

**THE STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

ORDER NO. 98-053

NPDES NO CA0056545

WASTE DISCHARGE REQUIREMENTS

FOR

LOS ANGELES ZOO DEPARTMENT

The California Regional Water Quality Control Board, Los Angeles Region, (hereinafter Regional Board), finds:

1. Los Angeles Zoo Department (Discharger) discharges wastewater from Los Angeles Zoo under waste discharge requirements (WDRs) contained in Order No. 96-035, adopted by this Regional Board on June 10, 1996. This Order also serves as the National Pollutant Discharge Elimination System (NPDES) permit (NPDES No. CA0056545).
2. The Regional Board is implementing a Watershed Management Approach to address water quality protection in the Los Angeles Region. Pursuant to this Regional Board's watershed initiative framework, the Upper Los Angeles River Watershed is the targeted watershed for the fiscal year 1997-1998. Accordingly, the WDRs and NPDES permits for the facilities that discharge wastes to the Upper Los Angeles River (including Los Angeles Zoo) are being reviewed. As a result of the review, this new Order is prepared to replace the Order No. 96-035 adopted on June 10, 1996.
3. Los Angeles Zoo Department, as an independent Los Angeles City agency, operates the Los Angeles Zoo located at 5333 Zoo Drive, Griffith Park, Los Angeles, California, and intermittently discharges up to 2.01 million gallons per day overflow of storm water from the Los Angeles Zoo wastewater facility.
4. During dry weather and normal rainfall, wastewater (e.g., animal yard washdown water or animal pond drain) and/or storm water drained from the Los Angeles Zoo are delivered to a wastewater facility. This wastewater facility was renovated in 1994 in order to replace the old wastewater facility per the January 1990 Settlement Agreement between this Regional Board and City of Los Angeles.

This wastewater facility is located at 4700 1/2 Western Heritage Drive in Los Angeles and primarily consists of a grit removal facility, retention basin, and pump station. Any debris in the wastewater is intercepted by the grit removal facility and the remained wastewater flows by gravity to the retention basin. The retained wastewater is pumped to the North

May 21, 1998

Revised: June 29, 1998

Outfall Sewer which transports the wastewater to the Los Angeles-Glendale Water Reclamation Plant for treatment.

5. During the periods of wet weather when the flow exceeds the wastewater retention basin capacity (approximately 1.8 million gallons), excess flow from the wastewater facility is discharged through North and/or South bypasses to a paved channel adjacent to Golden State Freeway (I-5) which is tributary to Los Angeles River, a water of the United States, at Colorado Street, above the estuary.
6. The two discharge points (North and South bypasses) are located at Latitude: 34° 08' 30" and Longitude: 118° 16' 44". Two automatic sampling stations were installed to sample all bypass flow through these two discharge points.
7. On June 13, 1994, this Regional Board adopted a revised *Water Quality Control Plan, Los Angeles Region: Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties* (Basin Plan). The Basin Plan contains beneficial uses and water quality objectives for the Los Angeles River.
8. The beneficial uses of the receiving water are:

Los Angeles River upstream of Figueroa Street - Hydrologic Unit 405.21

Existing: ground water recharge; contact and non-contact water recreation; warm freshwater habitat; wildlife habitat; and wetland habitat.
Potential: municipal and domestic supply¹; and industrial service supply.

Los Angeles River downstream of Figueroa Street - Hydrologic Unit 405.15

Existing: ground water recharge; contact² and non-contact water recreation; and warm freshwater habitat.
Potential: municipal and domestic supply¹; and industrial service supply.

Los Angeles River downstream of Figueroa Street - Hydrologic Unit 405.12

¹ Municipal and domestic supply designations under State Water Resources Control Board Order No. 88-63 and Regional Board Resolution No. 89-003.

² Access prohibited by Los Angeles County Department of Public Works.

