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### 3. WATER QUALITY OBJECTIVES

The California Water Code, Division 7, Chapter 4, Section 13241 specifies that each Regional Water Quality Control Board (Regional Water Board) shall establish water quality objectives which, in the Regional Water Board's judgment, are necessary for the reasonable protection of the beneficial uses and for the prevention of nuisance.

The federal Clean Water Act (33 U.S.C. § 303) requires the State to submit to the Administrator of the U.S. Environmental Protection Agency for approval all new or revised water quality standards which are established for surface and ocean waters. Under federal terminology, water quality standards consist of the beneficial uses enumerated in Table 2-1 and the water quality objectives contained in this section. The water quality objectives contained herein are designed to satisfy all state and federal requirements.

As new information becomes available, the Regional Water Board will review the appropriateness of the objectives contained herein. These objectives will be subject to public hearing at least once during each three-year period following adoption of this Basin Plan to determine the need for review and modification as appropriate.

The water quality objectives contained herein are a compilation of objectives adopted by the State Water Board, the Regional Water Board, and other state and federal agencies. Other water quality objectives and policies may apply that may be more stringent. Whenever several different objectives exist for the same water quality parameter, the strictest objective applies. In addition, the State Water Board "Policy With Respect to Maintaining High Quality Waters in California" also applies.

Controllable water quality factors shall conform to the water quality objectives contained herein. When other factors result in the degradation of water quality beyond the levels or limits established herein as water quality objectives, then controllable factors shall not cause further degradation of water quality. Controllable water quality factors are those actions, conditions, or circumstances resulting from man's activities that may influence the quality of the waters of the State and that may be reasonably controlled.

Water quality objectives form the basis for establishment of waste discharge requirements, waste discharge prohibitions, or maximum acceptable cleanup standards for all individuals and dischargers. These water quality objectives are considered to be necessary to protect those present and probable future beneficial uses enumerated in Table 2-1 and to protect existing high quality waters of the State. These objectives will be achieved primarily through the establishment of waste discharge requirements and through the implementation of this Basin Plan. The appropriate numeric water quality standards will be established in waste discharge orders.

The Regional Water Board, in setting waste discharge requirements, will consider, among other things, the potential impact on beneficial uses within the area of influence of the discharge, the existing quality of receiving waters, and the appropriate water quality objectives. The Regional Water Board will make a finding as to the beneficial uses to be protected within the area of influence of the discharge and establish waste discharge requirements to protect those uses and to meet water quality objectives. Resolution Nos. 87-113, 89-131, and 92-135 describe the policy of the Regional Water Board regarding the specific types of waste discharge for which it will waive issuance of waste discharge requirements. resolutions are included in the Appendix Section of this Plan.

The water quality objectives for the Region refer to several classes of waters. Ocean waters are waters of the Pacific Ocean outside of enclosed bays, estuaries. and coastal lagoons, and within the territorial (3 mile) limit. Bays are indentations along the coast which include oceanic waters within distinct headlands or harbor works whose narrowest opening is less than 75 percent of the greatest dimension of the enclosed portion of the bay; this definition includes only Crescent City Harbor in the Klamath River Basin, and Humboldt Bay and Bodega Bay in the North Coastal Basin. Estuaries are waters at the mouths of streams which serve as mixing zones for freshwater and seawater: they generally extend from the upstream limit of tidal action to a bay or open ocean. The principal estuarine areas of the Region are at the mouths of the Smith and Klamath Rivers and Lakes

Earl and Talawa, and at the mouths of the Eel, Noyo, and Russian Rivers. Inland waters include all surface

waters and groundwaters of the basin not included in the definitions of ocean waters, enclosed bays, or estuaries. Interstate waters include all rivers, streams, and lakes which flow across or form part of a state boundary. Groundwaters are any subsurface bodies of water which are beneficially used or usable. They include perched water if such water is used or usable or is hydraulically continuous with used or usable water.

The water quality objectives which follow supersede and replace those contained in the 1971 "Interim Water Quality Control Plan for the Klamath River Basin." the 1967 "Water Quality Control Policy for the Klamath River in California," the 1967 "Water Quality Control Policy for the Smith River in California," the 1967 "Water Quality Control Policy for the Humboldt-Del Norte Coastal Waters," the 1969 "Water Quality Control Policy for the Lost River," the 1971 "Interim Water Quality Control Plan for the North Coastal Basin," the 1967 "Water Quality Control Policy for the Sonoma-Mendocino Coast," the 1975 "Water Quality Control Plan for the Klamath River Basin (1A)," the 1975 "Water Quality Control Plan for the North Coastal Basin (1B)," and the 1988 "Water Quality Control Plan for the North Coast Region".

#### **GENERAL OBJECTIVE**

The following objective shall apply to all waters of the Region.

Whenever the existing quality of water is better than the water quality objectives established herein, such existing quality shall be maintained unless otherwise provided by the provisions of the State Water Resources Control Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California", including any revisions thereto. A copy of this policy is included verbatim in the Appendix Section of this Plan.

#### **OBJECTIVES FOR OCEAN WATERS**

The provisions of the State Water Board's "Water Quality Control Plan for Ocean Waters of California" (Ocean Plan), and "Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of

California" (Thermal Plan), and any revisions thereto

shall apply. Copies of these plans are included verbatim in the Appendix Section of this Plan.

# OBJECTIVES FOR INLAND SURFACE WATERS, ENCLOSED BAYS, AND ESTUARIES

In addition to the General Objective, the specific objectives contained in Table 3-1 and the following objectives shall apply for inland surface waters, bays, and estuaries.

#### Color

Waters shall be free of coloration that causes nuisance or adversely affects beneficial uses.

#### Tastes and Odors

Waters shall not contain taste- or odor-producing substances in concentrations that impart undesirable tastes or odors to fish flesh or other edible products of aquatic origin, or that cause nuisance or adversely affect beneficial uses.

Numeric water quality objectives with regards to taste and odor threshholds have been developed by the State Department of Health Services and the U.S. EPA. These numeric objectives, as well as those available in the technical literature, are incorporated into waste discharge requirements and cleanup and abatement orders as appropriate.

#### **Floating Material**

Waters shall not contain floating material, including solids, liquids, foams, and scum, in concentrations that cause nuisance or adversely affect beneficial uses.

#### Suspended Material

Waters shall not contain suspended material in concentrations that cause nuisance or adversely affect beneficial uses.

#### Settleable Material

Waters shall not contain substances in concentrations

that result in deposition of material that causes nuisance or adversely affect beneficial uses.

concentrations shall not be reduced below the following minimum levels at any time.

#### Oil and Grease

Waters shall not contain oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water, that cause nuisance, or that otherwise adversely affect beneficial uses.

#### **Biostimulatory Substances**

Waters shall not contain biostimulatory substances in concentrations that promote aquatic growths to the extent that such growths cause nuisance or adversely affect beneficial uses.

#### Sediment

The suspended sediment load and suspended sediment discharge rate of surface waters shall not be altered in such a manner as to cause nuisance or adversely affect beneficial uses.

#### **Turbidity**

Turbidity shall not be increased more than 20 percent above naturally occurring background levels. Allowable zones of dilution within which higher percentages can be tolerated may be defined for specific discharges upon the issuance of discharge permits or waiver thereof.

