



# CASE STUDY: DESCANSO GARDENS

*50,000 GPD MEMPAC™ - M50  
La Canada Flintridge, CA*





# DESIGN PARAMETERS

MODEL SUPPLIED: **MEMPAC-M50**

## INFLUENT PARAMETERS

<b>AVERAGE DAILY FLOW</b>	50,000 GPD
<b>BIOCHEMICAL OXYGEN DEMAND</b>	400 MG/L
<b>TOTAL SUSPENDED SOLIDS</b>	350 MG/L
<b>INFLUENT TYPE</b>	MUNICIPAL

## EFFLUENT QUALITY

<b>BIOCHEMICAL OXYGEN DEMAND</b>	< 10 MG/L
<b>TOTAL SUSPENDED SOLIDS</b>	< 10 MG/L

# PROJECT TEAM

## OWNER

### DESCANSO GARDENS

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## OWNERS REP

### JOHN ROBINSON CONSULTING

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## PROJECT DETAILS



# OVERVIEW

With the installation of the MEMPAC-M50 package wastewater treatment plant at Descanso Gardens, a botanical garden north of LA, the Client will be able re-use 100% of the treated wastewater for on-site irrigation needs under Title 22 requirements. Cloacina's scope included providing a MEMPAC-M50 with fully integrated controls including remote monitoring and alarming and integration with existing on-site equipment. A number of upgrades were included on this project: sound attenuation for loud equipment to minimize disturbance to residential neighbors, UV disinfection and tank covers.



For project videos, additional photos and more information, visit [cloacina.com/descansogardens](http://cloacina.com/descansogardens)





# CLOACINA SUPPLIED THE FOLLOWING FOR THIS PROJECT:

**EQUIPMENT:**

Two stainless steel reactor trains with attached equipment skids and a factory integrated UV system

**LIFT STATION:**

Level and pump monitoring and controls integration

**INTEGRATION:**

Level monitoring of non-Cloacina provided tanks

**HEADWORKS:**

2MM rotary brush screen with manual bypass

**SECONDARY TREATMENT:**

Standard Cloacina MLE/MBR with BNR and activated sludge

**CLARIFICATION:**

Duplex UF membranes

**CONTROLS:**

Remote access, alarms and trending data

**SLUDGE HANDLING:**

Cloacina integrated an existing tank into the sludge holding tank and provided aeration and level controls