

2006 CWA SECTION 303(d) LIST OF WATER QUALITY LIMITED SEGMENTS REQUIRING TMDLS

SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD

USEPA APPROVAL DATE: JUNE 28, 2007

REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
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>		7.1 Miles	2006
					Mine Tailings		
2	L	Anderson Reservoir	20530050	Mercury		1013 Acres	2019
					Source Unknown		
				PCBs (Polychlorinated biphenyls)		1013 Acres	2019
					Source Unknown		
2	C	Aquatic Park Beach	20340010	Indicator bacteria <i>This listing was made by USEPA for 2006.</i>		0.18 Miles	2019
					Source Unknown		
2	L	Bon Tempe Reservoir	20113020	Mercury		120 Acres	2019
					Source Unknown		
2	R	Butano Creek	20240031	Sedimentation/Siltation <i>Impairment to steelhead habitat.</i>		3.6 Miles	2019
					Nonpoint Source		
2	L	Calero Reservoir	20540031	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>		334 Acres	2006
					Surface Mining		
					Mine Tailings		
2	C	Candlestick Point	20440011	Indicator bacteria <i>This listing was made by USEPA for 2006. This listing includes the area of Candlestick Point at Jackrabbit Beach, Windsurfer Circle, and Sunnydale Cove.</i>		1.6 Miles	2019
					Source Unknown		

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2	E	Carquinez Strait	20710020	Chlordane <i>This listing was made by USEPA.</i>		5657 Acres	2008
					Nonpoint Source		
				DDT		5657 Acres	2008
					Nonpoint Source		
				Dieldrin <i>This listing was made by USEPA.</i>		5657 Acres	2008
					Nonpoint Source		
				Dioxin Compounds (including 2,3,7,8-TCDD) <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>	5657 Acres	2019	
					Atmospheric Deposition		
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		5657 Acres	2019
					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, 1,2,3,6,7,8,9-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>	5657 Acres	2019	
					Atmospheric Deposition		
				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>		5657 Acres	2006
					Industrial Point Sources		
					Municipal Point Sources		
					Resource Extraction		
					Atmospheric Deposition		
					Natural Sources		
					Nonpoint Source		
				PCBs (Polychlorinated biphenyls) <i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>		5657 Acres	2006
					Unknown Nonpoint Source		

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				PCBs (Polychlorinated biphenyls) (dioxin-like)		5657 Acres	2019
				<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		5657 Acres	2019
				<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)		71 Acres	2008
					Urban Runoff/Storm Sewers Point Source		
				Mercury (sediment)		71 Acres	2006
					Urban Runoff/Storm Sewers Point Source		
				PAHs (Polycyclic Aromatic Hydrocarbons) (sediment)		71 Acres	2019
					Urban Runoff/Storm Sewers Point Source		
				Selenium (sediment)		71 Acres	2019
					Urban Runoff/Storm Sewers Point Source		
2	B	Central Basin, San Francisco (part of SF Bay, Central)	20440010	Chlordane		40 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				DDT		40 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				Dieldrin		40 Acres	2019
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			

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				Dioxin Compounds (including 2,3,7,8-TCDD)		40 Acres	2019
				<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		40 Acres	2019
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>			
				Ballast Water			
				Furan Compounds		40 Acres	2019
				<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		40 Acres	2006
				<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			
				Mercury (sediment)		40 Acres	2006
				Urban Runoff/Storm Sewers			
				Point Source			
				PAHs (Polycyclic Aromatic Hydrocarbons) (sediment)		40 Acres	2019
				Urban Runoff/Storm Sewers			
				Point Source			
				PCBs (Polychlorinated biphenyls)		40 Acres	2006
				<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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				PCBs (Polychlorinated biphenyls) (dioxin-like)		40 Acres	2019
				<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		40 Acres	2019
				<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	C	Chicken Ranch Beach	20114033	Indicator bacteria		0.17 Miles	2008
				<i>This listing was made by USEPA for 2006.</i>			
				Source Unknown			
2	C	China Camp Beach	20610010	Indicator bacteria		0.08 Miles	2019
				<i>This listing was made by USEPA for 2006.</i>			
				Source Unknown			
2	C	Crissy Field Beach	20340010	Indicator bacteria		0.8 Miles	2019
				<i>This listing was made by USEPA for 2006. This listing includes the east and west areas of Crissy Field.</i>			
				Source Unknown			
2	L	Del Valle Reservoir	20430024	Mercury		1022 Acres	2019
				Source Unknown			
				PCBs (Polychlorinated biphenyls)		1022 Acres	2019
				Source Unknown			
2	C	Golden Hinde Beach	20114033	Indicator bacteria		0.11 Miles	2008
				<i>This listing was made by USEPA for 2006.</i>			
				Source Unknown			

