

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

1102-A Laurel Lane
San Luis Obispo, California 93401

ORDER NO. 91-60

WASTE DISCHARGE REQUIREMENTS
FOR
CITY OF MONTEREY,
MONTEREY BAY WHARF DREDGING OPERATIONS,
MONTEREY COUNTY

The California Regional Water Quality Control Board, Central Coast Region, (hereafter Board), finds:

1. Mr. Fred Meurer, Engineering and Maintenance Director, filed a Report of Waste Discharge on December 31, 1990 in accordance with Section 13260 of the California Water Code. The report was filed on behalf of the City of Monterey for authorization to discharge dredge spoils from the Monterey Harbor wharf.
2. The City of Monterey (hereafter Discharger), periodically conducts harbor dredging operations within the Monterey Marina to maintain channel configurations and assure navigation within the harbor. The dredging locations and spoils disposal area are shown on Attachment "A" of this Order.
3. The proposed maintenance dredging project involves the removal of no more than 10,000 cubic yards of sediments each year. The sediments are proposed to be deposited on the beach east of Wharf No. 2 to replenish beach sands.
4. A series of studies conducted by the State and Regional Boards have detected elevated levels of lead in the ocean bottom sediments in and around the proposed dredging area. The studies have generally concluded the source of the lead is a slag pile deposited adjacent to the former Southern Pacific railroad track.
5. A large portion of the slag pile has been removed by Southern Pacific Transportation Company and work is continuing to complete cleanup of the "landside" lead contamination problem.
6. Recent sampling conducted by the discharger has shown that sediments in the proposed dredging area are below hazardous waste levels, but may exceed levels established by Monterey County Health Department as safe for shellfish in Monterey Bay.
7. This discharge has never been regulated by the Board.
8. The Water Quality Control Plan, Central Coastal Basin, (Basin Plan) was adopted by the Board on November 17, 1989. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters.
9. Present and anticipated beneficial uses of the Pacific Ocean in the vicinity of Monterey Harbor include:
 - a. Water contact recreation;
 - b. Non contact water recreation;
 - c. Industrial service supply;
 - d. Shellfish harvesting;
 - e. Preservation of rare and endangered species;
 - f. Navigation;
 - g. Marine habitat; and,
 - h. Commercial and sport fishing.
10. The City of Monterey completed an Initial Study and Negative Declaration for the project

dated October 18, 1990 in accordance with the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) and the California Code of Regulations and determined there are no significant adverse environmental effects or that all potentially significant adverse effects can be avoided through implementation of mitigation measures. Mitigation measures to prevent nuisance and assure protection of beneficial uses of surface and ground waters will be implemented through this order.

11. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to the discharge.
12. On May 20, 1991, the Board notified the Discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and has provided them with a copy of the proposed order and an opportunity to submit written views and comments.
13. After considering all comments pertaining to this discharge during a public hearing on July 12, 1991, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13263 of the California Water Code, the City of Monterey, its agents, successors, and assigns, in conducting dredging operation in Monterey Harbor, shall comply with the following:

(Note: other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984. Applicable paragraphs are referenced in paragraph C.2 of this Order.)

A. PROHIBITIONS

1. Discharge of dredge spoils to areas other than spoils disposal area shown in Attachment "A", is prohibited.
2. Discharge of wastes, including overflow, bypass, or leakage from the dredging, transport or disposal system to areas other than the spoils disposal area, adjacent drainageways or adjacent properties is prohibited.
3. Discharge of dredge spoils which cause odors or undesirable coloration at the beach site is prohibited.

B. DISCHARGE SPECIFICATIONS

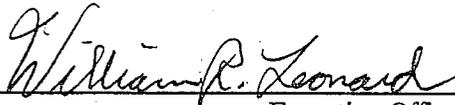
1. Discharge of dredged materials shall be limited to no more than 10,000 cubic yards per calendar year.
2. Only dredged material with a weighted average total lead concentration of less than 25 mg/kg may be discharged to the designated disposal area. Dredged material with a weighted average total lead concentration greater than 25 mg/kg shall be disposed of at a location approved by the Executive Officer.
3. Disposal of dredge spoils shall be conducted in a manner which will not cause a nuisance to beach users.
4. Discharge to the beach shall be limited to the interval between October 1 and May 31.

