

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 86-25

NPDES NO. CA0028126

WASTE DISCHARGE REQUIREMENTS FOR:

MOE SAND COMPANY
OAKLAND, ALAMEDA COUNTY

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

1. Moe Sand Company, hereinafter called the discharger, by application dated March 3, 1986, has applied for reissuance of waste discharge requirements and permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).
2. The discharger maintains three retention ponds for its sand reclamation operation. The sand is hauled in barges to the facility site where it is hydraulically pumped ashore into a primary pond from which the sand settles out and the decanted water flows into a second pond for clarification and then discharged through a 16-inch pipe into the Oakland Inner Harbor Channel. The third pond can be activated to receive the sand slurry and discharge the overflow through the pond's separate 16-inch pipe into the Oakland Inner Harbor Channel. This activity results in the intermittent discharge (at an annual average rate) of approximately 0.61 million gallons per day of transport water during times of sand reclamation.
3. The sand is from the discharger's hydraulic sand dredging operation at Point Knox Shoal, San Francisco County and Point Knox Shoal, Marin County. The overflow discharge from this dredging operation is regulated by Regional Board Order No. 71-15.
4. The discharge is presently governed by Waste Discharge Requirements of Order No. 76-65, which allows discharge into San Francisco Bay.
5. Order No. 81-23 reissued Order No. 76-65.
6. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin on July 21, 1982. The Plan contains water quality objectives for San Francisco Bay and Oakland Inner Harbor.

7. The beneficial uses of the Oakland Inner Harbor and contiguous water bodies are:
 - a. Water contact recreation
 - b. Non-contact water recreation
 - c. Navigation
 - d. Ocean commercial and sport fishing
 - e. Wildlife habitat
 - f. Fish spawning and migration
 - g. Industrial service and process supply
 - h. Shellfish harvesting
 - i. Estuarine habitat
 - j. Preservation of rare and endangered species
8. Effluent limitations and toxic effluent standards, established pursuant to Sections 301, 304, and 307 of the Clean Water Act and amendments thereto are applicable to the discharge.
9. The Basin Plan prohibits discharge of any wastewater which has particular characteristic of concern to beneficial uses at any point at which the wastewater does not receive a minimum initial dilution of 10:1. Because the discharge consists mainly of dredged sand and water, the Board finds the discharge does not have particular characteristics of concern.
10. Effluent limitation guidelines requiring the application of best available technology economically achievable (BAT) for this point source category have not been promulgated by the U. S. Environmental Protection Agency. Effluent limitations of this Order are based on the Basin Plan, State Plans and Policies, current plant performance, and best professional judgment. The limitations are considered to be those attainable by BAT, in the judgment of the Board.
11. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000 of Division 13) of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
12. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
13. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED THAT Moe Sand Company, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. DISCHARGE PROHIBITIONS

1. Bypass or overflow of untreated wastewater to waters of the State is prohibited.
2. The discharge of wastewater to the Oakland Harbor shall not cause bottom sediment deposits.
3. The erosion of sand into Oakland Harbor is prohibited.

B. EFFLUENT LIMITATIONS

1. Representative samples of the waste discharge shall not contain constituents in excess of the following limits:

| CONSTITUENT | UNITS | MONTHLY AVERAGE | MAXIMUM DAILY |
|-------------------|---------|-----------------|---------------|
| Settleable matter | ml/l/hr | 0.2 | 1.0 |
| Dissolved sulfide | mg/l | | 0.1 |

2. The discharge shall not have a pH of less than 6.5 nor greater than 8.5.
3. The 30-day average concentration shall be the arithmetic average of all the daily values calculated using the results of analyses of all samples collected during any 30 consecutive calendar day period.

C. RECEIVING WATER LIMITATIONS

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place.
 - a. Floating, suspended, or deleterious macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths;
 - c. Alteration of temperature or apparent color beyond present natural background levels;

- d. Increased turbidity above background levels in waters of the State at any place by more than the following:

| RECEIVING WATER BACKGROUND | ALLOWABLE INCREMENTAL INCREASE |
|-------------------------------|--------------------------------------|
| Less than 50 units (JTU) | 5 units, maximum |
| 50-100 units | 10 units, maximum |
| More than 100 units | 10% of background, maximum |

- e. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
- f. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, 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.

2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:

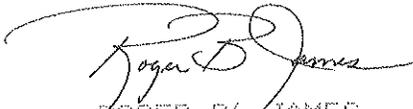
- | | |
|----------------------|--|
| a. Dissolved oxygen | 5.0 mg/l minimum. Annual median - 80% saturation. When natural factors cause lesser concentration(s) than those specified above, then this discharge shall not cause further reduction in the concentration of dissolved oxygen. |
| b. Dissolved sulfide | 0.1 mg.l maximum. |
| c. pH | Variation from natural ambient pH by more than 0.2 pH units |

3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Clean Water Act, or amendments hereto, the Board will revise and modify this Order in accordance with such more stringent standards.

