CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 86-38
NPDES NO. CA0028436

WASTE DISCHARGE REQUIREMENTS FOR:

RICHMOND SANITARY SERVICE
RICHMOND, CONTRA COSTA COUNTY

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

1. Richmond Sanitary Service (hereinafter called the discharger) was issued Regional Board Order No. 79-59, an NPDES permit prescribing waste discharge requirements for stormwater runoff from the Class I area of West Contra Costa Sanitary Landfill, Richmond. This permit expired on April 17, 1984, but has remained in effect pursuant to the discharger's application for reissuance. The discharger filed an application on June 13, 1985 for reissuance of the NPDES permit.

2. The discharger's Class I facility consists of a covered solid waste disposal area, a hazardous waste liquid disposal pond and covered former oil skimming pond. The facility, is located adjacent to San Pablo Bay at the foot of Parr Blvd. The discharge consists of stormwater runoff from the covered solid waste disposal area and from exterior surfaces of the Class I pond's dikes which is initially collected in a retention basin at the foot of the Class I area. The capacity of the retention basin is reported at 2,000,000 gallons, with a potential average yearly discharge of 8.24 million gallons. The wastewater will be discharged into an unnamed watercourse located along the discharger's southeast perimeter dike, and subsequently to San Pablo Bay. However, no discharge has occurred since the permit was issued.

3. The possibility exists that leachate from the Class I landfill and pond may seep into the retention basin and contaminate the stormwater runoff.

4. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on July 21, 1982 and this Order implements the water quality objectives stated in that plan for San Pablo Bay.

5. The beneficial uses of San Pablo Bay are:

   a. Water Contact Recreation
   b. Non-contact Water Recreation
   c. Ocean Commercial and Sport Fishing
   d. Wildlife Habitat
   e. Preservation of Rare and Endangered Species
   f. Estuarine Habitat
   g. Fish Migration and Spawning
   h. Shellfish Harvesting
   i. Industrial Service Supply
   j. Navigation

6. The Basin Plan prohibits the discharge of any wastewater which has particular characteristics of concern to beneficial uses at any point which does not receive a minimum initial dilution of at least 10:1 or into any non-tidal water or deadend slough or similar confined water areas or their immediate tributaries. The receiving waters for this discharge constitutes a confined area similar to a deadend slough.

7. The Board finds that the discharge of waste from the discharger contains only negligible amounts of pollutants and has no particular characteristics of concern to beneficial uses. Therefore, the Basin Plan prohibition does not apply to this waste discharge.

8. Effluent limitations and toxic effluent limits established pursuant to Sections 301, 304, and 307 of the Clean Water Act and amendments thereto are applicable to the discharge.

9. The action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 2100 et seq.), in accordance with Section 13389 of the California Water Code.

10. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed 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 considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that Richmond Sanitary Service, 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 discharge of wastes to waters of the State is prohibited.

2. The discharge of waste spills to waters of the State is prohibited. Spills shall be promptly cleaned up to prevent mixing with subsequent stormwater runoff.

3. The discharge of surface drainage from areas other than the covered solid waste disposal area and exterior surfaces of the ponds dikes is prohibited.

4. The discharge is prohibited between April 15 and October 15 unless specifically approved by the Executive Officer.

5. Erosion of the receiving water channel due to this discharge shall be minimized.

B. Effluent Limitations

1. Discharge of wastewater containing concentrations in excess of the following limits is prohibited. Compliance with these limits must be demonstrated by sampling and analysis prior to discharge.

Constituent	Units	Maximum Daily
Oil & Grease	mg/l	10
Total Suspended Solids	mg/l	45
Total Organic Carbon	mg/l	80
Arsenic	mg/l	0.02
Cynide	mg/l	0.05
Cadmium	mg/l	0.03
Total Chromium	mg/l	0.02
Copper	mg/l	0.05
Lead	mg/l	0.08

Constituent	Units	Maximum Daily
Mercury	mg/l	0.002
Nickel	mg/l	0.2
Zinc	mg/l	0.5
Phenolics	mg/l	0.3
(1)Total Identifiable Chlorinated Hydrocarbons	mg/l	0.004

(1)Total Identifiable Chlorinated Hydrocarbons shall be measured by summing the individual concentrations of DDT, DDD, DDE, aldrin, BHC, chlorodane, endrin, heptachlor, lindane, dieldrin, polychlorinated biphenyls, and other identifiable chlorinated hydrocarbons.

2. The waste, as discharged, shall meet the following limit of quality:

   TOXICITY: The survival of test organisms acceptable to the Executive Officer shall achieve a median of 90% survivial for three consecutive samples and a 90 percentile value of not less than 70% survival for 10 consecutive samples.

