

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-127

NPDES PERMIT NO. CA0006289

WASTE DISCHARGE REQUIREMENTS FOR:

KAISER SAND AND GRAVEL COMPANY
A SUBSIDIARY OF KOPPERS COMPANY, INC.,
RADUM PLANT, PLEASANTON, ALAMEDA COUNTY

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

1. Kaiser Sand and Gravel Company, a Subsidiary of Koppers Company, Inc., (hereinafter called the discharger) operates a privately-owned facility known as Radum Plant, Kaiser Sand and Gravel, which is located at 3311 Stanley Boulevard, Pleasanton, Alameda County. The discharger has submitted for its Radum Plant a National Pollutant Discharge Elimination System (NPDES) Application for a Permit to Discharge, Standard Form C, requesting renewal of its expiring NPDES permit (Regional Board Order No. 74-147).
2. The discharger operates a facility for the harvesting and processing of sand and gravel for construction aggregates and plants for the production of concrete and asphaltic concrete. Groundwater from wells and quarry pits is used to wash clays from the aggregates being processed. This wash water is discharged into settling ponds for reuse. When the settling ponds accumulate excess water, decanted water is discharged at a maximum daily rate of 5 million gallons per day either to Arroyo del Valle (Discharge Point 001) or to Shadow Cliffs Lake (Discharge Point 002). Wastewater is pumped to Shadow Cliffs Lake on an as-needed basis as requested by the East Bay Regional Park District for water level control. Discharge to Arroyo del Valle is made only during the four months of December, January, February and March. The discharger has requested the addition of two future discharge points on Arroyo Mocho (Discharge Points 003 and 004). A location sketch is attached. The discharger requested this addition as its harvesting operations are proceeding toward the Arroyo Mocho and away from the Arroyo del Valle. The streams and lake are waters of the State and of the United States.
3. The Board, on April 8, 1975, adopted a Water Quality Control Plan for the San Francisco Bay Basin. The Basin Plan contains water quality objectives for Shadow Cliffs Lake, Arroyo del Valle and Arroyo Mocho.
4. The beneficial uses of Shadow Cliffs Lake, Arroyo del Valle, and Arroyo Mocho are:
 - a. Recreation
 - b. Fish migration and habitat
 - c. Habitat and resting for waterfowl and migratory birds
 - d. Industrial, agricultural, and municipal water supply
 - e. Esthetic enjoyment
 - f. Navigation

5. Effluent limitation and toxic and pretreatment effluent standards established pursuant to Sections 208(b), 301, 304, and 307, of the Federal Water Pollution Control Act and amendments thereto are applicable to the discharge.
6. The Board has notified the discharger and interested agencies and persons of its intent to prescribe 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.
7. The Board is not required to comply with the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (California Environmental Quality Act) as this Order is an NPDES permit and is exempt from such provisions per Section 13389 of the Water Code.
8. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.
9. 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 at the end of ten days from date of hearing provided the Regional Administrator of the U. S. Environmental Protection Agency, has no objections.

IT IS HEREBY ORDERED that Kaiser Sand and Gravel Company, a Subsidiary of Koppers Company, 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 Federal Water Pollution Control Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

The discharge of waste to Arroyo del Valle or to Arroyo Mocho is prohibited between April 1 and December 1 of each year.

B. Effluent Limitations

1. The discharge of an effluent containing constituents in excess of the following limits is prohibited:

<u>Constituents</u>	<u>Units</u>	<u>30-Day Average</u>	<u>Maximum Daily</u>
Total Suspended Solids	mg/l	30	45
	lbs/day	1250	1880
	kg/day	570	850

2. The discharge shall not have pH of less than 6.5 nor greater than 8.5.
3. 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 shall achieve a median of 90% survival for three consecutive samples and a 90 percentile value of not less than 70% survival for 10 consecutive samples.

4. The daily discharge rate is obtained from the following calculation for any calendar day:

$$\text{Daily discharge rate} = \frac{8.34}{N} \sum_{i=1}^N Q_i C_i$$

in which N is the number of samples analyzed in any calendar day. Q_i and C_i are the flow rate (MGD) and the constituent concentration (mg/l) respectively, which are associated with each of the N grab samples which may be taken in any calendar day. If a composite sample is taken, C_i is the concentration measured in the composite sample and Q_i is the average flow rate occurring during the period over which samples are composited.

5. The 30-day average discharge rate or concentration shall be the arithmetic average of all the daily values calculated using the results of analyses of all samples collected during any 30-consecutive-calendar-day period. If fewer than four samples are collected and analyzed during any 30-consecutive-calendar-day period, compliance with the 30-day average limitation shall not be determined.
6. Instantaneous maximum limitations shall be applied to the values of the measurements obtained for any single grab sample.