D. PROVISIONS

1. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 76-65 adopted on June 15, 1976. Order No. 76-65 is hereby rescinded. The requirements prescribed for waste "A" (dredging overflow) in Order No. 71-15 shall remain in effect.
2. The discharger shall comply with all sections of this Order immediately upon adoption.
3. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
4. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977, except Items A.5, A.12, A.16, B.2, B.3, and B.5.
5. All applications, reports, or information submitted to the Regional Board shall be signed and certified pursuant to Environmental Protection Agency regulations (40 CFR 122.41K).
6. Pursuant to Environmental Protection Agency regulations (40 CFR 122.42 [a]) the discharger must notify the Regional Board as soon as it knows or has reason to believe (1) that they have begun or expect to begin, use or manufacture of a pollutant not reported in the permit application, or (2) a discharge of toxic pollutants not limited by this permit has occurred, or will occur, in concentrations that exceed the specified limits.
7. This Order expires April, 16, 1991. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Water Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
8. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after the date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Roger B. James, 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 16, 1986.



ROGER B. JAMES
Executive Officer

Attachments:

Standard Provisions and
Reporting Requirements, April 1977
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

MGE SAND COMPANY
OAKLAND, ALAMEDA COUNTY

NPDES NO. CA0029126

ORDER NO. 86-25

CONSISTS OF

PART A (January 1978)

AND

PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. EFFLUENT

| Station | Description |
|---------|--|
| E-001 | At any point in the outfall from the southerly second pond between the point of discharge and the point at which all waste tributary to that outfall is present. |
| E-002 | At any point in the outfall from the northerly single pond between the point of discharge and the point at which all waste tributary to that outfall is present. |

B. RECEIVING WATERS

| Station | Description |
|---------|---|
| C-RS | At a point in the Oakland Inner Harbor Channel located at the southwest corner of the discharger's property and out of the influence of the discharge from the retention ponds into the Oakland Harbor. |
| C-RN | At a point in Oakland Inner Harbor Channel located along the northwest corner of the discharger's pier and out of the influence of the discharge from the retention ponds into the Oakland Harbor. |
| C-1 | At a point in Oakland Inner Harbor Channel located at the southwest end of the discharger's pier and within the influence of the discharge from the retention ponds into the Oakland Harbor. |

C. LAND OBSERVATIONS

| Station | Description |
|--------------------|--|
| L-1 thru L-8 | Located at the midpoint of the perimeter levees. The following observations shall be made: <ul style="list-style-type: none">a. Indication of soil erosionb. Rodent holes in the leveesc. Freeboard in each pond at the lowest point in the levee. |

Observations shall be reported in the Self-Monitoring Reports. (A sketch showing the location of these stations will accompany each report.)

II. Schedule of Sampling, Measurements, and Analysis

Stations E-001, C-RS, C-RN, C-1, and L Stations: The schedule of sampling measurements, and analysis shall be given as Table I.

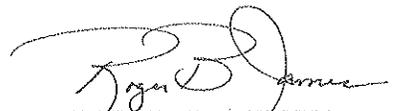
III. Modifications of Part A, dated January 1978

A. Exclusions: Section E.4

B. Modifications: Section F.3 shall be modified as follows: "Written reports shall be submitted quarterly by the thirteenth day of the following month. The report shall be comprised of the following:"

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 86-25.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.


ROGER B. JAMES
Executive Officer

Effective Date April 22, 1986

Attachment: Table I

TABLE I-A

SCHEDULE OF SAMPLING, MEASUREMENTS, AND ANALYSIS

MOE SAND COMPANY
OAKLAND, ALAMEDA COUNTY

SELF-MONITORING PROGRAM
NPDES # CA0028126
ORDER # 86-25

| SAMPLING STATIONS | E-001 | | C-1 | | C-RS C-RN | | L |
|--------------------------------------|----------------|----------------|----------------|--|----------------|--|----------------|
| | C | G | G | | G | | O |
| Type of Sample | | | | | | | |
| Flow Rate (mgd) | E | | | | | | |
| Settleable Matter (ml/l/hr) | | E ¹ | | | | | |
| Turbidity (JTU) | | E ¹ | E ¹ | | E ¹ | | |
| pH (Units) | | E ¹ | E ¹ | | E ¹ | | |
| All applicable Standard Observations | | E ¹ | E ¹ | | E ¹ | | E ² |
| Time/Date | E ³ | | | | | | |

