

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 72-3

WASTE DISCHARGE REQUIREMENTS
FOR
OCEAN DISPOSAL OF CANNERY WASTES
BY OAKLAND SCAVENGER COMPANY

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

- A. Since 1960, during the canning season between July and October, Oakland Scavenger Company has discharged annually about 22,000 tons of wastes from fruit and vegetable canneries in Emeryville, Oakland, and Hayward into the Pacific Ocean at least 20 miles offshore.
- B. This Regional Board adopted Resolution No. 335 on June 16, 1960, prescribing waste discharge requirements for ocean disposal of cannery wastes by Oakland Scavenger Company, hereinafter referred to as discharger; said requirements were superseded by new requirements in Board Resolution No. 420 adopted June 21, 1962.
- C. This Regional Board adopted its Ocean Water Quality Control Policy on May 18, 1967, which stated its intent to protect the following beneficial water uses of the Pacific Ocean in the vicinity of the cannery waste disposal areas:
 1. Hatchery and nursery ground for a wide variety of important fish and aquatic invertebrates.
 2. Commercial and sport fishing.
 3. Pleasure boating.
 4. Navigation.
 5. Esthetic enjoyment.
- D. This Regional Board adopted Resolution No. 70-100 on December 22, 1970, which
 1. Expressed the Board's intent to protect the beneficial water uses listed in Section C above.
 2. Recognized that the discharge of cannery wastes by the discharger occurs during the period when crab larvae are not present in the Gulf of the Farallones.
 3. Prohibited the discharge of cannery wastes in the ocean after November 1, 1971, unless the discharger demonstrates to the satisfaction of this Board that the wastes do not have adverse effects on water quality.
- E. The discharger has undertaken a study on the effects of cannery wastes upon water quality and beneficial water uses during the canning season of 1971 and has submitted a study report to this Regional Board.
- F. The study report was a subject of discussion at the regular Board meeting of November 23, 1971, and the discharger and all other agencies and individuals desiring to comment on the subject were heard.
- G. A review of said report and the comments received at the November 23, 1971, Board meeting, including comments by the California Department of Fish and Game in its November 18, 1971, memorandum to the Board, has led to the following conclusions:
 1. The cannery wastes are not acutely toxic to fish at concentrations anticipated to exist in the disposal area if other water quality conditions, such as pH and dissolved oxygen, are maintained near natural background levels.
 2. The cannery wastes tested showed pH values ranging from 3.6 to 3.7.
 3. The discharge of cannery wastes caused a depression in pH levels in the surface layer of ocean waters. The greatest depression measured was a decrease from an ambient level of 7.9 to 7.4. This maximum measured pH depression lasted for less than 12 minutes and covered an estimated area of 40 feet by less than 3,600 feet.
 4. The discharge of the cannery wastes caused discoloration and floatables in the ocean surface water over an estimated area of 40 feet by 9,500 feet which lasted for about half an hour.
 5. Trace amounts of the following chemicals were present in the cannery wastes:
 - a. Agricultural chemical residues:
 - 1) Chlorinated hydrocarbons
 - 2) Organophosphates
 - b. Heavy metals:
 - 1) Cadmium
 - 2) Chromium
 - 3) Copper
 - 4) Lead
 - 5) Mercury
 - 6) Zinc

- H. The Regional Board adopted an interim water quality control plan for the San Francisco Bay Basin on June 14, 1971.
- I. The Regional Board has notified the discharger and interested agencies and persons of its intent to prescribe revised waste discharge requirements for subject discharge.
- J. The Regional Board, in a public meeting on January 27, 1972, heard and considered all comments pertaining to the discharge.

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

A. Waste Discharge Prohibition

- 1. The discharge of cannery wastes from barges or vessels into the Pacific Ocean at any point less than three (3) miles offshore from straight lines drawn from the Farallon Islands to Montara Point and to Point Reyes is prohibited.
- 2. The discharge of organochloride pesticides into the Pacific Ocean in excess of 1.2 pounds per year is prohibited.

B. Waste Discharge Requirements

1. Any grab sample of wastes as discharged shall meet the following quality limits:

- a. pH - Minimum 6.5
Maximum 8.5
- b. Agricultural chemical residues:
 - 1) Organochloride pesticides - Concentrations of any or combined totals of the following chemical compound residues shall not exceed twenty-five micrograms per liter:
 - a) Aldrin
 - b) BHC
 - c) Chlordane
 - d) Lindane
 - e) Dieldrin
 - f) Endosulfan
 - g) Methoxychlor
 - h) Perthane
 - i) Toxaphene
 - j) Other organochloride pesticide
 - 2) Organophosphorus pesticides - Concentrations of any or combined totals of the following chemical compound residues shall not exceed twenty-five micrograms per liter:
 - a) Parathion
 - b) Other organophosphorus pesticides
 - 3) Pesticides other than organochloride and organophosphorus pesticides - Concentrations of any or combined totals of the following chemical compound residues shall not exceed one milligram per liter:
 - a) 2, 4 - D compounds
 - b) Other pesticides
- c. Heavy metals - Concentrations of the heavy metals shall not exceed the following limits:

<u>Metal</u>	<u>Maximum Allowable Level - mg/l</u>
1) Arsenic	1.0
2) Cadmium	0.02
3) Chromium	1.0
4) Copper	0.2
5) Lead	0.05
6) Mercury	0.005
7) Zinc	1.0

- 2. The discharge of wastes shall not cause the ocean waters to exceed the following quality limits at places more than 1,000 feet behind the discharging barge:
 - a. pH: Maximum allowable change from ambient levels - 0.1 pH unit.
 - b. Dissolved oxygen: Maximum allowable change from ambient levels both in terms of concentration and percent saturation - 10 percent.
 - c. 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 human consumption.
- 3. The discharger shall reduce to a maximum practicable extent the size of area of floating material caused by the waste discharge.

