

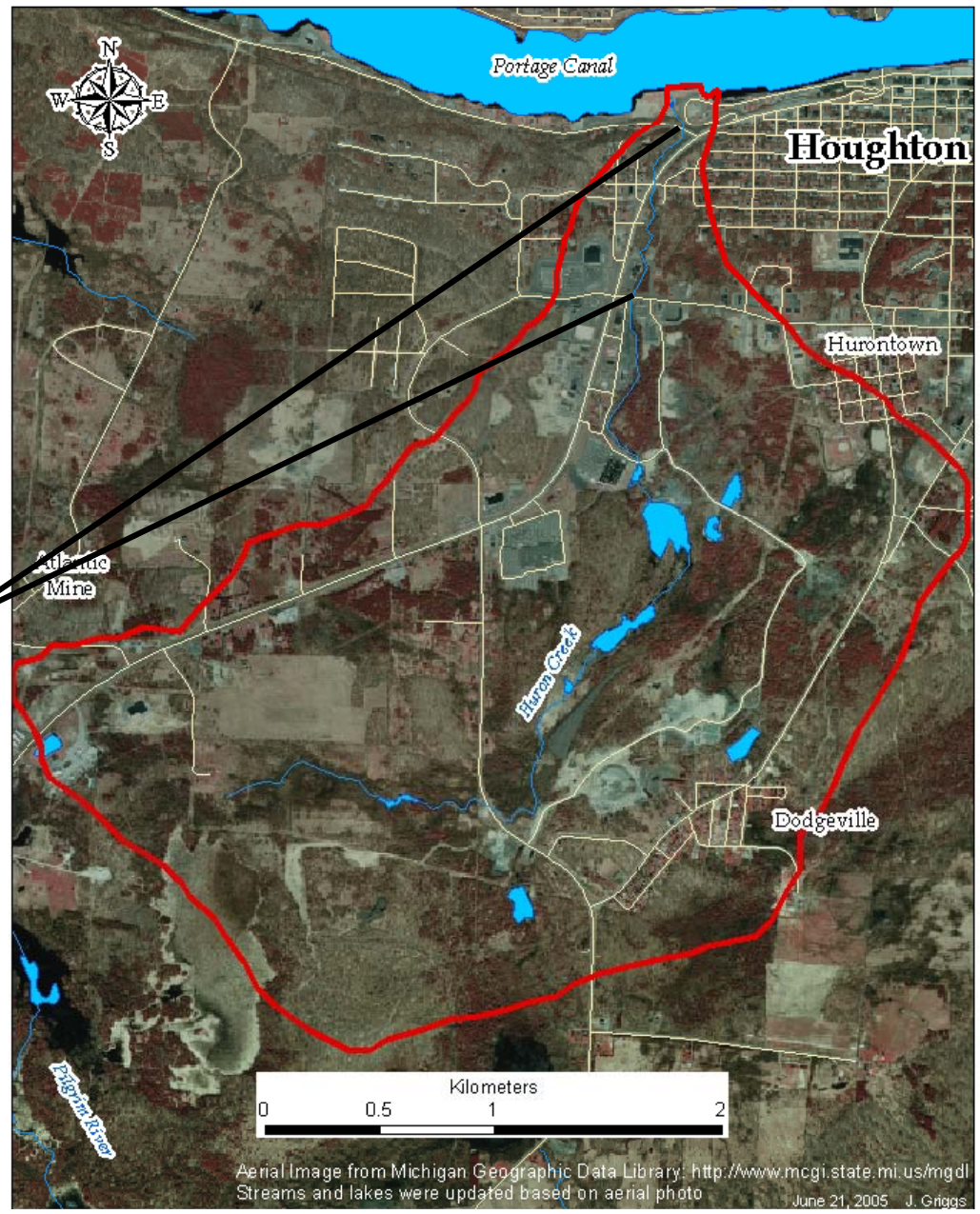
News

- Stream assessment 8/26/06.
- Landfill leachate collection system construction begins 8/31/06
- MDEQ Watershed Management Plan Grant Awarded!
- Michigan Tech students begin Senior Design Project.



