# Plaster Creek Stewards Spring event 2011



A collaboration of community partners, churches, and Calvin College faculty and staff working to restore health and beauty to the Plaster Creek Watershed.

# Quick outline: Profile of a humandominated watershed

New organizational developments

What's wrong with the watershed?

 Engaging the whole watershed—upper and lower

# New developments

- Multi-year organizational plan
- Hired a full-time project manager



# Three-part approach

#### Research

- Which areas of the watershed should we prioritize?
- Which problems occur in which areas? Which restoration activities are appropriate in which areas?
- Monitoring
- Historical research
- Integrated with the biology department course curriculum and faculty research.

#### Education and Outreach

- Spring and fall events—education and volunteer components
- Summer workshops
- Partnerships among churches, environmental organizations, go Christ Church businesses... (WMEAC, DEQ, Friends of Grand Rapids Parks, Gr Church of the Department, KCD, Pioneer Construction...)

Roosevelt Park CRC
Woodlawn CRC
Alger Park CRC
Madison CRC
Christ Church
Church of the Servant

### On-the-ground restoration work

Hydrology & habitats







# What's wrong with Plaster Creek?



# "Designated uses" of Plaster Creek

Use	Status
Indigenous aquatic life/wildlife habitat	Impaired
Warm water fishery	Impaired
Partial body contact recreation	Threatened
Total body contact recreation	Impaired
Agriculture (irrigation)	met

