

# Laurentian Valley Township Laurentian Valley Water Works 2<sup>nd</sup> Quarterly Report 2011

## Background

Laurentian Valley Water Works manages just over 14 kilometres of water main and branch lines in the Township. Laurentian Valley Water Works received its Certificate #2893 as a Water Distribution System Class 1 in November of 2000. On July 15, 2005 the system was reclassified as Water Distribution Subsystem Class 1 by the Ministry of Environment. The Drinking Water System Information number for Laurentian Valley Water Works is W260007465. This is the first report for 2011.

Laurentian Valley Township has a water servicing agreement with the City of Pembroke. The water is purchased from the City and distributed in the Stafford Village area, part of Pembroke Street East and part of Pembroke Street West. The City treats and tests the water at the Pembroke Filtration Plant on Riverside Drive and tests the water in their distribution system. The Municipality tests the water in its distribution system.

This report and the Certificates of Analysis are available to the general public at the front counter of the Municipal Office at 460 Witt Road during office hours. These quarterly reports are also available on the internet at [www.laurentianvalleytwsp.on.ca](http://www.laurentianvalleytwsp.on.ca) Information on the City Water Works can be accessed at [www.pembrokeontario.com](http://www.pembrokeontario.com)

## Testing

The weekly water samples were sent to Caduceon Laboratories Inc. in Ottawa for analysis. Caduceon is an ODWS Accredited laboratory. The results of the analysis are emailed to the Municipality. The following chart is a summary of those test results.

## Analysis

**For the period of April 1, 2011 - June 30, 2011**

Parameter Tested	MAC, IMAC or Standard	# of Samples	# of Adverse Results	Normal Range	Note #
E, Coli	Nil	40	1	Absent - 9	Note #1
Total Coliforms	Nil	40	2	< 1/100ml - 14	Note #1
Heterotrophic Plate Count	500 CFU/ ml	10	0	<2 CFU/ml - 18 CFU/ml	
Residual Chlorine	.05 mg/ml	159	0	0.09 - 1.12 mg/l	
Trihalomethanes	0.10 mg/liter	1	0	.050775 mg/liter	4/4 ave
Lead - residential	.01 mg/l	10	0	<.00002 mg/l - 0.00038 mg/l	
Lead - distribution	.01 mg/l	2	0	.00076 mg/l - 0.00080 mg/l	
Lead - commercial	.01 mg/l	4	0	.00037 mg/l - 0.00202 mg/l	

**NOTE #1** there were two related incidents of adverse water quality in June. On June 2<sup>nd</sup> we were advised that the May 31<sup>st</sup> sample from Bingo Country had three total coliforms. Of the three resamples taken on June 2<sup>nd</sup>, a sample from Home Hardware was reported to be adverse with 14 Total Coliforms and 9 E Coli. On June 4<sup>th</sup>, six more resamples were taken and delivered to Caduceon laboratories, all samples tested clean and an Issue Resolution was faxed to the RCDHU & the MOE / SAC

In the second quarter of 2011, the municipality paid Caduceon \$1,596.34 for laboratory services.

## **Complaints**

There were no complaints received in the second quarter of 2011.

## **Staffing & Training**

Laurentian Valley Waterworks has 1 Water Quality Analyst, 4 operators certified Water Distribution - Class 1. Two Operators have filed for their license renewals.

## **Maintenance**

On April 2, 2011 the water service on Willow Drive at the intersection of Hamilton Street was turned off, there was a break in the main that would have eroded the street. The main was repaired on April 3. The RCDHU imposed a Boil Water Order on the affected customers until water sampling & analysis showed that the water was safe. The BWO was rescinded on April 7<sup>th</sup>. In April and June, the water meter chambers were pumped out. In May, the hydrants were flushed and the valves were exercised.

## **Ministry of the Environment**

The Municipality received correspondence from The Ministry of Environments Agent for the auditing of our Drinking Water Quality Management System, they have completed the audit and emailed the Audit Report along with 6 Corrective Action Requests.

The MOE issued the Laurentian Valley Drinking Water License and the Drinking Water Works Permit on the 31<sup>st</sup> of May and on June 2<sup>nd</sup> they “accepted” our Operational Plan - February 2009.

## **Summary**

In the second quarter of 2011, the water works purchased 14,083,630 gallons of water from the City of Pembroke and distributed it to 625 homes and businesses. There was one water main break and associated Boil Water Order. There were two related incidents of adverse water quality.