Rentunder

Rentunder invented the Drive-in Boatwash technology to offer a quicker and environmentally friendly alternative to in-water hull cleaning.

PILOT PROJECT

In 2017, Rentunder partnered with the Port of San Diego to demonstrate whether the Boatwash technology is a feasible alternative to current in-water hull cleaning practices in San Diego Bay. Rentunder is the manufacturer, seller and distributor of the Drive-in Boatwash technology. Rentunder is led by a team of hydraulic experts and engineers from Sweden.

The Drive-in Boatwash consists of driving a boat (sailboat or motor-boat up to 53 feet) into an enclosed basin, then mechanically brushing the boat hull. The entire cleaning process is conducted within the enclosed basin of the Boatwash, which is designed to retain residual debris and particulate matter to assist in reducing copper released into bays and harbors. During the two-year pilot project, a water quality study was developed to assess water quality during cleaning events and to determine potential operation adjustments.

HIGHLIGHTS

This pilot project represented the first installation of the drive-in Boatwash technology along the US West coast. The pilot allowed for testing of the Boatwash effectiveness to reduce copper inputs into the Bay from hull cleaning operations.

CURRENT STATUS

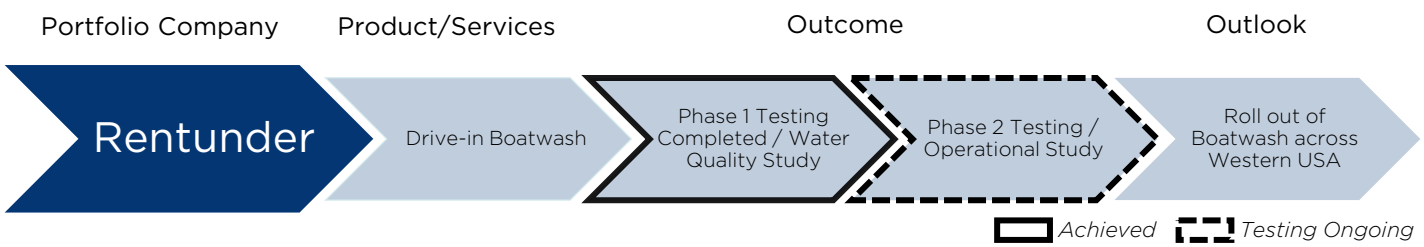
In support of the pilot, the Port provided funding, permitting, and environmental review as well as access to Port-controlled land in San Diego Bay to establish the Boatwash. To date, the pilot included the installation of the Boatwash, the establishment of a water quality monitoring study in collaboration with key stakeholders, and the coordination of four controlled cleaning events.

Scorecard: Rentunder / FY21-22

PILOT TIMELINE: Board Approval: 06/20/2017 Start Date: 07/17/2018 End Date: TBD

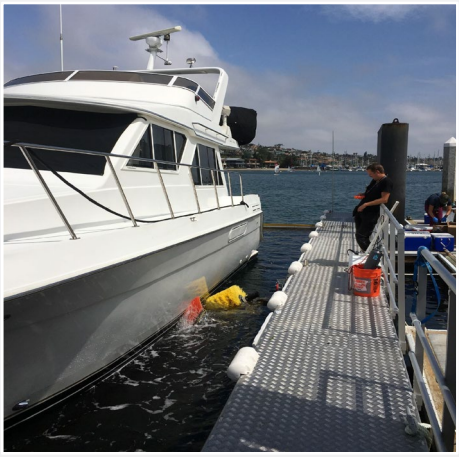
PILOT OVERVIEW

Tracking progress from pilot project to commercial success



KEY PERFORMANCE INDICATORS & HIGHLIGHTS

OVERALL KPI	Rate of customer acquisition & total #	# boaters that stop painting their boats using copper	# of boats washed monthly	Amount of dissolved copper collected from basin	Water quality in and around basin	Effectiveness of cleaning operations
FY21-22 Highlights	**PHASE 2** / Results from Phase 1 were used to prepare recommendations for Phase 2 - to continue evaluating the use of the Boatwash as a potential alternative to in-water hull cleaning practices. There are five main recommendations for Boatwash operations during Phase 2 which include using only non-copper antifouling paints (NC-AFP) as allowable paint types considered for vessels to be cleaned by mechanical brushes inside the Boatwash basin. Start of Phase 2 operations is anticipated for Spring 2023 at a new location.					
FY20-21 Highlights	**PHASE 1 Completed and Report Finalized** / During Phase 1, Rentunder installed the Boatwash (May 2018), coordinated three controlled cleaning events and concurrent water quality sampling (July 2018 – March 2019), as well as a 'Dome Study' to evaluate in-situ release of copper from boat hulls under different cleaning scenarios (Dec 2018-Jan 2019). The Boatwash was not open to the public during this initial phase of testing.					



> For comparison purposes, during the second cleaning event, boats were cleaned inside the Boatwash basin by a diver using standard in-water hull cleaning best management practices (BMPs).