

2002 CWA SECTION 303(d) LIST OF WATER QUALITY LIMITED SEGMENTS

October 15, 2002

DRAFT

REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Alameda Creek	20430051	Diazinon <i>This listing was made by USEPA.</i>		High	51 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Alamitos Creek	20540041	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>		Medium	7.1 Miles	
Mine Tailings								
2	R	Arroyo Corte Madera Del Presidio	20320020	Diazinon <i>This listing was made by USEPA.</i>		High	4 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Arroyo De La Laguna	20430084	Diazinon <i>This listing was made by USEPA.</i>		High	7.4 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Arroyo Del Valle	20430023	Diazinon <i>This listing was made by USEPA.</i>		High	31 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Arroyo Las Positas	20430080	Diazinon		High	14 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Arroyo Mocho	20430080	Diazinon		High	34 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Butano Creek	20240031	Sedimentation/Siltation <i>Impairment to steelhead habitat.</i>		Medium	3.6 Miles	
Nonpoint Source								
2	R	Calabazas Creek	20640012	Diazinon <i>This listing was made by USEPA.</i>		High	4.7 Miles	2004
Urban Runoff/Storm Sewers								

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2	L	Calero Reservoir	20540031	<p>Mercury</p> <p><i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i></p>	<p>Surface Mining</p> <p>Mine Tailings</p>	Medium	334 Acres	
2	E	Carquinez Strait	20710020	<p>Chlordane</p> <p><i>This listing was made by USEPA.</i></p>	<p>Nonpoint Source</p>	Medium	5657 Acres	
				<p>DDT</p>	<p>Nonpoint Source</p>	Medium	5657 Acres	
				<p>Diazinon</p> <p><i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i></p>	<p>Nonpoint Source</p>	Medium	5657 Acres	
				<p>Dieldrin</p> <p><i>This listing was made by USEPA.</i></p>	<p>Nonpoint Source</p>	Medium	5657 Acres	
				<p>Dioxin Compounds</p> <p><i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i></p>	<p>Atmospheric Deposition</p>	Low	5657 Acres	
				<p>Exotic Species</p> <p><i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i></p>	<p>Ballast Water</p>	Medium	5657 Acres	
				<p>Furan Compounds</p> <p><i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i></p>	<p>Atmospheric Deposition</p>	Low	5657 Acres	
				<p>Mercury</p> <p><i>Current data indicate fish consumption and wildlife consumption impacted uses. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i></p>	<p>Industrial Point Sources</p> <p>Municipal Point Sources</p> <p>Resource Extraction</p> <p>Atmospheric Deposition</p> <p>Natural Sources</p> <p>Nonpoint Source</p>	High	5657 Acres	2002

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				PCBs		High	5657 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
					Unknown Nonpoint Source			
				PCBs (dioxin-like)		Low	5657 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
					Unknown Nonpoint Source			
				Selenium		Low	5657 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
					Industrial Point Sources			
					Agriculture			
2	E	Castro Cove, Richmond (San Pablo Basin)	20660014					
				Dieldrin (sediment)		Low	71 Acres	
					Urban Runoff/Storm Sewers Point Source			
				Mercury (sediment)		Low	71 Acres	
					Urban Runoff/Storm Sewers Point Source			
				PAHs (sediment)		Low	71 Acres	
					Urban Runoff/Storm Sewers Point Source			
				Selenium (sediment)		Low	71 Acres	
					Urban Runoff/Storm Sewers Point Source			
2	B	Central Basin, San Francisco (part of SF Bay, Central)	20440010					
				Chlordane		Medium	40 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				DDT		Medium	40 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Diazinon		Medium	40 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
					Nonpoint Source			

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION	
			Dieldrin		Medium	40 Acres		
			<i>This listing was made by USEPA.</i>					
				Nonpoint Source				
			Dioxin Compounds		Low	40 Acres		
			<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>					
				Atmospheric Deposition				
			Exotic Species		Medium	40 Acres		
			<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>					
				Ballast Water				
			Furan Compounds		Low	40 Acres		
			<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>					
				Atmospheric Deposition				
			Mercury		High	40 Acres	2002	
			<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>					
				Industrial Point Sources				
				Minor Industrial Point Source				
				Municipal Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Natural Sources				
				Nonpoint Source				
			PAHs (sediment)		Low	40 Acres		
				Urban Runoff/Storm Sewers				
				Point Source				
			PCBs		High	40 Acres	2004	
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>					
				Unknown Nonpoint Source				
			PCBs (dioxin-like)		Low	40 Acres		
			<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5,-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>					
				Unknown Nonpoint Source				

