

February 26, 2018

M. Marc Legault,
The Corporation of the Nation Municipality
958 Hwy # 500 West, R.R. # 3
Casselman, ON
K0A 1M0

Subject: Summary and Annual Report for the Limoges Drinking Water System.

Mr. Legault:

The following document includes the Summary Report for the Limoges Drinking Water System, covering the period from January 1st to October 31st 2017. The Summary Report is completed in accordance with O.Reg 170/03 Schedule 22 under the Safe Drinking Water Act, which requires for it to be completed by February 28 of the following year.

The Summary Report includes a summary of the quantities and flow rates of the water supplied during the period covered including monthly average and maximum daily flow and a comparison of the summary to the rated capacity of the system.

It is to be distributed among the members of the municipal council and the board of directors of the Nation Corporation.

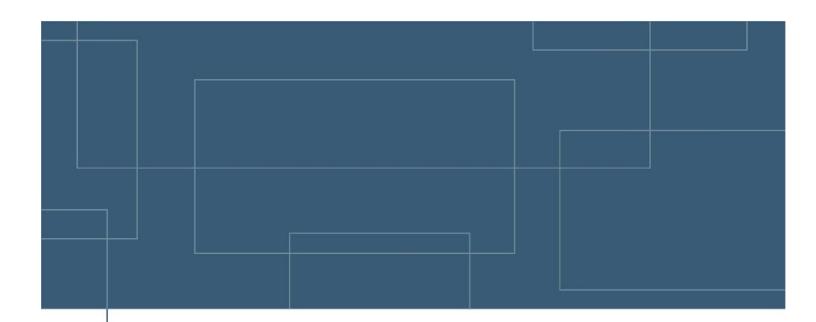
Sincerely,

Luc Airoldi

Project Manager

cc: Doug Renaud, The Nation Municipality

REF: 058-P-0001826-047-EX-R-2017-00



The Nation Municipality

Report for Limoges Drinking Water System

2017 Summary and Annual report

Date: February 2018

N/Réf.: 058-P-0001826-027-EX-R-2017-00



Summary Report for the Limoges Drinking Water System

Background

O. Reg. 170/03 Schedule 22 Summary Reports for Municipalities applies for small and large municipal residential systems. The Limoges Drinking Water System is considered to be a large municipal residential system as it is a "municipal drinking water system that serves a major residential development and serves more than 100 private residences" as defined in Section 1 of O.Reg.170/03.

The summary report must be prepared by February 28 of the following year and must be given to:

- in the case of a drinking water system owned by a municipality, the members of the municipal council;
- in the case of a drinking water system owned by a municipal service board established under section 195 of the *Municipal Act, 2001*, the members of the municipal service board; or
- in the case of a drinking water system owned by a corporation, the board of directors of the corporation.

The Summary Report must:

- list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and
- for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure
- A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
- A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

Content

The following table lists the requirements that the system failed to meet and the measures taken to correct the failures.

Drinking Water Legislation and	Requirements the system failed to meet	Duration of the failure	Corrective measures taken	Status
Safe Drinking Water Act, 2002	None	N/A	N/A	N/A
Ontario Regulations: O.Reg. 128/04	Preventive boiled water (Broke hydrant valve)	15-03-2017	Resample 0cfu/100ml	Complete
O.Reg. 169/03 O.Reg. 170/03	Sodium (33.3 mg/l)	N/A	Advise all citizen	Open
Systems approval: Certificate of Approval	None	N/A	N/A	N/A
Drinking Water Works Permit under O.Reg 188/03	None	N/A	N/A	N/A
Municipal Drinking Water Licence under O.Reg 188/03	None	N/A	N/A	N/A
Provincial Officer's Order	None	N/A	N/A	N/A

Comparison:

During 2017 year, (January 1 to October 31), the maximum daily flow of 1 481 m³/d occurred during the month of June and represented 71,2 % of the rated capacity of the Limoges Water Treatment Plant which is 2080 m³/d.

The maximum daily flow from wells of 1444 L/Min (24.1 L/sec or 2080 m³/d) as per the Permit to Take Water number 1106-968LAR dated April 12th 2013. The maximum daily flow of 1714 m³/d, which occurred in July, represented 82,4 % of the rated capacity of the Limoges Water Treatment plant wells.

The average daily distribution flow during the 2017 year, (January 1 to October 31) was 927 m³/d.