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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>		8.1 Miles	2006
					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>		63 Acres	2006
					Surface Mining Mine Tailings		
2	R	Guadalupe River	20540050	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>		18 Miles	2006
					Mine Tailings		
2	C	Hearts Desire Beach	20114033	Indicator bacteria <i>This listing was made by USEPA for 2006.</i>		0.38 Miles	2008
					Source Unknown		
2	E	Islais Creek	20440010	Ammonia		46 Acres	2019
					Industrial Point Sources Combined Sewer Overflow		
				Chlordane (sediment)		46 Acres	2008
					Industrial Point Sources Combined Sewer Overflow		
				Dieldrin (sediment)		46 Acres	2008
					Industrial Point Sources Combined Sewer Overflow		
				Hydrogen Sulfide		46 Acres	2019
					Industrial Point Sources Combined Sewer Overflow		

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				PAHs (Polycyclic Aromatic Hydrocarbons) (sediment)		46 Acres	2019
					Industrial Point Sources Combined Sewer Overflow		
				Sediment Toxicity		46 Acres	2019
					Source Unknown		
2	L	Lafayette Reservoir	20732010	Mercury		114 Acres	2019
					Source Unknown		
				PCBs (Polychlorinated biphenyls)		114 Acres	2019
					Source Unknown		
2	R	Lagunitas Creek	20113020	Nutrients		17 Miles	2019
				<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		
				Sedimentation/Siltation		17 Miles	2009
				<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		
2	L	Lake Chabot (Alameda Co)	20420030	Chlordane		312 Acres	2019
					Source Unknown		
				DDT		312 Acres	2019
					Source Unknown		
				Dieldrin		312 Acres	2019
					Source Unknown		

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				Mercury		312 Acres	2019
					Source Unknown		
				PCBs (Polychlorinated biphenyls)		312 Acres	2019
					Source Unknown		
2	L	Lake Herman	20721030	Mercury		108 Acres	2019
				<i>Additional monitoring and assessment needed. Problem due to historical mining.</i>			
					Surface Mining		
2	L	Lake Merced	20210010	Low Dissolved Oxygen		299 Acres	2019
				<i>This listing was made by USEPA.</i>			
					Source Unknown		
				pH		299 Acres	2019
				<i>This listing was made by USEPA.</i>			
					Source Unknown		
2	L	Lake Merritt	20420040	Organic Enrichment/Low Dissolved Oxygen		142 Acres	2019
				<i>This listing was made by USEPA.</i>			
					Source Unknown		
				Trash		142 Acres	2019
					Urban Runoff/Storm Sewers		
2	C	Lawsons Landing	20112030	Indicator bacteria		3.2 Miles	2008
				<i>This listing was made by USEPA for 2006.</i>			
					Source Unknown		
2	E	Marina Lagoon (San Mateo County)	20440040	Coliform Bacteria		169 Acres	2019
					Urban Runoff/Storm Sewers		
					Nonpoint Source		
2	C	McNears Beach	20610010	Indicator bacteria		0.18 Miles	2019
				<i>This listing was made by USEPA for 2006.</i>			
					Source Unknown		

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2	C	Millerton Point	20112032	Indicator bacteria <i>This listing was made by USEPA for 2006.</i>	Source Unknown	0.25 Miles	2008
2	E	Mission Creek	20440010	Ammonia	Industrial Point Sources Combined Sewer Overflow	8.5 Acres	2019
				Chlordane (sediment)	Industrial Point Sources Combined Sewer Overflow	8.5 Acres	2008
				Dieldrin (sediment)	Industrial Point Sources Combined Sewer Overflow	8.5 Acres	2008
				Hydrogen Sulfide	Industrial Point Sources Combined Sewer Overflow	8.5 Acres	2019
				Lead (sediment)	Industrial Point Sources Combined Sewer Overflow	8.5 Acres	2019
				Mercury (sediment)	Industrial Point Sources Combined Sewer Overflow	8.5 Acres	2019
				PAHs (Polycyclic Aromatic Hydrocarbons)	Industrial Point Sources Combined Sewer Overflow	8.5 Acres	2019
				PCBs (Polychlorinated biphenyls) (sediment)	Industrial Point Sources Combined Sewer Overflow	8.5 Acres	2006
				Silver (sediment)	Industrial Point Sources Combined Sewer Overflow	8.5 Acres	2019