- Existing: ground water recharge; contact² and non-contact water recreation; warm freshwater habitat; marine habitat; wildlife habitat; and rare, threatened, or endangered species.
- Potential: municipal and domestic supply¹; industrial service supply; industrial process supply; migration of aquatic organisms; spawning, reproduction, and/or early development; and shellfish harvesting².

Los Angeles River Estuary - Hydrologic Unit 405.12

- Existing: industrial service supply; navigation; contact and non-contact water recreation; commercial and sport fishing; estuarine habitat; marine habitat; wildlife habitat; rare, threatened, or endangered species³; migration of aquatic organisms⁴; spawning, reproduction, and/or early development⁴; and wetland habitat.
- Potential: shellfish harvesting.

The requirements in this order are intended to protect designated beneficial uses and enhance the water quality of the watershed.

9. Since the wastewater facility was renovated in 1994, there were only two discharges (storm water bypass flow) in early 1998, due to El Nino. The results of the monitoring indicated high concentrations of coliform found in the storm water bypass discharges. Accordingly, this Order contains a provision that requires Los Angeles Zoo Department to develop and implement Best Management Practices (BMP) to reduce pollutants (especially coliform) and minimize any adverse impact on the receiving water.
10. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plan.
11. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resource Code, in accordance with Water Code Section 13389.

³ One or more rare species utilize all ocean, bays, estuaries, and coastal wetlands for foraging and/or nesting.

⁴ Aquatic organisms utilize all bays, estuaries, lagoons, and coastal wetlands, to a certain extent, for spawning and early development. This may include migration into areas which are heavily influenced by freshwater inputs.

The Board has notified the discharger and interested agencies and persons of its intent to renew waste discharge requirements for this discharge, and has provided them with an opportunity to submit their written views and recommendations.

The Board, in a public hearing, heard and considered all comments pertaining to the discharge and to the tentative requirements.

This Order shall serve as an NPDES permit, pursuant to Section 402 of the Federal Clean Water Act or amendments thereto, and shall take effect at the end of ten days from the date of its adoption, provided the Regional Administrator of United States Environmental Protection Agency (U.S. EPA) has no objections.

IT IS HEREBY ORDERED that Los Angeles Zoo Department, 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 Clean Water Act and regulations and guidelines adopted thereunder shall comply with the following:

A. Effluent Limitations

1. Wastes discharged shall be limited to overflow of storm water from the Los Angeles Zoo wastewater facility only, as proposed.
2. The discharge of wastes in excess of the following limits is prohibited:

<u>Constituent</u>	<u>Units</u>	<u>Discharge Limitations</u> <u>Daily Maximum</u>
BOD ₅ 20°C	mg/l	45
Oil and grease	mg/l	15

3. The pH of waste discharged shall at all times be within the range of 6.0 to 9.0.
4. The temperature of waste discharged shall not exceed 100°F.

B. Narrative Water Quality Limitations

1. The wastes discharged shall not produce concentrations of toxic substances in the receiving water that are toxic to or cause detrimental physiological responses in human, animal, or aquatic life.

2. The wastes discharged shall not contain substances that result in increases in the BOD which adversely affect beneficial uses of the receiving waters.
3. The wastes discharged shall not contain biostimulatory substances in concentrations that promote aquatic growth to the extent that such growth causes nuisance or adversely affects beneficial uses of the receiving waters.
4. The wastes discharged shall not cause the receiving waters to contain any substance in concentrations that adversely affect any designated beneficial use.
5. The wastes discharged shall not alter the color of the receiving waters; create a visual contrast with the natural appearance of the water; nor cause aesthetically undesirable discoloration of the receiving waters.
6. The wastes discharged shall not degrade surface water communities and populations, including vertebrate, invertebrate, and plant species.
7. The wastes discharged shall not result in problems due to breeding of mosquitos, gnats, black flies, midges, or other pests.
8. The wastes discharged shall not result in visible floating particulate, foams, and oil and grease in the receiving waters.
9. The wastes discharged shall not contain any individual pesticide or combination of pesticides in concentrations that adversely affect beneficial uses of the receiving waters. There shall be no increase in pesticide concentrations found in bottom sediments or aquatic life.
10. The wastes discharged shall not alter the natural taste, odor, and color of fish, shellfish, or other surface water resources used for human consumption.
11. The wastes discharged shall not increase the turbidity of the receiving waters to the extent that such an increase causes nuisance or adversely affects beneficial uses.

