

Region 8

Water Segment:	Anaheim Bay
Pollutant:	Antimony, Arsenic, Cadmium, Chromium (total), Lead, Mercury, Silver, Zinc
Decision:	Do Not List
Weight of Evidence:	<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 two lines of evidence are necessary to assess listing status. One line of evidence documents toxicity and the other line of evidence associates the observed toxicity with a pollutant or pollutants</p> <p>Two lines of evidence are available in the administrative record to assess this pollutant. Toxicity is observed but none of the samples exceeded the water quality guideline.</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">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 61 samples exceeded the sediment quality guidelines (dry weight) for the following metals: 112.2 ug/g lead, 4.21 ug/g cadmium, 1.77 ug/g silver PELs (MacDonald et al., 1996) ; and 25 ug/g antimony, 370 ug/g chromium (total), 270 ug/g copper, 410 ug/g zinc ERMs (Long et al., 1995). These metals do 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.
SWRCB Staff Recommendation:	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 for the pollutant are not exceeded.

Lines of Evidence:

<i>Numeric Line of Evidence</i>	Pollutant-Sediment
<i>Beneficial Use:</i>	MA - Marine Habitat
<i>Matrix:</i>	Sediment
<i>Water Quality Objective/ Water Quality Criterion:</i>	The concentration of toxic substance in the water column, sediments or biota shall not adversely affect beneficial uses.
<i>Evaluation Guideline:</i>	Sediment Quality Guidelines (dry weight) were used for the following metals: PELs (MacDonald et al, 1996) - 112.2 ug/g lead, 4.21 ug/g

	cadmium, 1.77 ug/g silver; ERM's (Long et al., 1995) - 25 ug/g antimony, 370 ug/g chromium (total), 270 ug/g copper, 410 ug/g zinc; and 1.77 ug/g silver.
<i>Data Used to Assess Water Quality:</i>	None of the 63 samples exceeded the sediment quality guidelines for antimony, arsenic, cadmium, total chromium, copper, mercury, lead, mercury, silver, and zinc. Concentrations of the metals in sediment (dry weight) met standards. (Santa Ana RWQCB, 2003b).
<i>Spatial Representation:</i>	Samples were collected at stations 1 through 35 in Anaheim Bay.
<i>Temporal Representation:</i>	Samples were collected on 08/25/2001 and 04/14/2003.
<i>Data Quality Assessment:</i>	SARWQCB followed the Bight 1998 QAPP developed by SCCWRP.
<i>QA/QC Equivalent:</i>	Quality control data was presented.
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<i>Numeric Line of Evidence</i>	Toxicity
<i>Beneficial Use:</i>	MA - Marine Habitat
<i>Matrix:</i>	Sediment
<i>Water Quality Objective/ Water Quality Criterion:</i>	Basin Plan Narrative Water Quality Objective: The concentrations of toxic substances in the water column, sediments or biota shall not adversely affect beneficial uses.
<i>Data Used to Assess Water Quality:</i>	Nineteen of 59 samples exceeded the 90 percent of the minimum significant difference for test species Eohaustorius estuarius. Two of 29 samples exhibited toxicity in the dry season (8/25/01), and 17 of 30 exhibited toxicity in the wet season (4/14/03) (Santa Ana RWQCB, 2003a).
<i>Spatial Representation:</i>	The data shows data collected at 33 stations (no data were included for stations 22 and 26.)
<i>Temporal Representation:</i>	Data were collected on 8/25/01 and 4/14/2003.
<i>Environmental Conditions:</i>	Samples were collected during dry (8/25/01) and wet (4/14/03) seasons.
<i>Data Quality Assessment:</i>	SARWQCB followed the Bight 1998 QAPP developed by SCCWRP.
<i>QA/QC Equivalent:</i>	Quality control data was presented.
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