

SLINGBAG®



Logan Diving & Salvage Protects Underwater Habitat Using SlingBag® for Stabilization Project



ST. THOMAS, U.S. VIRGIN ISLANDS (May 19, 2016) – A luxury resort on the south shore of St. Thomas in the U.S. Virgin Islands recently stabilized a 300-foot long seawater intake pipeline using **SLINGBAG®** from QUIKRETE® placed by Logan Diving & Salvage. Designed to feed the HVAC chillers on the resort, the existing underwater intake pipeline was less stable than expected when originally installed, and became a potential hazard to the natural habitat. To stabilize the intake pipeline Logan Diving & Salvage used the **SLINGBAG** system to place over 9,520 - 60 lb burlap bags containing a 3-1 (Sand-Cement) mix. Considering each **SLINGBAG** holds 56 burlap bags, a total of 170 **SLINGBAGS** were used by Logan's team to complete the entire project with maximum efficiency.



*"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. 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."*

-Scott C. Anderson, President, Logan Diving & Salvage

Following Tropical Storm Isaac in 2012, which moved the intake line enough to cause damage to surrounding coral, stabilization efforts were undertaken to include placing weights anchored by Kevlar lines and metal cables on top of the intake pipe. These techniques not only failed to prevent the intake pipeline from shifting during inclement weather, heavy seas and fast currents, but placed the surrounding coral at greater risk. In a multi-step process that was completed in less than four weeks, Logan Diving & Salvage permanently stabilized the intake pipeline with the patented **SLINGBAG** system to ensure that seawater reached the resort's HVAC chiller without being a detriment to the underwater environment.

Logan Diving secured all permitting by providing an engineered plan that was inclusive of all environmental concerns. The coral within the stabilization footprint was relocated underwater for safe keeping until project completion. The pipe was then secured with **SLINGBAG** burlap bags filled with a blend of hydraulic cement and sand designed to achieve 4,000 PSI underwater. The burlap is a heavy duty, environmentally friendly biodegradable 10 oz fabric that is harmless to wildlife and there is no chemical print on the bags. During installation epoxy-coated #4 rebar was driven through the strategically positioned burlap bags to strengthen the bond between each bag; and secure them to the sea floor.

When the pipe was completely secured and stabilized, the coral was safely transplanted and markers were placed along the intake pipeline. The project was an environmental success in that at no time during the installation were permitted turbidity requirements exceeded. The underwater intake pipeline is now stabilized, supported and protected from movement caused by coastal ocean currents and wave action during elevated sea events.

The **SLINGBAG** solution is widely used across North America for underwater stabilization, installing running-bond retaining walls and erosion control around culverts, ditches, lakes and canals. The patented system includes a heavy duty, woven polypropylene tote with four high-strength polyester lifting loops that hold the 56 individual bags of specially graded Revetment or Pure Sand, as well as an engineered 3-1 Sand-Cement blend. The **SLINGBAG** process is designed to efficiently and safely store, transport and strategically place the 60 lb bags five times faster and more profitably compared to conventional methods—EVERY TIME!

For more information on the **SLINGBAG** system please visit www.slingbag.net or contact Dickie Daigle at 985-665-2530 (ddaigle@quikrete.com) or Tim Grazier at 985-227-5373 (tgrazier@quikrete.com).

Available throughout North America
Contact us at:

Dickie Daigle

985.665.2530 · ddaigle@quikrete.com

Tim Grazier

985.227.5373 · tgrazier@quikrete.com

WWW.SLINGBAG.NET

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