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				Selenium <i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>		Low	40 Acres	
					Industrial Point Sources Agriculture Natural Sources Exotic Species			
2	R	Corte Madera Creek	20320011	Diazinon <i>This listing was made by USEPA.</i>		High	4.1 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Coyote Creek (Marin County)	20320020	Diazinon <i>This listing was made by USEPA.</i>		High	2.6 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Coyote Creek (Santa Clara Co.)	20530021	Diazinon <i>This listing was made by USEPA.</i>		High	55 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Gallinas Creek	20620013	Diazinon <i>This listing was made by USEPA.</i>		High	2.1 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Guadalupe Creek	20540050	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>		Medium	8.1 Miles	
					Mine Tailings			
2	L	Guadalupe Reservoir	20540040	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>		Medium	63 Acres	
					Surface Mining Mine Tailings			
2	R	Guadalupe River	20540050	Diazinon <i>This listing was made by USEPA.</i>		High	18 Miles	2004
					Urban Runoff/Storm Sewers			

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				Mercury		Medium	18 Miles	
				<i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>				
					Mine Tailings			
2	E	Islais Creek	20440010	Ammonia		Low	46 Acres	
					Industrial Point Sources Combined Sewer Overflow			
				Chlordane (sediment)		Low	46 Acres	
					Industrial Point Sources Combined Sewer Overflow			
				Dieldrin (sediment)		Low	46 Acres	
					Industrial Point Sources Combined Sewer Overflow			
				Endosulfan sulfate (sediment)		Low	46 Acres	
					Industrial Point Sources Combined Sewer Overflow			
				Hydrogen Sulfide		Low	46 Acres	
					Industrial Point Sources Combined Sewer Overflow			
				PAHs (sediment)		Low	46 Acres	
					Industrial Point Sources Combined Sewer Overflow			
				PCBs (sediment)		Low	46 Acres	
					Industrial Point Sources Combined Sewer Overflow			
2	R	Lagunitas Creek	20113020	Nutrients		Medium	17 Miles	
				<i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>				
					Agriculture Urban Runoff/Storm Sewers			
				Pathogens		Medium	17 Miles	
				<i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>				
					Agriculture Urban Runoff/Storm Sewers			

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				Sedimentation/Siltation <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>		Medium	17 Miles	
					Agriculture Urban Runoff/Storm Sewers			
2	L	Lake Herman	20721030	Mercury <i>Additional monitoring and assessment needed. Problem due to historical mining.</i>		Low	108 Acres	
					Surface Mining			
2	L	Lake Merritt	20420040	Trash		Low	142 Acres	
					Urban Runoff/Storm Sewers			
2	R	Laurel Creek (Solano Co)	20440040	Diazinon <i>This listing was made by USEPA.</i>		High	3 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Ledgewood Creek	20723010	Diazinon <i>This listing was made by USEPA.</i>		High	12 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Los Gatos Creek (R2)	20540011	Diazinon <i>This listing was made by USEPA.</i>		High	19 Miles	2004
					Urban Runoff/Storm Sewers			
2	E	Marina Lagoon (San Mateo County)	20440040	High Coliform Count		Low	169 Acres	
					Urban Runoff/Storm Sewers Nonpoint Source			
2	R	Matadero Creek	20550040	Diazinon <i>This listing was made by USEPA.</i>		High	7.3 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Miller Creek	20620012	Diazinon <i>This listing was made by USEPA.</i>		High	9 Miles	2004
					Urban Runoff/Storm Sewers			

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2	E	Mission Creek	20440010	Ammonia	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				Chlordane (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				Chlorpyrifos (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				Chromium (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				Copper (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				Dieldrin (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				Hydrogen Sulfide	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				Lead (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				Mercury (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				Mirex (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				PAHs	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				PCBs (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	
				Silver (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	18 Acres	