“State of the Stream Segment”

Canal Road to Sharon Avenue



Prepared by Alex Mayer, 9/11/06

Desired attributes

- visually attractive
- habitat for a healthy ecosystem
- opportunities for human interactions
- water quality
- community education

Canal Road to M-26 underpass





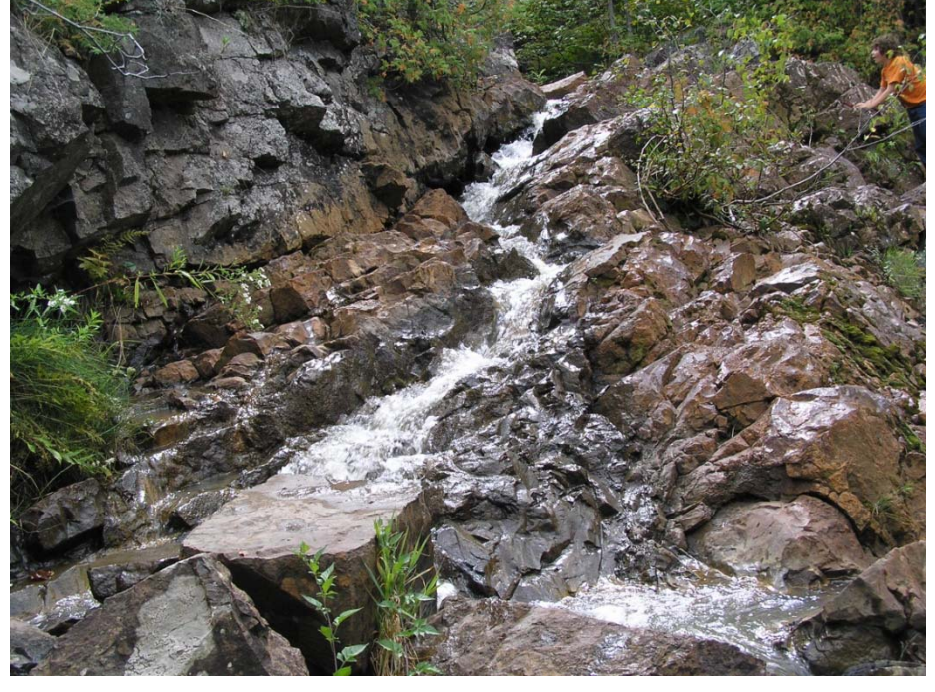
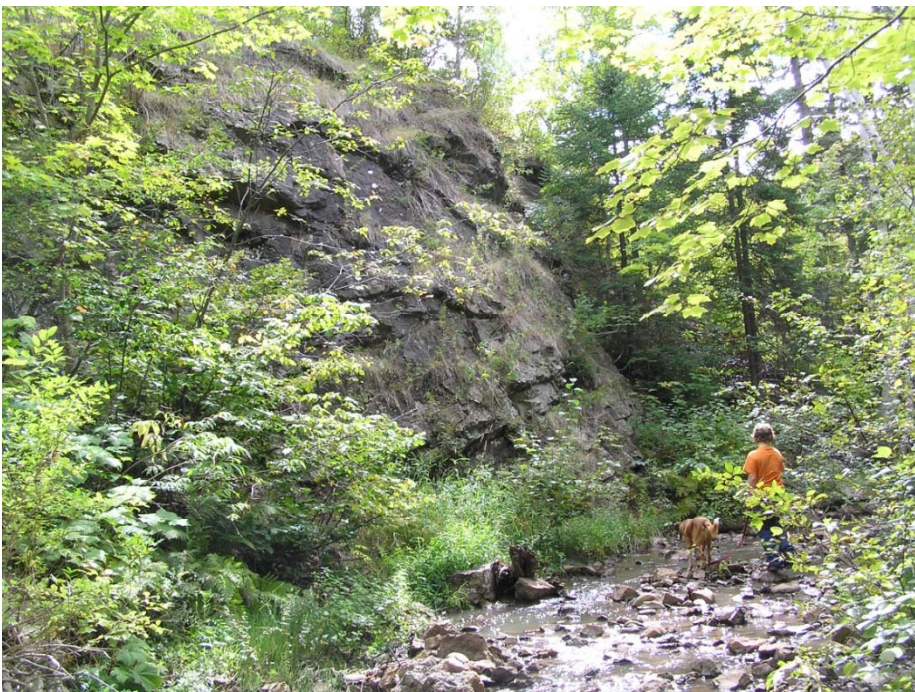