#### Hq

The pH shall conform to those limits listed in Table 3-1. For waters not listed in Table 3-1 and where pH objectives are not prescribed, the pH shall not be depressed below 6.5 nor raised above 8.5.

Changes in normal ambient pH levels shall not exceed 0.2 units in waters with designated marine (MAR) or saline (SAL) beneficial uses nor 0.5 units within the range specified above in fresh waters with designated COLD or WARM beneficial uses.

#### Dissolved Oxygen

Dissolved oxygen concentrations shall conform to those limits listed in Table 3-1. For waters not listed in Table 3-1 and where dissolved oxygen objectives are not prescribed the dissolved oxygen

Waters designated WARM, MAR, or SAL.	5.0	mg/l
Waters designated COLD	6.0	mg/l
Waters designated SPWN	7.0	mg/l
Waters designated SPWN during critical		
spawning and egg incubation periods	.9.0	mg/

#### Bacteria

The bacteriological quality of waters of the North Coast Region shall not be degraded beyond natural background levels. In no case shall coliform concentrations in waters of the North Coast Region exceed the following:

In waters designated for contact recreation (REC-1), the median fecal coliform concentration based on a minimum of not less than five samples for any 30-day period shall not exceed 50/100 ml, nor shall more than ten percent of total samples during any 30-day period exceed 400/100 ml (State Department of Health Services).

At all areas where shellfish may be harvested for human consumption (SHELL), the fecal coliform concentration throughout the water column shall not exceed 43/100 ml for a 5-tube decimal dilution test or 49/100 ml when a three-tube decimal dilution test is used (National Shellfish Sanitation Program, Manual of Operation).

#### **Temperature**

Temperature objectives for COLD interstate waters, WARM interstate waters, and Enclosed Bays and Estuaries are as specified in the "Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays of California" including any revisions thereto. A copy of this plan is included verbatim in the Appendix Section of this Plan.

In addition, the following temperature objectives apply to surface waters:

The natural receiving water temperature of intrastate waters shall not be altered unless it can be demonstrated to the satisfaction of the Regional Water Board that such alteration in temperature does not

adversely affect beneficial uses.

At no time or place shall the temperature of any COLD water be increased by more than 5°F above natural receiving water temperature.

At no time or place shall the temperature of WARM intrastate waters be increased more than 5°F above natural receiving water temperature.

#### **Toxicity**

All waters shall be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population density, growth anomalies, bioassays of appropriate duration, or other appropriate methods as specified by the Regional Water Board.

The survival of aquatic life in surface waters subjected to a waste discharge, or other controllable water quality factors, shall not be less than that for the same water body in areas unaffected by the waste discharge, or when necessary for other control water that is consistent with the requirements for "experimental water" as described in **Standard Methods for the Examination of Water and Wastewater**, 18th Edition (1992). As a minimum, compliance with this objective as stated in the previous sentence shall be evaluated with a 96-hour bioassay.

In addition, effluent limits based upon acute bioassays of effluents will be prescribed. Where appropriate, additional numerical receiving water objectives for specific toxicants will be established as sufficient data become available, and source control of toxic substances will be encouraged.

#### **Pesticides**

No individual pesticide or combination of pesticides shall be present in concentrations that adversely affect beneficial uses. There shall be no bioaccumulation of pesticide concentrations found in

bottom sediments or aquatic life.

Waters designated for use as domestic or municipal supply shall not contain concentrations of pesticides in excess of the limiting concentrations set forth in California Code of Regulations, Title 22, Division 4.

Chapter 15, Article 4, Section 64444.5 (Table 5), and listed in Table 3-2 of this Plan.

#### **Chemical Constituents**

Waters designated for use as domestic or municipal supply (MUN) shall not contain concentrations of chemical constituents in excess of the limits specified in California Code of Regulations, Title 22, Chapter 15, Division 4, Article 4, Section 64435 (Tables 2 and 3), and Section 64444.5 (Table 5), and listed in Table 3-2 of this Plan.

Waters designated for use as agricultural supply (AGR) shall not contain concentrations of chemical constituents in amounts which adversely affect such beneficial use.

Numerical water quality objectives for individual waters are contained in Table 3-1.

#### Radioactivity

Radionuclides shall not be present in concentrations which are deleterious to human, plant, animal or aquatic life nor which result in the accumulation of radionuclides in the food web to an extent which presents a hazard to human, plant, animal, or indigenous aquatic life.

Waters designated for use as domestic or municipal supply (MUN) shall not contain concentrations of radionuclides in excess of the limits specified in California Code of Regulations, Title 22, Division 4, Chapter 15, Article 4, Section 64443, Table 4, and listed below:

#### MCL Radioactivity

Maximum Contaminant	
Constituent	Level, pCi/l
Combined Radium-226 and Radium	-2285

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Gross Alpha particle activity	15
(including Radium-226 but	
excluding Radon and Uranium)	
Tritium	20,000
Strontium-90	{
Gross Beta particle activity	50
Uranium	20

TABLE 3-1
SPECIFIC WATER QUALITY OBJECTIVES FOR NORTH COAST REGION

	Condi (micro	cific ictance omhos) 170F	Diss So	otal olved lids g/l)		Dissolve Oxygen (mg/l)		Id	rogen on H)	Hardness (mg/l)		oron ng/l)
	90%	50%	90%	50%		90%	50%			50%	90%	50%
Waterbody <sup>1</sup>	Upper Limit <sup>3</sup>	Upper Limit <sup>2</sup>	Upper Limit <sup>3</sup>	Upper Limit <sup>2</sup>	Min	Lower Limit <sup>3</sup>	Lower	Max	Min	Upper Limit <sup>2</sup>	Upper Limit <sup>3</sup>	
Lost River_HA												
Clear Lake Reservoir	300	200			5.0		8.0	9.0	7.0	60	0.5	0.1
& Upper Lost River	200						0.0	,,,		,	0.2	
Lower Lost River	1000	700	•		5.0		٠.	9.0	7.0	-	0.5	0.1
Other Streams	250	150			7.0		8.0	8.4	7.0	50	0.2	0.1
Tule Lake	1300	900			5.0		-	9.0	7.0	400	-	
Lower Klamath Lake	1150	850			5.0			9.0	7.0	400		-
Groundwaters <sup>4</sup>	1100	500			•		-	8.5	7.0	250	0.3	0.2
					•				•			
Butte Valley HA			•					٠,			,	,
Streams	150	100			7.0		9.0	8.5	7.0	30 -	0.1	0.0
Meiss Lake	2000	1,300			7.0		8.0	9.0	7.5	100	0.3	. 0.1
Groundwaters <sup>4</sup>	800	400			- '		- '	8.5	6.5	120	0.2	0.1
•		•										
Shasta Valley HA						•	•		1			,
Shasta River	800	600			7.0		9.0	8.5	7.0	220	1.0	0.5
Other Streams	700	400			7.0		9.0	8.5	7.0	200	0.5	0.1
Lake Shastina	300	250			6.0		9.0	8.5	7.0	120	0.4	0.2
Groundwaters 4	800	500		,	· <u>-</u>		-	8.5	7.0	180	1.0	0.3
The second second second								10				
Scott River HA			•					*	•			
Scott River	<b>350</b> .	250			7.0	. 1	9.0	8.5	7.0	100	0.4	0.1
Other Streams	400	275		•	7.0		9.0	8.5	7.0	120	0.2	0.1
Groundwaters 4	500	250	•		-		-	8.0	7.0	120	0.1	0.1
			``									
Salmon River HA												
All Streams	150	125		٠,	9.0		10.0	8.5	7.0	60	0.1	0.0
in the second se												
Middle Klamath River HA					•			•		*		
Klamath River above Iron				•								
Gate Dam including Iron							1		· <b>-</b> 0		0.2	0.2
Gate & Copco Reservoirs	425	275			7.0		10.0	8.5	7.0	. 60	' 0.3	0.2
Klamath River below Iron			í		مأم			* -	<b>-</b> 0	00	م م	0.3
Gate Dam	350	275			8.0		10.0	8.5	7.0	80	0.5	0.2
Other Streams	300	150			7.0		9.0	8.5	7.0	60	0.1	0.0
Groundwaters 4	750	600	,		<u>.</u>		· -	8.5	7.5	200	0.3	0.1
								•				
Applegate River HA							•	0.5	÷ 0		,	
All Streams	250	175			7.0		9.0	8.5	7.0	60	-	-
			. 4					$t = t - \tau_0$				
Upper Trinity River HA	200				<b>a</b> ^		100	0.5	7.0	90	0.1	0.0
Trinity River 5	200	175	+		7.0		10.0	8.5	7.0	80 .	0.1	0.0
Other Streams	200	150		* . •	7.0		10.0	8.5	7.0	60	0.0	0.0
Clair Engle Lake	200	1.50			7.0	*	10.0	8.5	7.0	. 60	0.0	0.0
and Lewiston Reservoir	200	150			7.0		10.0	8.3	7.0	. DU-	0.0	. 0.0

