

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 87-2

WASTE DISCHARGE REQUIREMENTS FOR:

CITY OF PITTSBURG,
MARINA, DREDGING AND DREDGE SPOIL DISPOSAL,
CONTRA COSTA COUNTY

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

1. The City of Pittsburg submitted a Report of Waste Discharge dated October 14, 1986.
2. The City of Pittsburg (hereinafter discharger) proposes to hydraulically dredge 40,000 cubic yards of river sediments from an area within a newly constructed earthen breakwater at the shoreline of Suisun Bay, where the New York Slough and the Sacramento River conjoin, in Contra Costa County.

The discharger proposes to place the dredged material in a diked 2.7 acre sedimentation basin located on City-owned property approximately 3600 feet inland from the dredging site. Dredge material will be pumped to the sedimentation basin and allowed to dry by evaporation and dewatering. Return water will pass into a City storm drain pipe, which in turn drains into an open storm drain channel, then into Willow Creek, and ultimately into Suisun Bay.

3. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for Suisun Bay and contiguous waters.
4. The beneficial uses of the Suisun Bay, Willow Creek, and contiguous waters as set forth in the Basin Plan are:

Industrial Service Supply
Navigation
Water Contact Recreation
Non-Contact Water Recreation
Sport Fishing
Wildlife Habitat
Preservation of Rare and Endangered Species
Fish Migration and Spawning
Estuarine Habitat

5. The discharger proposes installation of a culvert to connect the new marina basin with the existing marina basin, in lieu of performing a study of water circulation in the marina. The culvert should promote water circulation in the upland portion of the new marina basin.
6. The discharger reports that no live-aboards will be allowed in the marina and that the marina will have a sanitary sewer pump out station tied into the city sewer system.
7. The discharger reports that biocides will not be used for the control of nuisance algal growth within the waters of the marina.
8. This order serves as Waste Discharge Requirements, adoption of which is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
9. The discharger and interested agencies and persons have been notified of the Board's intent to prescribe requirements for the proposed discharge and have been provided with the opportunity for a public hearing and the opportunity to submit their written views and recommendations.
10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code, and the regulations adopted thereunder, and the provisions of the Clean Water Act, as amended and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. The circulation and containment of water within the marina shall not cause nuisance or pollution as defined in the California Water Code.
2. The use of biocides for the control of nuisance algal growth is prohibited, except in emergencies, in which case written approval must first be obtained from the Executive Officer of the Regional Board.
3. The discharge of sewage into the marina from boats used as liveaboards is prohibited. Such boats shall be connected to the sewer system.

B. Waste Discharge Specifications

1. The return water as discharged from the sedimentation basin shall not exceed the following limits:

	<u>Constituents</u>	<u>Units</u>	<u>Limits</u>
a.	Settleable Matter	ml/l-hr	1.0
b.	Dissolved Sulfide	mg/l	0.1

2. The pH of the return water as discharged from the sedimentation basin shall not exceed 8.5 nor be less than 6.5.
3. A minimum freeboard of two feet shall be maintained in the sedimentation basin at all times.

C. Receiving Water Limitations

1. The dredging, disposal or discharge of waste shall not create a nuisance or pollution as defined in the California Water Code.

2. The dredging or disposal of waste shall not cause:

- a. Floating, suspended or deposited macroscopic particulate matter or foam in waters of the State at any place more than 100 feet from the dredge or point of return flow;
- b. Bottom deposits or aquatic growths in waters of the State at any place;
- c. Alteration of apparent color beyond present natural background levels in waters of the State at any place more than 100 feet from the dredge or point of discharge of return flow;
- d. Visible, floating, suspended, or deposited oil or other products of petroleum origin in waters of the State at any place;
- e. The following limits to be exceeded in waters of the State at any place:

- (1) Dissolved Oxygen 7.0 mg/l minimum.
When natural factors cause lesser concentrations, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.

