

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

RESOLUTION NO. 70-67

PRESCRIBING REQUIREMENTS FOR WASTE DISCHARGE BY THE  
CITY OF MOUNTAIN VIEW, SANITARY FILL COMPANY, AND  
EASLEY AND BRASSY CORPORATION ONTO LAND NEAR SAN  
FRANCISCO BAY BETWEEN SAN ANTONIO ROAD AND STEVENS  
CREEK IN MOUNTAIN VIEW, SANTA CLARA COUNTY

WHEREAS THIS REGIONAL BOARD HAS CONSIDERED

INFORMATION ABOUT THIS DISCHARGE

1. The City of Mountain View submitted a Report on Waste Discharge dated December 29, 1969 pursuant to Section 13260 of the California Water Code.
2. That Report and other data submitted and on file in the Regional Board's office includes the following information:

The solid waste disposal site consists of approximately 275 acres out of a total of 505 acres, ultimately to be developed as a regional park, located on marsh land adjacent to salt ponds and sloughs of San Francisco Bay in the City of Mountain View.

The City of Mountain View as property owner has leased this site to Sanitary Fill Company and Easley and Brassy Corporation, all collectively called the discharger below, to dispose of Class II waste material from the City of San Francisco for a period of five years or until 4,096,900 tons have been deposited, whichever occurs first.

The total capacity of this site is 7,280,000 cubic yards. It is anticipated that it will last twenty years. Five of those years will be required for the disposal of San Francisco's waste. The City of Mountain view will use this site for disposal of Class II wastes throughout its useful life.

Soils investigations and hydrologic investigations have been conducted for this waste disposal site and the reports submitted include recommendations for levee construction, sanitary fill construction, control of seepage and surface drainage, protection of groundwaters and surface waters.

The City of Mountain View has contracted for soils engineering and inspection services to assure compliance with plans and specifications, which incorporate by reference the contents of the above mentioned reports.

Disposal of waste material will take place within dewatered cells excavated to 13 feet below ground surface and surrounded by levees to prevent lateral migration of leachate or polluted water into adjacent water bodies.

Excavations for sanitary fill will encounter a shallow perched water table, occurring within erratic permeable stringers. This perched water is underlain by strata of impermeable materials which isolate it from the deeper aquifers containing usable groundwater. These permeable stringers will be sealed off to minimize seepage into excavated sanitary fill cells.

Monitoring wells will be installed at the low point of each cell and water build-up within completed cells will be observed. If water accumulation exceeds acceptable levels, it will be pumped out and disposed of to the City's sanitary sewers.

Surface gas emission will be monitored and evaluated and recommendations will be made by the soils engineer for control of movement of combustible gases, such as methane, and for the installation of surface gas control devices, such as vents and gravel-filled cut-off trenches.

3. The City of Mountain View in a letter dated August 21, 1970 indicated its intention to take all reasonable steps to resolve any unanticipated problems which occur in the future in terms of the criteria, specifications and standards for water quality of this Regional Board.

#### CORRESPONDENCE

This Regional Board has considered comments and recommendations about this matter from:

1. State Department of Public Health in its memoranda dated March 3, 1970, April 29, 1970 and August 19, 1970;
2. State Department of Water Resources in its memoranda dated December 19, 1969 and May 20, 1970;
3. State Department of Fish and Game in its memorandum dated August 18, 1970;
4. Santa Clara County Health Department in its letters dated March 4, 1970, and August 19, 1970;
5. Santa Clara County Flood Control and Water District in its letters dated May 25, 1970, and August 10, 1970;
6. Sira Corporation in its letters dated February 27, 1970, and August 17, 1970;
7. City of Mountain View in its Consultant's letter dated April 15, 1970;
8. San Francisco Bay Conservation and Development Commission in its letter dated August 24, 1970;
9. The Sierra Club in its letter dated August 18, 1970.

### STAFF INVESTIGATION

1. A portion of the disposal site is covered with existing sanitary fill containing Class II waste material.
2. Excavation will take place adjacent to the existing sanitary fill and leachate flow into these excavations can occur.
3. The channel between the existing sanitary fill and the salt pond levee on the north boundary contains stagnant water and solid waste materials.
4. This waste disposal operation can affect the following present and proposed beneficial water uses in the vicinity of the disposal site:

Domestic water supply

Irrigation

Swimming, water-skiing, wading, pleasure boating, marinas, fishing, and hunting

Fish and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting place

Esthetic enjoyment.