2017 Summary Report Limoges Water Taking

Municipality: Village of Limoges and Forest Park in the Nation Township Facility: Limoges Water Treatment Plant and Distribution System

Works: 260006841 - Limoges Water Treatment Plant and Water Distribution System

Classification: Class 1 Water Distribution

Water Source: Ground Water Permit Number: 03-P-4045

Period: 2017-01-01 to 2017-12-31

Period: A	2017-01-0	1 to 2017	-12-31			Rated Capacity (L/s) & (L/min) :			24,0	1440,0			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sum
Well # 1							1					1	1
Total Hours of Taking	191,80	159,53	153,60	138,76	156,14	127,37	98,54	177,65	188,90	150,84			1 543,13
Total Amount of Taking (m ³)	17 961	16 643	15 469	15 705	16 524	14 449	11 572	16 378	14 075	14 840	ļ	I	153 615
Average Daily Taking (m3)	579	594	499	524	533	516	609	528	469	479			533
% Rated Capacity (ave daily taking)	27,85	28,58	23,99	25,17	25,63	24,81	29,28	25,40	22,56	23,01	0,00	0,00	21,36
Max Daily Flow (m3)	1 021	1 127	942	952	1 075	1 111	1 247	975	1 038	944	ĺ	ĺ	1 247
% Rated Capacity (max daily flow)	49,10	54,18	45,27	45,78	51,66	53,43	59,96	46,86	49,92	45,40	0,00	0,00	59,96
Min Daily Flow (m3)	238	193	188	248	258	О	133	23	19	263	I	1	o
% Rated Capacity (max daily flow)	11,42	9,30	9,02	11,93	12,40	0,00	6,37	1,13	0,90	12,64	0,00	0,00	12,64
Average Daily Rate of Taking (L/s)	21,84	21,97	22,21	23,03	23,38	22,06	21,72	22,51	22,86	22,45	ĺ	1	22,40
Peak Daily Rate of Taking (L/s)	23,97	23,99	23,83	23,93	24,00	24,00	24,00	24,00	23,98	23,98			24,00
% Peak Daily Rate of Taking (L/s)	99,88	99,96	99,29	99,71	100,00	100,00	100,00	100,00	99,92	99,92	0,00	0,00	100,00
Peak Daily Rate of Taking (L/min)	1 438	1 439	1 430	1 436	1 440	1 440	1 440	1 440	1 439	1 439	0	0	1 198,40
% Peak Daily Rate of Taking (L/min)	99,88	99,96	99,29	99,71	100,00	100,00	100,00	100,00	99,92	99,92	0,00	0,00	100,00
Well level (static & Dynamic)	6,33	6,47	7,20	8,44	9,08	8,74	9,20	8,65	8,29	7,92	ĺ	1	8,03
Min Well level (Dynamic)	5,70	6,10	6,41	7,16	8,19	8,20	8,48	8,08	7,83	7,20			5,70
Max Well level (static)	6,69	6,90	7,51	9,01	9,67	9,30	9,76	9,12	8,63	8,28			9,76
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sum
Well # 2		1	1	1	i	Ú			ĺ	1		1	
Total Hours of Taking	160,97	131,70	153,34	114,19	140,02	182,21	241,11	173,69	164,07	167,35			1 628,65
Total Amount of Taking (m ³)	16 851	15 332	16 500	12 563	16 428	21 319	26 036	18 781	15 800	14 695			
Total Amount of Taking (m³) Average Daily Taking (m3)	16 851 544												174 305 573
3		15 332	16 500	12 563	16 428	21 319	26 036	18 781	15 800	14 695	0,00	0,00	174 305 573
Average Daily Taking (m3) % Rated Capacity (ave daily taking)	544 26,13	15 332 548 26,33	16 500 532 25,59	12 563 419 20,13	16 428 530 25,48	21 319 711 34,16	26 036 839,87 40,38	18 781 606 29,13	15 800 527 25,32	14 695 474 22,79	0,00	0,00	174 305 573 22,95
Average Daily Taking (m3)	544	15 332 548	16 500 532	12 563 419	16 428 530	21 319 711	26 036 839,87	18 781 606	15 800 527	14 695 474	0,00	0,00	174 305 573
