2 Boyden Creek at Delhi Road

Adopt-a-Stream Site Report

— Updated January 2020 —

Huron River Watershed Council

Site Condition: GOOD

There are many kinds of bugs at this site, especially for such a small watershed, and several of them are sensitive. The water is clean and cool and the stream banks are healthy. Although the habitat is limited by some sand in the swift flowing areas (riffles), the stream clearly has good habitat quality since it supports a rich variety of aquatic life.

Photo credit: *Dick Chase*

Sampling Experience

Site Access: MEDIUM

Park on the side of the road. Private property that we access with permission. Very short distance to site

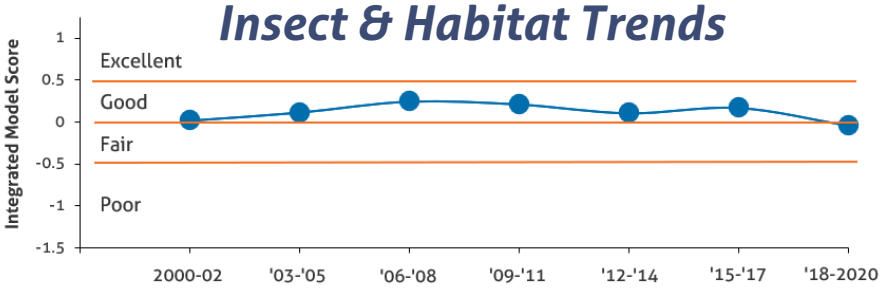
Team Operations: HARD

Wet ground. Lacking decent team picking area.

Collection: EASY

Easy sampling under most conditions.

Insect & Habitat Trends



Monitoring Data

		2000 - 2009	2010 -2019	2020 -2030
Number of Site Visits	Fall	7	5	0
	Spring	9	6	0
	Winter	8	9	0
Average Insect Diversity		14.57	14.55	-
Average Sensitive Diversity		1.43	2	-
Average Winter Stonefly Families		1.38	0.83	-
Habitat	# of Surveys	2 (2001, 2007)	2 (2011, 2016)	0
	Summer Water T (F)	54 - 68 (2000-02, 2009)	60 - 68 (2010, 2011)	-
	Stream Width (ft)	11.71	12.46	-
	% Big Rocks	26.83	28.45	-
	% Rocks & Gravel	23.20	31.36	-
	% Sand	41.70	19.99	-
	% Muck	7.77	14.16	-

Measuring Stream Quality

Why bugs?

When a stream is rich in habitat variety, it will have many diverse kinds of bugs (called families). Some bugs (known as "sensitive") can only live in good quality streams. Thus, streams with sensitive families have the clean water and good habitat required by those bugs to survive.

Boyden Creekshed

Adopt-a-Stream Creekshed Profile

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Creekshed Profile

While most of Boyden creekshed is agricultural, developers constructed two dams in Boyden Creek to create Bridgeway and Greenook lakes for the Loch Alpine neighborhood. In 2003, the dams breached for the second time following severe flooding. Subsequently, many residents and the neighborhood golf course paid to have the dams improved and the lakes dredged to remove excess sediment.

