

Case Study

Industrial Site Run-Off Management using Safe Sox[®]

Project Manager: City and County Honolulu

The City and County of Honolulu operates a works depot at Waimanalo for recycling and waste management services where a fleet of garbage trucks are garaged and maintained. The depot is adjacent to native bushland and streams and the City wishes to protect these adjacent areas from any run-off from the works depot. The site receives significant rainfall as well as run-off from wash down activities.

To ensure no run-off leaves the site The City and County of Honolulu installed Safe Sox[®] to capture and treat the site run-off. Once any run-off has passed through the Safe Sox[®] the treated run-off can then be safely discharged into the surrounding environment. The Safe Sox[®] were positioned in areas most vulnerable to discharge and were monitored following significant rainfall events.

Results and Findings

The Safe Sox[®] were inspected one month after installation and following a number of significant rainfall events. It was apparent the Safe Sox[®] had captured a substantial amount of silt and run-off that contains a range of pollutants including nutrients, hydrocarbon and heavy metals. An inspection of the inside of the Safe Sox[®] also exhibited sediments being filtered out of the run-off.