(2) Toxic or Other Deleterious Substances None shall 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 consumption either at levels created in the receiving waters or as a result of biological concentration.

f. The turbidity of the waters of the State at any point beyond 100 feet from the dredge or from the point of discharge of the return flow to increase above background levels by more than the following:

<u>Receiving Water Background</u>	<u>Incremental Increase</u>
<50 Units	5 Units, maximum
50 - 100 Units	10 Units, maximum
>100 Units	10% of Background, maximum

D. Provisions

1. Silt, sand, soil, clay, or other earthen materials from dredging, construction, or any other onshore operations in quantities sufficient to cause deleterious bottom deposits or turbidity or discoloration in excess of natural background levels in surface waters are prohibited.
2. Dredging operations shall cease and the Regional Board shall be notified immediately whenever violations of requirements are detected by the self-monitoring program and operations shall not resume until alternative methods of compliance are provided.
3. The discharger shall comply with all sections of this Order immediately upon adoption, except as stipulated in Provision C.4. below.

4. The discharger shall comply with Prohibition A.1. in accordance with the following schedule:

<u>Task</u>	<u>Completion Date</u>
a. Install a culvert between the new marina basin and the existing marina basin that will allow free flow of water between the two basins.	October 30, 1987
b. Submit written notification of completion of Task a. above.	November 30, 1987

5. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
6. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977 except Standard Provisions A.1, A.5, A.9, A.10, and A.12; and Reporting Requirements B.2, B.3 and B.5.

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 January 21, 1987.



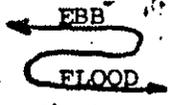
Roger B. James
Executive Officer

Attachments:

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

SUISUN BAY

SACRAMENTO RIVER



NEW BREAKWATER

NEW YORK SLOUGH

NEW MARINA (DREDGE AREA)

P.G. & E. PROPERTY

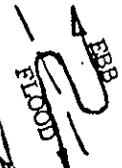
NEW MARINA (EXCAVATED)

EXISTING MARINA

NEW ENTRANCE

EXISTING BREAKWATER

EXISTING ENTRANCE



Hooper Drive

PROPOSED CULVERT

Montezuma Street

Marina Blvd.

Cutter Street

LEGEND



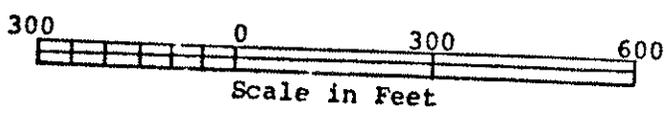
Dredge Area

Existing Shoreline, no changes

Existing Shoreline, to be altered

Channel Limit

Fenced Property Line



STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

Attachment A
City of Pittsburg
Marina Expansion Phase III

DRAWN BY: BDA | DATE: 12/1/86 | DRWG. NO.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

CITY OF PITTSBURG,

MARINA DREDGING AND DREDGE SPOIL DISPOSAL

CONTRA COSTA COUNTY

NPDES NO. _____

ORDER NO. 87-2

CONSISTS OF:

PART A, dated January 1978

AND

PART B

I. DESCRIPTION OF SAMPLING STATIONS AT THE DREDGE AND AT THE SEDIMENTATION BASIN LAND DISPOSAL AREA

A. Sedimentation Basin:

<u>Station</u>	<u>Description</u>
I-1	Between the inlet to the dredge and the outfall end of the slurry pipe discharging to the sedimentation basin.
E-1	At point of discharge from the sedimentation basin overflow drain pipe to the storm drain (connection located in storm drain manhole).

B. Sedimentation Basin's Return Water Area:

<u>Station</u>	<u>Description</u>
C-1-R	At a point located 120 feet downstream from where the unlined storm drain channel discharges into Willow Creek.
C-2-R	At a point located 100 feet upstream from where the unlined storm drain channel discharges into Willow Creek.
C-3-R	At a point located 120 feet downstream from where Willow Creek discharges into Suisun Bay.
C-4-R	At a point located 250 feet upstream from where Willow Creek discharges into Suisun Bay.

C. Dredge Area:

<u>Station</u>	<u>Description</u>
C-1-D	At a point located in the visible waste field resulting from the dredging activity and within 20 feet downstream from the point of dredging.

- C-2-D At a point located in the visible waste field resulting from the dredging activity and within 120 feet downstream from the point of dredging.
- C-3-D At a point located at the breach in the breakwater structure, at the northeast side of the existing marina basin.
- C-4-D At a point located at least 500 feet upstream from the breach in the breakwater at the northeast side of the existing marina basin, and not in the visible waste field.

D. Land Observations:

<u>Station</u>	<u>Description</u>
L-1 thru L-'n'	Located along the perimeter dike of the sedimentation basin at equidistant intervals not to exceed 400 feet. (A sketch showing the location of these stations will accompany each report).