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow)	544 26,13 994 47,79	548 26,33 1 031 49,59	16 500 532 25,59 1 025 49,27	12 563 419 20,13 933 44,85	16 428 530 25,48 931 44,74	21 319 711 34,16 1 245 59,87	26 036 839,87 40,38 1 372 65,96	18 781 606 29,13 1 035 49,78	15 800 527 25,32 979,11 47,07	14 695 474 22,79 832,56 40,03	·		174 305 573 22,95 1 372,06 65,96
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3)	544 26,13	15 332 548 26,33 1 031	16 500 532 25,59 1 025	12 563 419 20,13	16 428 530 25,48	21 319 711 34,16 1 245	26 036 839,87 40,38 1 372	18 781 606 29,13 1 035	15 800 527 25,32 979,11	14 695 474 22,79 832,56	·		174 305 573 22,95 1 372,06 65,96
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow) Min Daily Flow (m3) % Rated Capacity (max daily flow)	544 26,13 994 47,79 104 4,98	15 332 548 26,33 1 031 49,59 24 1,14	16 500 532 25,59 1 025 49,27 271 13,04	12 563 419 20,13 933 44,85 0 0,00	16 428 530 25,48 931 44,74 263 12,66	21 319 711 34,16 1 245 59,87 315 15,13	26 036 839,87 40,38 1 372 65,96 319 15,35	18 781 606 29,13 1 035 49,78 251 12,07	15 800 527 25,32 979,11 47,07 11 0,51	14 695 474 22,79 832,56 40,03 3 0,16	0,00	0,00	174 305 573 22,95 1 372,06 65,96 0,00 15,35
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow) Min Daily Flow (m3) % Rated Capacity (max daily flow) Average Daily Rate of Taking (L/s)	544 26,13 994 47,79 104 4,98	15 332 548 26,33 1 031 49,59 24 1,14 22,68	16 500 532 25,59 1 025 49,27 271 13,04 23,06	12 563 419 20,13 933 44,85 0 0,00 20,59	16 428 530 25,48 931 44,74 263 12,66 21,97	21 319 711 34,16 1 245 59,87 315 15,13 22,16	26 036 839,87 40,38 1 372 65,96 319 15,35 22,45	18 781 606 29,13 1 035 49,78 251 12,07 22,52	15 800 527 25,32 979,11 47,07 11 0,51 22,22	14 695 474 22,79 832,56 40,03 3 0,16 21,93	0,00	0,00	174 305 573 22,95 1 372,06 65,96 0,00 15,35 22,22
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow) Min Daily Flow (m3) % Rated Capacity (max daily flow)	544 26,13 994 47,79 104 4,98	15 332 548 26,33 1 031 49,59 24 1,14	16 500 532 25,59 1 025 49,27 271 13,04	12 563 419 20,13 933 44,85 0 0,00	16 428 530 25,48 931 44,74 263 12,66	21 319 711 34,16 1 245 59,87 315 15,13	26 036 839,87 40,38 1 372 65,96 319 15,35	18 781 606 29,13 1 035 49,78 251 12,07	15 800 527 25,32 979,11 47,07 11 0,51	14 695 474 22,79 832,56 40,03 3 0,16	0,00	0,00	174 305 573 22,95 1 372,06 65,96 0,00 15,35 22,22 24,00
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow) Min Daily Flow (m3) % Rated Capacity (max daily flow) Average Daily Rate of Taking (L/s) Peak Daily Rate of Taking (L/s) % Peak Daily Rate of Taking (L/s)	544 26,13 994 47,79 104 4,98 22,60 23,87 99,46	15 332 548 26,33 1 031 49,59 24 1,14 22,68 23,92 99,67	16 500 532 25,59 1 025 49,27 271 13,04 23,06 23,98 99,92	12 563 419 20,13 933 44,85 0 0,00 20,59 23,98 99,92	16 428 530 25,48 931 44,74 263 12,66 21,97 24,00 100,00	21 319 711 34,16 1 245 59,87 315 15,13 22,16 24,00 100,00	26 036 839,87 40,38 1 372 65,96 319 15,35 22,45 24,00 100,00	18 781 606 29,13 1 035 49,78 251 12,07 22,52 24,00 100,00	15 800 527 25,32 979,11 47,07 11 0,51 22,22 23,93 99,71	14 695 474 22,79 832,56 40,03 3 0,16 21,93 23,98 99,92	0,00	0,00	174 305 573 22,95 1 372,06 65,96 0,00 15,35 22,22 24,00 100,00