M-26 underpass
to Sharon Ave.













Water Quality: Potential Concerns

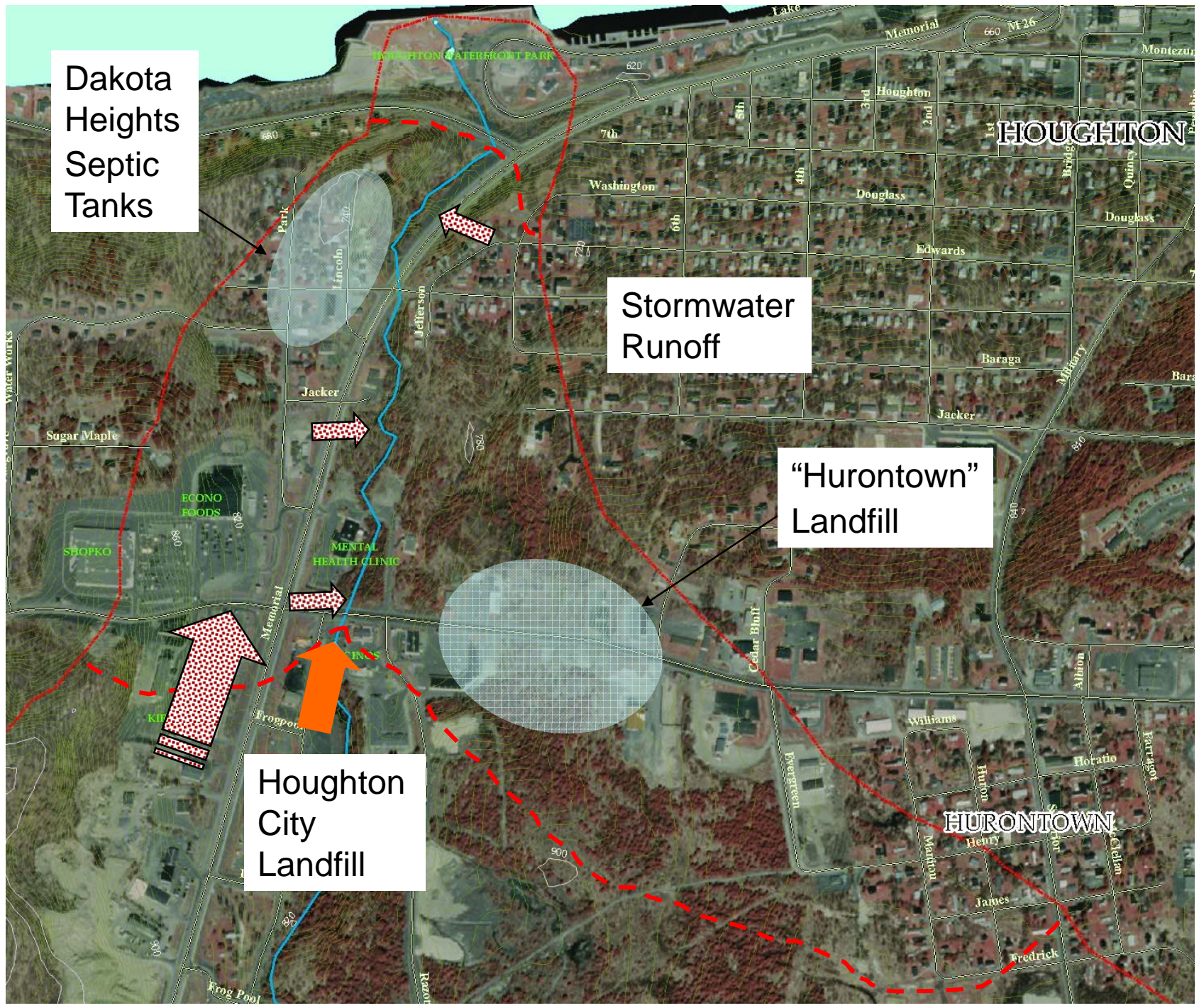
- Septic tanks in Dakota Heights
- “Hurontown Landfill”
- Sediment from stormwater drains and from upstream
- Iron and manganese (and other chemicals) from upstream

