DEQ Michigan's Nonpoint Source Program

MDEQ
319 Grant
Tracking Code #2014-0018

KalamazooVALLEY ™ community college

KIESER&ASSOCIATES ENVIRONMENTAL SCIENCE & ENGINEERING

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KVCC TMDL Compliance Project
Oct 2014 through Dec 2016

This MDEQ Clean Water Act Section 319 Grant (319 Grant), awarded to KVCC, funded TMDL compliance efforts within the Kalamazoo River Watershed for stormwater upgrades at the KVCC Texas Township Campus. The project was designed to treat stormwater runoff from high intensity urban development associated with approximately 31 acres of campus that frequently discharged to West Fork Portage Creek (WFPC) due to undersized existing treatment technology. Stormwater carries pollutants and sediments to the headwater of WFPC and ultimately to the Kalamazoo River, which is under a phosphorus TMDL. The project's goal was to effectively eliminate remaining surface water discharge from the campus to WFPC by upgrading two existing best management practices to retain and/or infiltrate storm water.
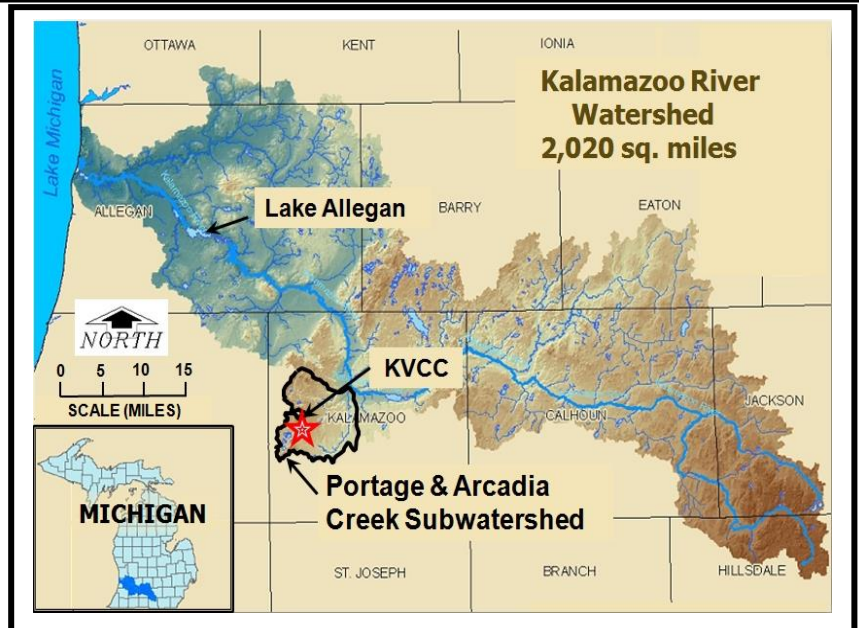
The major objectives of this project were to design two existing storm water detention ponds to intercept, retain and treat storm water from a 25-year storm event, minimally. This objective is part of a sustainable campus vision for KVCC and was the last remaining piece to become the second MS4 permit holder within the Kalamazoo River Watershed to attain TMDL compliance and become Stormwater Neutral®, verified by Kieser & Associates.

Grant Amount: $ 207,000.00
Match Funds: $ 70,822.52

Total Amount: $ 277,822.52

Pollutants Reduced:
- 5.7 tons of Sediment removed
- 28 pounds of Phosphorus removed
- 389 pounds of Nitrogen removed
- Min. 25-yr. storm fully retained

Kalamazoo River Watershed 2,020 sq. miles

Lake Allegan

KVCC

Portage & Arcadia Creek Subwatershed

MICHIGAN

SCALE (MILES) 0 5 10 15

NORTH

I&E Activities:
- MWEA 2015 Annual Conference June 2015
- *Kalamazoo Stormwater Work Group*
- *KVCC Educational Curriculum*

Partners involved:
- Kalamazoo Valley Community College
- Hoffman Brothers
- MDEQ
- Kieser & Associates, LLC

Photos:
KVCC TMDL
Compliance Project

During Construction

During Construction

Student Tree Planting

Post-Construction