3. The discharge shall not have a pH of less than 6.5 nor greater than 8.5.

B. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in water of the State at any place.

   a. Floating, suspended, or deposited macroscopic particulate matter or foam;

   b. Bottom deposits of aquatic growths;

   c. Alteration of temperature, turbidity, or apparent color beyond present natural 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.	Dissolved oxygen	5.0 mg/l minimum. Median for any three consecutive months not less than 80% saturation. When natural factors cause lesser concentration(s) than specified above, then 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 of the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

D. Provisions

1. Neither the discharge nor its treatment shall create a nuisance or pollution as defined in Section 13050 of the California Water Code.

2. Compliance with the effluent limitations specified in this Order shall be demonstrated prior to each discharge period. A report indicating compliance shall be submitted prior to the beginning of each discharge. Period (hours per day) and duration of discharge (days) shall be approved by the Executive Officer prior to discharge. The Executive Oficer may waive certain pre-discharge analysis in emergencies when the immediate discharge of stormwater is necessary to insure sufficient emergency holding capacity in the retention basin. In addition, the Executive Officer may require additional monitoring and set additional effluent criteria on constituents not listed in this Order in cases of discharge of wastes to due to spills or waste pond overflow.

3. The discharger shall comply with a Self-Monitoring Program as adopted by the Regional Board, and as may be amended by the Executive Officer.

4. The requirements prescribed herein do not authorize the commission of any act causing injury to property of another, nor protect the discharger from his liabilities under federal, state or local laws, nor guarantee the discharger a capacity right in the receiving waters.

5. In the event of any change in control or ownership of land or waste discharge, the discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be fowarded to this office.

6. The discharger shall permit the Regional Board:

   a. Entry upon premises where an effluent source is located or in which any required records are kept;

   b. Access at reasonable times to copy any records required to be kept under terms and conditions of this Order;

application, or (2) a discharge of a toxic pollutants not limited by this permit has occurred, or will occur, in concentrations that exceed the specified limits.

12. The discharger shall comply with all provisions of this Order immediately upon adoption.

13. Order No. 79-59 is hereby rescinded.

14. This Order expires June 18, 1991 and the discharger must file a Report of Waste Discharge in accordance with Title 23, California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.

15. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect 10 days from date of hearing provided the Regional Administrator, U.S Environmental Protection Agency, has no objections.

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 June 18, 1986.

ROGER B. JAMES
Executive Officer

Attachments:
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

TENTATIVE SELF-MONITORING PROGRAM

FOR

RICHMOND SANITARY SERVICE
RICHMOND, CONTRA COSTA COUNTY

PART A

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a self-monitoring program by a waste discharger, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of Standard Methods for the Examination of Water and Wastewater prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board.

Commercial Laboratory Analyses

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health or a laboratory approved by the Executive Office. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his laboratory and shall sign all reports of such work submitted to the Regional Board.

In-house Laboratory Analyses

The Board will accept analytical data from an in-house labortory which
i is not currently certified if the discharger agrees in writing to: (1) perform all analyses in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants promulgated by the U.S Environmental Protection Agency; (2) implement and maintain a satisfactory quality assurance program, ((comparable to State Department of Health Services Standard); (3) demonstrate a good agreement in analytical results with those a previously certified laboratory in split sampling; and (4) become certified within a resonable time if the State certification program is reinstated.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. A grab sample is defined as an individual sample collected in fewer than 15 minuntes

2. A composite sample is a combination of individual samples obtained at equal intervals over the specified sampling period. The volume of each individual sample is proportional to the discharge flow rate at the time of sampling.

D. SCHEDULE OF SAMPLING, ANALYSES, AND OBSERVATIONS

The discharger is required to perform observations, sampling, and analyses according to the schedule in Table I.

E. RECORDS TO BE MAINTAINED

1. Written reports, shall be retained by the discharger(s) for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board

   a. Identity of sampling and observation stations by number.

   b. Date and time of sampling and/or observations.

   c. Date and time that analyses are started and completed, and name of personnel performing the analyses.

   d. Complete procedure used, including method of preserving sample and identity and volumes of reagents used. A reference to specific section of Standard Methods,and EPA method, or approved alternate method from (B) above is satisfactory.

   e. Results of analyses and/or observations.

F. REPORTS TO BE FILED WITH THE REGIONAL BOARD

Written self-monitoring reports shall be filed monthly (unless specified otherwise in Part B). In addition, an annual report shall be filed as indicated in F-2. The reports shall be comprised of the following:

3. In case of a spill or overflow of waste material the Regional Board shall be immediately notified by telephone. Within 5 days of a spill or overflow a written report shall be submitted indicating the nature and extent of the spill and the status of cleanup or containment.

II. SCHEDULE OF SAMPLING AND ANALYSES

A. The schedule of sampling and analysis shall be that given as Table I.

B. Subsequent to the first major storm in each year's rainy season a composite sample shall be taken from stations PA-1, PA-2, and PA-3. The sample shall be analyzed for all "priority pollutants" as determined by the U.S. EPA and reported to this office prior to the discharge from the basin or as soon as analytical results are available. Designation of the first major storm shall be approved by the Executive Officer.