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				Zinc (sediment)		Low	18 Acres	
					Industrial Point Sources Combined Sewer Overflow			
2	R	Mt. Diablo Creek	20731040	Diazinon <i>This listing was made by USEPA.</i>		High	13 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Napa River	20650010	Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	65 Miles	
					Agriculture			
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	65 Miles	
					Agriculture			
					Urban Runoff/Storm Sewers			
				Sedimentation/Siltation <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	65 Miles	
					Agriculture			
					Construction/Land Development			
					Land Development			
					Urban Runoff/Storm Sewers			
2	R	Novato Creek	20620010	Diazinon <i>This listing was made by USEPA.</i>		High	17 Miles	2004
					Urban Runoff/Storm Sewers			
2	B	Oakland Inner Harbor (Fruitvale Site, part of SF Bay, Central)	20420040	Chlordane <i>This listing was made by USEPA.</i>		Medium	0.93 Acres	
					Nonpoint Source			
				DDT <i>This listing was made by USEPA.</i>		Medium	0.93 Acres	
					Nonpoint Source			
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Medium	0.93 Acres	
					Nonpoint Source			

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			Dieldrin <i>This listing was made by USEPA.</i>		Medium	0.93 Acres	
				Nonpoint Source			
			Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>		Low	0.93 Acres	
				Atmospheric Deposition			
			Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	0.93 Acres	
				Ballast Water			
			Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>		Low	0.93 Acres	
				Atmospheric Deposition			
			Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>		High	0.93 Acres	2002
				Industrial Point Sources			
				Municipal Point Sources			
				Resource Extraction			
				Atmospheric Deposition			
				Natural Sources			
				Nonpoint Source			
			PCBs <i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>		High	0.93 Acres	2004
				Unknown Nonpoint Source			
			PCBs (dioxin-like) <i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>		Low	0.93 Acres	
				Unknown Nonpoint Source			
			Selenium <i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>		Low	0.93 Acres	
				Industrial Point Sources			
				Agriculture			
				Natural Sources			
				Exotic Species			

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2	B	Oakland Inner Harbor (Pacific Dry-dock Yard 1 Site, part of SF Bay, Central)	20420040					
				Chlordane <i>This listing was made by USEPA.</i>		Medium	1.8 Acres	
					Nonpoint Source			
				Chlorpyrifos (sediment)		Low	1.8 Acres	
					Source Unknown			
				Copper (sediment)		Low	1.8 Acres	
					Source Unknown			
				DDT <i>This listing was made by USEPA.</i>		Medium	1.8 Acres	
					Nonpoint Source			
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Medium	1.8 Acres	
					Nonpoint Source			
				Dieldrin <i>This listing was made by USEPA.</i>		Medium	1.8 Acres	
					Nonpoint Source			
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>	Low	1.8 Acres		
					Atmospheric Deposition			
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	1.8 Acres	
					Ballast Water			
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>	Low	1.8 Acres		
					Atmospheric Deposition			
				Lead (sediment)		Low	1.8 Acres	
					Source Unknown			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Mercury		High	1.8 Acres	2002
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
					Industrial Point Sources			
					Municipal Point Sources			
					Resource Extraction			
					Atmospheric Deposition			
					Natural Sources			
					Nonpoint Source			
				Mirex (sediment)		Low	1.8 Acres	
					Source Unknown			
				PAHs (sediment)		Low	1.8 Acres	
					Source Unknown			
				PCBs		High	1.8 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
					Unknown Nonpoint Source			
				PCBs (dioxin-like)		Low	1.8 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
					Unknown Nonpoint Source			
				PCBs (sediment)		Low	1.8 Acres	
					Source Unknown			
				ppDDE (sediment)		Low	1.8 Acres	
					Source Unknown			
				Selenium		Low	1.8 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
					Industrial Point Sources			
					Agriculture			
					Natural Sources			
					Exotic Species			
				Tributyltin (sediment)		Low	1.8 Acres	
					Source Unknown			
				Zinc (sediment)		Low	1.8 Acres	
					Source Unknown			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	C	Pacific Ocean at Fitzgerald Marine Reserve	20221012	High Coliform Count	Nonpoint Source	Low	0.46 Miles	
2	C	Pacific Ocean at Pacifica State Beach	20221011	High Coliform Count <i>Linda Mar and San Pedro beaches are the areas affected.</i>	Urban Runoff/Storm Sewers Nonpoint Source	Low	0.87 Miles	
2	C	Pacific Ocean at Pillar Point Beach	20221012	High Coliform Count	Nonpoint Source	Low	1.1 Miles	
2	C	Pacific Ocean at Rockaway Beach	20221011	High Coliform Count	Urban Runoff/Storm Sewers Nonpoint Source	Low	0.29 Miles	
2	C	Pacific Ocean at Venice Beach	20222011	High Coliform Count	Nonpoint Source	Low	0.38 Miles	
2	R	Permanente Creek	20550021	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	13 Miles	2004
2	R	Pescadero Creek	20240013	Sedimentation/Siltation <i>Impairment to steelhead habitat.</i>	Nonpoint Source	Medium	26 Miles	
2	R	Petaluma River	20630020	Diazinon <i>Data source: Abelli-Amen, Petaluma Tree Planters, 1999.</i>	Urban Runoff/Storm Sewers	High	22 Miles	2004
				Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Construction/Land Development Urban Runoff/Storm Sewers	Medium	22 Miles	