C. PROVISIONS

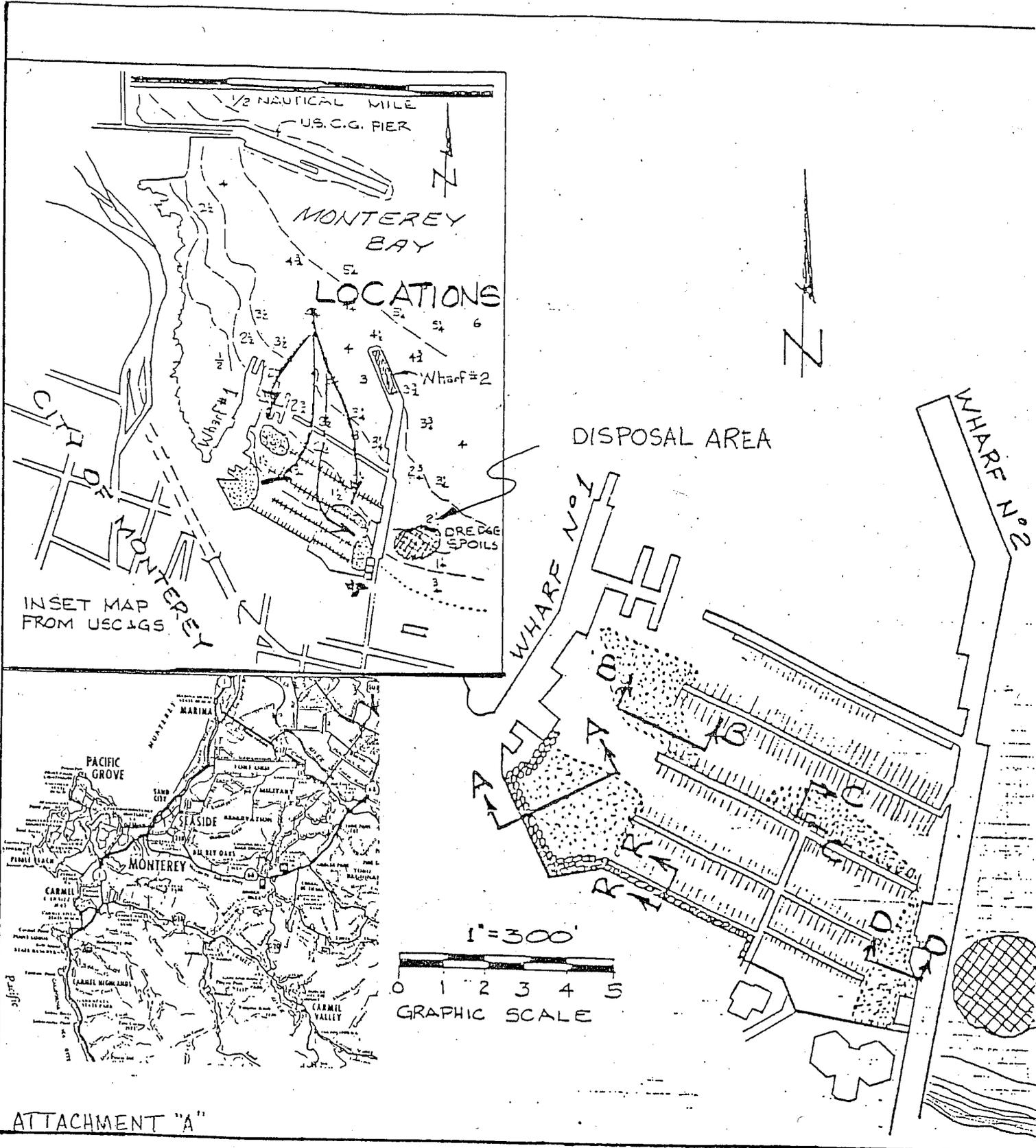
1. Discharger shall comply with "Monitoring and Reporting Program No. 91-60," as specified by the Executive Officer.
2. Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984, except A.1, 4, 5, 6, 8, 9, 10, 13, 14, 15, 16, 17, 24, 25, 26; B.2, 3, 4; C.8, 9, 11; and D.1, 2.

