

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 71-24

AMENDING RESOLUTION NO. 68-68 TO PRESCRIBE ADDITIONAL WASTE
DISCHARGE REQUIREMENTS FOR THE STAUFFER CHEMICAL COMPANY
PLANT AT MARTINEZ, CONTRA COSTA COUNTY

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

1. On December 18, 1968 this Regional Board adopted Resolution No. 68-68, "Prescribing Requirements for Waste Discharge by Stauffer Chemical Company into Carquinez Strait in Martinez, Contra Costa County."
2. Discharges originating from this plant, but not under requirements, include:
 - a. Waste "G", which is industrial waste only and consists of the partially treated sulfuric acid manufacturing waste (called Waste "A" in Resolution No. 68-68). Waste "G" is circulated through a settling pond, identified herein as Land Disposal Site "L-5", to neutralize and clarify the waste. Waste "G" is a Type I waste.
 - b. Waste "H", which is industrial waste only and consists of storm drainage from the discharger's sulfuric acid manufacturing plant. Waste "H" may contain process material spilled or otherwise lost. It is discharged via an 18-inch pipe, identified herein as Outfall "H", at a point about 200 feet east of the eastern edge of the acid plant, into a ditch that flows to an un-named slough tributary to Carquinez Strait.
 - c. Waste "I", which is industrial waste only, and consists of storm drainage from the discharger's storage tank area. Waste "I" may contain process material spilled or otherwise lost. It is discharged via an 18-inch pipe, identified herein as Outfall "I", at a point about 500 feet south of Outfall "H", into a ditch that flows to an un-named slough tributary to Carquinez Strait.
 - d. Waste "J", which is industrial waste only, and consists of drainage and other outflow from cinder piles and cinder-filled areas. Waste "J" is acidic and contains certain heavy metals; it enters Carquinez Strait and sloughs at numerous points along the north and east sides of the discharger's plant site. These points are identified collectively as Outfall "J".
3. This Regional Board adopted a Bay Water Quality Control Plan on March 26, 1970, and a Land Disposal Control Plan on September 25, 1969.
4. This Regional Board has notified the discharger and interested agencies and persons of its intent to prescribe additional waste discharge requirements for this plant.

5. This Regional Board in a public meeting heard and considered all comments pertaining to these discharges.

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

A. Waste Discharge Requirements

1. The treatment or disposal of these wastes shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge of Wastes "H", "I" and "J" 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. 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:

pH	7.0, minimum 8.5, maximum
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Dissolved oxygen	5.0 mg/l, minimum
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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
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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. The waste discharged from Outfalls "H", "I" and "J" 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 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.

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 sample:

Grease 15 mg/l, maximum

Nutrients to be prescribed at the earliest practicable date.

4. Waste "J" as discharged shall meet these additional quality limits at all times in any representative sample:

a. Copper 0.5 mg/l, maximum

b. Iron, dissolved:

Any such sample 7.0 mg/l, maximum

Average of any five consecutive samples 3.0 mg/l, maximum

c. Zinc 1.0 mg/l, maximum.

5. Except for fully treated effluent being discharged as Waste "A" in compliance with its waste discharge requirements, Waste "G" and all internal drainage of its disposal site shall be confined within Land Disposal Site "L-5" at all times, and

- a. Land Disposal Site "L-5" shall have facilities adequate to divert surface runoff from adjacent areas, to protect the boundaries of the site from erosion, to prevent conditions that would cause drainage or seepage from the site, and to protect the site from flooding by tidal or storm water. Adequate protection is defined as protection from at least a 100-year storm and from the highest tidal stage that may occur.
- b. No component of Waste "G" shall be on or below the ground surface outside of Land Disposal Site "L-5".

B. Provisions

- 1. Pursuant to Section 13263(c) of the California Water Code, this Regional Board adopts the following time schedule for compliance with the above requirements:

COMPLIANCE STEP	COMPLETION DATE	STATUS REPORT DUE
a. Comply with all requirements for Wastes "H" and "I"	May 14, 1971	May 28, 1971
b. Complete study into problems affecting compliance with requirements for Wastes "G" and "J"	May 14, 1971	May 28, 1971
c. Complete specific plans for complying with all requirements for Wastes "G" and "J"	May 28, 1971	June 11, 1971
d. File with this Regional Board a time schedule for the major steps leading to compliance with all the requirements	June 11, 1971	June 11, 1971
e. Implement a program for preventing accidental spills, or for their fail-safe control	Aug. 31, 1971	May 11, 1971 June 11, 1971 July 11, 1971 Aug. 11, 1971 Sep. 11, 1971

- 2. New retention basins to contain spills shall be reported pursuant to Section 13260 of the California Water Code.
- 3. This Order includes items numbered 1, 6, and 7 of the attached "Reporting Requirements", dated August 28, 1970.
- 4. 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 April 22, 1971.

Executive Officer