

Chapter 3. Affected Environment

BACKGROUND

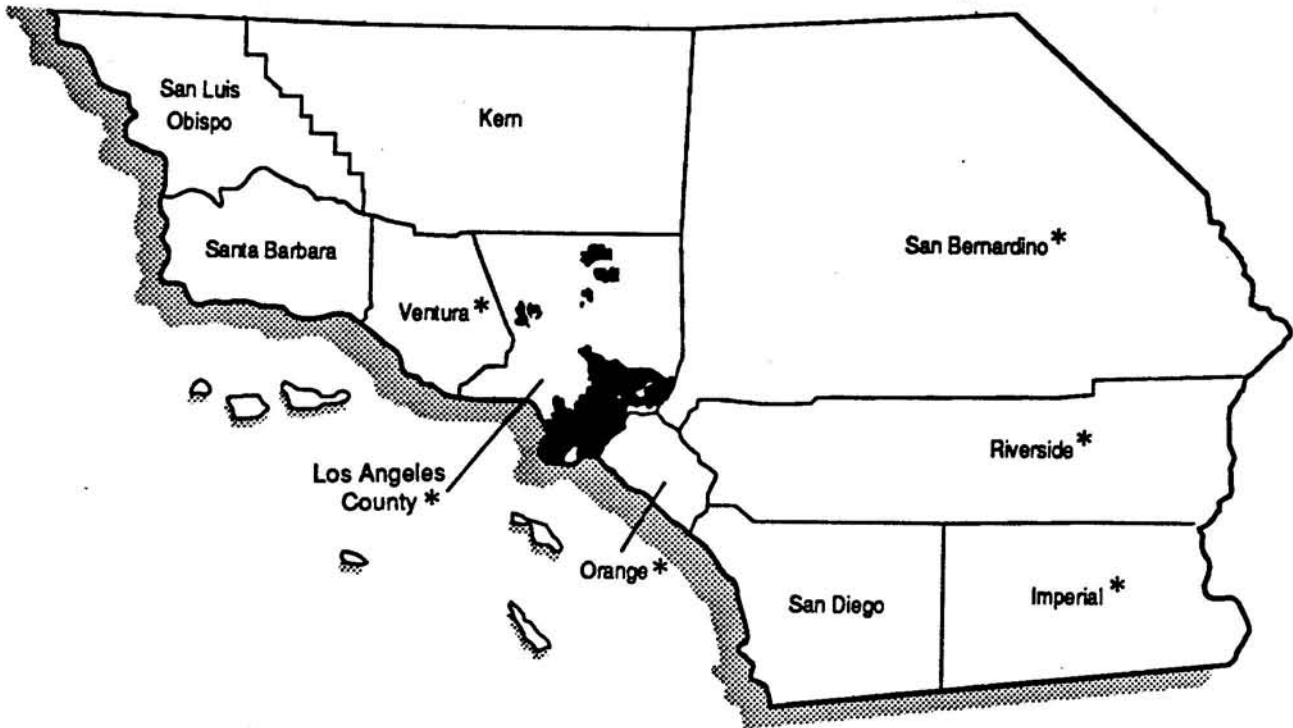
County Sanitation Districts of Los Angeles County

The Districts are a confederation of independent special districts serving the water pollution control and solid waste management needs of approximately 5 million people in Los Angeles County. The Districts' service area covers approximately 770 square miles and encompasses 78 cities and unincorporated areas in the county (Figure 3-1). The Districts comprise 26 districts that work cooperatively under a Joint Administration Agreement (JAA).

Joint Outfall System

Fifteen of the districts that are located in metropolitan Los Angeles County participate in the Joint Outfall Agreement (JOA), which provides for combined investment in wastewater conveyance and treatment facilities. These 15 districts (Nos. 1, 2, 3, 5, 8, 15, 16, 17, 18, 19, 21, 22, 23, 29 and South Bay Cities) are collectively known as the Joint Outfall Districts (JOD) and are located in the Los Angeles Basin in the eastern and southern portions of Los Angeles County. The JOD extend south and west from the foothills of the San Gabriel Mountains to the Palos Verdes Peninsula and are bounded on the east by Orange and San Bernardino Counties, on the west by the Cities of Los Angeles and Glendale and Santa Monica Bay, and on the south by San Pedro Bay.