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Construction/Land Development Urban Runoff/Storm Sewers	Medium	22 Miles	
				Sedimentation/Siltation	Agriculture Construction/Land Development Urban Runoff/Storm Sewers	Medium	22 Miles	
2	R	Petaluma River (tidal portion)	20630040	Diazinon <i>Data source: Abelli-Amen, Petaluma Tree Planters, 1999.</i>	Urban Runoff/Storm Sewers	High	1.1 Miles	2004
				Nickel <i>Exceedance of California Toxic Rule dissolved criteria and National Toxic Rule total criteria; elevated water and sediment tissue levels.</i>	Municipal Point Sources Urban Runoff/Storm Sewers Atmospheric Deposition	Low	1.1 Miles	
				Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Construction/Land Development Urban Runoff/Storm Sewers	Medium	1.1 Miles	
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Construction/Land Development Urban Runoff/Storm Sewers	Medium	1.1 Miles	
2	R	Pine Creek (Contra Costa Co)	20731040	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	13 Miles	2004
2	R	Pinole Creek	20660020	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	9.2 Miles	2004

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Pomponio Creek	20240020	High Coliform Count		Low	7.1 Miles	
Nonpoint Source								
2	B	Richardson Bay	20312010	Chlordane		Medium	2439 Acres	
<i>This listing was made by USEPA.</i>								
Nonpoint Source								
<i>This listing was made by USEPA.</i>								
Nonpoint Source								
<i>This listing was made by USEPA.</i>								
Unknown Nonpoint Source								
Dioxin Compounds								
						Low	2439 Acres	
<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>								
Atmospheric Deposition								
Exotic Species								
<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>								
Ballast Water								
Furan Compounds								
<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>								
Atmospheric Deposition								
High Coliform Count								
<i>Affected area, Waldo Point Harbor, is less than 10% of embayment; source has been positively identified as substandard sewage systems in some houseboat areas; extensive local control program in place with significant water quality improvements.</i>								
Urban Runoff/Storm Sewers								
Septage Disposal								
Boat Discharges/Vessel Wastes								
Mercury								
<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>								
Municipal Point Sources								
Resource Extraction								
Atmospheric Deposition								
Natural Sources								
Nonpoint Source								

