

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 72-34

REVISED WASTE DISCHARGE REQUIREMENTS
FOR
THE CITY OF HALF MOON BAY

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

- A. On March 19, 1959, this Regional Board adopted Resolution No. 301 prescribing discharge requirements covering the discharge of the City of Half Moon Bay (called the discharger below) from the Half Moon Bay sewage treatment plant.
- B. The existing waste which is 0.255 mgd of primary treated sewage from a present population of about 5,000 is discharged into the Pacific Ocean near the mouth of Pilarcitos Creek 850 feet from shore and 26 feet below extreme low water. The discharge location does not conform to criteria established for ocean discharges in the San Francisco Bay Basin Interim Water Quality Control Plan.
- C. The City of Half Moon Bay has submitted a Report of Waste Discharge dated February 16, 1972, for a project to enlarge and improve its treatment facilities with discharge at the existing point of disposal, described above.
- D. Discharger proposes to install facilities to provide extended aeration treatment and necessary auxiliaries for a design flow of 1.0 mgd from a future population of 15, 000. This project is proposed as an interim improvement until permanent subregional facilities now being planned are completed.
- E. Beneficial uses of the Pacific Ocean which may be affected by these discharges are:
 - Swimming, wading, fishing and skin diving
 - Fish and wildlife propagation and sustenance, and migratory birds habitat and resting
 - Esthetic enjoyment
- F. Land within 500 feet of the treatment plant property line is used for residence, agriculture and industry.
- G. This Regional Board has notified the discharger and interested agencies and persons of its intent to prescribe revised waste discharge requirements for this discharge.

- H. This Regional Board in a public meeting on June 27, 1972, heard and considered all comments pertaining to these discharges.
- I. It is necessary to adopt requirements at this time in order to provide a basis upon which the discharger can design and construct improvements to the treatment facility. These requirements will not become effective until the proposed improvements are completed and the Board repeals the existing requirements contained in Resolution No. 301.
- J. Modifying and extending the existing outfall to achieve at least 100:1 dilution and to discharge waste at least 1000 feet offshore from the extreme low water line prior to commencing discharge of waste in excess of 0.3 mgd will not place an inordinate financial burden on the discharger.
- K. The proposed treatment facility modifications will enhance discharger's effluent quality sufficiently to assure that the level of environmental protection achieved will at all times exceed existing levels.

IT IS HEREBY ORDERED, that discharger shall comply with the noted sections below as follows:

Immediately with Sections "B 1, 2, 3 and 4",

With Section "A" in accordance with the schedule contained in Section "C.3" and after rescission of Resolution No. 301.

A. Discharge Specifications

- 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 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:

Dissolved oxygen	Annual median ~ 80% of saturation
	Minimum 5.0 mg/l
Dissolved sulfide	0.1 mg/l maximum
Nutrients	to be prescribed at the earliest practicable date

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.

f. The discharge shall not cause 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

Coliform Organisms The waste shall not cause the receiving water surface within 1000 feet offshore from extreme low water to exceed that bacterial quality prescribed in Section 7958, Title 17, California Administrative Code.

3. The waste as discharged to waters of the State shall meet these quality limits at all times:

a. In any grab sample:

pH 7.0 minimum
8.5 maximum

Settleable matter

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

80% 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, 24-hour composite sample:

Toxicity: The concentration of the waste itself in the receiving waters at any point within one foot of their surface. 10 percent of the 96-hour TLM concentration of the waste as discharged, maximum

Toxicity of the waste stream in terms of minimum TLM or percent survival will be prescribed in addition to the above as soon as practicable.

B. Prohibitions

1. The discharge of waste in excess of 0.3 mgd is prohibited until the discharger demonstrates to the Board that the new facility complies with the specifications contained in "A" above. If the discharger does comply with the specifications contained in "A" above at a flow of 0.3 mgd, the discharge may be increased under the following prohibitions.
2. Waste discharges in excess of 0.3 mgd at the present location is prohibited.
3. Waste discharges in excess of 0.6 mgd from an outfall modified to comply with the Interim Basin Plan is prohibited until the discharger demonstrates to this Board's satisfaction that the point and method of discharge will provide maximum feasible protection of beneficial water uses.
4. Waste discharges in excess of 1.0 mgd are prohibited.

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, and 6 of the attached "Notifications", dated January 6, 1970.
3. The City of Half Moon Bay shall comply with the following time schedule and reporting program to assure compliance with the waste discharge specifications above and Prohibition B.1:

<u>TASK</u>	<u>COMPLETION DATE</u>	<u>STATUS REPORT DATE</u>
Authorize Design of Interim Facilities	July 1, 1972	July 15, 1972
Complete Final Design, Interim Facilities	Sept. 1, 1972	Sept. 15, 1972
Commence Construction, Interim Facilities	Dec. 1, 1972	Dec. 15, 1972
Complete Construction, Interim Facilities	April 1, 1973	April 15, 1973
Demonstrate Compliance	June 1, 1973	June 15, 1973

4. The above waste discharge specifications will apply to any modified outfall conforming to the Interim Basin Plan.

5. This Board's Resolution No. 301 will remain in effect until repealed by the Board.

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 June 27, 1972.

Executive Officer