Source: Plaster Creek Watershed Management Plan. Fishbeck, Thompson, Carr, &

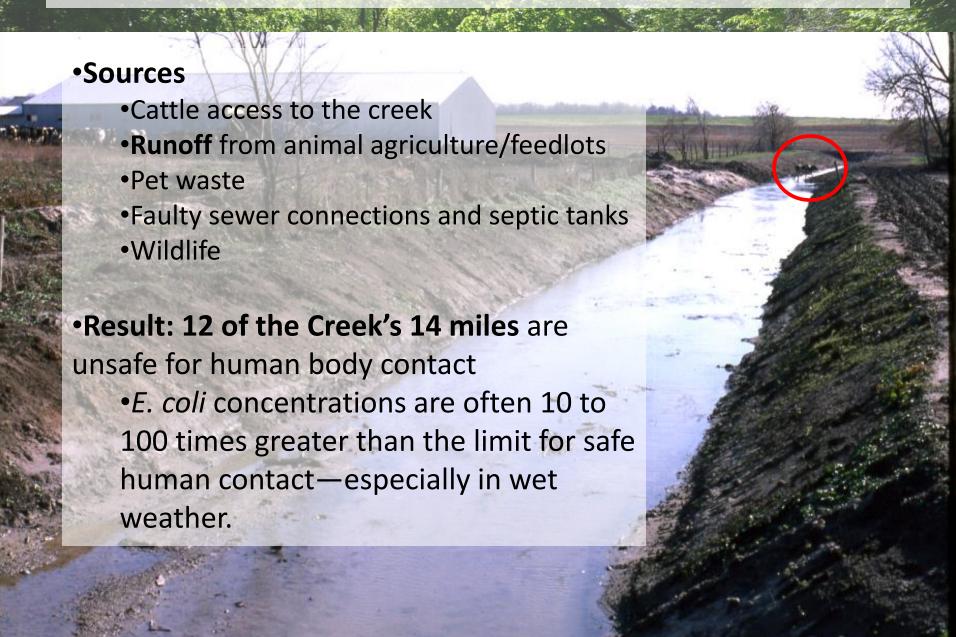
Huber, Inc. 2008

An environmental issue and a social justice issue

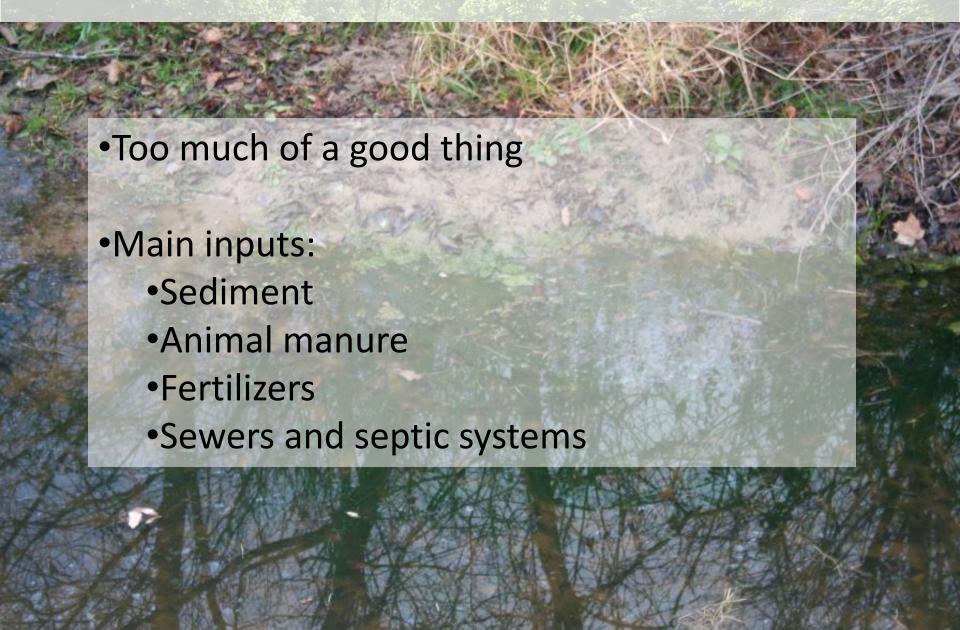


- E. coli contamination
- Nutrient pollution
- Thermal pollution
- Toxic substances
- Sediment