3-5.00

TABLE 3-1 (CONTINUED)
SPECIFIC WATER QUALITY OBJECTIVES FOR NORTH COAST REGION

	Condu (micro	cific ictance omhos) 77°F	Disso So	otal olved lids g/l)		Dissolve Oxygen (mg/l)		I	rogen . on H)	Hardness (mg/l)		oron ng/l)
Waterbody <sup>1</sup>	90% Upper Limit <sup>3</sup>	50% Upper Limit <sup>2</sup>	90% Upper Limit <sup>3</sup>	50% Upper Limit <sup>2</sup>	Min		50% Lower Limit <sup>2</sup>		Min	50% Upper Limit <sup>2</sup>		50% Upper Limit <sup>2</sup>
Hayfork Creek										,		
Hayfork Creek	400	275			7.0		9.0	8.5	7.0	150	0.2	0.1
Other Streams	300	250		•	7.0		9.0	8.5	7.0	125	0.0	0.0
Ewing Reservoir	250	200			7.0		9.0	8.0	6.5	150	0.1	0.0
Groundwaters 4	350	225	•		-	•		8.5	7.0	100	0.2	0.1
OR MILLS DI LITA							•					
S.F. Trinity River HA	055	200			7.0		10.0	0.6	7.0	100	0.0	0.0
S.F. Trinity River	275	200			7.0		10.0	8.5	7.0	100	0.2	0.0
Other Streams	250	175	,		7.0	*	9.0	8.5	. 7.0	100	0.0	0.0
Lower Trinity River HA		•				•						
Trinity River	275	200			8.0	•	10.0	8.5	7.0	100	0.2	0.0
Other Streams	250	200			9.0		10.0	8.5	7.0	100	0.1	0.0
Groundwaters 4	200	150			-		-	8.5	7.0	75	0.1	0.1
Lower Klamath River HA	`						•					
Klamath River	300 <sup>6</sup>	$200^{6}$			8.0		10.0	8.5	7.0	75 <sup>6</sup>	$0.5^{6}$	$0.2^{6}$
		125 <sup>6</sup>							7.0	25 <sup>6</sup>	0.3	
Other Streams	200 <sup>6</sup>		•		8.0		10.0	8.5	6.5			$0.0^{6}$
Groundwaters 4	300	225					-	8.5	6.5	100	0.1	0.0
Illinois River_HA												
All Streams	200	125			8.0		10.0	8.5	7.0	75	0.1	0.0
•										•		
Winchuck River HU	_	,										
All Streams	200 <sup>6</sup>	125 <sup>6</sup>		•	8.0		10.0	8.5	7.0	50 <sup>6</sup>	$0.0^{6}$	$0.0^{6}$
Smith River_HU		,	•							•		
Smith River-Main Forks	200	125			8.0		11.0	8.5	7.0	60	0.1	0.1
Other Streams	150 <sup>6</sup>	125 <sup>6</sup>			7.0		10.0	8.5	7.0	60 <sup>6</sup>	$0.1^{6}$	$0.0^{6}$
0 14 01 01 1104												
Smith River Plain HSA	2006	1.506			0.0			0.5	<b>-</b> 0	506	0.46	6
Smith River	200 <sup>6</sup>	150 <sup>6</sup>			8.0		11.0	8.5	7.0	60 <sup>6</sup>	$0.1^{6}$	$0.0^{6}$
Other Streams	1506	1256			7.0		10.0	8.5	6.5	606	0.16	0.06
Lakes Earl & Talawa	-	-			7.0		9.0	8.5	6.5	-	-	-
Groundwaters 4	350	100			-		-	8.5	6.5	75	1.0	0.0
Crescent City Harbor	<b>-</b> ,	· -						•				
Redwood Creek HU												
Redwood Creek	$220^{6}$	125 <sup>6</sup>	115 <sup>6</sup>	75 <sup>6</sup>	7.0	7.5	10.0	8.5	6.5		•	
	,											
Mad River_HU			6									
Mad River	300 <sup>6</sup>	150 <sup>6</sup>	160 <sup>6</sup>	90 <sup>6</sup>	7.0	7.5	10.0	8.5	6.5			-
Eureka Plain HU												
Humboldt Bay	-	′ -		-	6.0	6.2	7.0	8.5	7			
Eel River_HU					·	•						
Eel River	375 <sup>6</sup>	225 <sup>6</sup>	275 <sup>6</sup>	140 <sup>6</sup>	7.0	7.5	10.0	8.5	6.5		,	
Van Duzen River	375 375	175	200	100	7.0	7.5 7.5	10.0	8.5	6.5			
, van Duzen River	د ا د	175	200	100	7.0	1.5	. 10.0	o. <i>5</i>	0.5			

