

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 83-38
NPDES NO. CA0037966

REVISED WASTE DISCHARGE REQUIREMENTS FOR:

CITY OF CALISTOGA
NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter Board), finds that:

1. The Board, on July 17, 1979, adopted Order No. 79-87 (NPDES Permit No. CA0037966) prescribing waste discharge requirements and compliance time schedules for the City of Calistoga (hereinafter discharger). This permit required tertiary treatment for all flows, required a minimum river to wastewater dilution of 10:1, and prohibited all discharges during the period May 16 through September 30.
2. The Discharger does not comply with the existing permit when discharges occur at times of the year when the flows in the Napa River do not provide the required minimum of 10:1 initial dilution (October and November). In a report entitled "Wastewater Treatment and Disposal Facilities, City of Calistoga", dated May, 1983, the discharger has proposed to increase storage capacity in the system to bring the discharge into compliance with the NPDES Permit. These facilities are expected to be completed and operational by October 1984, to handle average dry weather flows up to 0.5 million gallons per day. In this report the City has requested the Board to modify the existing effluent limitations and prohibitions to allow for a discharge of a secondary treated effluent to the river at times when the river provides a minimum of 50:1 dilution. The discharger further requested the removal of the limitation on maximum discharge.
3. The Discharger currently reclaims the wastewater beneficially during the dry weather months of the year. The discharge is covered by a separate set of water reclamation requirements contained in Regional Board Order No. 78-85.
4. Based upon a review of the water quality data for the Napa River, and the Board's previous actions with respect to regulation of other municipal discharges to the Napa River, the Board finds that the beneficial uses of the Napa River will not be significantly impaired if the effluent limitations for the wet weather months are relaxed to conform with federal secondary standards.
5. As this project is an NPDES Permit revision, this Board, pursuant to Water Code Section 13389, is not required to comply with the provisions of Chapter 3 of Division 13 of the Public Resources Code (California Environmental Quality Act).

6. The Board has notified the discharger and interested persons and agencies of its intent to prescribe revised waste discharge requirements for the City of Calistoga.
7. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that this Board's Order No. 79-87 is amended as follows:

I. Items A.1. through A.6. shall read as follows:

A. Effluent Limitations

The discharge of effluent from the tertiary plant outfall and the oxidation pond outfall shall meet one of the following sets of limitations based upon the river to wastewater dilutions as specified:

1. For a river to wastewater dilution of at least 10:1 but less than 50:1:

<u>Constituent</u>	<u>Unit</u>	<u>30-Day Average</u>	<u>Daily Maximum</u>	<u>Instan- taneous Maximum</u>
a. Settleable Matter	ml/l-hr	0.1		0.2
b. BOD	mg/l	10	20	
c. Suspended Solids	mg/l	15	30	
d. Grease & Oil	mg/l	5	10	
e. Turbidity	TU		10 for at least 95% of the time for a 24-hr period	
f. Chlorine Residual	mg/l			0.0
g. Total Coliform Organisms	MPN/100ml	At some point in the treatment process, 2.2 MPN/100 ml, median of the last seven days for which analyses have been completed		

2. For a river to wastewater dilution of at least 50:1:

<u>Constituent</u>	<u>Unit</u>	<u>30-Day Average</u>	<u>7-Day Average</u>	<u>Daily Maximum</u>	<u>Instantaneous Maximum</u>
a. Settleable Matter	ml/1-hr	0.1	-	-	0.2
b. BOD	mg/l	30	45	60	-
c. Suspended Solids	mg/l	30	45	60	-
d. Grease & Oil	mg/l	10	-	20	-
e. Chlorine Residual	mg/l	-	-	-	0.0
f. Total Coliform Organisms	MPN/100ml	At some point in the treatment process, 23 MPN/100 ml, median of the last seven days for which analyses have been completed			

3. Each discharge shall not have a pH less than 6.5 nor greater than 8.5.
4. In any representative set of samples the waste as discharged at either location shall meet the following limit for toxicity: the survival of test organisms acceptable to the Board in 96 hour bioassays of the effluent shall achieve a median of 90% survival for three consecutive samples and a 90 percentile value of not less than 70% survival for 10 consecutive samples.
5. The arithmetic mean of the values for BOD and Suspended Solids effluent samples collected in a period of 30 consecutive days shall not exceed 15 percent of the arithmetic mean of respective values for influent samples collected at approximately the same times, during the same period. (85 percent removal)
6. Representative samples of either effluent discharge shall not exceed the following limits by more than the percentage of time indicated:

<u>Constituent</u>	<u>Unit of Measurement</u>	<u>50% of time</u>	<u>10% of time</u>
Arsenic	mg/l	0.01	0.02
Cadmium	mg/l	0.02	0.03
Total Chromium	mg/l	0.005	0.01
Copper	mg/l	0.2	0.3
Lead	mg/l	0.1	0.2
Mercury	mg/l	0.001	0.002
Nickel	mg/l	0.1	0.2
Silver	mg/l	0.02	0.04
Zinc	mg/l	0.3	0.5

<u>Constituent</u>	<u>Unit of Measurement</u>	<u>50% of time</u>	<u>10% of time</u>
Cyanide	mg/l	0.1	0.2
Phenolic Compounds	mg/l	0.5	1.0
Total Identifiable Chlorinated Hydrocarbons (a)	mg/l	0.002	0.004

(a) Total Identifiable Chlorinated Hydrocarbons shall be measured by summing the individual concentrations of DDT, DDD, DDE, aldrin, BHC, chlordane, endrin, heptachlor, lindane, dieldrin, polychlorinated biphenyles, and other identifiable chlorinated hydrocarbons.

II. Item C.4., page 6, is hereby revised to read as follows:

"4. The average dry weather flow shall not exceed 0.4 million gallons per day (mgd). Average shall be determined over three consecutive months each year. The Board will consider amending the prohibition once the discharger has demonstrated that additional facilities have been constructed and are operational to meet the requirements of this Order for additional dry weather flows."

III. Item C.5., page 6, is hereby deleted.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on September 21, 1983.

FRED H. DIERKER
Executive Officer