5. Land within 2000 feet of the disposal site is used for residence, business, farming, and transportation.
6. The completed landfill will be developed as a regional park which will include such facilities as: ball parks, golf course, a sailboat lake, and picnic areas.

### RESOLVED BY THIS REGIONAL BOARD

#### BOARD INTENT

1. Protect public health as it may be affected by this waste discharge.
2. Prevent nuisance, as defined in Section 13050(m) of the California Water Code.
3. Protect the beneficial water uses listed under "Staff Investigation" above.

#### WASTE DISCHARGE REQUIREMENTS

1. The disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. Waste material shall be confined to the disposal site at all times and shall not be placed in any position where it can be carried from the disposal site and discharged into waters of the State.
3. Decomposable waste material shall not be placed in water or allowed to come in contact with pools of surface water.

4. Surface water runoff from adjacent areas shall not be allowed to contact decomposable waste material. The disposal site shall be adequately protected against runoff and flooding by storm waters. Adequate protection is defined as protection from at least a 100-year flood.
5. All operations and excavations shall be performed in such a manner as to assure a minimum continuous thickness of five feet of impervious soil, or equivalent, on the bottom and sides of refuse cells. This shall be demonstrated to the satisfaction of this Board's Executive Officer prior to discharging waste material.
6. Drainage from the existing sanitary fill into adjacent excavated areas or elsewhere shall not be discharged to waters of the State.
7. Methane gas (CH<sub>4</sub>) shall not be allowed to develop in such concentrations within refuse cells as to endanger public health or create a nuisance.
8. Carbon Dioxide gas (CO<sub>2</sub>) or leachate from the disposal site shall not lower the quality of usable groundwater.
9. All wells located within the disposal area shall be sealed to the satisfaction of the Santa Clara County Health Department and the Santa Clara County Flood Control and Water District prior to discharging waste material within 100 feet of any such wells.
10. The discharge of waste shall not cause surface waters of the State to exceed the following limits of quality at any place:

Dissolved Oxygen	5.0 mg/l minimum
Dissolved Sulfide	0.1 mg/l maximum
pH	7.0 to 8.5
Other substances	Any one or more substances in concentrations that impair any of the protected beneficial water uses or make aquatic life or wildlife unfit or unpalatable for consumption.

#### PROHIBITION

Pursuant to Section 13243 of the California Water Code this Regional Board prohibits at any time:

1. The discharge to surface waters of leachate or ponded water containing leachate.
2. The discharge, placement, or storage of materials at this site which are acceptable only at Class I disposal sites as defined in this Board's Resolution No. 69-42.

### REPORTING REQUIREMENTS

1. Pursuant to Section 13267 of the California Water Code, this Regional Board requires the discharger to:
  - a. Submit reports describing the nature of actions taken towards compliance with item number 5 under "WASTE DISCHARGE REQUIREMENTS" above for the existing fill by October 15, 1970 and for new areas 60 days prior to placement of any fill.
  - b. Submit a report by September 30, 1970 describing a proposed program to assure compliance with item number 2 under "PROHIBITION" above.
2. This Resolution includes items numbered 1 and 6 of the attached "Reporting Requirements" dated August 28, 1970.

### NOTIFICATIONS

1. This Regional Board instructs its Executive Officer to review the operation of this disposal site and the waste discharge requirements at periodic intervals not to exceed 12 months.
2. This Regional Board will consider the revision of these requirements whenever the Executive Officer reports that such revision is in order.
3. This Resolution includes items numbered 1, 2, 3, 4, 5 and 6 of the attached "Notifications" dated January 6, 1970.

WILLIAM C. WEBER  
Chairman

August 27, 1970

I, Fred H. Dierker, hereby certify that the foregoing is a true and correct copy of Resolution No. 70-67 adopted by the California Regional Water Quality Control Board - San Francisco Bay Region at its regular meeting on August 27, 1970.

FRED H. DIERKER  
Executive Officer  
CALIFORNIA REGIONAL WATER QUALITY CONTROL  
BOARD - SAN FRANCISCO BAY REGION

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

REVISED

SELF-MONITORING PROGRAM  
FOR

City of Mt. View

Shoreline Regional Park Class II-2

Solid Waste Disposal Site, Santa Clara County

RESOLUTION NO. 70-67

CONSISTS OF

PART A

AND

PART B

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

REVISED SELF-MONITORING PROGRAM

FOR

CITY OF MT. VIEW  
SHORELINE REGIONAL PARK CLASS II-2  
SOLID WASTE DISPOSAL SITE  
SANTA CLARA 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 monitoring program by a waste discharger, also referred to as self-monitoring program, 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, (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

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, including the methods specified in attached APPENDIX E.