TABLE 3-1 (CONTINUED)
SPECIFIC WATER QUALITY OBJECTIVES FOR NORTH COAST REGION

·	Condu (micry	cific ictance ombos) 77°F	Diss So	otal olved lids g/l)	<del></del>	Dissolve Oxygen (mg/l)		Id	rogen on H)	Hardness (mg/l)		ron g/l)
Waterhody <sup>1</sup>	90% Upper Limit <sup>3</sup>	50% Upper Limit²	90% Upper Limit <sup>3</sup>	50% Upper Limit <sup>2</sup>	Min	90% Lower Limit <sup>3</sup>		Max	Min	50% Upper Limit²	90% Upper Limit <sup>3</sup>	50% Upper Limit <sup>2</sup>
South Fork Eel River	350	200	200	120	7.0	7.5	10.0	8.5	6.5			
Middle Fork Eel River	450	200	230	130	7.0	7.5	10.0	8.5	6.5	•		
Outlet Creek	400	200	230	125	· 7.0 ·	7.5	10.0	8,5	6.5			
Cape Mendocino HU								1				
Bear River	390 <sup>6</sup>	255 <sup>6</sup>	$240^{6}$	150 <sup>6</sup>	7.0	7.5	10.0	8.5	6.5			
Mattole River	$300^{6}$	170 <sup>6</sup>	170 <sup>6</sup>	105 <sup>6</sup>	7.0	7.5	10.0	8:5	6.5			
Mendocino Coast HU												
Ten Mile River	-			-	7.0	7.5	10.0	8.5	6.5			
Noyo River	185 <sup>6</sup>	$150^{6}$	$120^{6}$	105 <sup>6</sup>	7.0	7.5	10.0	8.5	6.5			
Jug Handle Creek	-	-			7.0	7.5	10.0	8.5	6.5	*	,	
Big River	$300^{6}$	195 <sup>6</sup>	$190^{6}$	$130^{6}$	7.0	7.5	10.0	8.5	6.5			,
Albion River	· · <u>-</u>	<u>.</u>		•	7.0	7.5	10.0	8.5	6.5			
Navarro River	285 <sup>6</sup>	$250^{6}$	$170^{6}$	150 <sup>6</sup>	7.0	7.5	10.0	8.5	6.5		,	
Garcia River	-	-	-	•	7.0	7.5	10.0	8.5	6.5			
Gualala River	-	-	-	-	7.0	7.5	10.0	8.5	6.5	•		
Russian River HU	at 599	•							٠,			
(upstream) 8	<b>37</b> d 320	250	170	150	7.0	7.5	10.0	8.5	6.5			
(downstream) 9	- 375 <sup>6</sup>	285 <sup>6</sup>	√ 200 <sup>6</sup>	$170^{6}$	7.0	7.5	10.0	8.5	6.5			
Laguna de Santa Rosa	-	•	• •	•	7.0	7.5	10.0	8.5	6.5	•		
Bodega Bay	· · · · · · · · · · · · · · · · · · ·	-			6.0	6.2	7.0	8.5	7		•	•
Coastal Waters 10	-			-	ñ	11	11	12	12			

Water bodies are grouped by hydrologic unit (HU), hydrologic area (HA), or hydrologic subarea (HSA).

<sup>2</sup> 50% upper and lower limits represent the 50 percentile values of the monthly means for a calendar year. 50% or more of the monthly means must be less than or equal to an upper limit and greater than or equal to a lower limit.

<sup>3</sup> 90% upper and lower limits represent the 90 percentile values for a calendar year. 90% or more of the values must be less than or equal to an upper limit and greater than or equal to a lower limit.

Value may vary depending on the aquifer being sampled. This value is the result of sampling over time, and as pumped, from more than one aquifer.

, 5	Daily Average Not to Exceed	Period	River Reach
	60°F	July 1 - Sept. 14	Lewiston Dam to Douglas City Bridge
	56°F	Sept. 15 - Oct. 1	Lewiston Dam to Douglas City Bridge
	56°F	Oct. 1 - Dec. 31	Lewiston Dam to confluence of North Fork Trinity River

<sup>6</sup> Does not apply to estuarine areas.

<sup>7</sup> pH shall not be depressed below natural background levels.

- <sup>8</sup> Russian River (upstream) refers to the mainstem river upstream of its confluence with Laguna de Santa Rosa.
- 9 Russian River (downstream) refers to the mainstem river downstream of its confluence with Laguna de Santa Rosa.

<sup>10</sup> The State's Ocean Plan applies to all North Coast Region coastal waters.

- <sup>11</sup> Dissolved oxygen concentrations shall not at any time be depressed more than 10 percent from that which occurs naturally.
- <sup>2</sup> pH shall not be changed at any time more than 0.2 units from that which occurs naturally.

- no water body specific objective available.

TABLE 3-2

INORGANIC, ORGANIC, AND FLUORIDE CONCENTRATIONS NOT TO BE EXCEEDED IN DOMESTIC OR MUNICIPAL SUPPLY <sup>1, 2</sup>

Constituent	LIMITING ( Lower	CONCENTRAT Optimum	ION IN MILL Upper	IGRAMS PER LITER  Maximum Contaminant  Level, mg/L
Fluoride <sup>3</sup>				
53.7 and below	0.9	1.2	1.7	2.4
53.8 to 58.3	0.8	1.1	1.5	2.2
58.4 to 63.8	0:8	1.0	1.3	2.0
63.9 to 70.6	0.7	0.9	1.2	1.8
70.7 to 79.2	0.7	0.8	1.0	1.6
79.3 to 90.5	0.6	0.7	0.8	1.4
Inorganic Chemica	ils			
* Aluminum				1.0
Arsenic				0.05
Barium				1.0
Cadmium				0.01
Chromium			•	0.05
Lead		•		0.05
Mercury		•		0.002
Nitrate-N (as NO	O <sub>3</sub> )			45
Selenium				0.01
Silver				0.05
Organic Chemicals	<b>,</b>			
(a) Chlorinated Hyd	Irocarbons			
Endrin			•	0.0002
Lindane				0.004
Methoxychlor				0.1
Toxaphene				0.005
(b) Chlorophenoxys				
2,4-D				0.1
2,4,5-TP (Silv	ex)			0.01
(c) Synthetics				
Atrazine	•			0.003
Bentazon			1	0.018
Benzene	5 · · · ·			0.001
Carbon Tetra	chloride			0.0005
Carbofuran				0.018
Chlordane				0.0001

#### **TABLE 3-2 (CONTINUED)**

# INORGANIC, ORGANIC, AND FLUORIDE CONCENTRATIONS NOT TO BE EXCEEDED IN DOMESTIC OR MUNICIPAL SUPPLY 1, 2

#### LIMITING CONCENTRATION IN MILLIGRAMS PER LITER

#### Constituent **Maximum Contaminant** Level. ma/L (c) Synthetics (cont'd.) 1,2-Dibromo-3-chloropropane 0.0002 1,4-Dichlorobenzene 0.005 0.005 1,1-Dichloroethane 0.0005 1,2-Dichloroethane cis-1.2-Dichloroethylene 0.006 0.01trans-1,2-Dichloroethylene 1,1-Dichloroethylene 0.006 1,2-Dichloropropane 0.005 1,3-Dichloropropene 0.0005 0.004 Di(2-ethylhexyl)phthalate 0.680 Ethylbenzene 0.00002 Ethylene Dibromide Glyphosate 0.7 0.00001 Heptachlor 0.00001 Heptachlor epoxide Molinate 0.02 0.030 Monochlorobenzene Simazine 0.010 0.001 1.1.2.2-Tetrachloroethane Tetrachloroethylene 0.005 0.07 Thiobencarb 0.200 1,1,1-Trichloroethane 1,1,2-Trichloroethane 0.032 Trichloroethylene 0.005 Trichlorofluoromethane 0.15 1.2 1,1,2-Trichloro-1,2,2-Trifluoroethane 0.0005 Vinyl Chloride

1.750

Xylenes 4

Values included in this table have been summarized from California Code of Regulations, Title 22, Division 4, Chapter 15, Article 4, Sections 64435 (Tables 2 and 3) and 64444.5 (Table 5).

