Black Creek Watershed Report Card 2018



Grades:

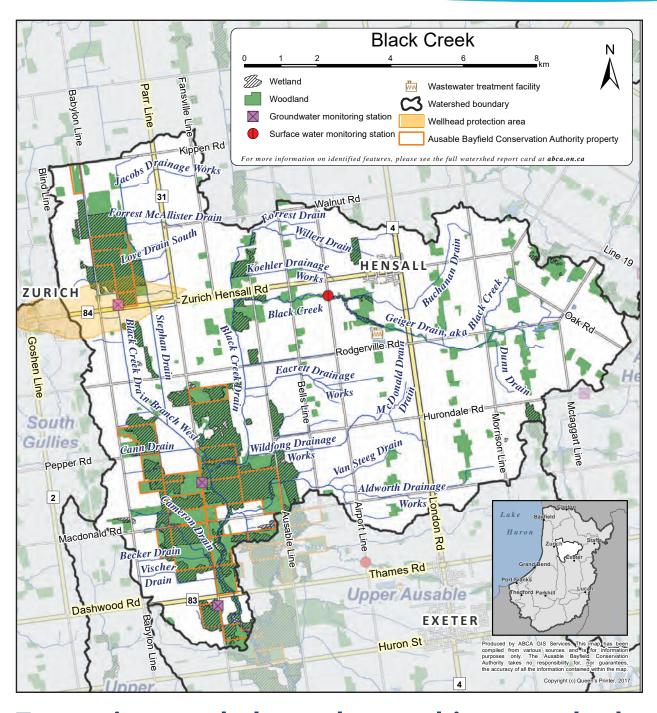
- A Excellent
- B Good
- C Fair
- D Poor
- F Very Poor





Report cards give residents information to protect and enhance watershed resources.

Report card standards were developed for consistent reporting across Ontario.



Top action needed to enhance this watershed:

 Plant shrubs, trees, and cover crops and leave crop residue on sandy soils to prevent runoff.

Visit back page for more actions.





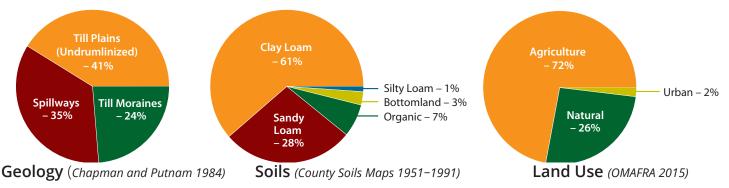
Watershed Features



Area: 124 km²

Municipalities: Bluewater, Huron East, South Huron, West Perth

Geology, soil type, and land use help explain surface water and groundwater quality and forest conditions.*



Fishable

Fish:

- There are warmwater fish in the main channel, with migratory Rainbow Trout.
- Several tributaries have the potential to support coldwater fish habitat.

Species at Risk:

One bird and two reptiles.*

Did you know?

Might there be a green dragon in your backyard?
Green Dragon is a perennial plant that prefers moist forests and riverbanks. Protect wetlands and riparian habitats to help this special concern species.

Swimmable at Local Lake Huron Beaches



- To reduce the risk of illness, refrain from swimming for 48 hours after heavy rainfall, especially when you can't see your feet in waist-deep water.
- Water quality at public beaches is monitored from June to Labour Day.
- Find results from your local public health unit and theswimguide.org

Drinkable

Municipal Drinking Water Sources

- Lake Huron (surface water) is the source of raw water for municipal drinking water for many local towns.
- Groundwater from wells is the municipal drinking water source in Brucefield, Clinton, Seaforth, Zurich, and Varna.
- Learn about your municipal well or intake at this link: sourcewaterinfo.on.ca

Private Wells

- Test your well water in spring and autumn.
- Visit ogwa.ca/Well-Wise-Testing for well protection tips.