C. Provisions

1. The waste discharge requirements contained herein will be reviewed annually and will be revised if found necessary.
2. This Order includes items numbered 1 and 6 of the attached "Reporting Requirements" dated August 28, 1970.
3. This Order includes items numbered 1, 2, 3, 4, 5, and 6 of the attached "Notifications" dated January 6, 1970.
4. The Regional Board's Resolution No. 420 pertaining to this discharge is hereby rescinded.

D. Time Schedule

The discharger shall comply with the "Waste Discharge Prohibition" of "A" and "Waste Discharge Requirements" of "B" above forthwith.

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 February 24, 1972.

Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

August 28, 1970

REPORTING REQUIREMENTS

1. This Board requires the discharger to file technical reports on self-monitoring work performed according to detailed specifications developed pursuant to the Regional Board's Resolution No. 70-43. (Reference: Section 13267(b) and 13268, California Water Code.)
2. This Board requires the discharger to file a written report within 90 days after the average dry-weather waste flow for any month equals or exceeds 80% of the design capacity of his waste treatment and/or disposal facilities. The discharger's senior administrative officer shall sign a letter which transmits that report and certifies that the policy-making body is adequately informed about it. The report shall include:

Average daily flow for the month, the date on which the instantaneous peak flow occurred, the rate of that peak flow, and the total flow for that day.

The discharger's best estimate of when the average daily dry-weather flow rate will equal or exceed the design capacity of his facilities.

The discharger's intended schedule for studies, design, and other steps needed to provide additional capacity for his waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units. (Reference: Sections 13260, 13267(b) and 13268, California Water Code.)

3. This Board requires the discharger to file a time schedule for engineering studies on facilities needed to comply with the Board's receiving water objective of 5.0 mg/l of dissolved oxygen and/or to file a time schedule for deciding upon the feasibility of participating in regional water quality control systems, if he does not meet that dissolved oxygen objective after providing waste treatment facilities which comply with the effluent BOD requirement prescribed elsewhere in this Resolution. (Reference: Sections 13267(b) and 13268, California Water Code.)

4. This Board requires the discharger to file technical reports on studies into correcting violations of the Board's water quality objectives caused by discharging combined storm water and sewage. Specifications for these studies shall be developed pursuant to the Board's Resolution No. 70-43. (Reference: Sections 13267(b) and 13268, California Water Code.)

5. This Board requires the discharger to file written reports within 15 days after each calendar quarter to include:

Name of and number of lots in each subdivision for which an application has been received for connection to the sewerage system. Anticipated date of connection of each subdivision to the sewerage system.

Finding and supporting data by governing body on effect of addition of each subdivision on violation of waste discharge requirements.

(Reference: Section 11551.6 Business and Professions Code and Section 13267(b) and 13268, California Water Code.)

6. This Board requires the discharger to file a report on waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge. (Reference: Sections 13260(b) and 13264, California Water Code.)
7. This Board requires the discharger to file a written technical report at least 15 days prior to advertising for bids on any construction project which would cause or aggravate the discharge of waste in violation of these requirements; said report to describe the nature, costs, and scheduling of all actions necessary to preclude such discharge. In no case should any discharge of sewage bearing wastes be permitted without at least primary treatment and chlorination. (Reference: Sections 13267(b) and 13268, California Water Code.)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

January 6, 1970

NOTIFICATIONS

1. This Board requests the discharger to take note of the comments and recommendations contained in all the correspondence the Board has received and considered concerning this matter, and the Executive Officer is directed to transmit copies of that correspondence to the discharger.
2. This Board considers "Waters of the State" as defined in Section 13050(e) of the California Water Code to include waste waters over which the discharger has lost control.
3. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the discharger from his liabilities under Federal, State, or local laws, nor guarantee the discharger a capacity right in the receiving waters.
4. This Board will prescribe more restrictive requirements for this waste discharge if necessary:
 - To achieve or maintain dissolved oxygen concentration of at least 5.0 mg/l in tidal waters of the San Francisco Bay System pursuant to Resolution No. 67-30,
 - To protect shellfishing areas which the Board designates pursuant to Resolution No. 803,
 - To protect the beneficial water uses, and to achieve other objectives adopted in the resolutions cited above.
5. This Board will review these requirements periodically, as required by law, and will notify the responsible persons before doing so. (Reference: Section 13263(e), California Water Code.)
6. The water quality parameters used in this resolution are as defined in the latest edition of "Standard Methods for the Examination of Water and Wastewater by the American Public Health Association.
7. The discharger is advised that this Board will use the general concepts of Phase I of the plan recommended by the Final San Francisco Bay-Delta Program Report as guidelines in reviewing any application for construction grants for sewerage facilities proposed to comply with these requirements, and if the discharger intends to make such application he must demonstrate the compatibility of the proposed facilities with the general concepts of the Bay-Delta Program.