CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 85-126

NPDES PERMIT NO. CA0028282

WASTE DISCHARGE REQUIREMENTS FOR:

TRIPLE A MACHINE SHOP
HUNTERS POINT
SAN FRANCISCO COUNTY

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

1. Triple A Machine Shop, Inc., hereinafter called the discharger, by application dated April 25, 1985, has applied for reissuance of waste discharge requirements and a permit to dicharge waste under the National Pollutant Discharge Elimination System (NPDES).

2. The discharger repairs and performs maintenance on various seagoing vessels at six graving docks located at Hunters Point Naval Shipyard in San Francisco. Waste generated at these facilities is discharged into San Francisco Bay, a water of the United States. Thereport of waste discharge describeds the existing discharge as follows:

   Waste 001 through 006 consists of residual spent abrasives which remain of the concrete floor of the six graving docks. The abrasives may contain decaying marine organisms, heavy metals, toxic paint residues, oil and grease, and other materials. The residual spent abrasives come in contact with, and may be discharged with, bay water when the graving dock is flooded.

   Waste 007 through 012 consists of gate leakage water, ship hull wash water, and cooling waters from ships being repaired in the six graving docks. During ship repair operations all water in the graving dock is collected in a sump and pumped into the bay via a small capacity pump. Any spills of liquid wastes during maintenance and repair work could enter the sump at the lower end of the graving dock and could be pumped to bay waters immediately outside the graving dock. This water may come in contact with the spent abrasives described above and may contain the same constituents. The quantity of wastewater discharged varies greatly. If a ships hull is washed with water as much as 84000 gallons per day can be discharged from the dock.

3. The discharge is presently governed by Waste Discharge Requirements, Order No. 82-19 which allows discharge into Central San Francisco Bay.

4. 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 Central San Francisco Bay and contiguous waters.

5. The beneficial uses of Central San Francisco Bay and contiguous water bodies are:

   a. Water contact recreation
   b. Non-contact water recreation
   c. Wildlife Habitat
   d. Preservation of Rare and Endangered Species
   e. Fish migration and spawning
   f. Industrial service and process supply
   g. Shellfish harvesting
   h. Navigation
   i. Commercial and sport fishing

6. The Basin Plan prohibits discharge of any wastewater which has particular characteristics of concern to benificial uses at any point at which the wastewater does not receive a minimum initial dilution of 10:1. The Board find that the proposed discharge does not have particular characteristics of concern, provided the discharge limitations contained in this Order are met.

7. Effluent limitation, toxic effluent standards, established pursuant to Section 301, 304, and 307 of the Clean Water Act and amendments thereto are applicable to the discharge.

8. Effluent limitation guidelines requiring the application of best available technology economicaly 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.

9. 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.

10. The Board has notified the discharger and interested agencies and persons of its intent to reissue 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.

11. The Board, in a public meeting, heard and consideredall comments pertaining to the discharge.

IT IS HEREBY ORDERED THAT TRIPLE A MACHINE SHOP, INC., 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. The direct discharge of spent abrasive sweepings and paint residues from the gravuing docks, ships, or piers servicing ships, to waters of the State is prohibited.

2. The placement of collected abrasives and paint residues is prohibited in areas where the materials may be washed into waters of the State by stormwater runoff, or by tide or wave action.

3. The discharge of sanitary sewage from vessels having sewage holding tanks to waters of the State is prohibited.

4. The discharge of sewage or liquid waste from a vessel located in the graving dock to the graving dock floor is prohibited.

B. EFFLUENT LIMITATIONS

1. The discharge of Waste 001 through 006 shall not exceed those quantities remaining after the following measures have been taken: Prior to the flooding of the graving dock, either to receive or refloat a vessel, the discharger shall ensure that all spent abrasives, paint residues, and other visible debris are removed from those portions of the graving dock floor which are reasonably accessible to a degree achievable by scraping and sweeping. This provision shall not apply in cases wherein a vessel must be introduced into the graving dock on an emergency basis, such as to prevent sinking, or leakage of oil or other materials. The Executive Officer shall be notified in such cases.

2. Waste 007 through 012 shall not contain constituentsin excess of the following limits:

CONSTITUENTS	UNITS	MONTHLY AVERAGE	MAXIMUM DAILY
Chromium	mg/l(ppm)	0.02	0.03
Copper	mg/l	0.01	0.05
Lead	mg/l	0.1	0.4
Zinc	mg/l	0.4	0.9
Triorganotins	ug/l(ppb)	0.002	0.004
Oil and Grease	mg/l	10	20
Settleable Solids	ml/l-hr	0.2	1.0
Total Suspended Solids	mg/l	30.0	45.0

3. The pH of Waste 001 through Waste 012 shall not exceed 8.5 nor be less than 6.5 pH units.

4. In any representative set of samples, the waste as discharged shall meet the following limit of quality:

TOXICITY: The survival of test fishes in 96 hour bioassays of the effluent as discharged shall be a median of 90% survival and a 90 percentile value of not less than 70% survival.

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 deposited macroscopic particulate matter or foam;

   b. Bottom deposits or aquatic growths;

   c. Alteration of temperature, turbidity, or apparent color beyond present background levels;

   d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;

   e. 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. Disolved oxygen	5.0 mg/l minimum. Median of any three consecutive months shall not be less than 80% saturation. When natural factors cause lesser concentrations than those specified above, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
b. pH	Variation from natural ambient pH by more than 0.5 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 thereto, 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. 82-19 adopted on April 21, 1982. Order No. 82-19 is hereby rescinded.