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				PCBs		High	2439 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source				
				PCBs (dioxin-like)		Low	2439 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5,-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
2	R	Rodeo Creek	20660022	Diazinon		High	8 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				
2	E	Sacramento San Joaquin Delta	20710010	Chlordane		Medium	41736 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				DDT		Medium	41736 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Diazinon		Medium	41736 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
				Nonpoint Source				
				Dieldrin		Medium	41736 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Dioxin Compounds		Low	41736 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Exotic Species		Medium	41736 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
				Ballast Water				
				Furan Compounds		Low	41736 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
				Atmospheric Deposition				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>		High	41736 Acres	2002
					Industrial Point Sources Municipal Point Sources Resource Extraction Atmospheric Deposition Nonpoint Source			
				PCBs <i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>		High	41736 Acres	2004
					Unknown Nonpoint Source			
				PCBs (dioxin-like) <i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>	Low	41736 Acres		
					Unknown Nonpoint Source			
				Selenium <i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place. Another source is exotic species.</i>		Low	41736 Acres	
					Industrial Point Sources Agriculture Natural Sources Exotic Species			
2	R	San Antonio Creek (Marin/Sonoma Co)	20630031	Diazinon <i>This listing was made by USEPA.</i>		High	18 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	San Felipe Creek	20530041	Diazinon <i>This listing was made by USEPA.</i>		High	15 Miles	2004
					Urban Runoff/Storm Sewers			
2	B	San Francisco Bay, Central	20312010	Chlordane <i>This listing was made by USEPA.</i>		Medium	70992 Acres	
					Nonpoint Source			
				DDT <i>This listing was made by USEPA.</i>		Medium	70992 Acres	
					Nonpoint Source			

