoir**

**Region 9**

LOE ID:	993
Pollutant:	Total Dissolved Solids
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	6
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 09/1997 and 01/1998. None of the 6 samples were in exceedance. At the October 25th Water Board meeting, comments were received concerning total dissolved solids in terminal reservoirs in the San Diego region. The Board concluded that it was inappropriate to list these water bodies based on secondary MCLs when the TDS values of the incoming supplying waters were higher than the MCLs. Narrative standards are therefore met.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for TDS is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected in the Murray watershed, drainage MURDS, station MUR5B.
Temporal Representation:	Samples were collected on 09/25/1997 at 12:58 pm and 01/29/1998 at 15:13-15:16pm.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4834, Total Dissolved Solids  
Murray Reservoir**

**Region 9**

LOE ID: 989

Pollutant: Total Dissolved Solids  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total Dissolved

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 3  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept in 09/1997. None of the 3 samples were in exceedance. At the October 25th Water Board meeting, comments were received concerning total dissolved solids in terminal reservoirs in the San Diego region. The Board concluded that it was inappropriate to list these water bodies based on secondary MCLs when the TDS values of the incoming supplying waters were higher than the MCLs. Narrative standards are therefore met.

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for TDS is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected in the Murray Watershed, MURDS drainage, station MBP5.  
 Temporal Representation: Samples were collected on 09/25/1997 at 13:41.  
 Environmental Conditions:  
 QAPP Information: QA Info Missing  
 QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 4834, Total Dissolved Solids  
 Murray Reservoir**

**Region 9**

LOE ID: 990

Pollutant: Total Dissolved Solids  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total Dissolved

Beneficial Use: Municipal & Domestic Supply



Number of Samples:	6
Number of Exceedances:	6
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 05/1997. Six of 6 samples were in exceedance. At the October 25th Water Board meeting, comments were received concerning total dissolved solids in terminal reservoirs in the San Diego region. The Board concluded that it was inappropriate to list these water bodies based on secondary MCLs when the TDS values of the incoming supplying waters were higher than the MCLs. Narrative standards are therefore met.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for TDS is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at the Murray watershed, drainage MURDS, station MUR1A.
Temporal Representation:	Samples were collected on 05/28/1997 from 7:35am to 7:42am.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4834, Total Dissolved Solids**  
**Murray Reservoir**

**Region 9**

LOE ID:	991
Pollutant:	Total Dissolved Solids
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total Dissolved
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	3
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 09/1997. None of the 3 samples were in exceedance. At the October 25th Water Board meeting, comments were received concerning total dissolved solids in terminal reservoirs in the San Diego region. The Board concluded that it was inappropriate to list these water bodies based on secondary MCLs when the TDS values of the incoming supplying waters were higher than the MCLs. Narrative standards are therefore met.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for TDS is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected in the Murray watershed, drainage MURDS, station MUR1B.  
Temporal Representation: Samples were collected on 09/25/1997 at 12:28pm.  
Environmental Conditions:  
QAPP Information: QA Info Missing  
QAPP Information Reference(s):

**DECISION ID****6073****Region 9****Murray Reservoir**

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Toxaphene**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)  
  
Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 11 samples exceed the Basin Plan water quality objective for toxaphene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 11 samples exceed the Basin Plan water quality objective for toxaphene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 6073, Toxaphene**

**Region 9**

**Murray Reservoir**

LOE ID:	1064
Pollutant:	Toxaphene
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	11
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 11 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Toxaphene is 0.003 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A.
Temporal Representation:	Samples were collected on a quarterly basis from 03/1997 to 08/1998. One sample was collected in 12/1999, 1 in 02/2000, and 2 in 2001 (one in February and one in May).
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**

**5564**

**Region 9**

**Murray Reservoir**

**Pollutant:**

**Trichloroethylene/TCE**

**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Do Not List on 303(d) list (TMDL required list)**  
 Do Not List on 303(d) list (TMDL required list)(2006)

Original  
 Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for trichloroethylene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for trichloroethylene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5564, Trichloroethylene/TCE  
 Murray Reservoir**

**Region 9**

LOE ID:	1032
Pollutant:	Trichloroethylene/TCE
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18

Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Trichloroethylene is 0.005 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/07/1997 to 08/07/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

5565

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Trichlorofluoromethane (CFC-11)**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)

Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for trichlorofluoromethane.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for trichlorofluoromethane and this does not

exceed the allowable frequency listed in Table 3.1 of the Listing Policy.