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				Zinc (sediment)		8.5 Acres	2019
					Industrial Point Sources Combined Sewer Overflow		
2	R	Napa River	20650010	Nutrients		65 Miles	2008
				<i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>			
					Agriculture		
				Pathogens		65 Miles	2006
				<i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>			
					Agriculture		
					Urban Runoff/Storm Sewers		
				Sedimentation/Siltation		65 Miles	2006
				<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		
2	L	Nicasio Reservoir	20113012	Mercury		829 Acres	2019
					Source Unknown		
2	B	Oakland Inner Harbor (Fruitvale Site, part of SF Bay, Central)	20420040	Chlordane		0.93 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		
				Chlordane (sediment)		0.93 Acres	2008
					Source Unknown		
				DDT		0.93 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		

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			Dieldrin		0.93 Acres	2008
			<i>This listing was made by USEPA.</i>			
			Nonpoint Source			
			Dioxin Compounds (including 2,3,7,8-TCDD)		0.93 Acres	2019
			<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		0.93 Acres	2019
			<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>			
			Ballast Water			
			Furan Compounds		0.93 Acres	2019
			<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		0.93 Acres	2006
			<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 (Polychlorinated biphenyls)		0.93 Acres	2006
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>			
			Unknown Nonpoint Source			
			PCBs (Polychlorinated biphenyls) (dioxin-like)		0.93 Acres	2019
			<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 (Polychlorinated biphenyls) (sediment)		0.93 Acres	2006
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>			
			Source Unknown			

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				Sediment Toxicity		0.93 Acres	2019
					Source Unknown		
				Selenium		0.93 Acres	2019
				<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	B	Oakland Inner Harbor (Pacific Dry-dock Yard 1 Site, part of SF Bay, Central)	20420040				
				Chlordane		1.8 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		
				Chlordane (sediment)		1.8 Acres	2008
					Source Unknown		
				Copper (sediment)		1.8 Acres	2019
					Source Unknown		
				DDT		1.8 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		
				Dieldrin		1.8 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		
				Dieldrin (sediment)		1.8 Acres	2008
					Source Unknown		
				Dioxin Compounds (including 2,3,7,8-TCDD)		1.8 Acres	2019
				<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		1.8 Acres	2019
				<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	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Furan Compounds		1.8 Acres	2019
				<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			
				Lead (sediment)		1.8 Acres	2019
				Source Unknown			
				Mercury		1.8 Acres	2006
				<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			
				Mercury (sediment)		1.8 Acres	2006
				Source Unknown			
				PAHs (Polycyclic Aromatic Hydrocarbons) (sediment)		1.8 Acres	2019
				Source Unknown			
				PCBs (Polychlorinated biphenyls)		1.8 Acres	2006
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>			
				Unknown Nonpoint Source			
				PCBs (Polychlorinated biphenyls) (dioxin-like)		1.8 Acres	2019
				<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 (Polychlorinated biphenyls) (sediment)		1.8 Acres	2006
				Source Unknown			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Selenium		1.8 Acres	2019
				<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)		1.8 Acres	2019
					Source Unknown		
2	C	Pacific Ocean at Baker Beach	20340010	Indicator bacteria		0.45 Miles	2019
				<i>This listing was made by USEPA for 2006. This listing includes the area of Baker Beach at Lobos Creek, Horseshoe Cove NW and NE.</i>			
					Source Unknown		
2	C	Pacific Ocean at Bolinas Beach	20130011	Indicator bacteria		0.39 Miles	2019
				<i>This listing was made by USEPA for 2006.</i>			
					Source Unknown		
2	C	Pacific Ocean at Fitzgerald Marine Reserve	20221012	Coliform Bacteria		0.46 Miles	2019
					Nonpoint Source		
2	C	Pacific Ocean at Muir Beach	20130013	Indicator bacteria		0.2 Miles	2019
				<i>This listing was made by USEPA for 2006.</i>			
					Source Unknown		
2	C	Pacific Ocean at Pacifica State/Linda Mar Beach	20221011	Coliform Bacteria		0.87 Miles	2019
				<i>Linda Mar and San Pedro beaches are the areas affected.</i>			
					Urban Runoff/Storm Sewers		
					Nonpoint Source		

