

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 72-11

WASTE DISCHARGE REQUIREMENTS  
FOR  
SONOMA VALLEY COUNTY SANITATION DISTRICT, SONOMA COUNTY

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

- A. This Regional Board prescribed requirements for waste discharged by the Sonoma Valley County Sanitation District, called the discharger below, in Resolutions Nos. 229, 443, and 69-40 adopted respectively on November 15, 1956, January 17, 1963, and August 28, 1969.
- B. The discharge includes:
  1. Waste "A" is 1.5 million gallons per day (mgd) of sewage and industrial waste discharged during dry weather from approximately 24,000 people into Schell Slough, through Steamboat Slough, Third Napa Slough, Second Napa Slough, and Sonoma Creek to San Pablo Bay. The design capacity of the plant is 2.0 mgd for the primary treatment facilities and 4.0 mgd for the secondary treatment facilities.
  2. Waste "B" is wet weather untreated sewage bypassed from the discharger's sewerage system. Any flow in excess of 6 mgd is bypassed at the treatment plant. Bypassing has occurred at the plant and from overflowing manholes within the sewer service area.
- C. The Board adopted an Interim Water Quality Control Plan for the San Francisco Bay Basin on June 14, 1971.
- D. The beneficial uses of Schell Slough, Steamboat Slough, Third Napa Slough, Second Napa Slough, Sonoma Creek, and contiguous waters are:
  - Swimming and wading in lower reaches
  - Pleasure boating
  - Hunting and fishing
  - Fish migration and spawning in Sonoma Creek
  - Fish, shellfish and wildlife propagation and sustenance, and waterfowl and migratory bird habitat and resting
  - Agricultural irrigation of crop and pasture land but not for milch cow grazing
  - Esthetic enjoyment
- E. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
- F. The Board, in a public meeting on March 28, 1972, heard and considered all comments pertaining to the discharge.

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

A. Waste 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. Waste "A" shall not cause:
  - a. Floating, suspended, or deposited macroscopic particulate matter or foam in waters of the State at any place;
  - b. Bottom deposits 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	*2.0 mg/l, minimum in tidal Schell Sough and Schell Creek
	*5.0 mg/l, minimum in Steamboat Slough, Railroad Slough, Third Napa Slough, and Second Napa Slough
	*6.0 mg/l in Sonoma Creek.
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.
3. Waste "A" 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
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  - 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. \* Any 6-hour composite sample made up of portions collected at hourly intervals in proportion to rate of flow at time of collection:

- |                            |                        |
|----------------------------|------------------------|
| (1) 5-Day, 20°C, BOD       | - 50 mg/L, maximum     |
| (2) Settleable Matter      | - 0.5 ml/L/hr, maximum |
| (3) Total Suspended Matter | - 75 mg/L, maximum     |

4. \* Waste "A" as discharged or at some point in the treatment process shall meet the following quality limits at all times:

Coliform Organisms

Bacterial quality shall be within the limits prescribed in Section 7958, Title 17, California Administrative Code

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.

5. The mean daily discharge of waste for any seven consecutive days shall not exceed 4.0 million gallons per day.

B. Discharge Prohibitions

1. Bypassing of untreated sewage, Waste "B", is prohibited.
2. The discharge of Waste "A" within 200 feet offshore from the extreme low water line is prohibited.

C. Provisions

1. This Order includes items numbered 1, 2, 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 No. 229, 443, 648, 649, 753, and 754 and supersedes all prior requirements for this discharge.
4. The discharger shall comply with the following time schedule to assure compliance with the discharge specifications or prohibitions of this order:

<u>TASK</u>	<u>COMPLETION DATE</u>	<u>STATUS REPORT DUE</u>
a. Compliance with Prohibition B. 1.	Forthwith	Every six months beginning April 30, 1972
b. Maximize compliance with toxicity (Specification A.3.b)	December 31, 1973	Every six months beginning April 30, 1972

\*This specification continued from Resolution No. 443 or 69-40.

<u>TASK</u>	<u>COMPLETION DATE</u>	<u>STATUS REPORT DUE</u>
c. Complete Conceptual Plan and submit Time Schedule for compliance with the Prohibition B.2 and Specification A.3.b.	July 1, 1972	July 15, 1972
d. Submit Conceptual Plan and Time Schedule for completion of program to eliminate maximum feasible amount of infiltration from sewer system.	July 1, 1972	July 15, 1972
e. Compliance with all Discharge Specifications other than that covered in item C.4.b above.	Forthwith	As required by self-monitoring program

I, Fred H. Dierker, Executive Officer, do thereby 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 March 28, 1972.

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Executive Officer

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.

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.)