

Dow Chemical Mississippi River Outfall Repair

Plaquemine, Louisiana

**SHOREJAX® /SHORETEC®
OUTFALL REPAIR**

PROJECT TEAM

OWNER:

Dow Chemical
Plaquemine, LA

ENGINEER:

Giddings Engineering, INC.

CONTRACTOR:

Kostmayer Construction

SUPPLIER:

Premier Concrete Products, Inc.

TECHNICAL DESCRIPTION:

Product: Articulating Concrete Mats
Shoreblock SD 900
40,000 SF

Product: ShoreJax® Units
Qty: 512
Unit Weight: 700 lbs.

Installation Date: Oct. 2016



PROJECT DESCRIPTION:

Located in Plaquemine, Louisiana, Dow Chemical is one of the largest petrochemical facilities in the state. The 3,000 acre site produces more than 50 different chemical products. The majority of the facilities on-site are water cooled. Dow utilizes its Mississippi River location to circulate water from the river into the facilities and back out to the river via a single outfall on the river's banks.

PROBLEM:

The outfall is the solitary exit point into the river for the 3,000 acre facility. This funneling of massive amounts of water through a single outfall has caused the river banks adjacent to the outfall to erode away in a significant fashion. Dow Chemical needed a permanent fix for the river bank erosion problem created by the outfall.

SOLUTION:

The design engineer selected **ShoreBlock 9"** closed cell block and 48" **ShoreJax®** units to permanently protect the rebuilt river bank from eroding away. The **ShoreBlock 9"** closed cell block were used to line and cover the newly established river bank. The 48" **ShoreJax®** units were used to protect the leading edges of the mats and to dissipate the hydraulic energy that was coming from the outfall into the river.

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CASE STUDY