C. Requirements and Provisions

1. This order and permit cover discharge during and/or immediately after precipitation.
2. Discharge of wastes to any point other than specifically described in this order and permit is prohibited and constitutes a violation thereof.

3. This order and permit includes the attached Monitoring and Reporting Program (Attachment T). If there is any conflict between provisions stated in the Monitoring and Reporting Program and the Standard Provisions, those provisions stated in the former prevail.
4. This order and permit includes the attached "Standard Provisions and General Monitoring and Reporting Requirements" (Standard Provisions, Attachment N).

If there is any conflict between provisions stated hereinbefore and the attached "Standard Provisions", those provisions stated hereinbefore prevail.

5. Within 90 days from the effective date of this Order, the discharger shall develop and submit a Best Management Practices (BMPs) program to the Regional Board for approval by Executive Officer to eliminate or minimize pollutants (especially coliform) in the discharges during wet weather season. The BMPs shall include a provision for segregation of all storm runoff from animal holding areas.
6. This order and permit may be modified, revoked, and reissued or terminated in accordance with the provisions of 40 CFR Parts 122.44, 122.62, 122.63, 122.64, 125.62, and 125.64.

D. Expiration Date

This Order expires on May 10, 2003.

The discharger must file a Report of Waste Discharge in accordance with Title 23, California Code of Regulations, not later than 180 days in advance of that date as application for issuance of new waste discharge requirements and NPDES permit.

E. Rescission

Order No. 96-035, adopted by this Board on June 10, 1996, is hereby rescinded.

I, Dennis A. Dickerson, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on June 29, 1998.



DENNIS A. DICKERSON
Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

**MONITORING AND REPORTING PROGRAM NO. CI-4551
for
LOS ANGELES ZOO DEPARTMENT**

(NPDES NO CA0056545)

I. Reporting

The discharger shall implement this monitoring program on the effective date of this order. The first monitoring report under this program is due by October 15, 1998. Thereafter, monitoring reports shall be submitted by the dates in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January - March	April 15
April - June	July 15
July - September	October 15
October - December	January 15

II. Effluent Monitoring

Sampling station(s) shall be established at the discharge point and shall be located where representative samples of the effluent can be obtained. Provisions shall be made to enable visual inspections before discharge. In the event of presence of oil sheen, debris, and/or other objectionable materials or odors, discharge shall not be commenced before compliance of the requirements is ascertained. Any visual observation shall be included in the monitoring report.

The following shall constitute the effluent monitoring program:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of analysis^[1]</u>
Total waste flow	gal/day	---	once per discharge event
BOD ₅ 20°C	mg/l	grab	once per discharge event
Oil and grease	mg/l	grab	once per discharge event
Phenols	mg/l	grab	once per discharge event
Fecal coliform	#/100 ml	grab	once per discharge event
pH	pH units	grab	once per discharge event
Temperature	°F	grab	once per discharge event

^[1] Sampling shall be conducted during the first hour of discharge.

Laboratory analyses - all chemical and bacteriological analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer.

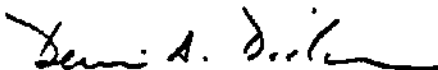
III. Notification

The Discharger shall notify the Executive Officer in writing prior to discharge of any chemical which may be toxic to aquatic life. Such notification shall include:

1. Name and general composition of the chemical,
2. Frequency of use,
3. Quantities to be used,
4. Proposed discharge concentrations and,
5. EPA registration number, if applicable.

No discharge of such chemical shall be made prior to the Executive Officer's approval.

Ordered by:



DENNIS A. DICKERSON
Executive Officer

Date: June 29, 1998

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