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 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. Annual median - 80% saturation. When natural factors cause lesser concentration(s) 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 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 treatment nor the discharge of pollutants shall create a nuisance as defined in the California Water Code.
- 2. Discharges to Shadow Cliffs Lake shall be made only upon request of the East Bay Regional Park District.
- 3. Wastes from concrete production, including storm runoff from areas used for loading or washing trucks, shall either be contained on site or routed into the sand and gravel washwater settling ponds.
- 4. The discharger shall comply with all sections of this Order immediately upon adoption. Order No. 74-147 adopted November 19, 1974, is hereby rescinded.
- 5. The discharger shall file with the Board ninety days after adoption of this Order a report on data acquired or studies made since the discharger's letter of April 4, 1975, which submitted a conceptual plan of alternate studies to be made for the elimination of this discharge. The report may be in the form of a time schedule with dates by which data or study results will be submitted - with September 1, 1980, being the final date for submittal to the Board of a completed report describing measures being taken or proposed for eliminating the discharge.
- 6. This Order includes items 1, 3, and 5 of the attached "Reporting Requirements" dated August 8, 1973.
- 7. This Order includes items 1, 4, 5, 6, 8, 9, 10, and 11 of the attached "Standard Provisions" dated August 8, 1973.
- 8. This Order expires on October 15, 1984, and the discharger must file a report of waste discharge in accordance with Title 23 of the California Administrative Code not later than 180 days in advance of such date as application for issuance of new waste discharge requirements.

9. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.

I, Fred H. Dierker, 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 October 16, 1979.

FRED H. DIERKER
Executive Officer

Attachments:

Sketch showing discharge points
Reporting Requirements 8/8/73
Standard Provisions 8/8/73
Self-Monitoring Program

by ROGER B. JAMES
Acting Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

KAISER SAND AND GRAVEL COMPANY

A SUBSIDIARY OF KOPPERS COMPANY, INC.

PLEASANTON, ALAMEDA COUNTY

NPDES NO. CA 0006289

ORDER NO. 79-127

CONSISTS OF

PART A, dated 1/78

AND

PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. EFFLUENT

<u>Station</u>	<u>Description</u>
E-1	At any point in the outfall from the treatment facilities between the <u>point of discharge to Arroyo del Valle</u> and the point at which all waste tributary to that outfall is present.
E-2	At any point in the outfall from the treatment facilities between the <u>point of discharge to Shadow Cliffs Lake</u> and the point at which all waste tributary to that outfall is present.
E-3 or E-4	At any point in the outfall from the treatment facilities between the point of discharge to Arroyo Mocho and the point at which all waste tributary to that outfall is present.

B. RECEIVING WATERS

<u>Station</u>	<u>Description</u>
C-1	At a point in <u>Arroyo del Valle</u> located 50 feet upstream from the point of discharge.
C-2	At a point in <u>Arroyo del Valle</u> located 50 feet downstream from the point of discharge.
C-3	At a point in <u>Shadow Cliffs Lake</u> located within 25 feet of the point of discharge.
C-4 or C-5	At a point in <u>Arroyo Mocho</u> located 50 feet upstream from the point of discharge.
C-6 or C-7	At a point in <u>Arroyo Mocho</u> located 50 feet downstream from the point of discharge.

II. SCHEDULE OF SAMPLING AND ANALYSES

- A. The schedule of sampling and analyses shall be that given as Table I.
- B. A map showing the location and identity of each station sampled shall accompany each monitoring report.

III. MODIFICATION OF PART A (dated 1/78)

- A. Exclusions: Paragraphs C.3, C.4, C.5.c, C.5.d, C.5.e, D.1, D.4, E.2.b, E.2.c, E.3, E.4, and F.3.e.

- B. Paragraph F.3 of Part A is modified to allow for quarterly submittal of monitoring data instead of monthly. Sampling and analyses data collected pursuant to Table I may be accumulated for each calendar quarter and submitted by the 15th day of the month following the end of each calendar quarter. If no discharge occurred, a letter certifying to no discharge shall be submitted.

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 Regional Board Order No. 79-127.
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.

Attachment:
Table I

FRED H. DIERKER
Executive Officer

by ROGER B. JAMES
Acting Executive Officer

Effective Date _____

TABLE I

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

(ORDER NO. 79-127)

SAMPLING STATION	E-1, E-3, E-4			C-1 & C-2 C-4 - C-7		E-2			C-3		
	G	C-24	O	G	O	G	C-24	O	G	O	
Flow Rate (MGD)		D					D				
Settleable Matter (ml/l-hr & cu. ft/day)		W									
Total Suspended Matter (mg/l & kg/day)		W					Y				
Turbidity (Nephelometric Turbidity Units)		W		W			Y		Y		
pH (Units)	W			W		Y			Y		
Temperature (°C)	M					Y					
Total Dissolved Solids (mg/l & kg/day)		M					Y				
Fish Toxicity, 96-hr. , % Survival in Undiluted waste		M					Y				
All Applicable Standard Observations*			D		D			Y		Y	

LEGEND FOR TABLE

Type of Sample:

- G = grab sample
- C-24 = 24-hour composite sample
- O = observation

Frequency of Sampling:

- D = daily when discharging
- W = once per week during each week in which discharge occurs
- M = once per month during each month in which discharge occurs
- Y = once per year upon first discharge

Sampling Stations:

- E-1 = effluent discharge to Arroyo del Valle
- E-3 or E-4 = effluent discharge to Arroyo Mocho
- E-2 = effluent discharge to Shadow Cliff
- C-3 = receiving water station for Shadow Cliff
- C-1 & C-2 = receiving water stations for Arroyo del Valle
- C-4 - C-7 = receiving water stations for Arroyo Mocho

*For Standard Observations at Effluent stations, see "Part A" page 3, paragraph C.5.b.
For Standard Observations at Receiving Water stations, see paragraph C.5.a.