### E. coli



# Nutrient pollution

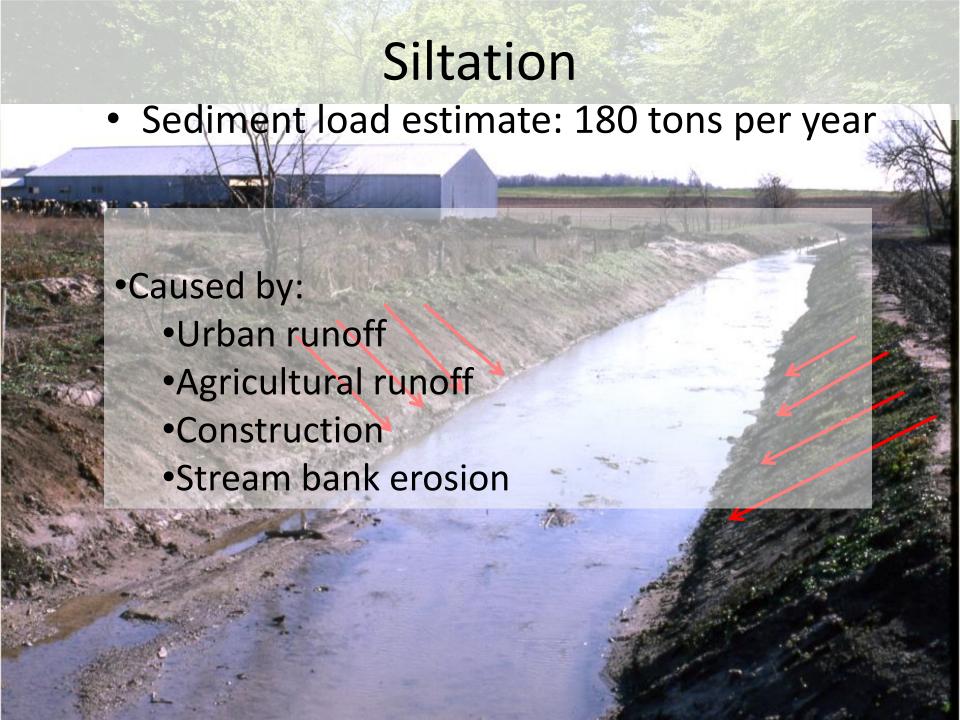






### Toxic substances



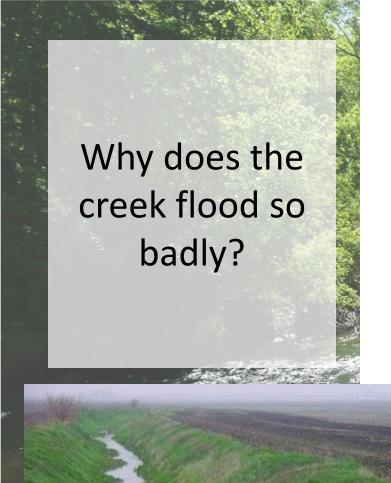


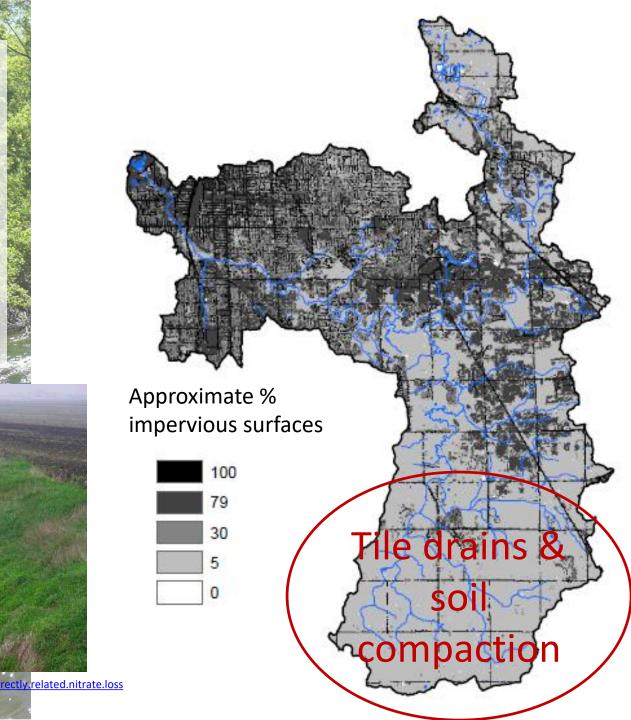


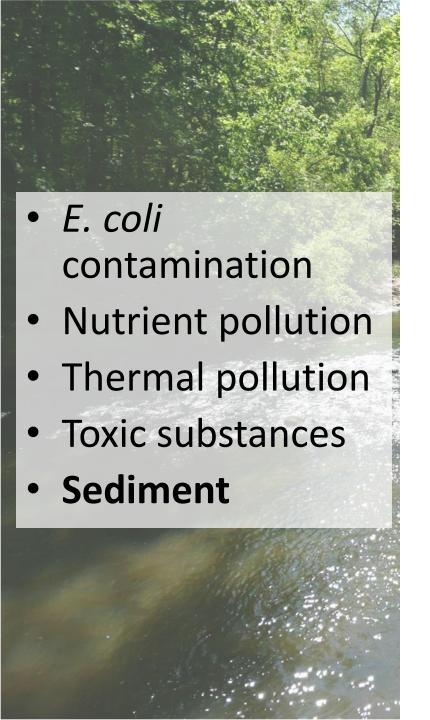


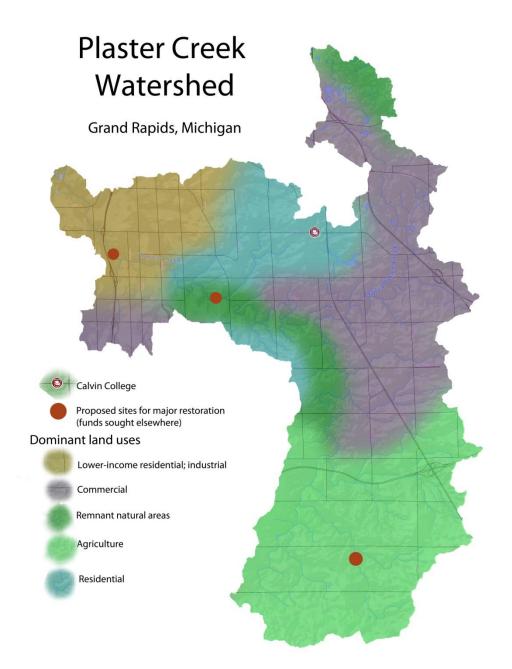






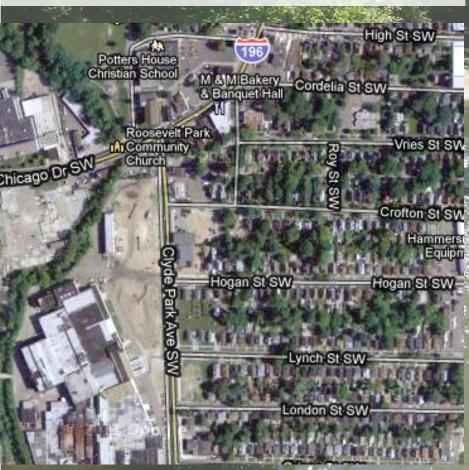






# Two work opportunities

Native stream-side planting at Roosevelt Park



Garlic mustard pull at Ken-O-Sha park

