



Lake Kittamaqundi Dredging

COLUMBIA, MARYLAND

Lake Kittamaqundi is a man-made 27-acre reservoir created in 1966 during the development of the Columbia Housing complex. In fall 2010, dredging began, focused on restoring the lake to original depths, reinforcing the banks, and creating two new peninsulas to enhance water flow.

PROJECT HIGHLIGHTS

- Cashman dredged ~48,000 cubic yards (CY) of sand, silt, and stone from the lake to a specified depth using a hydraulic dredge as a part of an overall environmental restoration.
- The firm dredged and pumped ~8,000 CY of material into geotextile tubes to create ~1.28 acres of wetland habitat within the lake and ~.4 acres of upland peninsula to reshape the lake.
- The 40,000 CY of dredged material was pumped 4,000 feet to an upland processing area where it was dewatered using a combination of hydrocyclone separators and geotextile tubes.
- Filtered return water was pumped to the lake for discharge, meeting specified water quality limits established by the Maryland Dept. of the Environment and USACE.
- Dewatered sediment was characterized and beneficially reused in a mine reclamation project.
- Installed ~295 linear feet of imbricated rip-rap along the Little Patuxent River to stabilize the area and reduce overflow between the river and lake.

Location:	Columbia, MD
Contractor:	Cashman Dredging and Marine Contracting Co., LLC
Contract Dates:	Jul. 2010 – Dec. 2011
Dollar Value:	\$5.5 Million
Awarding Authority / Owner:	The Columbia Association
Project Engineers / Managers:	HDR Engineering, Inc.