LEGEND:

E = each occurrence
M = monthly
2/M = 2 days per month

TYPE OF SAMPLE: G = grab sample
O = observation

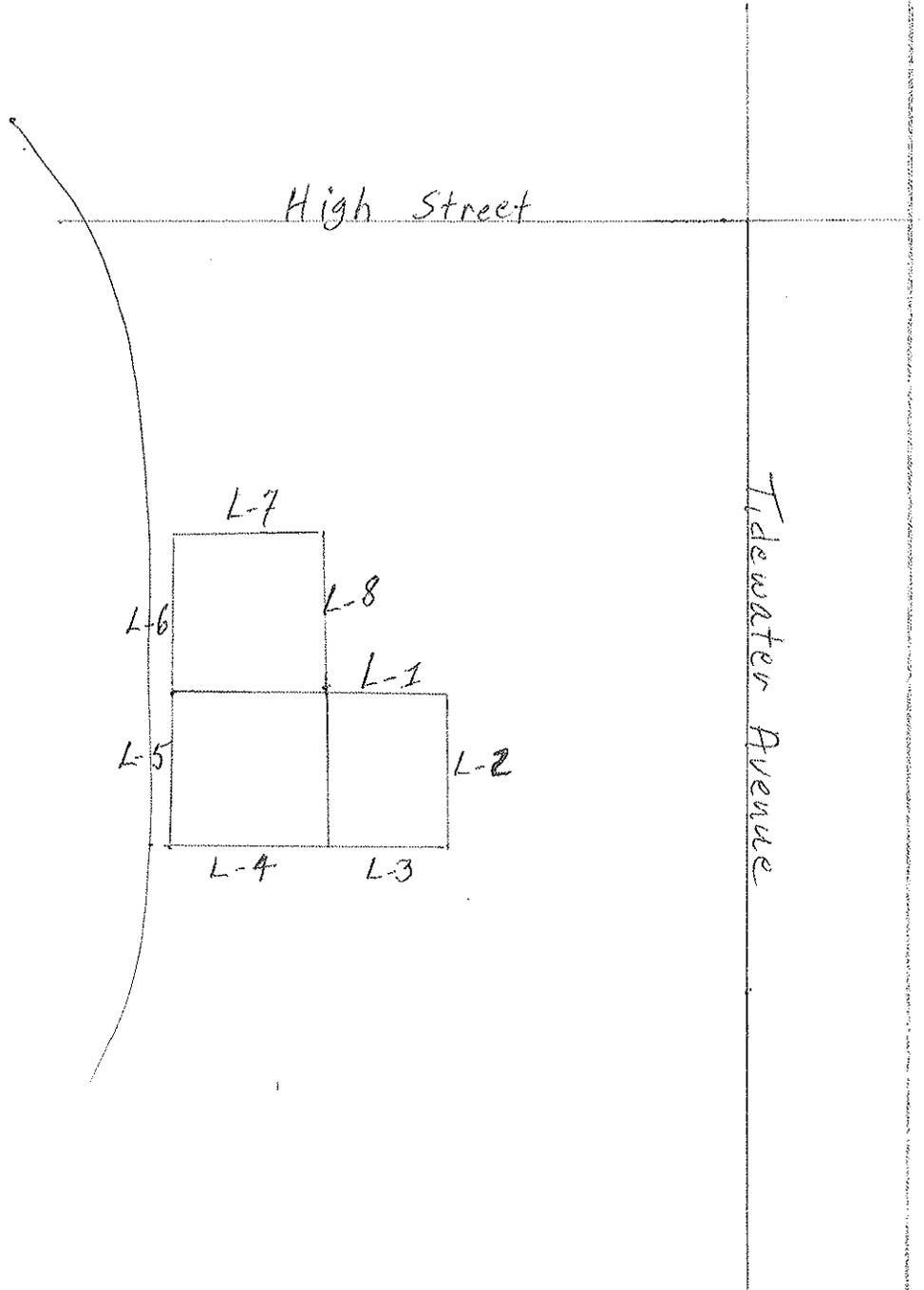
C-24 = 24-hour composite sample (As defined in PART A, but not less than 3 samples taken at equal periods of time)

C = continuous, during discharge period

1. At the end of the first hour of each discharge occurrence.
2. Prior to each discharge.
3. Date and time discharge starts and stops.

Sample Sketch Map of Observation Stations

OAKLAND
INNER
HARBOR



| | | |
|---|------|----------|
| STATE OF CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION | | |
| Moe Sand Company 4501 Tidewater Avenue Oakland, Alameda County | | |
| DRAWN BY | DATE | DRWG NO. |