

**Laurentian Valley Township
Laurentian Valley Water Works
2015 Annual Report**

Description

Laurentian Valley Waterworks is a distribution system that purchases treated water from the City of Pembroke and distributes it to 645 homes and businesses through out 14 kilometers of distribution piping. There are no storage tanks, chlorine or pressure booster stations. Laurentian Valley Water Works received it's **Certificate** as a Water Distribution Plant, Level 1 (WD1) in November of 2000, # **2893**. 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. The MOE issued the Laurentian Valley Drinking Water License Number 192-101 and Drinking Water Works Permit Number 192-201 Issue Number 1 in 2011. On the 17th of August 2012, Laurentian Valley Water Works Quality Management System was accredited by NSF International, the accreditation was renewed on December 23rd, 2015 for a further 3 years.

This is the Annual and Summary Report as required by O.Reg 170/03 as amended.

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. The City provides an Annual & Summary Report to the Municipality as required by O.Reg 170/03.

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. The quarterly and annual reports are also available on the internet at www.laurentianvalleytwsp.on.ca Information on the City Water Works can be accessed at www.pembroke.ca/departments/operations/utilities

Ownership

Laurentian Valley Water Works is owned by the Corporation of the Township of Laurentian Valley.

Operating Authority

Laurentian Valley Water Works is operated by the Corporation of the Township of Laurentian Valley.

Sampling & Testing

Water sampling was conducted by Claus Trost, Water Quality Analyst, Certificate number 12228. The 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 January 1, 2015 - December 31, 2015

Parameter Tested	MAC, IMAC or Standard	# of Samples	# of Adverse Results	Normal Range	Note #
E, Coli	Nil	113	0	Absent	
Heterotrophic Plate Count	500 CFU/ ml	40	0	<2/ml - 10 CFU/ ml	
Total Coliforms	Nil	113	0	< 1/100ml	
Residual Chlorine	.05 mg/ml	539	0	0.05 - 1.27 mg/l	
Trihalomethanes	.10 mg/liter	4	0	.08185 mg/liter	4/4 ave
pH - Distribution		4	0	7.00 - 7.07	
Alkalinity - Distribution		4	0	37- 41 mg/l	
Lead - distribution	.01 mg/l	4	0	.00007 mg/l - 0.00018 mg/l	

In 2015 the Municipality paid Caduceon Laboratories \$4,314.17 for water analysis services.

Complaints

There were two customer service calls in the first quarter of 2015; on February 13th, the new owners of 1348 Pembroke Street West called about a noisy water meter, on February 17th, they called to say the plumber had determined the noise is from the backflow preventor, the screen was cleaned and the noise went away. On February 23rd the owner of 627 Roy Street called to say her water was froze, it was frozen in the crawl space of her home.

Staffing & Training

Laurentian Valley Waterworks has 1 Water Quality Analyst, 4 operators certified Water Distribution 1 and 2 Operators in Training. In 2015, two operator licenses were renewed. The only license up for renewal in 2016 is the WQA's,

The Works Department hopes to get all the Operators the mandatory drinking water course this year.

Construction

There were no major construction projects on the water works in 2015.

Maintenance

There were no water main breaks or unscheduled service disruptions in 2015. There were no new

water connections in 2015.

There were four service repairs in 2015; on January 23rd the service saddle was replaced at 615 Hamilton Street, on March 9th the service saddle at 631 Glen Street was replaced, March 30th the service saddle at 546 Lark Street was replaced and on August 1st a service saddle was replaced at Hamilton Street & Jean Avenue on July 3rd,

Two hydrants were repaired in 2015; a repair was made to the 4" service pipe and the hydrant valve was replaced at Stafford Park, on September 29th Hydrant #5 was exposed and the valve nut was tightened, to stop a slow leak.

In August the major water leak on the West End Main was located; on August 11th it was determined that the leak was on the Edwards Mazda property, their service main was broken, on August 24th, their contractor repaired the broken pipe.

The fire hydrants were flushed and the main valves worked in the second and fourth quarters of 2015. Staff also recorded 108 water main & sewer main locates for third party contractors in 2015.

Asset Management and Financial Plan

In 2015 no assets were replaced. The Financial Plan for the next six years was completed and submitted to the Ministry.

Quality Management System

NSF-ISR, our accreditation agency, conducted their on-site audit of our system in January, a copy of their report was previously circulated, there were six corrective action requests. We submitted the proposed changes to address the corrective action requests at the end of February, four were accepted, and two required further documentation.

The Internal Audit was completed near the end of the second quarter, there was one Corrective Action Request, regarding Inventory, which will be dealt with in early 2016.

The Management Review was completed in December of 2015, and the report was previously circulated.

The final Corrective Actions from the January Audit were completed on or about October 21st, 2015. Our next audit is scheduled for January 8th, 2016

Accreditation & Licensing

The Water Works continues to be accredited with NSF, the fourth audit to be conducted on-site by NSF is scheduled for January 10th 2016.

On December 23rd, NSF-ISR, our accreditation agency sent us the Accreditation Certificate.

Ministry of the Environment

In February, the 2015 Industrial/Commercial User Report was completed and submitted to the MOE as required.

The Municipality received a copy of the City's Drinking Water System 2014 Annual Report as required.

The Laurentian Valley Water Works 2014 Annual Report was completed and circulated.

The MOE Annual Inspection was completed on September 2nd, the Inspection Report was submitted to the Municipality on November 2, 2015, there were no issues of non-compliance.

Summary

In 2015, the water works purchased 58,847,180 gallons of water from the City of Pembroke and distributed it to 645 homes and businesses. This was a 12.3 percent increase in water usage over the previous 14 year average. Out of 704 water samples taken, there were no incidents of adverse water quality. There were no unplanned, major expenditures 2015.

Claus Trost
WQA

Total and Average Water Use Statistics

	1st quarter	2nd quarter	3rd quarter	4th quarter	Total	% Deviation from Average
2001	10,535,760	11,324,510	16,272,410	10,524,230	48,656,910	-6.066
2002	9,671,790	10,794,534	18,639,816	16,868,052	55,974,192	7.8
2003	16,029,978	11,442,884	12,584,000	10,390,540	50,447,402	-2.301
2004	10,825,780	13,887,440	15,103,060	12,084,070	51,900,350	-0.563
2005	12,193,850	13,770,494	16,571,806	11,808,070	54,344,220	5.034
2006	10,725,906	12,470,040	14,573,900	11,572,310	49,342,156	-4.593
2007	12,102,020	14,869,070	17,366,521	13,244,381	57,581,992	10.374
2008	11,422,781	12,488,412	15,781,786	13,085,730	52,778,709	2.217
2009	11,400,822	13,200,202	14,142,370	12,821,490	51,564,884	-0.084
2010	11,422,415	15,108,830	15,838,621	12,040,820	54,410,686	5.150
2011	9,941,822	13,916,683	13,807,640	14,068,538	51,734,683	0.244
2012	10,123,738	13,635,875	16,143,424	12,109,409	52,012,446	0.777
2013	11,012,707	13,002,165	12,844,073	9,267,694	46,126,639	-11.884
2014	8,572,421	10,951,915	13,112,594	13,004,686	45,641,616	-13.073
2015	13,457,180	16,916,645	16,032,685	12,440,670	58,847,180	12.301
Average	11,141,556	12,918,790	15,198,716	12,331,169	51,608,349	

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