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	C	Pacific Ocean at Pillar Point	20221012	Mercury		0.62 Miles	2019
					Source Unknown		
2	C	Pacific Ocean at Pillar Point Beach	20221012	Coliform Bacteria		1.1 Miles	2019
					Nonpoint Source		
2	C	Pacific Ocean at Rockaway Beach	20221011	Coliform Bacteria		0.29 Miles	2019
					Urban Runoff/Storm Sewers Nonpoint Source		
2	C	Pacific Ocean at Venice Beach	20222011	Coliform Bacteria		0.38 Miles	2019
					Nonpoint Source		
2	R	Pescadero Creek	20240013	Sedimentation/Siltation		26 Miles	2019
				<i>If California Department of Fish and Game and the National Marine Fisheries Service find that for this water body fish populations are not impacted, the State Water Board supports removing this water body and pollutant from the list.</i>			
					Nonpoint Source		
2	R	Petaluma River	20630020	Diazinon		22 Miles	2005
				<i>Data source: Abelli-Amen, Petaluma Tree Planters, 1999.</i>			
					Urban Runoff/Storm Sewers		
				Nutrients		22 Miles	2019
				<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		
				Pathogens		22 Miles	2019
				<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		

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Sedimentation/Siltation		22 Miles	2019
					Agriculture Construction/Land Development Urban Runoff/Storm Sewers		
2	R	Petaluma River (tidal portion)	20630040	Diazinon <i>Data source: Abelli-Amen, Petaluma Tree Planters, 1999.</i>		1.1 Miles	2005
					Urban Runoff/Storm Sewers		
				Nickel <i>Exceedance of California Toxic Rule dissolved criteria and National Toxic Rule total criteria; elevated water and sediment tissue levels.</i>		1.1 Miles	2019
					Municipal Point Sources Urban Runoff/Storm Sewers Atmospheric Deposition		
				Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		1.1 Miles	2019
					Agriculture Construction/Land Development Urban Runoff/Storm Sewers		
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		1.1 Miles	2019
					Agriculture Construction/Land Development Urban Runoff/Storm Sewers		
2	R	Pomponio Creek	20240020	Coliform Bacteria		7.1 Miles	2019
					Nonpoint Source		
2	B	Richardson Bay	20312010	Chlordane <i>This listing was made by USEPA.</i>		2439 Acres	2008
					Nonpoint Source		

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Coliform Bacteria		2439 Acres	2019
				<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		
				DDT		2439 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		
				Dieldrin		2439 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Unknown Nonpoint Source		
				Dioxin Compounds (including 2,3,7,8-TCDD)		2439 Acres	2019
				<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		2439 Acres	2019
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>			
					Ballast Water		
				Furan Compounds		2439 Acres	2019
				<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		2439 Acres	2006
				<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 (Polychlorinated biphenyls)		2439 Acres	2006
				<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	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				PCBs (Polychlorinated biphenyls) (dioxin-like)		2439 Acres	2019
				<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	E	Sacramento San Joaquin Delta	20710010				
				Chlordane		41736 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				DDT		41736 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				Dieldrin		41736 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				Dioxin Compounds (including 2,3,7,8-TCDD)		41736 Acres	2019
				<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		41736 Acres	2019
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>			
				Ballast Water			
				Furan Compounds		41736 Acres	2019
				<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		41736 Acres	2006
				<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			
				Municipal Point Sources			
				Resource Extraction			
				Atmospheric Deposition			
				Nonpoint Source			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Nickel		41736 Acres	2019
				<i>This listing was made by USEPA.</i>			
				Source Unknown			
				PCBs (Polychlorinated biphenyls)		41736 Acres	2006
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>			
				Unknown Nonpoint Source			
				PCBs (Polychlorinated biphenyls) (dioxin-like)		41736 Acres	2019
				<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		41736 Acres	2019
				<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>			
				Industrial Point Sources			
				Agriculture			
				Natural Sources			
				Exotic Species			
2	B	San Francisco Bay, Central	20312010	Chlordane		70992 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				DDT		70992 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				Dieldrin		70992 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				Dioxin Compounds (including 2,3,7,8-TCDD)		70992 Acres	2019
				<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		70992 Acres	2019
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>			
				Ballast Water			

