

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

ORDER NO. R5-2003-0088

REQUIRING CITY OF WEST SACRAMENTO,
MAIN WASTEWATER TREATMENT PLANT
TO CEASE AND DESIST
FROM DISCHARGING CONTRARY TO REQUIREMENTS

The California Regional Water Quality Control Board, Central Valley Region, (hereafter Regional Board) finds:

1. On 6 June 2003, the Regional Board adopted Waste Discharge Requirements (WDR) Order No. R5-2003-0087, for the City of West Sacramento, (Discharger) Wastewater Treatment Plant. WDR Order No. R5-2003-087 regulates the discharge of approximately 5.08 million gallons per day (mgd) of treated domestic wastewater to the Sacramento River.
2. WDR Order No. R5-2003-0087 contains Effluent Limitations B.1, for ammonia, trihalomethanes, chloromethane, manganese, dalapon, organochlorine pesticides, aluminum, nitrate + nitrite, nitrite, iron, MTBE, 1,4-dichlorobenzene and chloroform which read in part as follows:

Effluent discharged to Sacramento River shall not exceed the following limits:

<u>Constituents</u>	<u>Units</u>	<u>Average Monthly</u>	<u>Average 4-Day</u>	<u>Average Daily</u>	<u>Average 1-Hour</u>
Ammonia (as N)	mg/l	Attachment C	---	---	Attachment B
	lbs/day ¹		---	---	---
Nitrate + Nitrite (as N)	mg/l	10	---	---	---
	lbs/day ¹	625	---	---	---
Nitrite (as N)	mg/l	1	---	---	---
	lbs/day ¹	62.5	---	---	---
Trihalomethanes	µg/l	80.0	---	---	---
	lbs/day ¹	5.0	---	---	---
Chloromethane	µg/l	3.0	---	---	---
	lbs/day ¹	0.2	---	---	---
Methyl-tert-butyl ether	µg/l	5.0	---	---	---
	lbs/day ¹	0.3	---	---	---
Aluminum	µg/l	---	87	---	750
	lbs/day ¹	---	5.5	---	47
Iron	µg/l	300	---	---	---
	lbs/day ¹	19	---	---	---
Manganese	µg/l	50	---	---	---
	lbs/day ¹	3.1	---	---	---
Organochlorine Pesticides	µg/l	Non-detect	---	---	---
	lbs/day ¹	0	---	---	---
Dalapon	µg/l	110	---	---	---
	lbs/day ¹	7.0	---	---	---

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<u>Constituents</u>	<u>Units</u>	<u>Average Monthly</u>	<u>Average 4-Day</u>	<u>Average Daily</u>	<u>Average 1-Hour</u>
1,4-Dichlorobenzene	µg/l	5.0			
	lbs/day ¹	0.3	---	---	---
Chloroform	µg/l	1.1	---	---	---
	lbs/day ¹	69	---	---	---

¹Based upon a design treatment capacity of 7.5 mgd ($x \text{ mg/l} \times 8.345 \times 7.5 \text{ mgd} = y \text{ lbs/day}$)

3. Information included in analytical laboratory reports submitted by the Discharger, show the discharge contained concentrations of aluminum as high as 230 µg/l. Based on review of results of past monitoring, the Discharger threatens to violate its effluent limitations for aluminum.
4. Information included in analytical laboratory reports submitted by the Discharger, shows the discharge contained concentrations of chloromethane as high as 3.9 µg/l. Based on review of results of past monitoring, the Discharger threatens to violate its effluent limitations for chloromethane.
5. Information included in analytical laboratory reports submitted by the Discharger, shows the discharge contained concentrations of methyl-tert-butyl ether (MTBE) as high as 29 µg/l. Based on review of results of past monitoring, the Discharger threatens to violate its effluent limitations for methyl-tert-butyl ether.
6. Information included in analytical laboratory reports submitted by the Discharger, shows the discharge contained concentrations of manganese as high as 55 µg/l. Based on review of results of past monitoring, the Discharger threatens to violate its effluent limitations for manganese.
7. Information included in analytical laboratory reports submitted by the Discharger, shows the discharge contained concentrations of organochlorine pesticides as high as 0.12 µg/l. Based on review of results of past monitoring, the Discharger threatens to violate its effluent limitations for organochlorine pesticides.
8. Information included in analytical laboratory reports submitted by the Discharger, shows the discharge contained concentrations of dalapon as high as 26 µg/l. Based on review of results of past monitoring, the Discharger threatens to violate its effluent limitations for dalapon.
9. The sampling results for the Discharge's effluent showed trihalomethanes at 77 µg/l. Based on review of results of past monitoring, the Discharger threatens to violate its effluent limitations for trihalomethanes.
10. Information included in analytical laboratory reports submitted by the Discharger, shows the discharge contained concentrations of 1,4-dichlorobenzene as high as 5.0 µg/l. Based on

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review of results of past monitoring, the Discharger threatens to violate its effluent limitations for 1,4-dichlorobenzene.