The JOD have constructed an interconnected, regional system of sewers and treatment facilities known as the JOS. The JOS provides wastewater treatment and disposal services for residential, commercial, and industrial users and presently includes six wastewater treatment plants with a combined capacity of approximately 576 mgd, which are connected by more than 1,000 miles of main trunk sewers and 48 pumping plants. The JOS service area encompasses 72 cities and unincorporated territory in the Los Angeles Basin. JOS facilities, which currently serve approximately 4.6 million people and treat approximately 470 mgd of wastewater, consist of the coastal and inland subsystems. The inland subsystem is not considered part of the proposed action. The coastal subsystem is described below.



LEGEND



-  Districts Boundaries
-  SCAG Counties



Figure 3-1
Regional Location of the Districts Service Area

Joint Water Pollution Control Plant

The coastal subsystem consists of one wastewater treatment plant, the JWPCP, which is located in Carson at the terminus of the Districts' JOS trunk sewer network. The JWPCP is the Districts' largest and oldest wastewater treatment facility and has been the main location for wastewater treatment for the JOS service area since 1928. The JWPCP presently has a permitted capacity of 385 mgd and provides partial secondary treatment to influent wastewater. All influent wastewater receives advanced primary treatment, and approximately 200 mgd of the wastewater (approximately 60%) receives secondary treatment. All treated effluent from the JWPCP is discharged to the Pacific Ocean through the Districts' ocean outfalls approximately 2 miles off the Palos Verdes Peninsula at Whites Point, at a depth of approximately 200 feet. The JWPCP also provides centralized solids processing for all JOS wastewater treatment facilities. Dewatered, digested solids, also known as biosolids, are hauled offsite for reuse or disposal. The JWPCP currently treats approximately 321 mgd of wastewater and processes approximately 1,300 wet tons per day of biosolids. JWPCP facilities are described in detail below.

