

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 72-48

WASTE DISCHARGE REQUIREMENTS
FOR
AQUA MEDIA, INC.
SANTA CLARA COUNTY

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

1. Aqua Media, Inc., called the discharger below, submitted a report of waste discharge dated November 16, 1971.
2. The discharger proposes to produce high purity water from city water by processes including sand filtration and reverse osmosis. The waste is a mixture of sand filter backwash and reverse osmosis concentrate. Volume is about 50,000 gallons per day.
3. Waste will be discharged from discharger's property at 3800 Homestead Road, City of Santa Clara, into Calabazas Creek.
4. This Board adopted an interim water quality control plan for the San Francisco Bay Basin on June 14, 1971.
5. The beneficial uses of Calabazas Creek which may be affected by this discharge are:

Area Drainage

Fish and wildlife propagation and sustenance and migratory bird habitat and resting

Esthetic enjoyment

6. This Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
7. The Board in a public meeting on July 25, 1972, heard and considered all comments pertaining to this discharge.

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

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 turbidity, or apparent color beyond present natural background levels in waters of the State at any place;
 - d. Waters of the State to exceed the following limits of quality at any point:

Dissolved Oxygen	5.0 mg/l minimum
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Toxic or Other Deleterious Substances	None shall be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife or water fowl or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
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- e. The discharge shall not cause waters of the State to exceed the following limits of quality at any place:

pH	0.1 pH unit, maximum change from natural ambient
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Temperature	4 ^o F, maximum rise from natural ambient
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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
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Settleable matter	
The arithmetic average of any five consecutive samples	0.1 ml/l/hr maximum

Any sample	0.5 ml/l/hr maximum
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Turbidity	20 turbidity units 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 determ-
inations made during any
21 or more days 90% minimum

c. The average daily discharge of waste for any seven consecutive days shall not exceed 0.05 million gallons per day.

The maximum daily rate of discharge shall not exceed 0.07 mgd.

B. Provisions

1. This Order includes items numbered 1 and 6 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.

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 July 25, 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.