



LEGOLAND®, Carlsbad CA

LEGOLAND Uses Rain Bird Products to Improve & Simplify Irrigation System Management

LEGOLAND is a 128-acre theme park open to more than 2.5 million visitors a year. Over 60-acres of the park is beautifully landscaped with native and non-native plants that set the stage for the unique themed areas of the park. 90% of the landscaped areas are irrigated with reclaimed water from the City of Carlsbad.

THE CHALLENGE:

Landscape Supervisor, Chris Bruchez is tasked with keeping LEGOLAND's landscape in pristine condition—with only a four-hour window before guests arrive every morning. To further complicate his job, the chemicals in the reclaimed water used for landscaping are damaging the plastic irrigation components, resulting in frequent, costly, and time-consuming maintenance projects.

THE SOLUTION:

Install Rain Bird's PESB-R valve and RD1800 spray to reduce the number of repairs needed due to chemicals in their reclaimed water. The RD1800 is the only spray on the market today that is specifically designed to handle reclaimed and dirty water. To maximize operational efficiency, employ the use of Rain Bird's Central Control system combined with an on-site WS-PRO2 Weather Station.



Rain Bird Products:

- RD1800™ Series Spray Head
- U-Series Nozzles
- PESB-R Series Valves
- Rain Bird® Central Control
- WS-PRO2 Weather Station
- Black Stripe Tubing

KEY OBJECTIVES

- ✓ Prevent Equipment Degradation
- ✓ Conserve Water
- ✓ Increase Operational Efficiency
- ✓ Maximize Budget



APPROACH:

Prioritize Durability

- RD1800 spray heads and PESB-R valves are made with highly durable, chlorine and chemical-resistant materials
- Debris pockets at the base of the RD1800 spray heads trap sand and dirt so that particles do not recirculate and cause damage to the spray
- PESB-R valves feature a self-cleaning scrubber to clean the filter and keep the pilot flow clear of debris

Be Water-Wise

- RD1800 spray heads and PESB-R valves allow LEGOLAND to continue utilizing reclaimed water for landscaping
- Flow-Shield™ Technology reduces water loss by 90% during system maintenance and delivers a low-flow service indication stream when a nozzle is removed

Embrace Automation

- WS-PRO2 Weather Station relays daily weather data to the central control system to automatically update watering schedules
- Central Control allows for simplified management of watering schedules, system flow, and alerts, all from one central location

RESULTS:

A lush landscape enjoyed by visitors and reduced operating costs enjoyed by park management!

“ The only way we could manage the park is through the computer. We focus on any alarms in the morning, so we solve any problems in the park quickly. And, the weather station ensures that we never under or over-water based on the current conditions. Plus, since we have changed out the valves [to the PESB-R], we haven't had to replace a valve diaphragm because it has been eaten away. Before the PESB-R we were changing out a diaphragm every month.

CHRIS BRUCHEZ
LEGOLAND® LANDSCAPE SUPERVISOR

