

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

RESOLUTION NO. 70-27

PRESCRIBING REVISED REQUIREMENTS FOR WASTE DISCHARGE
BY SAN PABLO SANITARY DISTRICT OF CONTRA COSTA COUNTY
INTO SAN PABLO BAY NEAR RICHMOND, CONTRA COSTA COUNTY,
AND RESCINDING RESOLUTION NO. 69-38

WHEREAS THIS REGIONAL BOARD HAS CONSIDERED

INFORMATION ABOUT THIS DISCHARGE

1. This Regional Water Quality Control Board prescribed requirements for San Pablo Sanitary District of Contra Costa County, called the discharger below, in Resolution No. 69-38, adopted August 28, 1969.
2. Information in the Regional Board's files describe this existing waste discharge as sewage mixed with industrial waste. The connected population is 60,000 persons and the average daily dry-weather flow is six mgd.
3. Existing primary sewage treatment facilities have a design population of 70,000 persons and a design flow of seven mgd, and provide effluent disinfection. Outfall "A" is a 36-inch pipe which discharges the treated effluent into a ditch at a point about 200 feet north from the Parshall flume in the treatment plant. That ditch, Outfall "B", conveys the effluent about 4200 feet to a point about 5400 feet west from the intersection of Garden Tract Road and Parr Boulevard, where the effluent enters San Pablo Bay above mean lower low water.

CORRESPONDENCE

This Regional Board has considered recommendations about this matter from:

1. State Department of Water Resources in its memorandum dated August 18, 1969.
2. State Department of Public Health in its memorandum dated August 8, 1969.
3. Contra Costa County Health Department in its letter dated August 1, 1969.

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 water-fowl and migratory birds habitat and resting

Esthetic appeal.

2. Land within 1000 feet of the Outfalls is used for industry, farming, 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.
4. To amend Resolution No. 69-38 to make the code references consistent with the Porter-Cologne Water Quality Control Act which became operative on January 1, 1970 without making any substantive changes in the specific requirements contained therein.

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 offshore from Outfall "B";
 - Aquatic growths at any place offshore from Outfall "B";
 - Alteration of temperature, turbidity, or apparent color beyond present natural background levels in waters of the State at any place offshore from Outfall "B".
 - 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 offshore from Outfall "B":

Dissolved oxygen	5.0 mg/l minimum
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

The waste discharged from Outfall "B", except as otherwise indicated below, shall meet these quality limits at all times:

1. 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

2. In any representative sample:

Toxicity: survival of test fishes in 96-hour bioassays of the waste as discharged	
Any sample	75% minimum
Average of any three or more consecutive samples collected during any 21 or more days	90% minimum

The Regional Board will review this toxicity requirement in comparison with the discharger's accomplishments toward meeting the requirement by treatment and tighter control of industrial wastes discharged to its system, together with pertinent cost and other data, during the third quarter of 1972.

3. 5-day 20°C BOD removal from the waste as indicated by analysis of 24-hour composite samples of effluent discharged from Outfall "A" and influent shall be sufficient to maintain the dissolved oxygen concentration prescribed above. When the dissolved oxygen is less than the concentration prescribed above the BOD removal during the preceding 21 days shall be at least

Average 90%

Not more than two consecutive
daily determinations shall
indicate BOD removals less than 80%

4. Bacterial quality of the waste at some point in the treatment process, at or upstream from Outfall "A", shall be within the limits prescribed in Section 7958, Title 17, California Administrative Code, at all times.

The Board will accept proof of effective effluent disinfection in terms of factors other than bacterial concentrations if the discharger documents a sound statistical correlation between the disinfection data and bacterial analysis.

REPORTING REQUIREMENTS

1. Pursuant to Sections 13267(b) and 13268 of the California Water Code, this Regional Board requires the discharger to file quarterly reports on studies into the toxicity of industrial wastes tributary to the sewer system, and on actions taken to reduce the toxicity of its waste discharge. The reports shall be filed fifteen days after each calendar quarter.
2. This Resolution includes items numbered 1 through 7 of the attached "Reporting Requirements", dated January 1, 1970.

NOTIFICATIONS

1. This Board's Resolution No. 69-38 is hereby rescinded.
2. This Resolution includes items numbered 1, 2, 3, 4, 5, 6 and 7 of the attached "Notifications", dated January 6, 1970.

WILLIAM C. WEBER
Chairman

March 26, 1970

I, Fred H. Dierker, hereby certify that the foregoing is a true and correct copy of Resolution No. 70-27 adopted by the California Regional Water Quality Control Board - San Francisco Bay Region at its regular meeting on March 26, 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
January 1, 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. 398. (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. 398. (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.