4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5565, Trichlorofluoromethane (CFC-11)**

**Region 9**

**Murray Reservoir**

LOE ID:	1033
Pollutant:	Trichlorofluoromethane (CFC-11)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Trichlorofluoromethane is 0.15 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/07/1997 to 08/07/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

**4835**

**Region 9**

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Turbidity**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)

Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.2 of the Listing Policy. Under section 3.2 a single line of evidence is necessary to assess listing status.

Four lines of evidence are available in the administrative record to assess this pollutant. None of the 385 samples exceed the Basin Plan water quality objective for turbidity.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 385 samples exceed the Basin Plan water quality objective for turbidity and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4835, Turbidity**  
**Murray Reservoir**

**Region 9**

LOE ID: 1000

Pollutant: Turbidity  
LOE Subgroup: Pollutant-Water  
Matrix: Water

Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	122
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 122 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Turbidity is 5 ntu.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-GA62.
Temporal Representation:	Samples were collected from 01/1996 to 12/2000. Two to 5 samples were collected per month from 01/1996-12/1996. One sample was collected monthly in 1997 and 1998. One sample was collected per sampling month for 6 months in 1999. Two to 5 samples were collected per month from 01/2000 to 12/2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4835, Turbidity**  
**Murray Reservoir**

**Region 9**

LOE ID:	999
Pollutant:	Turbidity
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	122
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 122 samples were in exceedance. (SWRCB, 2003).



Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Turbidity is 5 ntu.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-GA49.
Temporal Representation:	Samples were collected from 01/1996 to 12/2000. Two to 5 samples were collected per month from 01/1996-12/1996. One sample was collected monthly in 1997 and 1998. One sample was collected per sampling month for 6 months in 1999. Two to 5 samples were collected per month from 01/2000 to 12/2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4835, Turbidity**  
**Murray Reservoir**

**Region 9**

LOE ID:	998
Pollutant:	Turbidity
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Turbidity is 5 ntu.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.

Temporal Representation: Samples were collected 2-4 times per year from 03/1996 to 12/2000.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**Line of Evidence (LOE) for Decision ID 4835, Turbidity  
 Murray Reservoir**

**Region 9**

LOE ID: 1001

Pollutant: Turbidity  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 123  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1996 to 2000. None of the 123 samples were in exceedance. (SWRCB, 2003).

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Turbidity is 5 ntu.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
 Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir site MUA-GA75.  
 Temporal Representation: Samples were collected from 01/1996 to 12/2000. Two to 5 samples were collected per month from 01/1996-12/1996. One sample was collected monthly in 1997 and 1998. One sample was collected per sampling month for 6 months in 1999. Two to 5 samples were collected per month from 01/2000 to 12/2000.

Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID 4836  
 Murray Reservoir**

**Region 9**

**Pollutant:** Uranium  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status:** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 3 samples exceed the Basin Plan water quality objective for uranium.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 3 samples exceed the Basin Plan water quality objective for uranium and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 4836, Uranium**  
**Murray Reservoir**

**Region 9**

LOE ID: 1002  
 Pollutant: Uranium  
 LOE Subgroup: Pollutant-Water  
 Matrix: Water  
 Fraction: Total  
 Beneficial Use: Municipal & Domestic Supply

Number of Samples: 3  
 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
 Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. in 1998. None of the 3 samples were in exceedance. (SWRCB, 2003).

