



PROJECT > St. Thomas U.S. Virgin Islands Pipeline Protection

SlingBag®, 60 lb 3-1 (Sand-Cement) Burlap Bags
St. Thomas, Virgin Islands, U.S.



PROJECT DESCRIPTION:

The Problem: An existing underwater intake pipe, designed to feed the HVAC chillers to a luxury resort in St. Thomas, U.S. Virgin Islands, shifted following their original installation after Tropical Storm Isaac in 2012. Many engineered solutions were attempted, but failed. A permanent solution was necessary for the sake of safety and preservation the coral habitat.

The Solution: Logan Diving & Salvage stabilized the 300-foot seawater intake pipe utilizing 170 SlingBag®. In effort to preserve the coral landscape and in cooperation with local and state governing authorities, Logan Diving & Salvage embarked in a four week, multi-step process utilizing SlingBag®. The burlap bags were used to surround and stabilize the pipe from future movement. Epoxy-coated #4 rebar were driven through the burlap bags to ensure bond and to lock the entire system to the sea floor. This permanent solution ultimately stabilized the intake pipe. Following the project completion, water quality samples affirmed that the SlingBag® installation preserved the ecological requirements for the job and turbidity requirements were met.

“During the past 70 years, we’ve installed, maintained and repaired more than 800 underwater oil, gas, liquefied natural gas and water pipelines across the U.S. and Caribbean using the industry standard cement bag method repair,” said Scott C. Anderson, president of Logan Diving & Salvage. “In my experience, the SlingBag® system is by far the best, fastest, safest and cleanest method for addressing underwater pipeline requirements. It consistently delivers consolidated, uniform and easy to handle materials for all of our pipeline underwater stabilization, immobilization and protection needs.”

SlingBag® contains 56 each 60 lb Burlap Bags 3-1 (Sand-Cement), Revetment or Pure Sand, as required. The 3-1 material content in this SlingBag® application is a high strength, 4000 PSI blend of sand and cement, packaged in a heavy duty environmentally friendly biodegradable 10 oz juke (burlap) bag. The burlap bags will bond together as one unit. The bags are harmless to wildlife and there is no chemical print on the bags. The burlaps require no punching holes in the bags for reinforcement. Once hardened, the environmentally friendly biodegradable juke (burlap) bags give the appearance of a natural stone. The sand cement blend is formulated to harden in or out of water after initial placement.

SlingBag® PRODUCTS USED:

- 170 SlingBag® (No. NR83999)
- 60 lb 3-1 (Sand -Cement) Burlap Bags (9,520 bags)

MANUFACTURING LOCATION:

The QUIKRETE® Companies, Miami, FL “MIA” location.

CONTRACTOR: Logan Davis & Savage

PROJECT COMPLETION DATE:

May 2016

