



# Green Infrastructure & Stormwater Management CASE STUDY

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## Echo Park Lake

**Location:** Echo Park Lake. 751 Echo Park Ave., Los Angeles, CA

**Client:** city of Los Angeles, Department of Recreation and parks

**Design Firm(s):** Black and Veach/EDAW (Landscape)

**Landscape architect/Project contact:** Deborah Deets, ASLA, City of LA BOS

**Email:** [deborah.deets@lacity.org](mailto:deborah.deets@lacity.org)

**ASLA Chapter:** Southern California



Photo: LA Prop O website

### Project Specifications

**Project Description:** Regional stormwater total maximum daily load (TMDL). Project to assist in meeting local and regional TMDLs.

**Project Type:**

Open space - park

Part of a redevelopment project

**Design features:** Bioretention facility, rain garden, bioswale, wetlands, aeration, and recirculation.

**This project was designed to meet the following specific requirements or mandates:** MUNI (Municipal water supply) is a LARWQCB beneficial use designation for the project.

**Impervious area managed:** 1 acre to 5 acres

**Amount of existing green space/open space conserved or preserved for managing stormwater on site:** greater than 5 acres. 16 acre lake + park landscape facility (4 acres)

**The regulatory environment and regulator was** supportive of the project.

**Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements?** Yes, this is always considered when applicable.

## Cost & Jobs Analysis

**Estimated Cost of Stormwater Project:** \$50,000-\$100,000 (Public funding: State - Prop O bond)

**Related Information:** Currently in bid and award phase.

**Was a green vs. grey cost analysis performed?** No, not applicable

**Cost impact of conserving green/open space to the overall costs of the site design/development project:** Saved the cost of a 16-acre wetland facility by using an existing park water feature with existing water quality problems. Land costs are well over 3 million per acre in this area.

**Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)?** Significantly reduced costs (10% or greater savings).

**Number of jobs created:** 100

**Job hours devoted to project:**

Planning and Design: 8,000 (estimated)

Construction: TBD

Annual Maintenance: Minor increase from existing

## Performance Measures

### Stormwater reduction performance analysis:

Anticipated following project completion (EPA monitoring program)

**Community & economic benefits that have resulted from the project:** Major festival and events were cancelled over the past 2 years due to problems with water quality in this densely populated urban area. These are expected to be corrected with project. LA Times has reported community benefits of property value increase and jobs in this area during project development, community outreach and EIR phase-- community is highly aware and involved.

## Additional Information

**Links to images:** <http://www.lapropo.org/sitefiles/lariver.htm>

Information available on request. This project is a major Proposition O water quality bond project overseen by the Bureau of Sanitation.