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Uranium is 20 pCi/L.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:

Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir site MUA-0.  
 Temporal Representation: Samples were collected once each in 1998 in April, July, and October.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

#### DECISION ID

5578

Region 9

#### Murray Reservoir

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**Vinyl chloride**  
**Do Not List on 303(d) list (TMDL required list)**  
 Do Not List on 303(d) list (TMDL required list)(2006)  
 Original  
 Pollutant

#### Conclusion:

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for vinyl chloride.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.

3. None of the 18 samples exceed the Basin Plan water quality objective for vinyl chloride and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.

4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

#### **Line of Evidence (LOE) for Decision ID 5578, Vinyl chloride**

**Region 9**

##### **Murray Reservoir**

LOE ID: 1034

Pollutant: Vinyl chloride  
LOE Subgroup: Pollutant-Water  
Matrix: Water  
Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 18  
Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING  
Data Used to Assess Water Quality: Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. (SWRCB, 2003).

Data Reference: [Placeholder reference 2006 303\(d\)](#)

Water Quality Objective/Criterion: From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Vinyl Chloride is 0.0005 mg/L.

Objective/Criterion Reference: [Placeholder reference 2006 303\(d\)](#)

Evaluation Guideline:  
Guideline Reference:

Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
Temporal Representation: Samples were collected on a quarterly basis from 01/07/1997 to 08/07/2001.

Environmental Conditions:  
QAPP Information: Data used in 2002 assessment.

QAPP Information Reference(s):

<b>DECISION ID</b>	<b>4660</b>	<b>Region 9</b>
<b>Murray Reservoir</b>		
<b>Pollutant:</b>	<b>Zinc</b>	
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>	
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)	
<b>Revision Status</b>	Original	
<b>Impairment from Pollutant or Pollution:</b>	Pollutant	
<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.</p> <p>One line of evidence is available in the administrative record to assess this pollutant. None of the three samples exceed the Basin Plan water quality objective for zinc.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p> <p>This conclusion is based on the staff findings that:</p> <ol style="list-style-type: none"> <li>1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.</li> <li>2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.</li> <li>3. None of the three samples exceed the Basin Plan water quality objective for zinc and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.</li> <li>4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.</li> </ol>	
<b>RWQCB Board Staff Decision:</b>	No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.	
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.	
<b>USEPA Action (if applicable):</b>		

<b>Line of Evidence (LOE) for Decision ID 4660, Zinc</b>	<b>Region 9</b>
<b>Murray Reservoir</b>	
<b>LOE ID:</b>	1003
<b>Pollutant:</b>	Zinc
<b>LOE Subgroup:</b>	Pollutant-Water

Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	3
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 1998. None of the 3 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for Zinc is 5.0 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	Samples were collected once each in April, July, and October 1998.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**  
**Murray Reservoir**

5579

Region 9

**Pollutant:**  
**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Impairment from Pollutant or Pollution:**

**meta-para xylenes**  
**Do Not List on 303(d) list (TMDL required list)**  
Do Not List on 303(d) list (TMDL required list)(2006)

Original  
Pollutant

**Conclusion:**

This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for xylenes.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited

Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for xylenes and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:**

No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:**

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5579, meta-para xylenes**

**Region 9**

**Murray Reservoir**

LOE ID:	1035
Pollutant:	meta-para xylenes
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. No sums of isomers (where isomers were measured on the same day) were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for xylenes is 1.750 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	MCL is for either a single isomer or the sum of the isomers. Incorporations by reference are prospective including future changes to the incorporated provisions as the changes take effect.
Guideline Reference:	<a href="#">Placeholder reference 2006 303(d)</a>



Spatial Representation: Samples were collected at Murray Reservoir station A at the surface.  
 Temporal Representation: Samples were collected on a quarterly basis from 01/07/1997 to 08/07/2001.  
 Environmental Conditions:  
 QAPP Information: Data used in 2002 assessment.  
 QAPP Information Reference(s):

**DECISION ID** 5594 **Region 9**  
**Murray Reservoir**

**Pollutant:** o-Dichlorobenzene  
**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)  
**Last Listing Cycle's Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)(2006)  
**Revision Status** Original  
**Impairment from Pollutant or Pollution:** Pollutant

**Conclusion:** This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.

One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for o-dichlorobenzene.

Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. None of the 18 samples exceed the Basin Plan water quality objective for o-dichlorobenzene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5594, o-Dichlorobenzene  
Murray Reservoir**

**Region 9**

LOE ID:	1020
Pollutant:	o-Dichlorobenzene
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2000. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for o-Dichlorobenzene is 0.6 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/1997 to 08/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID**

**6070**

**Region 9**

**Murray Reservoir**

<b>Pollutant:</b>	<b>o-Xylene</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Impairment from Pollutant or Pollution:</b>	Pollutant

<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.</p> <p>One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for xylenes.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p> <p>This conclusion is based on the staff findings that:</p> <ol style="list-style-type: none"> <li>1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.</li> <li>2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.</li> <li>3. None of the 18 samples exceed the Basin Plan water quality objective for xylenes and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.</li> <li>4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.</li> </ol>
<b>RWQCB Board Staff Decision:</b>	No new data were assessed for 2008. The Regional Board will update this decision when new data and information become available and are assessed.
<b>SWRCB Board Staff Decision:</b>	After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.
<b>USEPA Action (if applicable):</b>	

**Line of Evidence (LOE) for Decision ID 6070, o-Xylene****Region 9****Murray Reservoir**

LOE ID:	1028
Pollutant:	o-Xylene
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2001. None of the 18 samples were in exceedance. There were no exceedances where isomer concentrations were summed (where samples for m, p, o-xylenes were collected on the same day). (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>

Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for xylenes is 1.750 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	MCL is for either a single isomer or the sum of the isomers. Incorporations by reference are prospective including future changes to the incorporated provisions as the changes take effect.
Guideline Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/1997 to 08/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID****5745****Region 9****Murray Reservoir**

<b>Pollutant:</b>	<b>p-Dichlorobenzene (DCB)</b>
<b>Final Listing Decision:</b>	<b>Do Not List on 303(d) list (TMDL required list)</b>
<b>Last Listing Cycle's Final Listing Decision:</b>	Do Not List on 303(d) list (TMDL required list)(2006)
<b>Revision Status</b>	Original
<b>Impairment from Pollutant or Pollution:</b>	Pollutant

<b>Conclusion:</b>	<p>This pollutant is being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status.</p> <p>One line of evidence is available in the administrative record to assess this pollutant. None of the 18 samples exceed the Basin Plan water quality objective for p-dichlorobenzene.</p> <p>Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.</p> <p>This conclusion is based on the staff findings that:</p> <ol style="list-style-type: none"> <li>1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.</li> <li>2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.</li> <li>3. None of the 18 samples exceed the Basin Plan water quality objective for p-dichlorobenzene and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy.</li> <li>4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.</li> </ol>
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<b>RWQCB Board Staff Decision:</b>	No new data were assessed for 2008. The Regional Board will update this decision when new data and information
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become available and are assessed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):**

**Line of Evidence (LOE) for Decision ID 5745, p-Dichlorobenzene (DCB)  
Murray Reservoir**

**Region 9**

LOE ID:	1023
Pollutant:	p-Dichlorobenzene (DCB)
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	18
Number of Exceedances:	0
Data and Information Type:	Not Specified
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1997 to 2000. None of the 18 samples were in exceedance. (SWRCB, 2003).
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters with a municipal beneficial use, the WQO for p-Dichlorobenzene is 0.005 mg/L.
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir station A at the surface.
Temporal Representation:	Samples were collected on a quarterly basis from 01/1997 to 08/2001.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**DECISION ID** 4608  
**Murray Reservoir**

**Region 9**

**Pollutant:** pH

**Final Listing Decision:**  
**Last Listing Cycle's Final Listing Decision:**  
**Revision Status**  
**Sources:**  
**Expected TMDL Completion Date:**  
**Impairment from Pollutant or Pollution:**

**List on 303(d) list (TMDL required list)**  
 List on 303(d) list (TMDL required list)(2006)  
 Original  
 Source Unknown  
 2019  
 Pollutant

**Conclusion:** Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category.

This conclusion is based on the staff findings that:

1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy.
2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy.
3. Fourteen of 78 samples exceeded the Basin Plan criteria, and these exceed the allowable frequency listed in Table 3.2 of the Listing Policy.
4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff Decision:** No new data were assessed for 2008. The decision has not changed.

