

KALAMAZOO VALLEY COMMUNITY COLLEGE STORMWATER CONTROL MEASURES

A Clean Water Act Section 319 Grant from the Michigan Department of Environmental Quality (MDEQ) provided \$369,238 funding toward a stormwater treatment project at Kalamazoo Valley Community College (KVCC) to eliminate stormwater runoff associated with a single, remaining untreated outfall to the west fork of Portage Creek. The primary objective of this project was removing excess nutrients and sediments from NPS runoff by capturing and infiltrating stormwater that otherwise discharged directly to WFPC. One of the voluntary action items KVCC identified in their stormwater pollution prevention initiative is the elimination of all stormwater discharges to the west fork of Portage Creek (WFPC). As a permitted MS4, KVCC falls within the nonpoint source (NPS) load allocation of the phosphorus TMDL developed for the Kalamazoo River and Lake Allegan. KVCC contributed cash match to this grant project with \$105,103 of capital improvement funds.



permit applications, competitive contractor bids, and construction oversight assistance.

Project benefits included:

- Stormwater treatment = 92 acre-feet/year
- Sediment forebay = 0.7 acres
- Detention/infiltration ponds = 3.3 acres
- Native seeding/vegetation = 4 acres
- Supplemental vegetation = 6,000 native plants
- Photodegradable erosion controls = 4 acres
- Temporary fencing to protect new vegetation
- Educational signage to describe BMP approaches and benefits (see photo on left)
- Educational curriculum development
- Reduction of 87 lbs. total phosphorus/year
- Reduction of 14.4 tons sediment/year
- Substantial progress toward MS4 TMDL phosphorus reduction goals

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Project Costs:

\$40,500 (K&A)
\$369,238 (Total Grant)

Project Duration:

2011-2013



The efforts associated with this implementation grant were guided by the Portage-Arcadia Creeks Steering Committee. Kieser & Associates, LLC (K&A) provided technical support through preliminary design, engineering plans and specifications, owner meetings and approvals, MDEQ engineering review submittals, MDEQ