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Water Quality Parameters

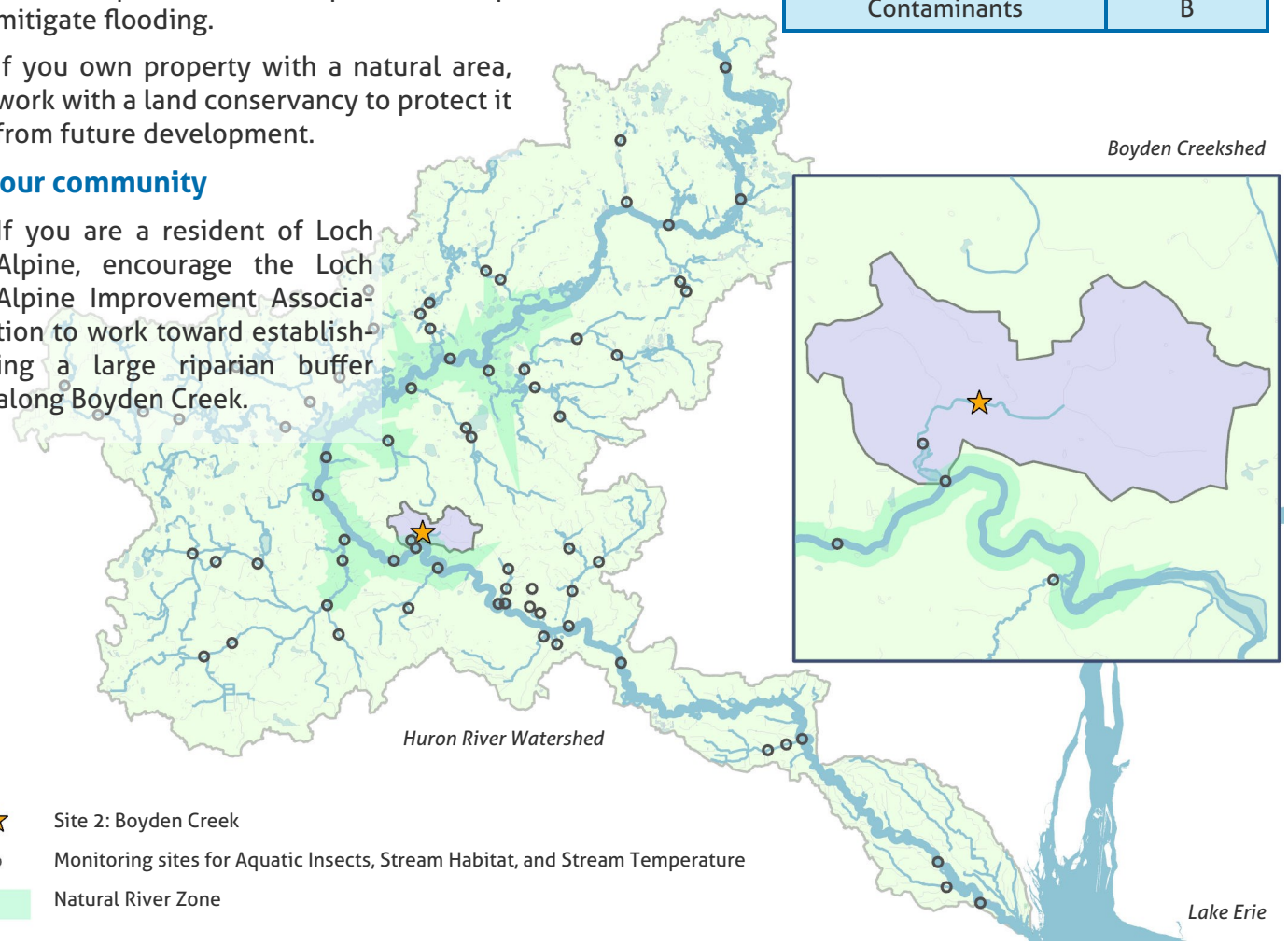
75-100	Healthy to Pristine
50-74	Slightly Impacted
25-49	Highly Impacted
0-24	Extremely Disturbed

	Grade
Land Use	C
Natural Areas	D
Stream Flow	D
Stream Habitat	C
Macroinvertebrates	B
Fish Community	Unknown
Phosphorus	D
E. coli	C
Total Suspended Solids	A
Stream Temperature	C
Conductivity	A
Dams	D
Contaminants	B

What You Can Do!

At home

- Plant deep rooted native plants to help mitigate flooding.
- If you own property with a natural area, work with a land conservancy to protect it from future development.

In your community

- If you are a resident of Loch Alpine, encourage the Loch Alpine Improvement Association to work toward establishing a large riparian buffer along Boyden Creek.