The values included in this table are maximum contaminant levels for the purposes of groundwater and surface water discharges and cleanup. Other water quality objectives (e.g., taste and odor thresholds or other secondary MCLs) and policies (e.g., State Water Board "Policy With Respect to Maintaining High Quality Waters in California") that are more stringent may apply.

Annual Average of Maximum Daily Air Temperature, °F Based on temperature data obtained for a minimum of five years. The average concentration of fluoride during any month, if added, shall not exceed the upper concentration. Naturally occurring fluoride concentration shall not exceed the maximum contaminant level.

Maximum Contaminant Level is for either a single isomer or the sum of the isomers.

<sup>\*</sup> Constituents marked with an \* also have taste and odor thresholds that are more stringent than the MCL listed. Taste and odor thresholds have also been developed for other constituents not listed in this table.

# PHOTO PAGE

3-10.00 12/93

# WATER QUALITY OBJECTIVES FOR GROUNDWATERS

#### **General Objectives**

#### Tastes and Odors

Groundwaters shall not contain taste- or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses.

Numeric water quality objectives have been developed by the State Department of Health Services and U.S. EPA. These numeric objectives, as well as those available in the technical literature, are incorporated into waste discharge requirements and cleanup and abatement orders as appropriate.

#### **Bacteria**

In groundwaters used for domestic or municipal supply (MUN), the median of the most probable number of coliform organisms over any 7-day period shall be less than 1.1 MPN/100 ml, less than 1 colony/100 ml, or absent (State Department of Health Services).

#### Radioactivity

Groundwaters used for domestic or municipal supply (MUN) shall not contain concentrations of

radionuclides in excess of the limits specified in California Code of Regulations, Title 22, Division r, Chapter 15, Article 5, Section 64443, Table 4 and listed in Table 3-2 of this Plan.

#### **Chemical Constituents**

Groundwaters used for domestic or municipal supply (MUN) shall not contain concentrations of chemical constituents in excess of the limits specified in California Code of Regulations, Title 22, Division 4, Chapter 15, Article 4, Section 64435 Tables 2 and 3, and Section 64444.5 (Table 5) and listed in Table 3-2 of this Plan

Groundwaters used for agricultural supply (AGR) shall not contain concentrations of chemical constituents in amounts that adversely affect such beneficial use.

Numerical objectives for certain constituents for individual groundwaters are contained in Table 3-1.

As part of the state's continuing planning process, data will be collected and numerical water quality objectives will be developed for those mineral and nutrient constituents where sufficient information is presently not available for the establishment of such objectives.

12/93 3-11.00

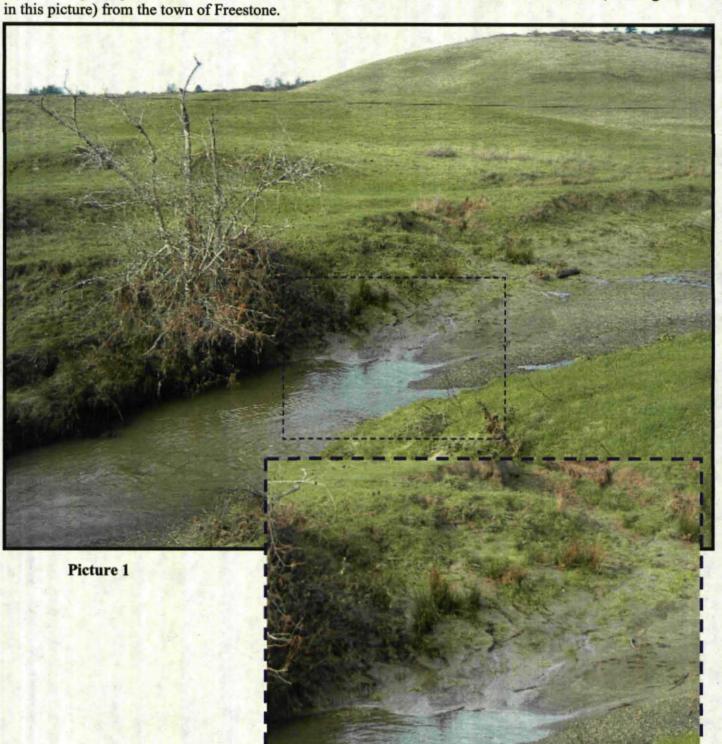
Salmon Creek Submittal from EPA data Solicitation Files: (4 Files-total Doc.) FS-ID: 100 ID - 896

Date: January 19, 2004

File: 1-15cc - Smn Crk mem 02b-page-01

Subject: Riparian Conditions Observed in Salmon Creek Watershed, Sonoma County California

The photographs presented below show streambank conditions in the Salmon Creek watershed observed on January 11, 2004. Pictures #1 through #6 show the Salmon Creek as viewed from the Bodega Hwy at the bridge over Salmon Creek, just west of the Valley Ford Cut-off Road. Pictures #1 through #4 show stream banks and upland pastureland on the north side of the road where the stream flows westward (from right to left in this picture) from the town of Freestone.



Picture 2

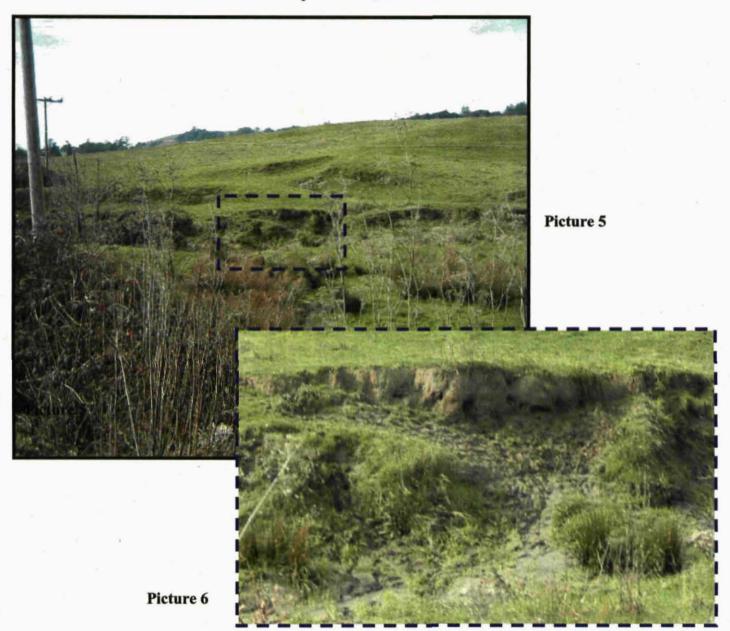
Stream banks in this area show the erosive effects of denuded banks, and channeled runoff. Pictures #3 and #4 show examples of the cattle paths up and down the banks along this stretch of creek, which can deliver significant amounts of fine-grained sediment directly to the streambed.



