

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 71-73

WASTE DISCHARGE REQUIREMENTS
FOR
CITY OF CONCORD

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

1. This Regional Board prescribed requirements for waste discharged by the City of Concord, called the discharger below, in Resolutions No. 375 and No. 537 adopted respectively on October 19, 1961 and February 20, 1964.
2. The discharge is 4.8 million gallons per day (mgd) of sewage from a population of 68,000, mixed with light industrial wastes. Existing secondary treatment facilities and oxidation ponds have a design population of 50,000 and a design flow of 5 mgd. The effluent is discharged via an exposed outfall into Walnut Creek about 1700 feet upstream from Concord Avenue in Concord.
3. The Board adopted an Interim Water Quality Control Plan for the San Francisco Bay Basin on June 17, 1971.
4. The beneficial uses of Walnut Creek downstream from the discharge point are:

Wading and pleasure boating

Fish, shellfish and wildlife propagation and sustenance, and waterfowl and migratory bird habitat and resting

Esthetic enjoyment.
5. Land within 1000 feet of the discharge point is used for retail business, industry, residence, agriculture, and transportation.
6. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
7. The Board, in a public meeting on October 28, 1971, heard and considered all comments pertaining to the discharge.

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

A. Waste Discharge Requirements

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.

2. The discharge 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. Alteration of temperature 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 place within one foot of the water surface:

pH	0.1 pH unit, maximum change from natural ambient
Dissolved oxygen	Minimum - 5.0 mg/l Annual median - 80% saturation 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
Nutrients	50 ug chlorophyll a/l When background levels exceed this requirement, then this discharge shall not add further nutrients.
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.

3. The waste as discharged or at some point in the treatment process shall meet the following quality limits at all times:

Coliform organisms	2.2 MPN/100 ml, moving median of seven consecutive daily samples maximum.
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4. The waste as discharged to waters of the State shall meet these quality limits at all times:

a. In any grab sample:

pH	6.5 minimum
	8.5 maximum

b. In any representative 24-hour composite sample:

(1) Turbidity	10 units maximum
(2) 5-day BOD	5 mg/l median for any 30-day period
	10 mg/l maximum

c. In any representative set of samples:

Toxicity: survival of test fishes in 96-hour bioassays of the waste as discharged

Any determination	70% minimum
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Average of any three or more consecutive determinations made during any 21 or more days	90% minimum
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5. The mean daily discharge of waste for any seven consecutive days shall not exceed 5.0 million gallons per day.

B. Discharge Prohibitions

1. Bypassing of untreated sewage is prohibited.
2. The discharge of waste to Walnut Creek is prohibited after June 30, 1973.

C. Provisions

1. This Order includes items numbered 1, 2, 5, 6 and 7 of the attached "Reporting Requirements" dated August 28, 1970.
2. This Order includes items numbered 1, 2, 3, 4, 5, 6 and 7 of the attached "Notifications" dated January 6, 1970.
3. This Order rescinds Resolutions Nos. 375 and 537.
4. The discharger is required to file, on or before February 1, 1972, a detailed time schedule for compliance with the requirements of this

Order. Said schedule shall include dates for these steps:

Complete design

Complete financial arrangements

Start of construction

50% completion of construction

Compliance with requirements

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 October 28, 1971.

Executive Officer