

January 30, 2018

W.10.3.1

Adelaide Metcalfe

Bluewater

Central Huron

Huron East

Lambton Shores

Lucan Biddulph

Middlesex Centre

North Middlesex

Perth South

South Huron

Warwick

West Perth

Municipality of South Huron
Attn: Genevieve Scharback, Corporate Services Manager/Clerk
P.O. Box 759
322 Main St. South
Exeter, ON
N0M 1S6

Dear Ms Scharback:

Re: PGMN Monitoring Well Exceedence - Shipka

As a partner with the Ministry of the Environment (MOE) in the Provincial Groundwater Monitoring Network (PGMN), the ABCA has agreed to follow the "Protocol for Actions" document provided by MOE and Conservation Ontario. The document outlines a procedure for the Conservation Authority to notify (at a minimum) the local Municipality and the affected landowner of any water quality parameter exceedence occurring in one of the PGMN monitoring wells within our watershed. It remains the responsibility of the MOE to notify the Spills Action Centre and the respective County Health Unit.

This letter is to notify you that an exceedence of a water quality parameter has been observed at a monitoring well located in Stephen Township (Municipality of South Huron). This monitoring well is located on Ausable Bayfield Conservation Authority property (Lot 12, Concession 18).

The observed exceedence was for Fluoride, whereby the measured result of the sample taken on September 5, 2017 was 1.55 mg/L. While the measured Fluoride level is within the normal range for bedrock aquifers in this area, according to the Ontario Drinking Water Quality Standards, (Safe Drinking Water Act, 2002), the value exceeds the standard of 1.5mg/L for Fluoride. Fluoride concentrations in previous years were:

September 2003	1.63mg/L	September 2010	1.60mg/L
November 2004	1.60mg/L	September 2011	1.64mg/L
October 2005	1.49mg/L	September 2012	1.59mg/L
October 2006	1.70mg/L	September 2013	1.63mg/L
October 2007	1.60mg/L	September 2014	1.58mg/L
September 2008	1.74mg/L	September 2015	1.77mg/L
September 2009	1.62mg/L	September 2016	1.50mg/L

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Please find attached the original exceedence notification provided by the Environmental Monitoring and Reporting Branch of the MOECC.

This notification to the Municipality is for information purposes only. If any further action is required it will be determined by the County Health Unit and/or MOECC.

If you have any questions or require any additional information, please do not hesitate to contact the undersigned at our office.

Yours truly,

AUSABLE BAYFIELD CONSERVATION AUTHORITY



Davin Heinbuck
Lands and Water Technologist

DH:dh

encl;



Provincial Groundwater Monitoring Network (PGMN)

To: Ministry of Health and Long Term Care - Local Health Unit Representative
Provincial Groundwater Monitoring Network Program Partners

From: George Zhang
Senior Data Analyst / Hydrogeologist
Provincial Groundwater Monitoring Network (PGMN)
Environmental Monitoring and Reporting Branch
Ministry of the Environment and Climate Change

Date: January 8, 2018

RE: Routine sampling, confirming the previous exceedance of the Ontario
Drinking Water Standard for Fluoride reported in Provincial Groundwater
Monitoring Network well W0000340-1, located in Stephen Township (LOT 12, CON 18).

You are receiving this notification as part of our information sharing under the Provincial Groundwater Monitoring Network (PGMN) Program. The PGMN Program monitors ambient (baseline) groundwater levels and quality across Ontario and shares the information on the Ministry of Environment and Climate Change public web-site at the following link:

<http://www.ontario.ca/environment-and-energy/map-provincial-groundwater-monitoring-network>

The PGMN wells are used for monitoring purposes only and do not supply drinking water.

As part of the PGMN program, the Ministry notifies Local Health Units and Conservation Authorities when a PGMN well reports a concentration of a health-related parameter above the drinking water quality standard of 1.5 mg/L for Fluoride.

Please find attached detailed information and a map for PGMN monitoring well W0000340-1, known locally as Shipka well. It is located in the Huron County.

Ø The analytical results of water from this monitoring well provided by the MOE lab (Sample ID: C242043) show that the concentration of Fluoride is 1.55 mg/L for the Sep. 5, 2017 sampling event.

Ø This well has previously reported concentrations for Fluoride in Sep. 2003 (1.59 mg/L), Oct. 2004 (1.75mg/L), Oct. 2005 (1.48 mg/l Nov. 2005 (1.6mg/L), Oct. 2006 (1.6mg/L), Sep. 2008 (1.76 mg/L), Sep. 2009) (1.59 mg/L), Sep. 2010 (1.56 mg/L), Sep. 2011 (1.59 mg/L), Sep. 2012 (1.54 mg/L), Sep. 2014 (1.34 mg/L).

Should you have any question regarding this notice, please contact myself at (416) 235-6374.

Thank you,

George Zhang, M.Sc., P.Geol.
Senior Data Analyst / Hydrogeologist
Provincial Groundwater Monitoring Network Program
Environmental Monitoring and Reporting Branch
Ministry of the Environment and Climate Change
Tel: 416-235-6374
Fax: 416-235-6144
E-mail: George.Zhang@Ontario.ca

c.c. Jennifer Winter, Manager, Water Monitoring and Reporting Section,
Environmental Monitoring and Reporting Branch (EMRB), Ministry of the Environment
and Climate Change (MOECC)
Deborah Conrod, Supervisor, Groundwater and Stream Water Monitoring Unit, EMRB
Dajana Grgic, Program Coordinator, Provincial Groundwater Monitoring Network, EMRB,

Exceedance of Ontario Drinking Water Quality Standard (ODWQS) in PGMN well (PGMN-WQ02326)

Sample Date	CA Name	Well Site Name	PGMIS_Casing_ID	Exceedance	Fluoride	GPS Latitude	GPS Longitude	County/UpperTier Municipality	Township	Lot	Concession	Well Depth (m)	Aquifer type (Bedrock, Overburden, or Overburden - Bedrock Interface)	Screen Interval or Open Hole Interval (meters below ground)	Aquifer Lithology	Original Local Groundwater Interest / Brief General Notes Used During Network Design
2017/09/05	Ausable Bayfield CA	Shipka	W0000340-1	Fluoride	1.55	43.2886	-81.7	HURON COUNTY	STEPHEN	LOT 12	CON 18	39.6	Bedrock	Open Hole: 36.3 m-39.6 m	Limestone	The groundwater resource in this area is generally used for the irrigation of market garden crops and for cattle farming. Monitoring both groundwater quality and quantity in this area is of interest.

Conservation Ontario: Matthew Millar (905) 895-0716 mmillar@conservation-ontario.on.ca
 Ausable Bayfield Conservation Authority: Brian Horner (519) 235-1963 bhorner@abca.on.ca
 Huron County Health Unit: Jean-Guy Albert (519) 482-5119 Jalbert@huroncounty.ca
 Ausable Bayfield Conservation Authority: Dawn Heinbuck 519-235-2610 dheinbuck@abca.on.ca

