

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 85-23

AN ORDER REQUIRING

SHELL OIL COMPANY, MARTINEZ MANUFACTURING COMPLEX, CONTRA COSTA COUNTY, TO CEASE AND DESIST FROM DISCHARGING WASTES CONTRARY TO REQUIREMENTS PRESCRIBED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

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

1. Shell Oil Company, Martinez Manufacturing Complex, hereinafter the discharger, discharges wastes from its oil refinery into Carquinez Strait. On November 20, 1979, the Board reissued NPDES Permit No. CA0005789 as Order No. 79-154 which prescribed waste discharge requirements for the discharge.
2. The requirements of Order No. 79-154 provide in part as follows:

"A. Effluent Limitations

1. The discharge of Waste 001 and Waste 006, singly or together containing constituents in excess of the following limits is prohibited:

<u>Constituent</u>	<u>Units</u>	<u>30-Day Average</u>	<u>Maximum Daily</u>
Ammonia Nitrogen	lbs/day	646	1410
	kg/day	293	640
Oil and Grease	lbs/day	544	1020
	kg/day	247	463
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5-day, 20°C BOD	lbs/day	1730	3260
	kg/day	786	1480
Total Suspended Solids	lbs/day	1430	2240
	kg/day	648	1020
COD*	lbs/day	11900	23100
	kg/day	5400	10480
Phenolic Compounds	lbs/day	11.6	23.8
	kg/day	5.3	10.8
. . .			
Settleable Solids	ml/l-hr	0.1	0.5

*Incremental increase over intake water.

2. The following allocations attributable to runoff and ballast which is treated and discharged as part of Waste 001 shall be added to the effluent limitations specified in Section A.1. for these four pollutants to determine their total effluent limitations. The allocations below shall be calculated by the method specified in the Self-Monitoring Program.

ADDITIONAL POUNDS (KILOGRAMS) OF POLLUTANT PER THOUSAND GALLONS OF FLOW TREATED AND DISCHARGED AS PART OF WASTE 001

POLLUTANT	STORM RUNOFF		BALLAST	
	30-day Average	Maximum Daily	30-day Average	Maximum Daily
5-day 20°C BOD	0.21 (0.0953)	0.40 (0.181)	0.21 (0.0953)	0.40 (0.181)
Total Suspended Solids	0.17 (0.0771)	0.26 (0.118)	0.17 (0.0771)	0.26 (0.118)
Chemical Oxygen Demand	1.6 (.726)	3.1 (1.41)	2.0 (.907)	3.9 (1.77)
Oil and Grease	0.067 (.0304)	0.126 (.0572)	0.067 (.0304)	0.126 (.0572)

3. Waste 001 shall not have pH of less than 6.0 nor greater than 9.0.
 . . .
 7. Total coliform bacteria for a median of 5 consecutive samples shall not exceed 240 MPN/100 ml. Any single sample shall not exceed 10,000 MPN/100 ml when verified by a repeat sample taken within 48 hours.
 8. Wastes 002, 003, 004, 005, and 006 shall not contain oil and grease in excess of 15 mg/l at any time. Also, the pH of those wastes shall not be less than 6.5 nor greater than 8.5.
 9. 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."
3. The discharger's self monitoring reports document recurring violations of Ammonia Nitrogen, Oil and Grease, and Total Suspended Solids (TSS) since December 1, 1980, until present. The reports also document sporadic violations of BOD, COD, phenolic compounds, settleable solids and coliform limitations over the same period.

4. The Board, on May 16, 1984, adopted Cease and Desist Order No. 84-21 requiring the discharger to cease and desist forthwith from discharging waste contrary to the requirements contained in Order No. 79-154, as listed in Finding 2 of Order 84-21 and repeated in Finding 2 of this Order.
5. The limitations contained in Order No. 79-154 have been superceded by those contained in Order No. 85-22 as adopted by the Board on February 20, 1985. Conditions and monitoring results described above indicate that the discharger is threatening to violate these new limitations:

A. Effluent Limitations

1. The discharge of Waste 001 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>
BOD (5-day @ 20°C)	lbs/day	1700	3350
	kg/day	774	1520
TSS	lbs/day	1500	2340
	kg/day	680	1060
COD	lbs/day	12300	23700
	kg/day	5610	10800
Oil and Grease	lbs/day	561	1070
	kg/day	255	485
Phenolic Compounds	lbs/day	7.85	24.9
	kg/day	3.11	11.3
Ammonia as N	lbs/day	636	1400
	kg/day	289	636
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Settleable Solids	ml/l-hr	0.1	0.2
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2. In addition to the 30-day average and daily maximum pollutant weight allowances shown in A.1, allocations for pollutants attributable to stormwater runoff and ballast water discharged as a part of Waste 001 are permitted in accordance with the following schedules:

STORMWATER RUNOFF

<u>Constituent</u>	<u>Units</u>	<u>30-day Average</u>	<u>Maximum Daily</u>
BOD (5-day @ 20°C)	mg/l	26	48
TSS	mg/l	21	33
COD	mg/l	180	360
Oil and Grease	mg/l	8	15
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BALLAST WATER

<u>Constituent</u>	<u>Units</u>	<u>30-day Average</u>	<u>Maximum Daily</u>
BOD (5-day @ 20°C)	mg/l	26	48
TSS	mg/l	21	33
COD	mg/l	240	470
Oil and Grease	mg/l	8	15

The total effluent limitation for the discharge is the sum of the stormwater runoff allocation, the ballast water allocation and the mass limits contained in A.1. The total effluent limitation (both maximum and average) is to be computed by the discharger on a monthly basis as shown in Part B of the Monitoring Program.

3. Waste 001 shall not have a pH less than 6.0 nor greater than 9.0.

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6. The discharge of Wastes 002, 003, 004 and 005 containing constituents in excess of the following limits is prohibited:

<u>Constituent</u>	<u>Units</u>	<u>Maximum Daily</u>
Oil and Grease	mg/l	15
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pH	pH units	6.5-8.5
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7. Total coliform bacteria for a median of 5 consecutive samples of Waste 001 shall not exceed 240 MPN/100 ml. Any single sample shall not exceed 10,000 MPN/100 ml when verified by a repeat sample taken within 48 hours."

6. The Board on February 20, 1985 after due notice to the discharger and other affected persons, conducted a public hearing at which the discharger appeared and evidence was received concerning the discharge.

7. The Board finds that this action is an order to enforce waste discharge requirements previously adopted by the Board. This action is therefore categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Section 15121 of the Resources Agency Guidelines.

IT IS HEREBY ORDERED THAT Shell Oil Company, Martinez Manufacturing Complex, cease and desist from discharging wastes contrary to the requirements contained in Order No. 85-22 as listed in Finding 5 of this Order as follows:

- A. The discharger shall immediately comply with limitations of Order No. 85-22 as listed in Finding No. 5 of this Order.
- B. If the Executive Officer finds that the discharger has failed to comply with provisions of this Order, he is authorized after approval of the Board Chairman, to request the Attorney General to take the appropriate enforcement action against the discharger, including injunction and civil monetary remedies, if appropriate.
- C. If the Executive Officer determines that the provisions of this Order are violated and does not refer the matter to the Attorney General, he is instructed to report to the Board the reasons that the discharger has been unable to comply with the provisions of this Order.
- D. The Board will consider rescission of this Order after the discharger has demonstrated consistent compliance with the terms and conditions of this Order and Order No. 85-22 during the 1984-85 winter season.
- E. Order No. 84-21 is hereby amended.

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 February 20, 1985.

ROGER B. JAMES
Executive Officer