**SWRCB Board Staff Decision:** After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if applicable):** USEPA approved the listing of this water body as a water quality limited segment requiring a TMDL for this pollutant.

**Line of Evidence (LOE) for Decision ID 4608, pH  
 Murray Reservoir**

**Region 9**

LOE ID:	983
Pollutant:	pH
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	25
Number of Exceedances:	10
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 09/1997 to 02/1998. Ten of 25 samples

Data Reference:	were in exceedance. The samples collected in 09/18/1997 and in 01/1998 were in exceedance, but those collected on all other days met standards. <a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (maximum) to 8.5 (minimum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected in Murray Watershed, drainage MURDS, station MUR8b.
Temporal Representation:	Samples were collected on 09/18/1997 and 09/25/1997. Samples were also collected on 12/10/1997, 01/29/1998, and 02/04/1998.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4608, pH  
Murray Reservoir**

**Region 9**

LOE ID:	984
Pollutant:	pH
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	8
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 1998. None of the 8 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (maximum) to 8.5 (minimum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir stations 2a and 2b.

Temporal Representation:	Samples were collected on 01/29/1998 and on 02/04/1998. On each day, 3-5 samples were collected within 5 minutes.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4608, pH****Region 9****Murray Reservoir**

LOE ID:	981
Pollutant:	pH
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	6
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. on 09/25/1997 and 01/29/1998. None of the 6 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (maximum) to 8.5 (minimum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected in the Murray Watershed, drainage MURDS, station MUR5B.
Temporal Representation:	Samples were collected on 09/25/1997 at 12:58pm and on 01/29/1998 from 15:13-15:16pm.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4608, pH****Region 9****Murray Reservoir**

LOE ID:	980
Pollutant:	pH



LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	9
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 03/1997 and 05/1997. None of the 9 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (maximum) to 8.5 (minimum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected in the Murray Watershed, drainage MURDS, station MUR4A.
Temporal Representation:	Samples were collected on 03/12/1997 at 13:54 and 13:55 and 05/28/1997 from 8:03am to 8:08am.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4608, pH  
Murray Reservoir**

**Region 9**

LOE ID:	979
Pollutant:	pH
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	3
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 09/1997. None of the 3 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>

Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (maximum) to 8.5 (minimum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at the Murray watershed, drainage MURDS, station MUR1B.
Temporal Representation:	Samples were collected on 09/26/1997 at 12:28pm.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4608, pH  
Murray Reservoir**

**Region 9**

LOE ID:	978
Pollutant:	pH
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	6
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 05/1997. None of the 6 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (maximum) to 8.5 (minimum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray watershed, drainage MURDS, station MUR1A.
Temporal Representation:	Samples were collected on 05/28/1997 from 07:35am to 07:42am.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4608, pH  
Murray Reservoir**

**Region 9**

LOE ID:	977
Pollutant:	pH
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	3
Number of Exceedances:	0
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 09/1997. None of the 3 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (maximum) to 8.5 (minimum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray watershed, drainage MURDS, station MBP5.
Temporal Representation:	Samples were collected on 09/25/1997 at 13:41.
Environmental Conditions:	
QAPP Information:	QA Info Missing
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4608, pH  
Murray Reservoir**

**Region 9**

LOE ID:	976
Pollutant:	pH
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply

Number of Samples:	18
Number of Exceedances:	1
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. from 1996 to 2000. One of 18 samples was in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (maximum) to 8.5 (minimum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Evaluation Guideline:	
Guideline Reference:	
Spatial Representation:	Samples were collected at Murray Reservoir site MUA-0.
Temporal Representation:	Samples were collected 2-4 times per year from 03/1996 to 12/2000.
Environmental Conditions:	
QAPP Information:	Data used in 2002 assessment.
QAPP Information Reference(s):	