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION	
			Diazinon		Medium	70992 Acres		
			<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>					
				Nonpoint Source				
			Dieldrin		Medium	70992 Acres		
			<i>This listing was made by USEPA.</i>					
				Nonpoint Source				
			Dioxin Compounds		Low	70992 Acres		
			<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>					
				Atmospheric Deposition				
			Exotic Species		Medium	70992 Acres		
			<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>					
				Ballast Water				
			Furan Compounds		Low	70992 Acres		
			<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>					
				Atmospheric Deposition				
			Mercury		High	70992 Acres	2002	
			<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>					
				Industrial Point Sources				
				Municipal Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Natural Sources				
				Nonpoint Source				
			PCBs		High	70992 Acres	2004	
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>					
				Unknown Nonpoint Source				
			PCBs (dioxin-like)		Low	70992 Acres		
			<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>					
				Unknown Nonpoint Source				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Selenium <i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>		Low	70992 Acres	
					Industrial Point Sources Agriculture Natural Sources Exotic Species			
2	B	San Francisco Bay, Lower	20410010	Chlordane <i>This listing was made by USEPA.</i>		Medium	79293 Acres	
					Nonpoint Source			
				DDT <i>This listing was made by USEPA.</i>		Medium	79293 Acres	
					Nonpoint Source			
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Medium	79293 Acres	
					Nonpoint Source			
				Dieldrin <i>This listing was made by USEPA.</i>		Medium	79293 Acres	
					Nonpoint Source			
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>	Low	79293 Acres		
					Atmospheric Deposition			
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	79293 Acres	
					Ballast Water			
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8,-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>	Low	79293 Acres		
					Atmospheric Deposition			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Mercury		High	79293 Acres	2002
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources: water quality objective exceedances. Elevated sediment levels and elevated tissue levels.</i>				
				Industrial Point Sources Municipal Point Sources Resource Extraction Atmospheric Deposition Natural Sources Nonpoint Source				
				PCBs		High	79293 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source				
				PCBs (dioxin-like)		Low	79293 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5,-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
2	B	San Francisco Bay, South	20510000					
				Chlordane		Medium	21669 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				DDT		Medium	21669 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Diazinon		Medium	21669 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
				Nonpoint Source				
				Dieldrin		Medium	21669 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Dioxin Compounds		Low	21669 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Exotic Species		Medium	21669 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
				Ballast Water				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Furan Compounds		Low	21669 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
					Atmospheric Deposition			
				Mercury		High	21669 Acres	2002
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources: water quality objective exceedances. Elevated sediment level and elevated tissue levels.</i>				
				Industrial Point Sources Municipal Point Sources Resource Extraction Atmospheric Deposition Natural Sources Nonpoint Source				
				PCBs		High	21669 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
					Unknown Nonpoint Source			
				PCBs (dioxin-like)		Low	21669 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5,-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
					Unknown Nonpoint Source			
				Selenium		Low	21669 Acres	
				<i>A formal health advisory has been issued by OEHHA for benthic-feeding ducks in South San Francisco Bay. This health advisory clearly establishes that water contact recreation beneficial use (REC-1) is not fully supported and standards are not fully met.</i>				
				Agriculture Domestic Use of Ground Water				
2	R	San Francisquito Creek	20550040	Diazinon		High	12 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
				Sedimentation/Siltation		Medium	12 Miles	
				<i>Impairment to steelhead habitat.</i>				
				Nonpoint Source				
2	R	San Gregorio Creek	20230014	High Coliform Count		Low	11 Miles	
				Nonpoint Source				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Sedimentation/Siltation <i>Impairment to steelhead habitat.</i>		Medium	11 Miles	
					Nonpoint Source			
2	B	San Leandro Bay (part of SF Bay, Central)	20420040					
				Chlordane <i>This listing was made by USEPA.</i>		Medium	588 Acres	
					Nonpoint Source			
				DDT <i>This listing was made by USEPA.</i>		Medium	588 Acres	
					Nonpoint Source			
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Medium	588 Acres	
					Nonpoint Source			
				Dieldrin <i>This listing was made by USEPA.</i>		Medium	588 Acres	
					Nonpoint Source			
				Dioxin Compounds		Low	588 Acres	
					Atmospheric Deposition			
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	588 Acres	
					Ballast Water			
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>		Low	588 Acres	
					Atmospheric Deposition			
				Lead (sediment)		Low	588 Acres	
					Source Unknown			
				Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>		High	588 Acres	2002
					Industrial Point Sources			
					Municipal Point Sources			
					Resource Extraction			
					Atmospheric Deposition			
					Natural Sources			
					Nonpoint Source			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				PAHs (sediment)		Low	588 Acres	
					Source Unknown			
				PCBs		High	588 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
					Unknown Nonpoint Source			
				PCBs (dioxin-like)		Low	588 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
					Unknown Nonpoint Source			
				PCBs (sediment)		Low	588 Acres	
					Source Unknown			
				Pesticides		Low	588 Acres	
					Source Unknown			
				Selenium		Low	588 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
					Industrial Point Sources			
					Agriculture			
					Natural Sources			
					Exotic Species			
				Zinc (sediment)		Low	588 Acres	
					Source Unknown			
2	R	San Leandro Creek, Lower	20420012	Diazinon		High	9.3 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	San Lorenzo Creek	20420023	Diazinon		High	11 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	San Mateo Creek	20440032	Diazinon		High	11 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	B	San Pablo Bay	20610010					
				Chlordane		Medium	68349 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				DDT		Medium	68349 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Diazinon		Medium	68349 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
					Nonpoint Source			
				Dieldrin		Medium	68349 Acres	
				<i>This listing was made by USEPA.</i>				
					Nonpoint Source			
				Dioxin Compounds		Low	68349 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
					Atmospheric Deposition			
				Exotic Species		Medium	68349 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
					Ballast Water			
				Furan Compounds		Low	68349 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
					Atmospheric Deposition			
				Mercury		High	68349 Acres	2002
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
					Municipal Point Sources			
					Resource Extraction			
					Atmospheric Deposition			
					Natural Sources			
					Nonpoint Source			
				PCBs		High	68349 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
					Unknown Nonpoint Source			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				PCBs (dioxin-like)		Low	68349 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Selenium		Low	68349 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
				Industrial Point Sources				
				Agriculture				
				Natural Sources				
				Exotic Species				
2	R	San Pablo Creek	20660014	Diazinon		High	9.9 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				
2	L	San Pablo Reservoir	20660012	Mercury		Low	784 Acres	
				Atmospheric Deposition				
2	R	San Pedro Creek	20221011	High Coliform Count		Low	2.4 Miles	
				Urban Runoff/Storm Sewers				
				Nonpoint Source				
2	R	San Rafael Creek	20320012	Diazinon		High	3.6 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				
2	R	San Vicente Creek	20221012	High Coliform Count		Low	3.8 Miles	
				Nonpoint Source				
2	R	Saratoga Creek	20550040	Diazinon		High	18 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Sonoma Creek	20640050	Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Construction/Land Development Land Development Urban Runoff/Storm Sewers	Medium	30 Miles	
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Construction/Land Development Land Development Urban Runoff/Storm Sewers	Medium	30 Miles	
				Sedimentation/Siltation <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Construction/Land Development Land Development Urban Runoff/Storm Sewers	Medium	30 Miles	
2	R	Stevens Creek	20550020	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	20 Miles	2004
2	B	Suisun Bay	20710020	Chlordane <i>This listing was made by USEPA.</i>	Nonpoint Source	Medium	27498 Acres	
				DDT <i>This listing was made by USEPA.</i>	Nonpoint Source	Medium	27498 Acres	
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>	Nonpoint Source	Medium	27498 Acres	
				Dieldrin <i>This listing was made by USEPA.</i>	Nonpoint Source	Medium	27498 Acres	

