

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

RESOLUTION NO. 70-90

AMENDING RESOLUTION NO. 69-25 PRESCRIBING REQUIREMENTS
FOR WASTE DISCHARGE BY THE UNITED STATES AIR FORCE,
FROM MILL VALLEY AIR FORCE STATION ONTO LAND WITH WET
WEATHER RUNOFF ON THE ALPINE LAKE WATERSHED, MARIN
COUNTY

WHEREAS THIS REGIONAL BOARD HAS CONSIDERED

INFORMATION ABOUT THIS DISCHARGE

1. This Regional Board adopted Resolution No. 69-25 prescribing waste discharge requirements for the United States Air Force, Mill Valley Air Force Station, called the discharger below, onto land on Alpine Lake Watershed, Marin County.
2. The discharger filed a Report on Waste Discharge dated October 28, 1970 and submitted the following supplemental material: "Preliminary Design Analysis For Sewage Treatment and Disposal Addition Project No. MIL 11-1 At Mill Valley Air Force Station, California" and drawing No. MIL-831-002 entitled "Sewage Treatment And Disposal".
3. The Report on Waste Discharge and other data describe the proposed waste discharges as follows:
 - A. Base buildings numbers 106 and 404 are served by septic tanks with leaching fields.
 - B. Flow from the sewer system is sewage only, is anticipated to be less than 27,000 gpd during heavy rainstorms and will be treated such that the effluent from the treatment plant will, at all times, meet requirements for Non-restricted Recreational Impoundment as specified in Sections 8047 and 8033, Title 17 of the California Administrative Code.
 - C. The effluent from the treatment plant will be sprayed on the existing 66,600-square foot spray fields. During times of heavy rainfall surface water will run off the spray field carrying some of the effluent to the waterway, East Fork Creek, Swede George Creek and Alpine Lake.
 - D. All sludge produced in the treatment processes will be trucked to an approved disposal site off the Alpine Lake watershed.

CORRESPONDENCE

This Regional Board has considered recommendations about this matter from:

1. State Department of Fish and Game in its memorandum dated November 12, 1970.
2. State Department of Public Health in its memorandum dated November 20, 1970.
3. State Department of Water Resources in its memoranda dated November 16, 1970 and November 18, 1970.
4. Marin County Health Department in its letters dated October 28, 1970 and November 12, 1970.
5. Marin Municipal Water District in its letters dated November 2, 1970 and November 18, 1970.

STAFF INVESTIGATION

1. These wastes can affect ground water and the following present beneficial water uses in East Fork Creek, Swede George Creek, Alpine Lake and contiguous water bodies:

Domestic water supply

Fishing

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

Esthetic appeal.

2. Land within 1000 feet of the spray field is used for a radar station, residence, recreation, and transportation. The Alpine Lake watershed which surrounds the Mill Valley Air Force Station atop Mt. Tamalpais is used as a lookout over the surrounding area and for hiking and picnicking.

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. Amend Resolution No. 69-25; revise the requirements relating to runoff of reclaimed waste water suitable for non-restricted recreational impoundment from the spray field and prescribing requirements for the proposed discharge.

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 waste discharges 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:

pH	7.0 minimum 8.5 maximum
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Dissolved oxygen	7.0 mg/l minimum
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Dissolved sulfide	0.1 mg/l maximum
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Nutrients	to be prescribed at the earliest practicable date
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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.
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3. Wastes and runoff as it enters Lake Alpine shall not exceed the following limits of toxicity:

Survival of test fishes in 96-hour bioassays Any determination	70% minimum
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Average of any three or more consecutive determinations made during any 21 or more days	90% minimum
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WASTE DISCHARGE REQUIREMENTS - WASTE STREAM

1. Wastes discharged to the spray disposal field shall meet these quality limits at all times:
 - A. The waste shall meet quality requirements equivalent to those which would result from conformance with Section 8047 of Title 17, California Administrative Code.
 - B. The waste as discharged, or at some point in the treatment process, shall be adequately disinfected, and for the purpose of this Resolution, adequate disinfection shall mean any disinfection which produces a moving median coliform MPN value not exceeding 2.2 per 100 milliliters at some point in the treatment process, providing that moving median values shall be determined from:
 1. Consecutive results obtained from samples collected on the previous seven sampling days, and
 2. Samples shall be collected at a frequency of at least seven days each week, and
 3. Samples shall be collected during those periods when the coliform MPN has been demonstrated to be at its daily maximum.
 - C. Turbidity 10 units, maximum
 - D. 5-day BOD 5 mg/l, median
10 mg/l, maximum
 - E. Total Suspended Matter 5 mg/l, maximum
2. The effluent from all septic tanks shall be kept entirely below the ground surface at all times.
3. All sludge from the waste treatment processes shall be disposed of at a site which meets the criteria of this Board's "Land Disposal Policy".

PROHIBITION

Pursuant to Section 13243 of the California Water Code the discharge of wastes to the spray disposal field failing to meet the above requirements is prohibited at all times.

REPORTING REQUIREMENTS

This Resolution includes items numbered 1, 6, and 7 of the attached "Reporting Requirements", dated August 28, 1970.

NOTIFICATIONS

This Resolution includes items numbered 1 through 6 of the attached "Notifications", dated January 6, 1970.

WILLIAM C. WEBER
Chairman

November 24, 1970

I, Fred H. Dierker, hereby certify that the foregoing is a true and correct copy of Resolution No. 70-90 adopted by the California Regional Water Quality Control Board - San Francisco Bay Region at its regular meeting on November 24, 1970.

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