Picture 3



Similar erosive conditions are also evident in upland areas, as seen in Pictures #5 and #6



The land-use impacts visible on the north side of the road contrast sharply with the conditions immediately downstream, on the south side of the road where cows have been excluded. Pictures #7 and #8 show the view of Salmon Creek as it flows from the Bodega Hwy Bridge westward toward the town of Bodega



Picture 7



Picture 8

Date:

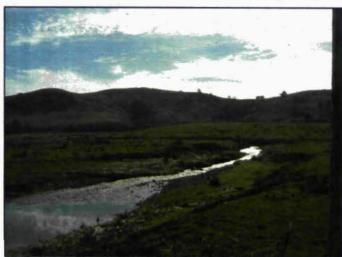
January 26, 2004

Subject:

Riparian conditions on Nolan Creek, tributary to Salmon Creek, Sonoma County, CA

This memo documents riparian conditions observed on Nolan Creek on January 11, 2004. Nolan Creek flows southward from Joy Ridge where it joins Thurston Creek before passing under the Bodega Hwy about 1000 feet west of Joy Road near the town of Bodega. Nolan Creek passes southward under the Bodega Hwy bridge where it joins Salmon Creek about 2000 feet south of the highway. The photographs below were taken from the Bodega Hwy at or near the Nolan Creek Bridge.

Picture 1 below shows Nolan Creek flowing away to the south toward Salmon Creek.





Picture 1

Picture 2

Picture 2 above looks upstream at the pastoral landscape north of Bodega Hwy at Joy Road.

Picture 3 and Picture 4 below show examples of the cattle trails and trampled, denuded stream banks that appear to provide significant sources of fine sediment d to the tributary streams and main stem of Salmon Creek.





Picture 3

Picture 4

(Same file)

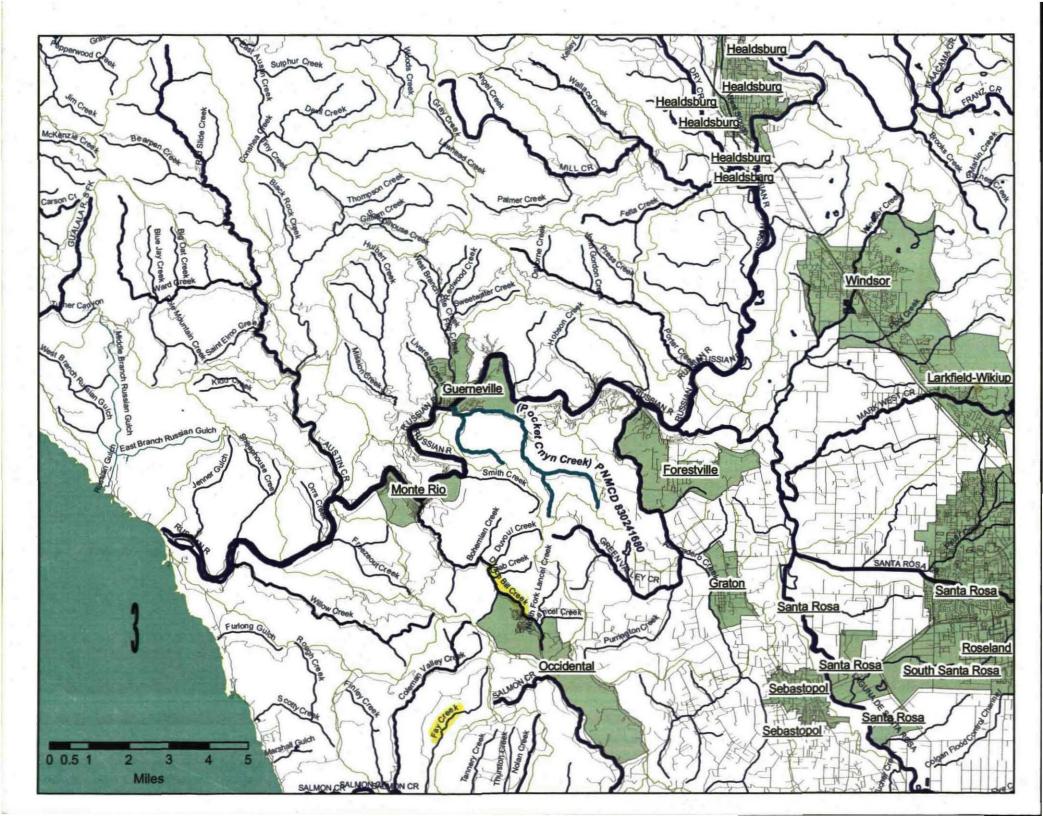
Pictures 5 and Picture 6 below illustrate fine sediment delivery to the creeks from trampled stream banks.



Picture 5



Picture 6



R1 CREEKS

**WATERSHED** 

Fay Creek

Eureka Plain HU, Salmon Creek

Tannery Creek

Thurston Creek

Salmon Creek

Westwood Creek

Can't find

Austin Creek

Russian River HU, Lower Russian River HA, Guerneville HSA (upper reaches of Austin Creek are in Russian River HU, Lower Russian River HA, Austin Creek HSA)

Big Sulphur Creek

Russian River HU, Middle Russian River HA, Big Sulphur HSA

Dutch Bill Creek

Russian River HU, Lower Russian River HA, Guerneville HSA

Lancel Creek

Russian River HU, Lower Russian River HA, Guerneville HSA

Jenner Gulch (no "creek" found)

