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## Mayfair Park Renovations Allow Irrigation Reuse and Pollutant Treatment

With a change in water quality goals from the EPA for the Los Cerritos Channel Watershed. Lakewood, California required an overhaul on their infrastructure to comply with Total Maximum Daily Loads (TMDLs) of metals, organic pollutants, and more.

Jensen Infrastructure manufactured 343 modular sections and 252 cover and base slabs to install a 180'W x 307'L x 12'H Jensen Detention Reservoir under Mayfair Park in Central Lakewood.

## Project Details

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| Project Owner | **City of Lakewood, California** |
| Architect/Engineer | **Tetra Tech** |
| Contractor | **Sukut Construction** |
| Location | **Lakewood, California** |
| Project Scope | **Jensen Detention Reservoir, Jensen Deflective Separators, Jensen Packaged Pump Station, Jensen Rain Water Harvesting Pump Package and Housing** |

**Questions? Let's talk.** (775) 352-6345 info@jensenprecast.com

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## Problem

Complying with EPA guidelines for TMDLs in the Los Cerritos Watershed and capturing stormwater to treat runoff to use as an irrigation option to reserve drinking water is a big task. The choice to use Mayfair Park by Lakewood allowed for proximity to the Los Cerritos Channel as well as the space required for a large-scale solution.

## Solution

With a layout that can store 4.5 million gallons of water, the Jensen Detention Reservoir that was installed in Lakewood was made up of alternating rows of box culvert and top and bottom concrete slabs which used the culvert as side walls. The idea behind not using box culvert for each channel was to reduce the overall amount of concrete per cubic foot while maximizing the amount of water that Lakewood wanted to retain.

# Key Outcomes

### Decrease Pollutants

Captures dry weather runoff to eliminate metals and other pollutants in the Clark Channel segment during dry weather.

### EPA Compliance

Captures first flush wet weather runoff to reduce pollutant load downstream in compliance with EPA TMDL levels.

### Non-Potable Reuse

Creates non-potable water use in Lakewood for park and open space irrigation.