

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 71-48

REVISED WASTE DISCHARGE REQUIREMENTS FOR  
CITY OF BENICIA

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

1. This Regional Board prescribed requirements for the City of Benicia, called the discharger below, in Resolution No. 203 on November 17, 1955, and in Resolution No. 69-39 on August 28, 1969.
2. The City of Benicia submitted a report of waste discharge dated July 22, 1970 stating that the City's existing primary treatment facilities have a design flow of 3.0 million gallons per day (mgd) and discharge these wastes:
  - a. Waste "A", about 0.6 mgd of mixed sewage and industrial wastes, is being discharged into the Carquinez Strait at a point about 300 feet offshore from the treatment plant, and at a depth of 8 feet via a 33-inch pipe called Outfall "A" below.
  - b. Waste "B", about 38,000 gallons per year of digested sludge, is discharged into existing drying beds called Land Disposal Site "L-1" at the treatment plant.
  - c. Waste "C" is untreated sewage which may be bypassed during wet weather from the discharger's sewerage systems into Carquinez Strait. Wet weather flow may exceed ten times the average dry weather flow.
3. The Board adopted a Bay Water Quality Control Plan on March 26, 1970, and a Land Disposal Control Policy on September 25, 1969.
4. The beneficial uses of the Carquinez Strait and contiguous water bodies which are affected by these discharges are:
  - a. Industrial cooling water supply year-round.
  - b. Water-skiing, pleasure boating, marinas, fishing, and hunting.
  - c. Fish and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting.
  - d. Navigation channels and port facilities.
  - e. Esthetic enjoyment.
5. Land within 1000 feet of these discharges is used for residence, transportation, and industry.

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

IT IS HEREBY ORDERED, the discharger shall comply with the following:

A. Waste Discharge Requirements

1. The treatment or disposal of these wastes shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge of Waste "A" shall not cause:
  - a. Floating, suspended or deposited macroscopic particulate matter or foam in waters of the State at any place;
  - b. Bottom deposits or aquatic growths at any place;
  - c. Alterations of temperature, turbidity, or apparent color beyond present natural background levels in waters of the State at any place;
  - d. Visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place;
  - e. Waters of the State to exceed the following limits of quality at any point:

pH	7.0 minimum 8.5 maximum
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Dissolved oxygen	5.0 mg/l minimum
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When natural factors cause lesser concentrations, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.

Dissolved sulfide	0.1 mg/l maximum
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Other substances	Any one or more substances in concentrations that impair any of the protected beneficial water uses or make aquatic life or wildlife unfit or unpalatable for consumption.
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- f. Waters of the State to exceed the following limits of quality at any place within one foot of the water surface:

Coliform organisms	240 MPN/100 ml, median of five consecutive samples, maximum.
	10,000 MPN/100 ml, maximum any single sample, when verified by a repeat sample taken within 48 hrs.
	Whenever either of these bacterial values is exceeded in the receiving water for any reason they shall both be met instead in the waste at some point in the treatment process.
	Analyses to be determined by the multiple-tube fermentation method using at least two portions per decimal dilution.

3. Waste "A" as discharged from Outfall "A" shall meet these quality limits at all times:

- a. In any grab sample or instantaneous observation:

pH	6.5 minimum 8.5 maximum
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Settleable matter

The arithmetic average of any six or more samples collected on any day 0.5 ml/l/hr. maximum

30% of all individual samples collected during maximum daily flow over any 30-day period 0.4 ml/l/hr. maximum

Any sample 1.0 ml/l/hr. maximum

- b. In any representative sample:

Toxicity: the concentration of the waste itself in the receiving waters at any point within one foot of their surface 10% of the 96-hour TL<sub>m</sub> concentration of the waste as discharged, maximum.

Toxicity of the waste stream in terms of minimum TL<sub>m</sub> or per cent survival will be prescribed in addition to the above as soon as practicable.

4. The mean daily flow of Waste "A" for any seven consecutive days shall not exceed 3.0 mgd.
5. The discharge of Waste "B" shall not cause waste material to be in any position where it is, or can be carried from Land Disposal Site "L-1" and deposited in waters of the State.
6. Land Disposal Site "L-1" shall have facilities adequate to divert surface runoff from adjacent areas, to protect boundaries of the site from erosion, and to prevent any conditions that would cause drainage from the materials in the disposal site. Adequate protection is defined as protection from at least a 100-year storm, and from the highest tidal stage that may occur.
7. The disposal of material acceptable only at Class I waste disposal sites in Land Disposal Site "L-1" is prohibited.
8. The disposal of Waste "B" and the operation of Land Disposal Site "L-1" shall be in conformance with all provisions of this Board's Resolution No. 69-42 pertaining to Class II disposal sites.
9. The bypassing of untreated sewage, Waste "C", is prohibited.

B. Provisions

1. This Order includes items numbered 1, 6 and 7 of the attached "Reporting Requirements" dated August 28, 1970.
2. This Order includes items numbered 1, 2, 3, 4, 5, and 6 of the attached "Notifications" dated January 6, 1970.
3. The City of Benicia shall comply with the following time schedule and reporting program to assure compliance with the waste discharge requirements of this order:

<u>STEP</u>	<u>COMPLETION DATE</u>	<u>STATUS REPORT DUE</u>
Complete study into sources of toxicity and file detailed program & time schedule for compliance with the toxicity requirements	December 1, 1971	December 1, 1971

4. This Regional Board's Resolution No. 203, and that part of Resolution No. 69-39 pertaining to this discharger are rescinded.

I, Fred H. Dierker, Executive Officer, do hereby certify that 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 June 24, 1971.

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Executive Officer