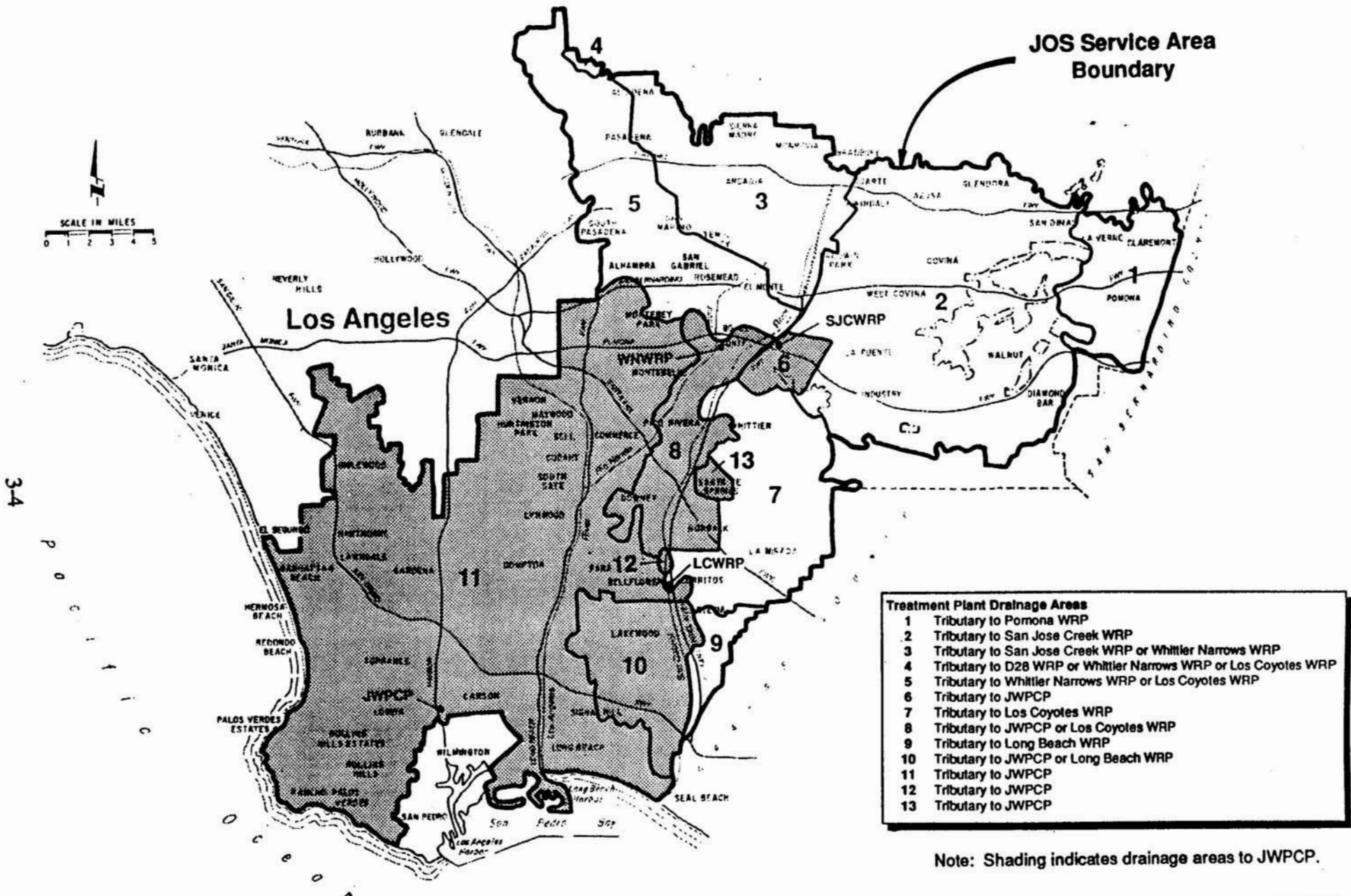
The JWPCP drainage area, which is the largest in the JOS, includes the South Bay Cities and extends north to Los Angeles city limits and as far east as Lakewood (Figure 3-2). The JWPCP site occupies approximately 310 acres. The JWPCP property is bordered by the Wilmington Drain and the Harbor Freeway (I-110) on the west, an oil refinery on the east, and residential areas on the north and south (Figure 3-3).

The JWPCP currently provides preliminary treatment and advanced primary treatment (polymer added before primary sedimentation) to all influent wastewater, and secondary treatment to approximately 60% of influent wastewater. Solids processing facilities, laboratory facilities, equipment storage and maintenance areas, and administrative facilities are also located at the JWPCP (Figure 3-3).

INFORMATION INCORPORATED BY REFERENCE INTO THE FINAL ENVIRONMENTAL IMPACT STATEMENT

Information on "Settings" for the following chapters are hereby incorporated by reference from the draft EIR and final EIR:

- Chapter 3, "Hydrology and Water Quality";
- Chapter 4, "Geologic Hazards and Soils";
- Chapter 5, "Marine Environment";
- Chapter 6, "Energy and Chemicals";
- Chapter 7, "Transportation";
- Chapter 8, "Air Quality";
- Chapter 9, "Noise";
- Chapter 10, "Public Health";



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Figure 3-2
JOS Drainage Areas

- Chapter 11, "Botanical and Wildlife Resources";
- Chapter 12, "Land Use";
- Chapter 13, "Population, Employment, and Housing";
- Chapter 14, "Public Services and Facilities";
- Chapter 15, "Aesthetics"; and
- Chapter 16, "Cultural Resources".