

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

RESOLUTION NO. 70-99

PRESCRIBING REVISED REQUIREMENTS AS TO THE NATURE OF WASTE DISCHARGES BY STANDARD OIL COMPANY OF CALIFORNIA, WESTERN OPERATIONS, INC., INTO SAN PABLO BAY NEAR HERMAN'S SLOUGH, RICHMOND, CONTRA COSTA COUNTY AND RESCINDING RESOLUTION NO. 628

WHEREAS THIS REGIONAL BOARD HAS CONSIDERED

INFORMATION ABOUT THIS DISCHARGE

1. This Regional Water Quality Control Board prescribed requirements for Standard Oil Company of California, Western Operations, Inc., called the discharger below, in Resolution No. 628, adopted January 21, 1965.

2. Information in the Regional Board's files describe these existing waste discharges as follows:

a. Waste "A" is cooling water and process wastes from manufacturing refined petroleum products, ammonia, nitric acid, and other chemicals, and contains sewage from 1000 plant employees.

Waste "A" treatment facilities include units to remove or destroy specific waste components at their process sources, oil separators, and oxidation ponds with aerators.

Waste "A" is being discharged below the surface of San Pablo Canal at points about 2500 feet generally SSE from the mouth of Castro Creek, also known as Herman's Slough, via four 48-inch and two 36-inch siphons, and any or all of these are identified herein as "Outfall A", at an average of 115 mgd.

b. Waste "B" is closed, once-through cooling water only from the alkane area.

Waste "B" is being discharged into San Pablo Bay at its shore generally northeast of the Catalytic Cracking Division Office Building and about 3000 feet generally southwest from the mouth of Castro Creek via a flume, herein identified as "Outfall B", at a rate of about five million gallons per day.

3. This Regional Board has stated intent to revise requirements for existing waste discharges to conform with the Bay Water Quality Control Plan.

CORRESPONDENCE

This Regional Board has considered recommendations about this matter from:

1. State Department of Fish and Game in its memoranda dated November 9 & 20, 1970.
2. State Department of Public Health in its memorandum dated December 11, 1970.
3. State Department of Water Resources in its memorandum dated November 18, 1970.

STAFF INVESTIGATION

1. These wastes can affect the following present beneficial water uses in San Pablo Bay and contiguous water bodies:

Industrial cooling water supply year-round

Swimming, water-skiing, pleasure boating, marinas, fishing and hunting

Fish and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting

Esthetic appeal.

2. Land within 1000 feet of the Outfalls is used for industry and sanitary landfill.

RESOLVED BY THIS REGIONAL BOARD

BOARD INTENT

1. Protect public health as it may be affected by this waste discharge.
2. Prevent nuisance, as defined in Section 13050(m) of the California Water Code.
3. Protect the beneficial water uses listed under "Staff Investigation" above.

WASTE DISCHARGE REQUIREMENTS - RECEIVING WATERS

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:

a. Unreasonably affect any of the protected beneficial water uses resulting from:

Floating, suspended; or deposited macroscopic particulate matter or foam, in waters of the State at any place;

Bottom deposits at any place;

Aquatic growths at any place;

Alteration of temperature, turbidity, or apparent color beyond present natural background levels in waters of the State at any place.

b. Cause visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place.

c. Cause waters of the State to exceed the following limits of quality at any point:

Dissolved oxygen

5.0 mg/l minimum

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

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.

WASTE DISCHARGE REQUIREMENTS - WASTE STREAM

1. The waste discharged from Outfalls "A" and "B" shall meet these quality limits at all times:

a. In any grab sample:

pH

7.0 minimum

8.5 maximum

Settleable matter

0.5 ml/l/hr., maximum

- b. In any representative set of samples:

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

Any determination 70%, minimum

Average of any three or more consecutive determinations made during any 21 or more days 90%, minimum

- c. In any representative, 24-hour composite sample:

Grease 15 mg/l maximum

2. The waste discharged from Outfall "A" shall meet these additional quality limits at all times:

- a. In any representative, 24-hour composite sample:

Aluminum, dissolved 1.0 mg/l, maximum

Chromium, total 1.0 mg/l, maximum

Copper 0.5 mg/l, maximum

Lead 0.05 mg/l, maximum

Mercury 0.005 mg/l, maximum

Zinc 1.0 mg/l, maximum

Nutrients to be prescribed at the earliest practicable date

Ammonium hydroxide, undissociated to be prescribed at the earliest practicable date

- b. The MPN of coliform organisms in the waste at some point where all its sewage component is present shall not exceed 1000 per 100 ml, provided that:

Not more than 20% of the samples in any 30-day period shall exceed 1000 per 100 ml

No single sample when verified by a repeat sample taken within 48 hours shall exceed 10,000 per 100 ml, maximum

REPORTING REQUIREMENTS

1. Pursuant to Sections 13267(b) and 13268 of the California Water Code, the Regional Board requires the discharger to file by December 31, 1970, a technical report including a schedule for achieving compliance with the waste discharge requirements contained in this resolution.
2. This Resolution includes items numbered 1, 3, 6, and 7 of the attached "Reporting Requirements", dated August 28, 1970.

NOTIFICATIONS

1. This Board's Resolution No. 628 is rescinded.
2. This Resolution includes items numbered 1, 2, 3, 4, 5, and 6 of the attached "Notifications", dated January 6, 1970.
3. Maximum allowable concentrations of heavy metals will be reviewed and may be reduced in the future to provide protection of the environment.

WILLIAM C. WEBER  
Chairman

December 22, 1970

I, Fred H. Dierker, hereby certify that the foregoing is a true and correct copy of Resolution No. 70-99 adopted by the California Regional Water Quality Control Board - San Francisco Bay Region at its regular meeting on December 22, 1970.

FRED H. DIERKER  
Executive Officer  
CALIFORNIA REGIONAL WATER QUALITY CONTROL  
BOARD - SAN FRANCISCO BAY REGION



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: Sections 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 Sections 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.