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 Officer. 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.

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

C. DEFINITION OF TERMS

1. Grab sample means a sample collected at any time.

## 2. Standard Observations

### a. Receiving Water of Permanente Creek and Stevens Creek

- (1) Discoloration and turbidity: description of color, source, and size of affected area.
- (2) Odor: presence or absence, characterization, source, and distance of travel.
- (3) Evidence of beneficial water use: presence of water-associated wildlife, fishermen, and other recreational activities in the vicinity of the sampling stations.
- (4) Hydrographic condition:
  - (a) Water and sampling depths.
  - (b) Tidal conditions.
- (5) Weather condition:
  - (a) Wind - direction and estimated velocity.
  - (b) Precipitation - total precipitation during the previous five days and on the day of observation.

### b. Disposal Area and Periphery of Disposal Facilities

This applies to confined or unconfined solid wastes including high moisture content group 2 wastes.

- (1) Evidence of leaching liquid from area of confinement and estimated size of affected area. (Show affected area on a sketch.)
- (2) Odor: presence or absence, characterization, source, and distance of travel.
- (3) Cover material: Depth of inert material over the inactive areas.
- (4) Evidence of erosion and/or day-lighted refuse.

## D. SCHEDULE OF SAMPLING, ANALYSES, AND OBSERVATIONS

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

## E. RECORDS TO BE MAINTAINED

1. Written records shall be maintained at the landfill site or office and shall be retained for a minimum of 3 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. Such records shall show the following for each sample:

- 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 is satisfactory.
- e. Calculations of results.
- f. Results of analyses and/or observations.

F. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Written reports shall be filed quarterly (unless specified otherwise in Part B) by the fifteenth day of the following month. In addition, an annual report shall be filed as indicated in F-1-f. The reports shall be comprised of the following:

- 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. 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.

Monitoring reports shall be signed as follows:

- (1) In the case of corporations, 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,
- (2) In the case of a partnership, by a general partner, or
- (3) In the case of a sole proprietorship, by the proprietor,
- (4) In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be specified by the Regional Board.

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 specified in Part B by date, time, type of sample, and station, signed by the laboratory director. The report format will be specified by the Regional Board.

e. List of Approved Analyses

- (1) Listing of analyses for which the discharger is approved by the State Department of Health.
- (2) List of analyses performed for the discharger by another approved laboratory (and copies of reports signed by the laboratory director of that laboratory shall also be submitted as part of the report).

f. Annual Reporting

By February 15 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain:

1. Tabular and graphical summaries of the monitoring data obtained during the previous year.
2. 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.
3. A map showing the area in which filling has been completed during prior calendar year.
4. Summary of the groundwater analyses indicating any change in the quality of the groundwater.

PART B

I. DESCRIPTION OF SAMPLING STATIONS & SCHEDULE OF SAMPLING, ANALYSES & OBSERVATIONS

A. WASTE MONITORING

1. Monthly, record the total volume and weight of a refuse (in cubic yards and tons) deposited on the site during the month, and the daily average. Report quarterly.
2. Monthly, record the volume of fill completed, in cubic yards, showing the location(s) and dimensions on a sketch or a map. Report quarterly.

The monthly records shall be maintained at the landfill office. The weight of the refuse shall be estimated and reported quarterly.

B. ON SITE OBSERVATION

<u>Station</u>	<u>Description</u>
S-1 thru S-'n'	Observation stations located on any past or presently active portion of the waste site at grid squares delineated by a 500 foot grid network.
P-1 thru P-'n'	These stations shall be located at equidistant intervals not exceeding 1000 feet around the perimeter of the active and once active portion of the disposal site excluding the area described by the 'S' stations.

  

<u>Station</u>	<u>Frequency of Observation</u>	<u>Observations</u>
All S Stations	Weekly throughout the year	1. Evidence of ponded water at any point on the disposal site.  2. Evidence of refuse not confined within disposal site  3. Evidence of erosion and/or day-lighted refuse.  4. Evidence of waste in contact with pools of surface water.

<u>Station</u>	<u>Frequency of Observation</u>	<u>Observations</u>
All P Stations	Weekly throughout the year	1. Evidence of refuse not confined within a cell or parcel.  2. Evidence of odors presence or absence, characteristics, intensity source and distance of travel.  3. Evidence of leachate or water entering or leaving the disposal site, and estimated size of affected area.