Dakota Heights
Septic Tanks

Stormwater
Runoff

“Hurontown”
Landfill

Houghton
City
Landfill



Water Quality: Septic Tanks

- Homes in Dakota Heights are on septic systems.
- Some of these tanks may be failing.
- Potential concerns are pathogens and nitrates
- But, water quality sampling at Houghton Waterfront Park thus far has not indicated excessive levels of coliforms or nitrates.*

*source: MTU Senior Design group, 2005-6

Water Quality: "Hurontown Dump"

Mini-mall being built on Hurontown dump site

By Garrett Neese
Gazette Writer

HOUGHTON — Developers are building a new mini-mall on the site of the former Hurontown dump.

The Sharon Avenue Mall will be located between the Copper Country Mental Health building and Superior Lube.

The facility, which is being built by MJO Contracting Inc., is slotted to take up 18,300 square feet. A site plan submitted by Hitch Inc. divided the work into two parts — an initial five-unit phase of 7,715 square feet and an additional seven units totaling 10,592 square feet.

Paul Eck, manager of the site, said construction will likely be completed sometime in the fall.

The owner of the property in Ken Armstrong, who will be moving here from San Bruno, Calif.

"He just wanted to get something started and have something here when he moved here," Eck said.

Houghton City Manager Scott MacInnes said the dump had probably last been used in the late 1960s.

"Everything was burned in that dump. The only thing that was buried there was metal," he said.

In one instance, workers at

the site pulled up a large piece of scrap metal which they could not identify.

"The mine inspector came down and said it was just a retaining wall from (Michigan) Tech (University)," Eck said.

Eck said he had already the space.