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				Furan Compounds		70992 Acres	2019
				<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		70992 Acres	2006
				<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 (Polychlorinated biphenyls)		70992 Acres	2006
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>			
				Unknown Nonpoint Source			
				PCBs (Polychlorinated biphenyls) (dioxin-like)		70992 Acres	2019
				<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		70992 Acres	2019
				<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	B	San Francisco Bay, Lower	20410010	Chlordane		92274 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			

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				DDT		92274 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				Dieldrin		92274 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				Dioxin Compounds (including 2,3,7,8-TCDD)		92274 Acres	2019
				<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		92274 Acres	2019
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>			
				Ballast Water			
				Furan Compounds		92274 Acres	2019
				<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		92274 Acres	2006
				<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 (Polychlorinated biphenyls)		92274 Acres	2006
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>			
				Unknown Nonpoint Source			
				PCBs (Polychlorinated biphenyls) (dioxin-like)		92274 Acres	2019
				<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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2	B	San Francisco Bay, South	20510000	Chlordane <i>This listing was made by USEPA.</i>		9204 Acres	2008
					Nonpoint Source		
				DDT <i>This listing was made by USEPA.</i>		9204 Acres	2008
					Nonpoint Source		
				Dieldrin <i>This listing was made by USEPA.</i>		9204 Acres	2008
					Nonpoint Source		
				Dioxin Compounds (including 2,3,7,8-TCDD) <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>	9204 Acres	2019	
					Atmospheric Deposition		
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		9204 Acres	2019
					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>	9204 Acres	2019	
					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: water quality objective exceedances. Elevated sediment level and elevated tissue levels.</i>		9204 Acres	2006
					Industrial Point Sources		
					Municipal Point Sources		
					Resource Extraction		
					Atmospheric Deposition		
					Natural Sources		
					Nonpoint Source		
				PCBs (Polychlorinated biphenyls) <i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>		9204 Acres	2006
					Unknown Nonpoint Source		

2006 CWA SECTION 303(d) LIST OF WATER QUALITY LIMITED SEGMENTS REQUIRING TMDLS

SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD

USEPA APPROVAL DATE: JUNE 28, 2007

REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				PCBs (Polychlorinated biphenyls) (dioxin-like)		9204 Acres	2019
				<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		9204 Acres	2019
				<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	Sedimentation/Siltation		12 Miles	2008
				<i>Impairment to steelhead habitat.</i>			
				Nonpoint Source			
2	R	San Gregorio Creek	20230014	Coliform Bacteria		11 Miles	2019
				Nonpoint Source			
				Sedimentation/Siltation		11 Miles	2019
				<i>Impairment to steelhead habitat.</i>			
				Nonpoint Source			
2	B	San Leandro Bay (part of SF Bay, Central)	20420040	Chlordane		588 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				Dieldrin		588 Acres	2008
				<i>This listing was made by USEPA.</i>			
				Nonpoint Source			
				Dioxin Compounds (including 2,3,7,8-TCDD)		588 Acres	2019
				Atmospheric Deposition			
				Exotic Species		588 Acres	2019
				<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	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Furan Compounds		588 Acres	2019
				<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		
				Lead (sediment)		588 Acres	2019
					Source Unknown		
				Mercury		588 Acres	2006
				<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		
				Mercury (sediment)		588 Acres	2006
					Source Unknown		
				PAHs (Polycyclic Aromatic Hydrocarbons) (sediment)		588 Acres	2019
					Source Unknown		
				Pesticides (sediment)		588 Acres	2019
					Source Unknown		
				Zinc (sediment)		588 Acres	2019
					Source Unknown		
2	B	San Pablo Bay	20610010	Chlordane		68349 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		
				DDT		68349 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		

