

# SCRIPPS INSTITUTION OF OCEANOGRAPHY (SIO), STORMWATER WATER POLLUTION CONTROL PLAN LA JOLLA, CALIFORNIA



**Client**  
University of California,  
San Diego (UCSD)

**Services**  
Surveying  
Civil Engineering

**Construction Cost**  
\$1.6 Million

**Completion Date**  
2007- 2010

**Key Personnel**  
Steven D. Nasland, PE;  
Principal-In-Charge  
Greg Kump, PE;  
Project Manager

### Project Summary

Nasland Engineering provided services for eight stormwater and wastewater management projects for the UCSD GRANT program. The projects included: Director’s Office Storm Drain and Media Filters; Pier Area Media Filters and Drainage Upgrades; Hubbs Hall Low Flow Diversion; Seaside Forum; Storm Drain and Media Filter; and Wash Racks (Birch Aquarium, Hydraulics Laboratory, Pier, and Keck Center). The purpose of the GRANT program was to implement Best Management Practices (BMP’s) that included: pollution prevention measures; treatment controls; dry weather flow diversion; site controls to eliminate non-storm water discharges; reduce the loading of pollutants of concern; improve the water quality; and protect valuable ocean resources.

Nasland’s scope included the design of four wash stations, three diversion structures, various storm pipes ranging in size from 2” to 18”, a small wastewater pump station, and other surface modification to help accomplish these goals set out by UCSD. The four wash stations were designed to be discharged to storm drain during non-operation and to the sewer when vehicles, boats, or other apparatuses are being washed. The diversion structures are designed to help to try to eliminate the dry weather flow (i.e. sprinklers overwatering and breaks). This was accomplished with a weir acting as a diversion for the low flows into a small diameter pipe which will be routed into an earthen swale for evaporation and percolation. When the higher flows occur the discharge will be able to cross the weir and discharge to a larger outlet pipe which will be routed out through the seawall. The small wastewater pump station was designed to discharge an existing sink and shower into the sanitary sewer system instead of the ocean outfall.

### Awards & Recognition

- 2012 “Small Firm Merit Award” - ACEC California 2012 Engineering Excellence Award
- 2011 “Project of the Year” - American Public Works Association
- 2010 “Outstanding Project” - American Society of Civil Engineers