Russian River HU, Lower Russian River HA, Guerneville HSA

Mark West Creek

Russian River HU, Middle Russian River HA, Mark West Creek HSA

Pocket Canyon

Russian River HU, Lower Russian River HA, Guerneville HSA

### TABLE 2-1: BENEFICIAL USES OF SURFACE WATERS OF THE NORTH COAST REGION

HU/HA/	HYDROLOGIC UNIT/AREA/SUBUNIT/										6	BENE	FICIA	L USE	S									,	<del>,</del>		<u>,                                    </u>	_
<u>HSA</u>	DRAINAGE FEATURE	MCN	AGR	GNI	PRO	GWR	FRSH	NAV	POW	REC1	REC2	СОММ	WARM	COLD	BSA	SAL	WILD	RARE	MAR	MIGR	SPWN	SHELL	EST	AGUA	CUL	ED	WEI	WOE
01.00	Winchuck River Hydrologic Unit							-	-																			
	Winchuck River	E	E	Ε	Р		E	Ε	Ρ	E	E	E		E			E	E		E	E	<u> </u>	ļ	Р			j	ᆫ
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	Rogue River Hydrologic Unit	<u> </u>				,				<del></del>	-	1		-				1-		I-	i.			T-			1	т-
	Ilinois River Hydrologic Area	E	E	E	P	<u> </u>	<u> E</u>	E	E	E	E_	E		E			<u> </u>	E		E	E	ļ	├	E _	<u> </u>		<del> </del>	┼
02.30	Applegate River Hydrologic Area	E	Ε	E	E	1	E	Ε	Р	ĮΕ	E	E		E			E	Ε		Е	E	<u> </u>	I	P	i i		<u> </u>	
03.00	Smith River Hydrologic Unit	1		٠.						٠,			-		_												_	<u> </u>
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	Smith River Plain Hydrologic Subarea	E	-E	HE-	P	<del> </del>	ŧ	E	<del>                                     </del>	E	E	E	1	E.	E	1	E	E	E	E	E	1	E	Р	E		$\vdash$	<b>†</b>
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	Crescent City Harbor	╫	+	+	+	1	E	E	<del>  -</del>	E	E	Ε	P	Ε	<b></b> -		<u>=</u>	E		E	╅┈┈	E	1	E			t —	$\top$
	Rowdy Creek Hydrologic Subarea	Ē	E	E	P	<del> </del>	E	E	P	Ē	E	E	ť	Ē	_		E	Ē		Ε	E	1	$\vdash$	P				T
	Mill Creek Hydrologic Subarea	E	E	E	P	<del> </del>	E	Ē	<u> </u>	Ε	F	E		E			Ē	E		Ē	E	1	_	P			<u> </u>	1.
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	North Fork Smith River Hydrologic Area	E	Ē	E	P	+	ΙĒ	Ē	E	Ē	E	E	+-	Ē	_		E	Ē	_	E	E		$\vdash$	P				$\top$
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00.00	Tribon Creek Hydrologic Area	ļ <u>-</u>	J				1	-	_	ļ-		-	1.	-														
05.00	Klamath River Hydrologic Unit	T																										_
05.10	Lower Klamath River Hydrologic Area	1	T	T			1	T		T	1										Ĺ							<b>⊥</b>
	Klamath Glen Hydrologic Subarea	E	E	P	Р	E	E	E	Р	Ε	E	E	E	E	E		E	E	E	E	E	E	E	P·	E		↓	丄
	Orleans Hydrologic Subarea	E	E	E	Р	E	E	E	Р	E	E	E	E.	Ε	E		E	E		Ε	Ε	P	E	P	E			丄
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	Salmon River Hydrologic Area	1								-	<u></u>																	
05.21	Lower Salmon Hydrologic Subarea	Ε	E	E	P	1	E	E	P	E	E	E		E			E	E	<u> </u>	E	E	P		P	E			┷
05.22	Wooley Creek Hydrologic Subarea	Ε	P ·	E	Р	E	E	E	Р	E	E	E		E	E		E	E		E	Ε.	P	<u> </u>	P	E	L	-	╀
05.23	Sawyers Bar Hydrologic Subarea	E	E	E	Ρ,		E	E	Р	E	E	E		E		1	E	E		E	E	Р	1_	Р	<u> </u>	L	ļ	4
05.24	Cecilville Hydrologic Subarea	E	E	Ε	P		E	E	Р	E	Ε.	E		E			E	E.		E	E	P	1	Р	1			1
24.4		4136		<b>342</b> 23		交替		34.00	1/205		处理	El Vic	<b>Final</b>		333			75		\$ - 47 g	MATE.		455				4	
05.30	Middle Klamath River Hydrologic Area	1																								·	<b>,</b>	_
05.31	Ukonom Hydrologic Subarea	E	E	E	E	E	E	E	Р	įΕ	E	E	E	E	E .	1	E	E		E	E		↓	P	E_	<u> </u>	ــــــ	╀-
05.32	Happy Camp Hydrologic Subarea	E	E	E	E	E	E	E	Р	E	E	E	Ε	E	Ε	<b>↓</b>	E	E	ــــــ	E	E		╄-	Р	E	ļ	<u> </u>	╀
05.33	Seiad Valley Hydrologic Subarea	E	E	E	E	Ε	E	E	Р	E	E	E	E	E	E	<u> </u>	E	E		E	E		╀	P	Ε		<del> </del>	$\bot$
05.35	Beaver Creek Hydrologic Subarea	E	E	Ε	E	E	E	E	P	E	E	Ε	E	E			Ε	E	<u> </u>	E	E			P	┞	<u>.                                    </u>	1-	+
05.36	Hombrook Hydrologic Subarea	E	E	E	E	E	Ε	Ε	Р	ĮΕ	Ε	Ε	E	E	<u></u>		E	E		E	E	<del> </del>	1	IP.	<b> </b>	<u> </u>	₩	+
	Iron Gate Hydrologic Subarea	Р	Р	Ρ	Р		E	E	E	E	E	Ε	E	E			E	E	<u> </u>	E	E	Ε.	1	E	<del> </del>	<u> </u>	╄-	+
05.38	Copco Lake Hydrologic Subarea	E	E	E	Р		E	Ε	E	E	Ε	E	Ε	E	E		E	E	<u></u>	E	E		<u> </u>	<u> </u> E				
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TABLE 2-1: BENEFICIAL USES OF SURFACE WATERS OF THE NORTH COAST REGION

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HSA	DRAINAGE FEATURE	MUN	AGR	QN	PRO	GWR	FRSH	NAV	POW	REC1	REC2	COMM	WARM	COLD	BSA	SAL	WILD	RARE	MAR	MIGR	SPWN	SHELL	EST	AQUA	<u>cur</u>	E.D	WEI
05.50	Shasta Valley Hydrologic Area									<u></u>																	
	Shasta River & Tributaries	Ε	E	E	Р	Ε.	E	E	Р	E	E	Ε	E	E			E	E		Ε	E			Ε			
	Lake Shastina	ĮΡ	E	ĮΡ	P	E	E	Ε		E	E	]	E	E			E			Ρ		<u> </u>		Р			
	Lake Shastina Tributaries	ĮΕ	E	E	Ρ	E	E	Р	Р	E	E	E	E	E			E			E	E	<u> </u>		Р			لــــا
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05.80	Butte Valley Hydrologic Area																						,				
05.81	Macdoel-Domis Hydrologic Subarea	E	E	Р	Р				E	E	E	E ·	E	E			E	E	Ш	E	E	<u> </u>		Р	· ·		igsquare
	Meiss Lake	E	E	Р	P	E				Р	E		Ε	E	<u> </u>		E				<u> </u>			Р	$oxed{oxed}$		
05.82	Bray Hydrologic Subarea.	Ε	Ε	1					Р	Ε.	E.	E	E-	<u> </u>	E		E	E		Ε	E			Р			
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05.90	Lost River Hydrologic Area																		,,		,						
5.91	Mt Dome Hydrologic Subarea	Р	E	Р	Р	JE	E	<u> </u>	Р	P	Ε	P	E	E	E		Ε	E		E	E	<u> </u>		P	$\sqcup$	<u></u>	لـــا
05.92	Tule Lake Hydrologic Subarea	Р	E	Р	Ρ	E	E		<u> </u>	P	E	E	· E·	Р	E		_	E.		Ε	E	ļ		Р			<u></u>
05.93	Clear Lake Hydrologic Subarea	P	E	IP_	Ρ.	E	E	P	Р	E	JE_	E	E	E	Ε	<u> </u>	E	E		E	E	P		Р	<u> </u>	<b></b>	<del></del>
05.94	Boles Hydrologic Subarea	Р	E	Р	Ρ	E	Ε.		Р	Р	E	Ε	E	E_	E		E	E		Ε	E	Р		Р			
	Trinity River Hydrologic Unit	_											- :					·		-							
06.10	Lower Trinity River Hydrologic Area	+-			<del>-</del> -																						
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)6.12 )6.13	Burnt Ranch Hydrologic Subarea	듵	E	E	P.	Ē	E	E	<u> </u>	E	늗	E	+	E	1	_	E	E	-	Ē	ᇀ	P	1	E		$\vdash$	$\vdash$
06.14	New River Hydrologic Subarea	늗	E	E	P	E	E	E	P	E	E	E	+	E	E	├	Ē	Ē		Ē	Ē	P		P		<del>  </del>	
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06.21	Grouse Creek Hydrologic Subarea	E	ΙE	E	Р	ΙĒ	E	ĪΕ	P	ĪΕ	ΤE	ĪE	T	lε	1		Ε	E		Ε	ĪĒ	T	Г	IΡ	Γ		
06.22	Hyampom Hydrologic Subarea	Ē	E	E	P	Ē	E	P .	E	Ē	Ē	Ē	+	Ē.	<del> </del>		E	E	ļ	Ē.	Ē.	T	-	Р			$\vdash \vdash$
06.23	Forest Glen Hydrologic Subarea	Ē	E	E	P	E	E	<del> </del>	P	E	E	E	<del> </del>	F	+		E	Ē		Ē	Ē		$\vdash$	P			
06.24	Corral Creek Hydrologic Subarea	E	Ē	E	P	ΙĒ	E	ΪE	i	ΙĒ	ᄩ	E	1	녙一	<del>                                     </del>	-	Ē	E		Ē	Ē		1	Р		$\vdash$	
06.25	Hayfork Valley Hydrologic Subarea	E	Ē	E	E	Ē	Ē	<del>-</del>	<del>l</del>	Ē	Ē	E	<del> </del>	E	<del>                                     </del>	$\vdash$	E	Ē		Ē	E	<b>—</b>		Р		$\vdash$	
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06.31	Douglas City Hydrologic Subarea	lΕ	ΙE	E	ĺΡ	lε	lE	E	ĺР	ĪΕ	TΕ	E	T T	ĪΕ	ĪΕ		E	lΕ		Ε	ĪΕ	T		Р			
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### TABLE 2-1: BENEFICIAL USES OF SURFACE WATERS OF THE NORTH COAST REGION