Groundwater Conditions



- Concentrations of nitrate and chloride are better than the drinking water standard for nitrate and guideline for chloride at the three shallow provincial monitoring wells in this watershed. (Monitoring well locations are shown on map).
- Your well water quality may differ from that of water quality in provincial monitoring wells.



^{*} Go to abca.ca for the complete Watershed Report Card to learn more.

Watershed Grades



Forest Conditions



Indicator	Description	Result		2017 Grade	
		2012	2017	Black Creek	Entire ABCA
Forest cover	 Forest cover is a percentage of a watershed that is forested. An A grade is forest covering more than 35% of a watershed. 	20.5%	20.6%	С	D (14.2%)
Forest interior	 Forest interior is the percentage of a watershed with forest cover that is at least 100 metres from the forest's edge. Some birds need this area to nest and breed. An A grade is forest interior covering more than 11.5%. 	9.2%	9.6%	В	D (3.3%)
Streamside cover	 Streamside cover is the percentage of the 30-metre area on both sides of open streams that is forested. An <i>A</i> grade is forest covering more than 57.5% of this streamside area. 	30.8%	31.7%	С	C (32.6%)



Overwinter Vegetative Cover on Agricultural Lands

- Agriculture comprises 72 per cent of the land use in this watershed.
- A minimum of 30 per cent of overwinter vegetative cover on agricultural lands might be expected if fields were in a corn-soybean-wheat rotation.
- Overwinter vegetative cover on agricultural lands, in this watershed, ranged from 12 to 19 per cent in recent aerial photography.*



Surface Water Quality



Indicator	Description	Result		2017 Grade	
		2012	2017	Black Creek	Entire ABCA
Total phosphorus	 Total phosphorus is a nutrient. It enhances plant growth. It contributes to excess algae and low oxygen in streams. An <i>A</i> grade is a 75th-percentile* total phosphorus concentration of less than 0.020 mg/L. 	0.099 mg/L	0.103 mg/L	D	D (0.073)
E. coli (Escherichia coli)	 E. coli are bacteria found in human and animal waste. Their presence indicates water may contain other disease-causing organisms. An A grade is a geometric-mean* E. coli concentration of no more than 30 colony forming units (cfu) per 100 mL. 	519 cfu/ 100 mL	278 cfu/ 100 mL	С	C (104)
Benthic invertebrates	 Benthic invertebrates are small animals, without backbones, that live in stream sediments. Family Biotic Index (FBI) summarizes the numbers and types of these animals in a sediment sample. Values, from 1 (healthy) to 10 (degraded), reflect stream health. An A grade is an average FBI value of no more than 4.25. 	6.36	6.62	F	C (5.59)

^{*} The complete *Ausable Bayfield Watershed Report Card* at **abca.ca** has information on 2007 grades, definitions (such as 75th percentile and geometric mean), methods, and results.

Next Steps

How can you help?

You can:

 Restrict livestock access from waterways by installing livestock fencing.

Your community can:

 Support improvements to wastewater treatment plants, local landfill facilities, and stormwater management.

Local agencies can:

 Protect wetlands. Drainage works should be reviewed to ensure baseflow is not diverted, storage in the wetland is not reduced, and channelization does not reduce habitat features.

Take action!

We can help you to develop an individual action plan for your property. Interested in monitoring your watershed? Call us to find out how.



Thumbs up!

The Municipality of Bluewater is undergoing a stormwater master plan process for Hensall. In addition, this municipality also made substantial improvements to its wastewater treatment plant.

Grants

Funding may
be available to
help you plant
trees, control erosion,
and improve water
quality.

Call us to find out more.

Links to the Great Lakes

No matter where you live in the watershed, you are linked to the Great Lakes.

We rely on the lake as a source of drinking water, economic activity, and recreation.

Your personal action can make a difference for Lake Huron.

Visit lakehuroncommunityaction.ca



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Visit abca.ca for the complete Watershed Report Card for all Ausable Bayfield watersheds.