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REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Dieldrin		68349 Acres	2008
			<i>This listing was made by USEPA.</i>			
			Nonpoint Source			
			Dioxin Compounds (including 2,3,7,8-TCDD)		68349 Acres	2019
			<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		68349 Acres	2019
			<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>			
			Ballast Water			
			Furan Compounds		68349 Acres	2019
			<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		68349 Acres	2006
			<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			
			Nickel		68349 Acres	2019
			<i>This listing was made by USEPA.</i>			
			Source Unknown			
			PCBs (Polychlorinated biphenyls)		68349 Acres	2006
			<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>			
			Unknown Nonpoint Source			
			PCBs (Polychlorinated biphenyls) (dioxin-like)		68349 Acres	2019
			<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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USEPA APPROVAL DATE: JUNE 28, 2007

REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Selenium		68349 Acres	2019
				<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	L	San Pablo Reservoir	20660012	Chlordane		784 Acres	2019
					Source Unknown		
				Dieldrin		784 Acres	2019
					Source Unknown		
				Heptachlor epoxide		784 Acres	2019
					Source Unknown		
				Mercury		784 Acres	2019
					Atmospheric Deposition		
				PCBs (Polychlorinated biphenyls)		784 Acres	2019
					Source Unknown		
				Toxaphene		784 Acres	2019
					Source Unknown		
2	R	San Pedro Creek	20221011	Coliform Bacteria		2.4 Miles	2019
					Urban Runoff/Storm Sewers		
					Nonpoint Source		
2	R	San Vicente Creek	20221012	Coliform Bacteria		3.8 Miles	2019
					Nonpoint Source		

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SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	L	Shadow Cliffs Reservoir	20430080	Mercury		90 Acres	2019
					Source Unknown		
				PCBs (Polychlorinated biphenyls)		90 Acres	2019
					Source Unknown		
2	R	Sonoma Creek	20640050	Nutrients		30 Miles	2008
				<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		
				Pathogens		30 Miles	2006
				<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		
				Sedimentation/Siltation		30 Miles	2008
				<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		
2	L	Soulajule Reservoir	20112012	Mercury		49 Acres	2019
					Source Unknown		
				PCBs (Polychlorinated biphenyls)		49 Acres	2019
					Source Unknown		

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Stevens Creek	20550020	Toxicity		20 Miles	2019
					Source Unknown		
2	L	Stevens Creek Reservoir	20550031	Chlordane		85 Acres	2019
					Source Unknown		
				Dieldrin		85 Acres	2019
					Source Unknown		
				Mercury		85 Acres	2019
					Source Unknown		
				PCBs (Polychlorinated biphenyls)		85 Acres	2019
					Source Unknown		
2	B	Suisun Bay	20710020	Chlordane		25335 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		
				DDT		25335 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		
				Dieldrin		25335 Acres	2008
				<i>This listing was made by USEPA.</i>			
					Nonpoint Source		
				Dioxin Compounds (including 2,3,7,8-TCDD)		25335 Acres	2019
				<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		25335 Acres	2019
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>			
					Ballast Water		

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SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD

USEPA APPROVAL DATE: JUNE 28, 2007

REGION TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
			Furan Compounds		25335 Acres	2019
			<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		25335 Acres	2006
			<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			
			Nickel		25335 Acres	2019
			<i>This listing was made by USEPA.</i>			
			Source Unknown			
			PCBs (Polychlorinated biphenyls)		25335 Acres	2006
			<i>This listing covers non-dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>			
			Unknown point source			
			PCBs (Polychlorinated biphenyls) (dioxin-like)		25335 Acres	2019
			<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		25335 Acres	2019
			<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			

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SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	T	Suisun Marsh Wetlands	20723000	Metals <i>Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers Flow Regulation/Modification	66339 Acres	2019
				Nutrients <i>Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers Flow Regulation/Modification	66339 Acres	2019
				Organic Enrichment/Low Dissolved Oxygen <i>Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers Flow Regulation/Modification	66339 Acres	2019
				Salinity/TDS/Chlorides <i>Additional monitoring and assessment needed.</i>	Agriculture Urban Runoff/Storm Sewers Flow Regulation/Modification	66339 Acres	2019
2	B	Tomaes 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	8545 Acres	2010
				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	8545 Acres	2019
				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	8545 Acres	2008

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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	16 Miles	2006
				Nutrients <i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture	16 Miles	2019
				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	16 Miles	2009

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