3. Adherence to this Order does not relieve the Discharger of the responsibility of obtaining applicable permits from other Federal, State or Local agencies.
4. Pursuant to Title 23, Chapter 3, Subchapter 9, of the California Code of Regulations, the Discharger must submit a written report to the Executive Officer not later than December 1995, addressing:
 - a. Whether there will be changes in the continuity, character, location, or volume of the discharge; and,
 - b. Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.

I, **WILLIAM R. LEONARD**, 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, Central Coast Region, on July 12, 1991.



Executive Officer



MONTEREY HARBOR DREDGING OPERATIONS

VICINITY AND SITE MAP

WASTE DISCHARGE REQUIREMENTS ORDER NO. 91-60

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

MONITORING AND REPORTING PROGRAM NO. 91-60

**FOR
CITY OF MONTEREY
MONTEREY BAY WHARF DREDGING OPERATIONS**

Pre-Discharge Monitoring

For each dredging project a report must be submitted to the Regional Board at least three months before the project is undertaken. The report shall contain the following information;

1. Area to be dredged.
2. Depths to be dredged.
3. Amount of dredge material.
4. Date when area was last dredged.
5. Proposed dates of dredging.
6. Proposed disposal area.

Upon receipt of this information, the Regional Board's Executive Officer will determine how many core samples should be taken and analyzed. Core samples shall be collected of the undisturbed material which will be dredged. Core samples shall be taken at the sampling stations within the area to be dredged no more than 60 days prior to commencement of dredging operations in that area. Sampling stations shall be located in known or suspected areas of high contamination and generally representative areas. The number of sampling locations will be determined by the Regional Board's Executive Officer. In general at least one sample for every 500 cubic yards of dredged material will be required.

Bulk Sediment Analysis

Sediment samples shall be taken with a core sampler in a manner that ensures sample characteristics are representative of the proposed dredging site. Cores shall extend to the final channel depth. The samples shall be placed in airtight polyethylene containers. Care shall be taken to ensure that the containers are completely filled by the samples and that air bubbles are not trapped in the containers. The samples shall be

stored immediately at 2 to 4°C. and not frozen or dried. Total sample storage time shall not exceed two weeks.

The project proponent shall notify the Regional Board staff at least two weeks in advance to discuss the proposed sampling plan and collection date. Staff will observe the cores, either as they are being collected or after they have all been collected and preserved, but before shipping to the laboratory. At that time, staff will determine which cores are to be analyzed. Where necessary, cores will be analyzed for the following constituents and results reported on a dry weight basis (mg/ kg):

1. Polynuclear Aromatic Hydrocarbons (PAH)
2. Total Organic Carbon
3. Free Sulfides
4. Arsenic
5. Cadmium
6. Copper
7. Particle Size Distribution (including % retained on # 200 sieve)
8. Tri-butyl tin
9. Zinc
10. Mercury
11. Lead

Records

Records shall be kept of at least the following operational information:

°Quantity dredged (cubic yards) and disposal location on a daily basis

°Hours of operation, 24-hr. clock, daily

Reporting

1. Results of the pre-discharge sampling program shall be submitted to the Regional Board at least one month prior to anticipated beginning the project dredging operations.
2. Operational data shall be supplied to the Board monthly by the 15th of the following month during dredging operations.
3. Records of hours of daily operation, quantity of material dredged, and locations of disposal shall be submitted to the Board monthly by the 15th of the following month during dredging operations.

ORDERED BY

William R. Leonard

Executive Officer

July 12, 1991

Date

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