**Line of Evidence (LOE) for Decision ID 4608, pH  
Murray Reservoir**

**Region 9**

LOE ID:	982
Pollutant:	pH
LOE Subgroup:	Pollutant-Water
Matrix:	Water
Fraction:	Total
Beneficial Use:	Municipal & Domestic Supply
Number of Samples:	10
Number of Exceedances:	3
Data and Information Type:	PHYSICAL/CHEMICAL MONITORING
Data Used to Assess Water Quality:	Data were collected by the City of San Diego Water Dept. in 03/1997 and 05/1997. Three of 10 samples were in exceedance.
Data Reference:	<a href="#">Placeholder reference 2006 303(d)</a>
Water Quality Objective/Criterion:	From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for pH is 6.5 (maximum) to 8.5 (minimum).
Objective/Criterion Reference:	<a href="#">Placeholder reference 2006 303(d)</a>

Evaluation Guideline:  
Guideline Reference:

Spatial Representation:  
Temporal Representation:  
Environmental Conditions:  
QAPP Information:  
QAPP Information Reference(s):

Samples were collected in the Murray Watershed, drainage MURDS, station MUR7.  
Samples were collected on 03/12/1997 at 14:47 and 14:48pm and on 05/28/1997 at 8:41-8:48pm.  
QA Info Missing

Appendix B

Form DS-560



City of San Diego  
Development Services  
1222 First Ave., MS-302  
San Diego, CA 92101  
(619) 446-5000

THE CITY OF SAN DIEGO

# Storm Water Requirements Applicability Checklist

FORM  
**DS-560**  
FEBRUARY 2016

Project Address:

Project Number *(for City Use Only)*:

## SECTION 1. Construction Storm Water BMP Requirements:

All construction sites are required to implement construction BMPs in accordance with the performance standards in the [Storm Water Standards Manual](#). Some sites are additionally required to obtain coverage under the State Construction General Permit (CGP)<sup>1</sup>, which is administered by the State Water Resources Control Board.

**For all project complete PART A: If project is required to submit a SWPPP or WPCP, continue to PART B.**

### PART A: Determine Construction Phase Storm Water Requirements.

1. Is the project subject to California's statewide General NPDES permit for Storm Water Discharges Associated with Construction Activities, also known as the State Construction General Permit (CGP)? (Typically projects with land disturbance greater than or equal to 1 acre.)  
  
☒ Yes; SWPPP required, skip questions 2-4      ☐ No; next question
2. Does the project propose construction or demolition activity, including but not limited to, clearing, grading, grubbing, excavation, or any other activity that results in ground disturbance and contact with storm water runoff?  
  
☐ Yes; WPCP required, skip 3-4      ☐ No; next question
3. Does the project propose routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility? (Projects such as pipeline/utility replacement)  
  
☐ Yes; WPCP required, skip 4      ☐ No; next question
4. Does the project only include the following Permit types listed below?
  - Electrical Permit, Fire Alarm Permit, Fire Sprinkler Permit, Plumbing Permit, Sign Permit, Mechanical Permit, Spa Permit.
  - Individual Right of Way Permits that exclusively include only ONE of the following activities: water service, sewer lateral, or utility service.
  - Right of Way Permits with a project footprint less than 150 linear feet that exclusively include only ONE of the following activities: curb ramp, sidewalk and driveway apron replacement, pot holing, curb and gutter replacement, and retaining wall encroachments.