2. Where concentration limitations in mg/l are contained in this permit, the following mass emission limitations shall also apply as follows:

   Mass Emission Limit in (lbs./day, kg/day) = Concentration Limit in mg/l x (8.34, 3.79) x Actual Flow in mgd averaged over the time interval to which the limit applies.

3. During the period between November 1 and May 1 of the following year, the discharger shall clean the graving dock floors as often as needed so as to eliminate or minimize the discharge of pollutants into the Bay via stormwater runoff.

4. The discharger shall comply with all sections of this Order immediately upon adoption except for Effluent Limitation B.2. The discharger shall submit a proposal for meeting Effluent Limitation B.2 within six months of the date of this Order; and shall have a system in operation that will provide for compliance with Effluent Limitation B.2 within one year of the the date of this Order.

5. The discharger shall review and update annually its contingency plan as required by Board Resolution No. 74-10. The discharge of pollutants in violation of this Order where the discharger failed to develop and/or implement a contingency plan will be basis for considering such discharge a willful and negligent violation of this Order pursuant to Section 13387 of the California Water Code.

6. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.

7. 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, and B.5.

8. 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).

9. 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 occured, or will occur, in concentrations that exceed the specified limits.

10. This Order expires November 20, 1990. 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.

11. 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 date of its addoption 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 November 20, 1985.

Roger B. James
Executive Officer

Attachments:
Standard Provisions & Reporting Requirements, April 1977
Self-Monitoring Program
Resolution No. 74-10

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

TRIPLE A MACHINE SHOP, INC

TRIPLE A SHIPYARDS

NPDES NO. CA0028282

ORDER NO. 85-126

CONSISTS OF

PART A dated January 1978

AND

PART B

PART B

I. Description of Sampling Stations

A. Effluent

Station	Description
E-001 thru E-006 (Graving docks Nos. 2 thru 7)	In each graving dock prior to flooding.
E-007 thru E-012 (Graving docks Nos. 2 thru 7)	At any point in the outfall pipe from the collection sump at which all waste tributary to the sump is present.

B. Receiving Waters

Station	Description
C-R	In San Francisco Bay immediately outside all the graving docks.

II. Schedule of Sampling, Measurements, and Analysis

A. Stations E-001 thru E-006: Prior to the flooding of the graving docks, adequacy of the cleanliness of areas will be observed, certified, and recorded, indicating the dates and time of graving dock use, observations, and flooding. Regional Board staff shall be notified at least 48 hours prior to the flooding of any graving dock.

B. Stations E-007 through E-012 and C-R: The schedule of sampling, measurement, and analysis shall be given as Table I.

III. Modifications of Part A, dated January 1978

A. Exclusions: Sections C.5.d, C.5.e, and E.4.

B. Modifications: Section F.3 shall be modified as follows: "Written reports shall be submitted quarterly. The reports shall include the compliance record relative to effluent limitation No. 1 of this order and all other requirements listed in Part A (Discharge Prohibitions)."

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 No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 85-126.

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: DECEMBER 3, 1985

Attachment: Table I

TABLE 1

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E007-E012			C-R									
TYPE OF SAMPLE	G												
Flow Rate (mgd)													
BOD, 5-day, 20°C, or COD (mg/l & kg/day)													
Chlorine Residual & Dosage (mg/l & kg/day)													
Settleable Matter (ml/1-hr. & cu. ft./day)	M												
Total Suspended Matter (mg/l & kg/day)	M												
Oil and Grease (mg/l & kg/day)	M												
Coliform (Total or Fecal) (MPN/100 ml) per req't													
Fish Tox'y 96-hr. TL % Surv'l in undiluted waste	Y												
Ammonia Nitrogen (mg/l & kg/day)													
Nitrate Nitrogen (mg/l & kg/day)													
Nitrite Nitrogen (mg/l & kg/day)													
Total Organic Nitrogen (mg/l & kg/day)													
Total Phosphate (mg/l & kg/day)													
Turbidity (Jackson Turbidity Units)													
pH (units)	M												
Dissolved Oxygen (mg/l and % Saturation)													
Temperature (°C)													
Apparent Color (color units)													
Secchi Disc (inches)													
Sulfides (if DO<5.0 mg/l) Total & Dissolved (mg/l)													
Arsenic (mg/l & kg/day)													
Cadmium (mg/l & kg/day)													
Chromium, Total (mg/l & kg/day)	M												
Copper (mg/l & kg/day)	M												
Cyanide (mg/l & kg/day)													
Silver (mg/l & kg/day)													
Lead (mg/l & kg/day)	M												

TABLE 1 (continued)

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E007-E012			C-R									
TYPE OF SAMPLE	G			O									
Mercury (mg/l & kg/day)													
Nickel (mg/l & kg/day)													
Zinc (mg/l & kg/day)	M												
Phenolic Compounds (mg/l & kg/day)													
All Applicable Standard Observations	M			M									
Bottom Sediment Analyses and Observations													
Total Ident. Chlor. Hydrocarbons (mg/l & kg/day)													

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
C-24 = composite sample - 24-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 = groundwaters 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/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