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Dioxin Compounds		Low	27498 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Exotic Species		Medium	27498 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
				Ballast Water				
				Furan Compounds		Low	27498 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Mercury		High	27498 Acres	2002
				<i>Current data indicate fish consumption and wildlife consumption impacted uses. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
				Industrial Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Natural Sources				
				Nonpoint Source				
				PCBs		High	27498 Acres	2004
				<i>This listing covers non-dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown point source				
				PCBs (dioxin-like)		Low	27498 Acres	
				<i>The specific dioxin-like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
				Selenium		Low	27498 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds; significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
				Industrial Point Sources				
				Natural Sources				
				Exotic Species				
2	T	Suisun Marsh Wetlands	20723000	Metals		Low	66339 Acres	
				<i>Additional monitoring and assessment needed.</i>				
				Agriculture				
				Urban Runoff/Storm Sewers				
				Flow Regulation/Modification				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Nutrients <i>Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers Flow Regulation/Modification	Low	66339 Acres	
				Organic Enrichment/Low Dissolved Oxygen <i>Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers Flow Regulation/Modification	Low	66339 Acres	
				Salinity/TDS/Chlorides <i>Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers Flow Regulation/Modification	Low	66339 Acres	
2	E	Suisun Slough	20723000	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	1124 Acres	2004
2	B	Tomales Bay	20114033	Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>	Mine Tailings	Medium	8545 Acres	
				Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Tributary streams, Lagunitas Creek and Walker Creek, must be managed first. Additional monitoring and assessment needed.</i>	Agriculture	Medium	8545 Acres	
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Tributary streams, Lagunitas Creek and Walker Creek, must be managed first. Additional monitoring and assessment needed.</i>	Intensive Animal Feeding Operations Septage Disposal	High	8545 Acres	2004
				Sedimentation/Siltation <i>TMDL will be developed as part of ongoing watershed management effort. Tributary streams, Lagunitas Creek and Walker Creek, must be managed first. Additional monitoring and assessment needed.</i>	Agriculture Upstream Impoundment Upstream Impoundment	Medium	8545 Acres	

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Walker Creek	20112013	Mercury <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>	Surface Mining Mine Tailings	Medium	16 Miles	
				Nutrients <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture	Medium	16 Miles	
				Sedimentation/Siltation <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture	Medium	16 Miles	
2	R	Walnut Creek	20731040	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	9 Miles	2004
2	R	Wildcat Creek	20660013	Diazinon <i>This listing was made by USEPA.</i>	Urban Runoff/Storm Sewers	High	12 Miles	2004

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
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ABBREVIATIONS

REGIONAL WATER QUALITY CONTROL BOARDS

- | | |
|---|----------------------|
| 1 | North Coast |
| 2 | San Francisco Bay |
| 3 | Central Coast |
| 4 | Los Angeles |
| 5 | Central Valley |
| 6 | Lahontan |
| 7 | Colorado River Basin |
| 8 | Santa Ana |
| 9 | San Diego |

WATER BODY TYPE

- | | |
|-----|----------------------------|
| B = | Bays and Harbors |
| C = | Coastal Shorelines/Beaches |
| E = | Estuaries |
| L = | Lakes/Reservoirs |
| R = | Rivers and Streams |
| S = | Saline Lakes |
| T = | Wetlands, Tidal |
| W = | Wetlands, Freshwater |

CALWATER WATERSHED

"Calwater Watershed" is the State Water Resources Control Board hydrological subunit area or an even smaller area delineation.

GROUP A PESTICIDES OR CHEM A

aldrin, dieldrin, chlordane, endrin, heptachlor, heptachlor epoxide, hexachlorocyclohexane (including lindane), endosulfan, and toxaphene