11. The sampling results for the Discharge's effluent showed chloroform at 44 µg/l. Based on review of results of past monitoring, the Discharger threatens to violate its effluent limitations for chloroform.
12. Iron was detected in an effluent sample collected at a concentration of 210 µg/l. Based on review of results of past monitoring, the Discharger threatens to violate its effluent limitations for iron.
13. The current plant design and operation may result in incomplete nitrification and denitrification of wastewater and increase effluent ammonia and nitrate concentrations. Failure to nitrify and denitrify the wastewater would result in concentrations of ammonia, nitrite and nitrate plus nitrite that exceed Effluent Limitations. Ammonia concentrations have been detected in the effluent up to 1.7 mg/l. Nitrate concentrations have been detected in the effluent up to 18 mg/l. Based on review of results of past monitoring, the Discharger threatens to violate its effluent limitation for ammonia and nitrate.
14. In order to consistently comply with the nitrite and nitrate plus nitrite Effluent Limitations, nitrification and denitrification of the wastewater are necessary.
15. In accordance with California Water Code (CWC) Section 13385(j)(3), the Regional Board finds that, based upon operational capabilities, the Discharger may not be able to consistently comply with ammonia, trihalomethanes, chloromethane, manganese, dalapon, organochlorine pesticides, aluminum, nitrate + nitrite, nitrite, iron, 1,4-dichlorobenzene, chloroform and MTBE limitations. The ammonia, trihalomethanes, chloromethane, manganese, dalapon, organochlorine pesticides, aluminum, nitrate + nitrite, nitrite, iron, 1,4-dichlorobenzene, chloroform and MTBE limitations are new requirements that become applicable to the permit after the effective date of adoption of the waste discharge requirements, and after 1 July 2000, for which new or modified control measures are necessary in order to comply with the limitation, and the new or modified control measures cannot be designed, installed, and put into operation within 30 calendar days.

Since the time schedules for completion of actions necessary to achieve full compliance exceed one year, interim requirements and dates for achievement are included in this Order. This time schedule does not exceed five years. Source control and treatment actions can be taken to correct the violations that would otherwise be subject to mandatory penalties under California Water Code section 13385(h) and (i), and the Discharger can take reasonable measures to achieve compliance within five (5) years from the date the waste discharge requirements were required to be reviewed pursuant to Section 13380.

California Water Code Section 13385(j)(3) requires the Discharger to prepare and implement a pollution prevention plan pursuant to Section 13263.3 of the California Water Code. A

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pollution prevention plan addresses only those constituents that can be effectively reduced by source control measures. Ammonia, nitrate plus nitrite, nitrite and trihalomethanes cannot be significantly reduced through source control measures in domestic wastewater, but chloromethane, manganese, dalapon, organochlorine pesticides, aluminum, iron, MTBE, 1,4-dichlorobenzene and chloroform may be reduced through source control measures. Therefore, this Order requires a pollution prevention plan for chloromethane, manganese, dalapon, organochlorine pesticides, aluminum, iron, 1,4-dichlorobenzene, chloroform and MTBE.

Compliance with this Order exempts the Discharger from mandatory minimum penalties for violations of ammonia, nitrate plus nitrite, trihalomethanes, chloromethane, manganese, dalapon, organochlorine pesticides, aluminum, iron, 1,4-dichlorobenzene, chloroform and MTBE effluent limitations only, in accordance with California Water Code Section 13385(j)(3).

16. On 6 June 2003, in Sacramento, California, after due notice to the Discharger and all other affected persons, the Regional Board conducted a public hearing at which evidence was received to consider a Cease and Desist Order to establish a time schedule to achieve compliance with waste discharge requirements.
17. Issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000, *et seq.*), in accordance with Section 15321 (a)(2), Title 14, California Code of Regulations.
18. Any person adversely affected by this action of the Regional Board may petition the State Water Resources Control Board (State Board) to review the action. The petition must be received by the State Board Office of the Chief Counsel, P.O. Box 100, Sacramento, CA, 95812-0100, within 30 days of the date on which the action was taken. Copies of the law and regulations applicable to filing petitions will be provided on request.

IT IS HEREBY ORDERED:

1. The City of West Sacramento shall cease and desist from discharging and threatening to discharge contrary to Waste Discharge Requirements Order No. R-2003-0087, Effluent Limitations for ammonia, trihalomethanes, chloromethane, manganese, dalapon, organochlorine pesticides, aluminum, nitrate + nitrite, nitrite, iron, 1,4-dichlorobenzene, chloroform and MTBE.

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2. The City of West Sacramento shall comply with the following time schedule to assure compliance with trihalomethanes, chloromethane, manganese, dalapon, organochlorine pesticides, aluminum, nitrate + nitrite, nitrite, iron, 1,4-dichlorobenzene, chloroform and MTBE Effluent Limitations contained in Waste Discharge Requirements Order No. __ as described in the above Findings:

<u>Task</u>	<u>Compliance Date</u>
Progress Report/Implementation Schedule	30 December 2003
Progress Reports ¹	30 April and 31 October of each year
Pollution Prevention Plan	30 December 2004
Achieve Full Compliance	1 June 2008

¹ The progress reports shall detail what steps have been implemented towards achieving compliance with waste discharge requirements, including construction progress, evaluate the effectiveness of the implemented measures and assess whether additional measures are necessary to meet the time schedule.

3. Until full compliance with Waste Discharge Requirements Order No. __, Effluent Limitations B.1 is achieved, the Discharger shall operate the treatment plant in a nitrification/denitrification mode to the maximum extent practicable.
4. If, in the opinion of the Executive Officer, the Discharger fails to comply with the provisions of this Order, the Executive Officer may apply to the Attorney General for judicial enforcement or issue a complaint for Administrative Civil Liability.

I, Thomas R. Pinkos, 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, Central Valley Region, on 6 June 2003.



Thomas R. Pinkos, Executive Officer