III. SPECIAL PROVISIONS

Discharge shall not be made unless the average of values from Stations A, B, and C comply with the effluent concentration limitations specified in Order No. 86-38. In emergencies the Executive Officer may modify the the monitoring program required prior to discharge.

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. 86-38.

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 JUNE 23, 1986

Attachment:
Table I

a. Letter of Transmittal:

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations, such as plant operation modifications and/or plant facilities expansion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. Monitoring reports and the letter transmitting reports shall be signed by a principal executive officer, at the level of vice president or his duly authorized representative if such representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format shall be approved by the Executive Officer.

c. Map or Aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis or observations specified in Part B by date, time, type of sample, and station, signed by the laboratory director. The report format shall be approved by the Executive Officer.

f. List of Approved Analyses

List of analyses performed for the discharger by another approved laboratory currently or previously approved by the State Department of Health Service (and copies of reports signed by the laboratory director of that laboratory shall also be submitted as part of the report).

4. Annual Reporting

By January 31 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calender year. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the report shall contain a comprehensive discussion of

the compliance record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements. The report format will be prepared by the discharger and should be maintained and submitted with each regular self-monitoring report.

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. STORM WATER RETENTION BASIN

Stations	Description
PA	These stations are located directly above the intake of discharge pipe.
PA-1	Located one foot below water surface.
PA-2	Located one foot above the intake of the discharge pipe.
PA-3	Located midway between "PA-1" and "PA-2."
PB	Located at the midpoint of the basin surface and at the midpoint of basin depth.
PC	Located at the water surface and 5 feet from the shore and at a downwind side of the basin.

B. EFFLUENT

Station	Description
E	Located in the outfall pipe or at the point of discharge.

C. RECEIVING WATERS

RW-1	In the receiving waters, 10 feet downstream from the discharge point.
RW-2	In the receiving waters 10 feet upstream from the discharge point.

D. MISCELLANEOUS REPORTING

1. Map showing the location of all stations must be submitted with each report.

2. Discharger shall notify the Regional Board staff prior to sampling and communicate to staff the anlaysis results required by Table I prior to discharge.

TABLE 1

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	PA-1	PA-2	PA-3	PA	PB	PC	E	RW-1	RW-2				
TYPE OF SAMPLE	G	G	G	(1) C	G	G	(3) C	G	G				
Flow Rate (mgd)							D						
BOD, 5-day, 20°C, or COD (mg/l & kg/day)													
COD (mg/l & kg/day)	E	E	E		E	E							
TOC (mg/l & kg/day)	E	E	E	E	E	E	D						
Total Suspended Matter (mg/l & kg/day)	E	E	E		E	E							
Oil and Grease (mg/l & kg/day)	E	E	E		E	E	3D						
Settleable Matter (ml/l)	E	E	E		E	E	3D						
Fish Tox'y 96-hr. TL 50% Surv'l in undiluted waste				(2) E	(2) E	(2) E	(4) 3D						
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)	E	E	E		E	E	D	3D	3D				
Dissolved Oxygen (mg/l and % Saturation)							D	3D	3D				
Temperature (°C)	E	E	E		E	E	D						
All Applicable Standard Observations								(5) D	(5) D				
Sulfides (if DO<5.0 mg/l) Total & Dissolved (mg/l)								3D					
Arsenic (mg/l & kg/day)				E	E	E		3D					
Cadmium (mg/l & kg/day)				E	E	E		3D					
Chromium, Total (mg/l & kg/day)				E	E	E		3D					
Copper (mg/l & kg/day)				E	E	E		3D					
Cyanide (mg/l & kg/day)				E	E	E		3D					
Silver (mg/l & kg/day)													
Lead (mg/l & kg/day)				E	E	E		3D					

TABLE 1 (continued)

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	PA-1	PA-2	PA-3	PA	PB	PC	E					
TYPE OF SAMPLE	G	G	G	C (1)	G	G	C (3)					
Mercury (mg/l & kg/day)				E	E	E	3D					
Nickel (mg/l & kg/day)				E	E	E	3D					
Zinc (mg/l & kg/day)				E	E	E	3D					
Phenolics				E	E	E	3D					
Total Ident. Chlor. Hydrocarbons (mg/l & kg/day)				E	E	E	3D					

LEGEND FOR TABLE

G = grab sample
E = each occurrence
D = daily
2D = every two days
3D = every 3 days

FOOTNOTES

(1) Shall be based on a single composite made up of equal volumes from PA-1 PA-2, and PA-3.

(2) Shall be based on a composite made up of equal volumes from A-3, B, and C.

(3) Shall be a composite of the discharge taken over the period of discharge.

(4) This analysis shall be performed daily if discharge is not continuous not counting non-work days or non-light hours.

(5) Observation of the receiving water to ascertain compliance with Limitation C.1. of Order No.

(6) Fish toxicity test organisms shall be a species of trout. A different species may be used if approved by the Executive Officer in advance of the test.