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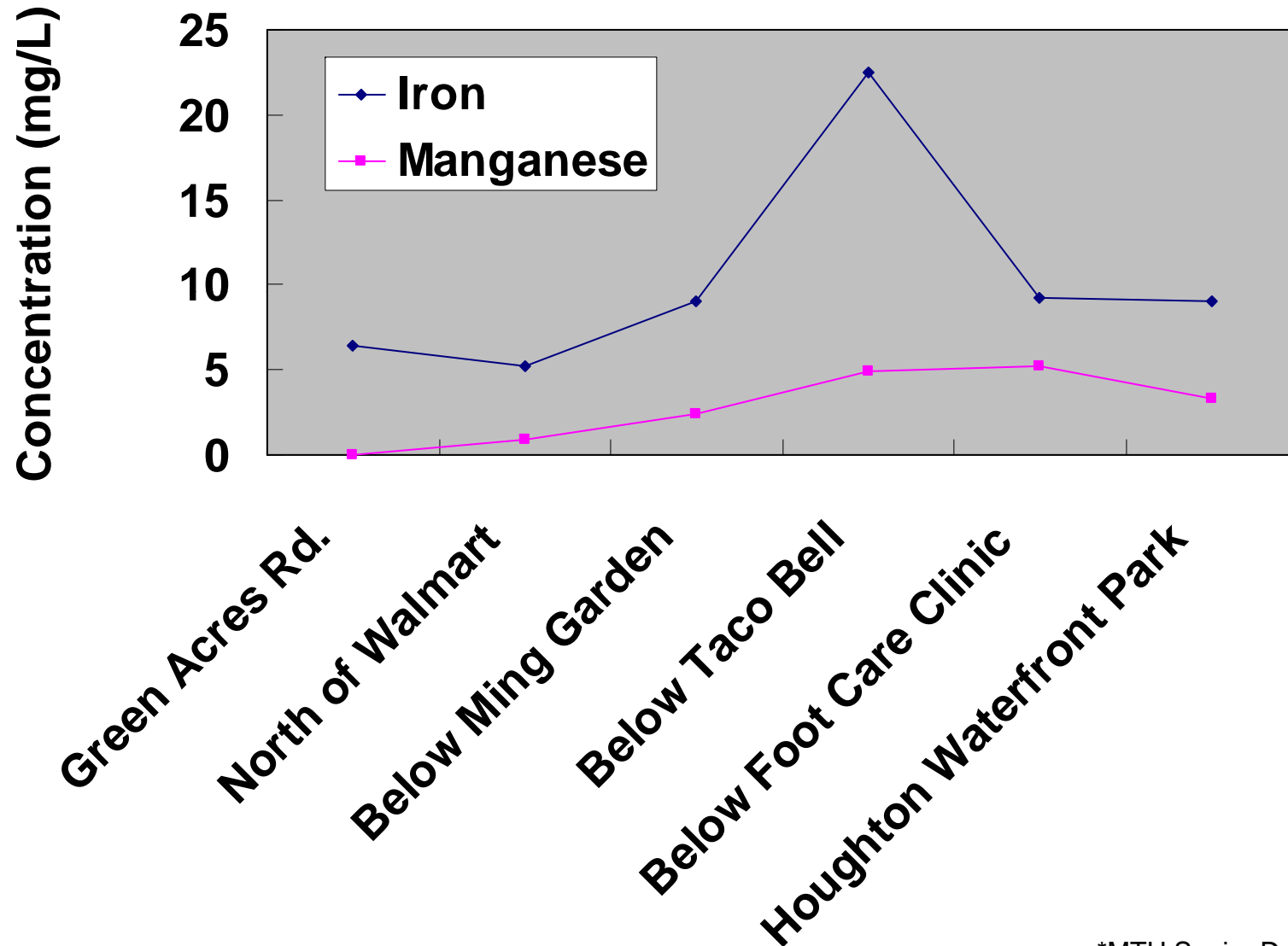


Daily Mining Gazette @Houghton 5/21/05

Sediment from Stormwater Runoff

- Significant accumulation of sediments are found in at least two areas where the stream slope is low.
- Stormwater enters the stream segment from upstream and from drainage pipes at various points.
- Some of the drainage pipes likely bring runoff from outside the stream segment drainage area.

Water Quality: Iron and Manganese*



Vision Statement

For guiding the Watershed Management Plan

- We desire a watershed and stream that . . .
 - is visually attractive, can be seen wherever possible, and includes a stream-side vegetation buffer that is visible on the landscape;
 - provides habitat for a healthy ecosystem within an urban setting;
 - provides opportunities for human interactions with the stream ecosystem, with the Houghton Waterfront park and the former Huron Lake being prime sites for interaction;
 - has water quality that is consistent with the previous three goals;
 - provides opportunities for community education (including schools, business owners, and the public in general) on the importance of healthy watersheds and in the historical uses of this particular watershed, with interpretive signs at sites of interaction being one possible form of education.