II. SCHEDULE OF SAMPLING, MEASUREMENTS AND ANALYSIS

- A. The schedule of sampling, measurement and analysis shall be that given in Table I.
- B. Standard Observations for all C stations include:
- (1) Floating and suspended materials of waste origin: presence or absence, source and size of affected area (to include oil, grease, algae, and other macroscopic particulate matter).
 - (2) Discoloration and turbidity: description of color, source, and size of affected area.
 - (3) Odor: presence or absence, characterization, source, and distance of travel.
 - (4) Time and height of low tides corrected to nearest location for the sampling date and time of sample collection.
 - (5) Water and sampling depths.

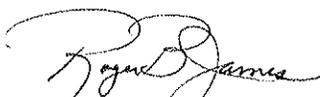
- C. Standard Observations for all L stations include:
- (1) Determination of the amount of freeboard at lowest point of dikes confining liquid wastes.
 - (2) Evidence of leaching liquid from area of confinement and estimated size of affected area. (Show affected area on a sketch).
 - (3) Odor: presence or absence, characterization, source, and distance of travel.
 - (4) Evidence of any overflow of water from the sedimentation basin other than described in Report of Waste Discharge.
- D. Sampling is required whenever dredging occurs.
- (1) Standard observations related to the sedimentation pond shall begin when the pond is put into operation.
 - (2) Sampling related to the sedimentation basin overflow shall begin when water first begins to enter the overflow drain pipe, and continue until discharge from the pond stops.
- E. Any two sample collections at the E station should be performed at least eight hours apart unless the work day is shorter than eight hours in length.
- F. The discharger shall provide written notification to the Board within seven days preceding the commencement of dredging and the use of the sedimentation basin.

III. MODIFICATION OF PART A DATED JANUARY 1978

- A. Exclusions: Paragraphs C.1., C.3., C.4., C.5., D.1., D.2., D.3.a., E.2., E.4., F.3.e., F.3.g., and F.4.
- B. Paragraph E.1. is revised to read: "Written reports ...shall be maintained at the City of Pittsburg office and shall be retained for a minimum of three years..."

I, Roger B. James, Executive Officer, do 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 No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 87-2.
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 Execxutive Officer or request from the discharger and revisions will be ordered by the Executive Officer.



ROGER B. JAMES
Executive Officer

Effective Date JANUARY 28, 1987

Attachments:

Table I and Legend for Table

TABLE 1 (continued)

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	I-1	E-1	All C Stat.	All L Stat.								
TYPE OF SAMPLE			O	O								
Mercury (mg/l & kg/day)												
Nickel (mg/l & kg/day)												
Zinc (mg/l & kg/day)												
Phenolic Compounds (mg/l & kg/day)												
All Applicable Standard Observsations			W	W								
Bottom Sediment Analyses and Observations												
Tot. Ident. Chlori. Hydrocarbons (mg/l & kg/day)												

LEGEND FOR TABLE

TYPES OF SAMPLES

- G = grab sample
- C-6 = composite sample - 6-hour
- C-X = composite sample - X hours (used when discharge does not continue for 24-hour period)
- Cont = continuous sampling
- DI = depth-intergrated sample
- BS = bottom sediment sample
- O = observation

TYPES OF STATIONS

- I = intake and/or water supply stations
- A = treatment facility influent stations
- E = waste effluent stations
- C = receiving water stations
- P = treatment facilities perimeter stations
- L = basin and/or pond levee stations
- B = bottom sediment stations
- G = groundwater stations

FREQUENCY OF SAMPLING

- E = each occurence
- H = once each hour
- D = once each day
- W = once each week
- M = once each month
- Y = once each year

- 2/D = twice per day
- 2/H = twice per hour
- 2/W = 2 days per week
- 5/W = 5 days per week
- 2/M = 2 days per month
- 2/Y = once in March and once in September
- Q = quarterly, once in March, June, Sept. and December

- 2H = every 2 hours
- 2D = every 2 days
- 2W = every 2 weeks
- 3M = every 3 months
- Cont = continuous

- (1) Return Water Area Sampling Stations:
- a) C-1-R and C-2-R shall be used when sufficient flow exists in Willow Creek upstream of the storm drain channel inlet to obtain representative samples
 - b) C-3-R and C-4-R shall be used instead of C-1-R and C-2-R when flow in Willow Creek upstream of the storm drain channel inlet is negligible or nonexistent.