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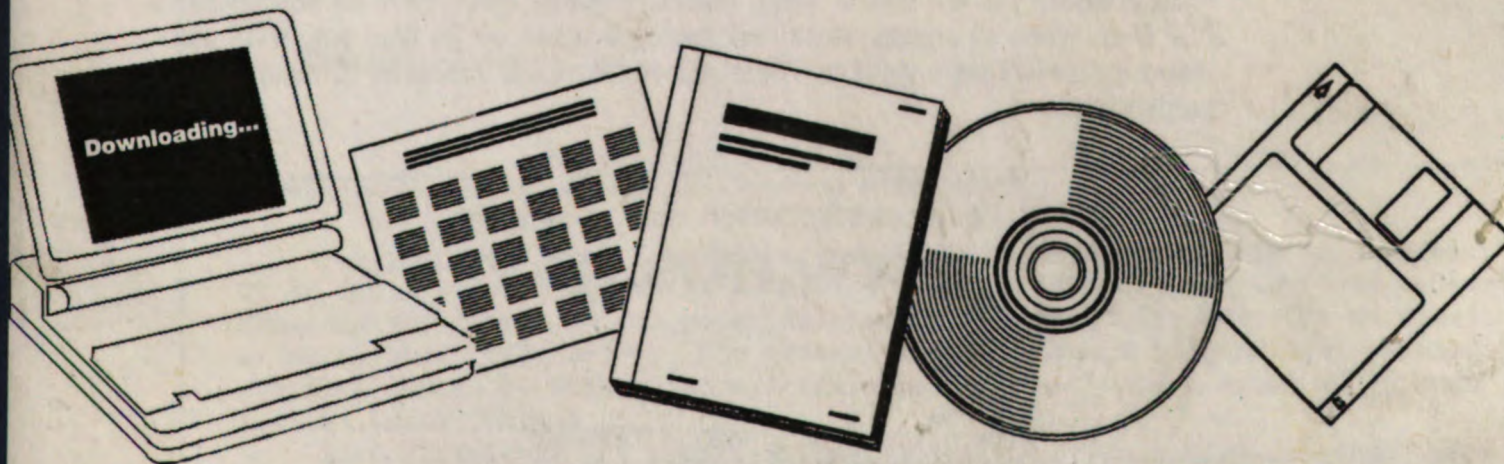
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COUNTY DRAINAGE AREA, CALIFORNIA****ARMY ENGINEER DISTRICT
LOS ANGELES, CA****DEC 1982****U.S. Department of Commerce
National Technical Information Service**

LOS ANGELES COUNTY DRAINAGE AREA, CALIFORNIA

INTERIM
FEASIBILITY REPORT
FOR
BALLONA CREEK
AND TRIBUTARIES

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES

DECEMBER 1982

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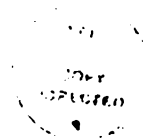


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1.0 INTRODUCTION

1.1 Project Location. Ballona Creek drainage basin is located within the western portion of the Los Angeles County Drainage Area (LACDA) (Fig. 1). This Feasibility Report is an interim of the basin-wide LACDA Review study.

Ballona Creek drains an area of about 121 square miles. The drainage basin is bounded on the north by the crest of the Santa Monica Mountains and on the south by Baldwin Hills and Inglewood. The western boundary is approximately 1 mile inland from the ocean and extends from the Santa Monica Mountains southward to Venice and eastward to Baldwin Hills; the eastern boundary extends from the crest of the Santa Monica Mountains southward and westward to the vicinity of central Los Angeles and thence to Baldwin Hills.

Ballona Creek collects runoff from several partially urbanized canyons on the south slopes of the Santa Monica Mountains as well as from the intensely urbanized areas of West Los Angeles, Culver City, Beverly Hills, Hollywood, and parts of central Los Angeles. This urbanized area accounts for 80 percent of the watershed area; the partially developed foothills and mountains make up 20 percent.

1.2 Description of Existing Project. The existing Ballona Creek system consists of Main Ballona Creek Channel and several tributaries: Sawtelle - Westwood Channel, Benedict Canyon Channel and Centinela Creek (Figs. 1 and 2)

Main Ballona Creek Channel was constructed by the Corps of Engineers and the Los Angeles County Flood Control District between 1935 and 1939. Between 1959 and 1965, in response to the 1941 Flood Control Act, the Corps of Engineers and the Los Angeles County Flood Control District modified the existing channel to provide a higher level of protection. Modifications consisted of dredging silt deposits, raising walls and levees, and grouting levee facing.

The Benedict Canyon system channels (including Higgins and Coldwater Canyon channels) were constructed between December 1962 and January 1964. A major length of channel consists of covered box culverts. The confluence of Benedict Canyon Channel with Main Ballona Creek Channel is located at Madison Avenue just east of La Salle Avenue in Culver City.

The Sawtelle-Westwood system channels were built between March 1950 and February 1960. The channels are covered box culverts along most of the system. The confluence with Ballona Creek channel is located near Slauson Avenue west of the San Diego Freeway.

Centinela Creek channel was constructed between 1960 and 1962. It is an open, concrete-lined, rectangular channel except for an approximately 1/2 mile reach east of the Marina Freeway. The confluence with Ballona Creek Channel is located about 1/2 mile upstream from the Lincoln Boulevard crossing.

1.3 Study Authority. This report is submitted in partial response to Senate Committee on Public Works Resolution dated June 25, 1969, which reads as follows: