



## Los Angeles County Drainage Area (LACDA) Study

WEST Consultants, Inc. conducted a Map Revision Study and a Levee Analysis Report for the U.S. Army Corps of Engineers, Los Angeles District (Corps). The local sponsor was the Los Angeles County Department of Public Works. The reports are part of the map revision study for the Los Angeles County Area Drainage Area (LACDA) Project, Los Angeles and vicinity, California.

The purpose of the study was to revise the 100-year water surface elevations and 100-year floodplain limits based on updated hydrology and recent improvements to the channel levees, and bridge crossings in the Los Angeles River, Compton Creek, and Rio Hondo Diversion Channel. Over 20 miles of constructed channel were analyzed. This analysis revised the water surface elevations and floodplain limits from those shown in the current effective Federal Emergency Management Agency (FEMA) Flood Insurance Study (FIS), revised July 6, 1998. The map revisions affected 14 different communities in Los Angeles County.

The study was extensively documented by WEST, and included: Channel Analysis Reports, Floodplain Analysis Reports, Levee Analysis Reports, and completed Application/Certification forms for phased submittals to FEMA. The study required comprehensive and innovative analysis of channel levee breakout flow (split flow), evaluation of side weir flow coefficients, flow return into the river, preparation



*Left overbank protected by the Los Angeles River Levee near Rosecrans Boulevard*

of storage-discharge data in the overbanks, routing channel breakout discharges through the streets and correlation with results from physical model studies done by the Corps' Waterway Experiment Station, and evaluation of the erosion potential of the overbank flows on the levees. Nearly 500,000 residents in the 14 communities will no longer be required to purchase flood insurance.

WEST Consultants is currently completing the second phase of the LACDA project.

### **Project Owner:**

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“

WEST Consultants, Inc. performed the required engineering services in an *outstanding* manner. ...WEST's project staff was technically *competent, professional*, and very *cooperative* ...— Mr. David P. Cozacos, P.E., Project Manager

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