☐ Yes; no document required

Check one of the boxes to the right, and continue to PART B:

- ☐ If you checked "Yes" for question 1,  
**a SWPPP is REQUIRED. Continue to PART B**
- ☐ If you checked "No" for question 1, and checked "Yes" for question 2 or 3,  
**a WPCP is REQUIRED.** If the project proposes less than 5,000 square feet of ground disturbance AND has less than a 5-foot elevation change over the entire project area, a Minor WPCP may be required instead. **Continue to PART B.**
- ☐ If you checked "No" for all questions 1-3, and checked "Yes" for question 4  
**PART B does not apply and no document is required. Continue to Section 2.**

1. More information on the City's construction BMP requirements as well as CGP requirements can be found at:  
[www.sandiego.gov/stormwater/regulations/index.shtml](http://www.sandiego.gov/stormwater/regulations/index.shtml)

**PART B: Determine Construction Site Priorit**

This prioritization must be completed within this form, noted on the plans, and included in the SWPPP or WPCP. The city reserves the right to adjust the priority of projects both before and after construction. Construction projects are assigned an inspection frequency based on if the project has a “high threat to water quality.” The City has aligned the local definition of “high threat to water quality” to the risk determination approach of the State Construction General Permit (CGP). The CGP determines risk level based on project specific sediment risk and receiving water risk. Additional inspection is required for projects within the Areas of Special Biological Significance (ASBS) watershed. **NOTE:** The construction priority does **NOT** change construction BMP requirements that apply to projects; rather, it determines the frequency of inspections that will be conducted by city staff.

**Complete PART B and continued to Section 2**

1. ☐ **ASBS**  
a. Projects located in the ASBS watershed.
2. ☒ **High Priority**  
a. Projects 1 acre or more determined to be Risk Level 2 or Risk Level 3 per the Construction General Permit and not located in the ASBS watershed.  
b. Projects 1 acre or more determined to be LUP Type 2 or LUP Type 3 per the Construction General Permit and not located in the ASBS watershed.
3. ☐ **Medium Priority**  
a. Projects 1 acre or more but not subject to an ASBS or high priority designation.  
b. Projects determined to be Risk Level 1 or LUP Type 1 per the Construction General Permit and not located in the ASBS watershed.
4. ☐ **Low Priority**  
a. Projects requiring a Water Pollution Control Plan but not subject to ASBS, high, or medium priority designation.

**SECTION 2. Permanent Storm Water BMP Requirements.**

Additional information for determining the requirements is found in the [Storm Water Standards Manual](#).

**PART C: Determine if Not Subject to Permanent Storm Water Requirements.**

Projects that are considered maintenance, or otherwise not categorized as “new development projects” or “redevelopment projects” according to the [Storm Water Standards Manual](#) are not subject to Permanent Storm Water BMPs.

**If “yes” is checked for any number in Part C, proceed to Part F and check “Not Subject to Permanent Storm Water BMP Requirements”.**

**If “no” is checked for all of the numbers in Part C continue to Part D.**

1. Does the project only include interior remodels and/or is the project entirely within an existing enclosed structure and does not have the potential to contact storm water? ☐ Yes ☒ No
2. Does the project only include the construction of overhead or underground utilities without creating new impervious surfaces? ☐ Yes ☒ No
3. Does the project fall under routine maintenance? Examples include, but are not limited to: roof or exterior structure surface replacement, resurfacing or reconfiguring surface parking lots or existing roadways without expanding the impervious footprint, and routine replacement of damaged pavement (grinding, overlay, and pothole repair). ☐ Yes ☒ No



**PART D: PDP Exempt Requirements.**

**PDP Exempt projects are required to implement site design and source control BMPs.**

**If “yes” was checked for any questions in Part D, continue to Part F and check the box labeled “PDP Exempt.”**

**If “no” was checked for all questions in Part D, continue to Part E.**

1. Does the project ONLY include new or retrofit sidewalks, bicycle lanes, or trails that:
  - Are designed and constructed to direct storm water runoff to adjacent vegetated areas, or other non-erodible permeable areas? Or;
  - Are designed and constructed to be hydraulically disconnected from paved streets and roads? Or;
  - Are designed and constructed with permeable pavements or surfaces in accordance with the Green Streets guidance in the City’s Storm Water Standards manual?

☐ Yes; PDP exempt requirements apply      ☒ No; next question
2. Does the project ONLY include retrofitting or redeveloping existing paved alleys, streets or roads designed and constructed in accordance with the Green Streets guidance in the [City’s Storm Water Standards Manual](#)?
 

☐ Yes; PDP exempt requirements apply      ☒ No; project not exempt. PDP requirements apply

**PART E: Determine if Project is a Priority Development Project (PDP).**

Projects that match one of the definitions below are subject to additional requirements including preparation of a Storm Water Quality Management Plan (SWQMP).

**If “yes” is checked for any number in PART E, continue to PART F.**

**If “no” is checked for every number in PART E, continue to PART F and check the box labeled “Standard Development Project”.**

1. **New Development that creates 10,000 square feet or more of impervious surfaces collectively over the project site.** This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land. ☐ Yes ☒ No
2. **Redevelopment project that creates and/or replaces 5,000 square feet or more of impervious surfaces on an existing site of 10,000 square feet or more of impervious surfaces.** This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land. ☐ Yes ☒ No
3. **New development or redevelopment of a restaurant.** Facilities that sell prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption (SIC 5812), and where the land development creates and/or replace 5,000 square feet or more of impervious surface. ☐ Yes ☒ No
4. **New development or redevelopment on a hillside.** The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site) and where the development will grade on any natural slope that is twenty-five percent or greater. ☐ Yes ☒ No
5. **New development or redevelopment of a parking lot that creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site).** ☒ Yes ☐ No
6. **New development or redevelopment of streets, roads, highways, freeways, and driveways.** The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site). ☐ Yes ☒ No

7. **New development or redevelopment discharging directly to an Environmentally Sensitive Area.** The project creates and/or replaces 2,500 square feet of impervious surface (collectively over project site), and discharges directly to an Environmentally Sensitive Area (ESA). "Discharging directly to" includes flow that is conveyed overland a distance of 200 feet or less from the project to the ESA, or conveyed in a pipe or open channel any distance as an isolated flow from the project to the ESA (i.e. not commingled with flows from adjacent lands). ☐ Yes ☒ No
8. **New development or redevelopment projects of a retail gasoline outlet (RGO) that create and/or replaces 5,000 square feet of impervious surface.** The development project meets the following criteria: (a) 5,000 square feet or more or (b) has a projected Average Daily Traffic (ADT) of 100 or more vehicles per day. ☐ Yes ☒ No
9. **New development or redevelopment projects of an automotive repair shops that creates and/or replaces 5,000 square feet or more of impervious surfaces.** Development projects categorized in any one of Standard Industrial Classification (SIC) codes 5013, 5014, 5541, 7532-7534, or 7536-7539. ☐ Yes ☒ No
10. **Other Pollutant Generating Project.** The project is not covered in the categories above, results in the disturbance of one or more acres of land and is expected to generate pollutants post construction, such as fertilizers and pesticides. This does not include projects creating less than 5,000 sf of impervious surface and where added landscaping does not require regular use of pesticides and fertilizers, such as slope stabilization using native plants. Calculation of the square footage of impervious surface need not include linear pathways that are for infrequent vehicle use, such as emergency maintenance access or bicycle pedestrian use, if they are built with pervious surfaces of if they sheet flow to surrounding pervious surfaces. ☐ Yes ☒ No

**PART F: Select the appropriate category based on the outcomes of PART C through PART E.**

1. The project is **NOT SUBJECT TO STORM WATER REQUIREMENTS.** ☐
2. The project is a **STANDARD DEVELOPMENT PROJECT.** Site design and source control BMP requirements apply. See the [Storm Water Standards Manual](#) for guidance. ☐
3. The project is **PDP EXEMPT.** Site design and source control BMP requirements apply. See the [Storm Water Standards Manual](#) for guidance. ☐
4. The project is a **PRIORITY DEVELOPMENT PROJECT.** Site design, source control, and structural pollutant control BMP requirements apply. See the [Storm Water Standards Manual](#) for guidance on determining if project requires a hydromodification plan management ☒

Name of Owner or Agent *(Please Print)*:

Title:

Signature:

Date:

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