All "P" and "S" stations must be monitored according to the above described frequency and report quarterly.

C. SEEPAGE AND/OR LEACHATE MONITORING

<u>Station</u>	<u>Description</u>
L-1 thru L-'n'	At each point at which discharge occurs from the disposal area. Include a map indicating locations of discharge(s).

<u>Station</u>	<u>Type of Sample and Frequency</u>	<u>Analyses</u>	<u>Units</u>
All L Stations	Grab sample at each occurrence daily.	COD D.O. Dissolved sulfide Odors Color pH Specific Conductivity	mg/l mg/l mg/l description description electrometric units micromhos/cm

A report shall be made by telephone of any seepage or leachate leaving the disposal area immediately after occurrence. A written report shall be filed with this Board within five days and shall contain the following information: (1) Map showing location(s) of discharge (2) Approximate flow rate (3) Nature of effect (i.e. discoloration of receiving water, size of affected area, and (4) Corrective measures undertaken of sampling.

D. RECEIVING WATER

<u>Station</u>	<u>Description</u>
CU-1 thru CU-'n'	Located in the receiving water, 200 feet upstream from point of discharge.
CD-1 thru CD-'n'	Located in the receiving water, 200 feet downstream from point of discharge.

<u>Station</u>	<u>Types of Sample and Frequency</u>	<u>Analyses</u>	<u>Unit</u>
All C Stations	Daily, during discharge coincident with sampling at "L" stations	D. O.	mg/l
		Total Sulfide	mg/l
		Dissolved Sulfide	mg/l
		pH	electrometric units
		Specific Conductivity	micromhos/cm
		Odors	description
		Color	description

E. GROUNDWATER AND PIEZOMETRIC GRADIENT MONITORING

<u>Station</u>	<u>Description</u>
G-1 thru G-'n'	These groundwater monitoring wells shall be located on the middle of the perimeter levee at equidistant intervals of 1000 feet around the disposal area. These wells shall be as deep as necessary to determine the level of subsurface water nearest to the ground surface.
GR-1 thru GR-'n'	Risers located in the filled and partially filled portions of the refuse site at a 1000 foot grid system. The risers depth shall be the bottom of the disposal site.
GD-1	A groundwater monitoring well shall be located 50 feet north of the disposal area. This well shall monitor the deep aquifer zone.
GD-2	A groundwater monitoring well shall be located south of the disposal area. This well shall monitor the deep aquifer zone.

A well drilling log shall be submitted for each sampling well established per this monitoring program.

Each such well shall be constructed in accordance with the tentative well construction standards of the Santa Clara Valley Water District. The wells shall be perforated.

<u>Station</u>	<u>Type of Sample and Frequency</u>	<u>Analyses</u>	<u>Units</u>
All "GR" Stations	Observed <u>quarterly</u> throughout the year.	Leachate level	feet
All "G" Stations	Observations <u>quarterly</u> throughout year	water level	feet
		Specific conductivity	micromhos/cm
		chloride	mg/l
		COD	mg/l
		pH	unit
		color	visual
		Nitrate	
		Nitrogen (as N)	mg/l
		Total Kjeldahl nitrogen (as N)	mg/l
		TDS	mg/l
		Free CO <sub>2</sub>	mg/l

All "GR", "GD", and "G" stations shall be reviewed after one (1) year of analyses.

Prior to taking any grab samples of the groundwater wells, the well water must be pumped a minimum of two minutes.

F. MISCELLANEOUS REPORTING

1. Prior to the placement of waste material in any new portion of the active area, the discharger shall submit documentation of the presence of a material clay barrier of at least 5 feet in thickness and a permeability of  $10^{-6}$  cm/sec or less on the bottom and sides of each disposal area. If such a natural condition does not exist, the discharger shall submit documentation that an artificial barrier meeting the above specifications has been constructed.
2. This documentation shall include the results of borings to a depth showing five feet of clay material along 200-foot grid system performed on the above described area.
3. Submit documentation no later than May 15, 1978, of all actions taken to observe, minimize, and/or control the migration of methane gas from Group II waste necessary to prevent creation of a nuisance.

I, Fred H. Dierker, 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 the Regional Board Resolution No. 70-67.
2. Has been ordered in writing by the Executive Officer in January 1971 to become effective immediately and was revised to be implemented on the date ordered as shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from either the Executive Officer or the discharger, and will be revised upon written agreement of the Executive Officer and the discharger.

FRED H. DIERKER  
Executive Officer

DATE ORDERED January 12, 1978