

PROJECT DESCRIPTION

Cattaraugus Creek Stream Bank Restoration



Location:
Town of
Sardinia, New
York

Client:
Gernatt
Asphalt
Products, Inc.

**Client
Contact:**
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Stream Bank Restoration at Gernatt's Chaffee Facility,

McMahon & Mann Consulting Engineers, P.C. (MMCE) worked with Gernatt Asphalt Products Inc. and the New York State Department of Environmental Conservation to develop and implement a streambank restoration plan along Cattaraugus Creek in the Town of Sardinia. Approximately 400 feet of the stream bank along Gernatt's Chaffee Facility required reguarding and restoration to protect it from the erosive forces of Cattaraugus Creek.

MMCE studied the fluvial geomorphology of Cattaraugus Creek and conducted hydrologic studies to evaluate the elevation and erosive nature of various storm events. Using this information, MMCE worked closely with NYSDEC engineers and scientists to develop a streambank restoration plan that protects the bank from erosion while restoring riparian habitat. The design features heavy stone fill at the toe and buried stone keyways at each end to protect the lower slope from scour during channel forming flows. The upper slope is vegetated with plantings of redosier dogwood and sandbar willow trees that will restore habitat along the creek.