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11.21	Hydesville Hydrologic Subarea	E	E	E	Р	E	E	E	Р	E	E	E	E	E	E		E	E		ε	E		<u> </u>	P	E		
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11.73	Black Butte River Hydrologic Subarea	E	E	E	P		E	E	E	E		E	E	E	<u> </u>	<u> </u>	E	Ε	<u> </u>	E	E			Р			
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14.21	Laguna Hydrologic Subarea	Р	E	Ε	Р	E	E	<u>E</u>	P	E	E_	JE	E	E_	—		E	E		E	E	P		Р	╙	igspace	<u> </u>
14.22	Santa Rosa Hydrologic Subarea	E	E	E	Р	E		E	Р	E	E	E	E	E	E	<b>↓</b>		E	_	E	E	ρ.	$\vdash$	Р	<del>└</del>	igsqcut	<u> </u>
14.23	Mark West Hydrologic Subarea	Ε	E	E	P	E	E	E	Р	E	E	E	E	E		<u> </u>	E	E	_	E	E ·	Р		Р		igspace	
14.24	Warm Springs Hydrologic Subarea	E	E	E	P_	E	E	E	<u>le</u>	E	E	<u> E</u>	E.	E	E	1	E	E		E.	E	—	↓	E	lacksquare	لـنــا	<u> </u>
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14.26	Sulphur Creek Hydrologic Subarea	E	E	E	P	٤	1	E	P	E	E	E	E	E		<u>L                                     </u>	E	E		E	ĮE	<u> </u>		<u> </u>	<u> </u>	ليلا	Щ.
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14.31	Ukiah Hydrologic Subarea	E	Ε	Ε	P	E	E	E .	P	E	E	E	Ε	Æ	T		E_	E		Ε	E	P		P	/		
14.32	Coyote Valley Hydrologic Subarea	E	E	E	P	E	E	E	E	E	E	E	E	E	Τ		E	E		E	E	]	Ī	P		L	
14.33	Forsythe Creek Hydrologic Subarea	Ε	E	E	Р	E	$\top$	E	Р	E	E	E	E	E	$\top$	1	E	Ε		E	E	T	Τ.	Р			L
	Walleton Carlo Brown and Salar			•						-																	. ^
15.00	Bodega Hydrologic Unit				_																						
15.10	Salmon Creek Hydrologic Area	E	E	Īε	Р	E		E	T	Ε	E	E	T	E	ĪΕ	T	Ε	E		E	Ε	Р	E	Р	-		
5.20	Bodega Harbor (or Bay) Hydrologic Area	E	E	E	Р	E	1	E	$\top$	E	E	E	T	Ε	E		E	E	E.	E	E	E		E			
15.30	Estero Americano Hydrologic Area	E	Ε	E	P	E	$\top$	E	1	E	E	Ε	1	Ε	<del>                                     </del>	1		Ε		E	Ε	P	Ε	Р	Τ_		
5.40	Estero de San Antonio Hydrologic Area	Ε	E	Ε	Р	Ε	1-	E	T	E	E	E	T	E			E	E	E	E	E	Р	E	Р			
	Minor Coastal Streams (not listed above**)	E	Р	Р	Р	Р	Р	P	T	P	Р	E	Ρ.	Р	Р		E	E	Р	Р	Р	1	E	P	Р		
12.56	<b>图12012年 医基种异种异种种种种</b>	12		10.5	<b>新程</b> 原				500		O SET	1446	F-8.50		(40)			3077	VIII.		100	5 X 14 X			Fall.	N 102	
	Ocean Waters		T :	P	P	T	T	E.	T	E	E	Ε	T	T	P	T	E	E	E	Ε	E	E	T	E	T		
<b>同</b>	CANCEL STREET, CANCEL SPECIAL	7,114		45.7	1447		377	A. E.			200	44	data 7	46.	3. H	Capta	93.63	THE STATE	4		1233	4.27	<b>300</b>	英国运	* F-152	智等	
	Bays	Ţ	1	Р	P	1	1	ΙE	Ţ	P	JE	ĴĒ ·	Ρ.	JΕ	P	1	E	P ·	E	Ē	E	E	P	Р	P		
2			24.7		<b>**</b> ***		34 Sept.	<b>会</b> 不过	717			100	a train		24.07				200	19836		W. Z.	校建			<b>EMIS</b>	
	Saline Wetlands	1	1-	Р		IP	P	Р	T	P	P	Р	Р	Р	ĪΡ	P	Р	P	Р	Р	Р	Р	Р	Р	P	Р	E
	STATE OF THE RESERVE THE RESER	THE RE	122	14.7E								1	1 ( ) ( ) ( ) ( ) ( ) ( )	2				7 12	9.44	V. 2				N.			
	Freshwater Wetlands	P	P	P	1	IP	P	IP	1	P	P	P	IP	IP.	IP	1	Р	P	T	P	P	Р	Р	Ρ	IP	Р	E
		10.77		1.	the st	40.5			300					2016	P. 345	Marin.				7,056	75.54	16 m			1		752
	Estuaries	P	_	P	P		Р	Ε	P	E	E	P	P	E	P	1	E	Р	E	E	E	E	E		P		
						77.76									1.	025									2734		
	Groundwater	E	TE.	E	P	1	-		T COMPANY	1	1	NAME OF TAXABLE	1	1		- Value Constitution	1	1	1	1	20,20		1	7.00	E	1	

\*\*Permanent or intermittent P= Potential E=Existing

\*EST use applies only to the estuarine portion of the waterbody as defined in Chapter 2

MARCH SPORTS.