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow) Min Daily Flow (m3) % Rated Capacity (max daily flow) Average Daily Rate of Taking (L/s) Peak Daily Rate of Taking (L/s)	544 26,13 994 47,79 104 4,98 22,60 23,87	15 332 548 26,33 1 031 49,59 24 1,14 22,68 23,92	16 500 532 25,59 1 025 49,27 271 13,04 23,06 23,98	12 563 419 20,13 933 44,85 0 0,00 20,59 23,98	16 428 530 25,48 931 44,74 263 12,66 21,97 24,00	21 319 711 34,16 1 245 59,87 315 15,13 22,16 24,00	26 036 839,87 40,38 1 372 65,96 319 15,35 22,45 24,00	18 781 606 29,13 1 035 49,78 251 12,07 22,52 24,00	15 800 527 25,32 979,11 47,07 11 0,51 22,22 23,93	14 695 474 22,79 832,56 40,03 3 0,16 21,93 23,98	0,00	0,00	174 305 573 22,95 1 372,06 65,96 0,00 15,35 22,22 24,00 100,00 1 198
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow) Min Daily Flow (m3) % Rated Capacity (max daily flow) Average Daily Rate of Taking (L/s) Peak Daily Rate of Taking (L/s) Peak Daily Rate of Taking (L/min) % Peak Daily Rate of Taking (L/min)	544 26,13 994 47,79 104 4,98 22,60 23,87 99,46	15 332 548 26,33 1 031 49,59 24 1,14 22,68 23,92 99,67 1 435 99,67	16 500 532 25,59 1 025 49,27 271 13,04 23,06 23,98 99,92 1 439 99,92	12 563 419 20,13 933 44,85 0 0,00 20,59 23,98 99,92 1 439 99,92	16 428 530 25,48 931 44,74 263 12,66 21,97 24,00 100,00 1 440 100,00	21 319 711 34,16 1 245 59,87 315 15,13 22,16 24,00 100,00 1 440 100,00	26 036 839,87 40,38 1 372 65,96 319 15,35 22,45 24,00 100,00 1 440 100,00	18 781 606 29,13 1 035 49,78 251 12,07 22,52 24,00 100,00 1 440 100,00	15 800 527 25,32 979,11 47,07 11 0,51 22,22 23,93 99,71 1 436 99,71	14 695 474 22,79 832,56 40,03 3 0,16 21,93 23,98 99,92 1 439 99,92	0,00	0,00	174 305 573 22,95 1 372,06 65,96 0,00 15,35 22,22 24,00 100,00 1 198 100,00
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow) Min Daily Flow (m3) % Rated Capacity (max daily flow) Average Daily Rate of Taking (L/s) Peak Daily Rate of Taking (L/s) Peak Daily Rate of Taking (L/min) % Peak Daily Rate of Taking (L/min) Well level Average (Static & Dynamic)	544 26,13 994 47,79 104 4,98 22,60 23,87 99,46 1 432 99,46 6,39	15 332 548 26,33 1 031 49,59 24 1,14 22,68 23,92 99,67 1 435 99,67 6,54	16 500 532 25,59 1 025 49,27 271 13,04 23,06 23,98 99,92 1 439 99,92 7,26	12 563 419 20,13 933 44,85 0 0,00 20,59 23,98 99,92 1 439 99,92 8,56	16 428 530 25,48 931 44,74 263 12,66 21,97 24,00 100,00 1 440 100,00 9,21	21 319 711 34,16 1 245 59,87 315 15,13 22,16 24,00 100,00 1 440 100,00 8,81	26 036 839,87 40,38 1 372 65,96 319 15,35 22,45 24,00 100,00 1 440 100,00 9,17	18 781 606 29,13 1 035 49,78 251 12,07 22,52 24,00 100,00 1 440 100,00 8,86	15 800 527 25,32 979,11 47,07 11 0,51 22,22 23,93 99,71 1 436 99,71 8,45	14 695 474 22,79 832,56 40,03 3 0,16 21,93 23,98 99,92 1 439 99,92 8,06	0,00	0,00	174 305 573 22,95 1 372,06 65,96 0,00 15,35 22,22 24,00 100,00 1 198 100,00 8,13
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow) Min Daily Flow (m3) % Rated Capacity (max daily flow) Average Daily Rate of Taking (L/s) Peak Daily Rate of Taking (L/s) Peak Daily Rate of Taking (L/min) % Peak Daily Rate of Taking (L/min)	544 26,13 994 47,79 104 4,98 22,60 23,87 99,46	15 332 548 26,33 1 031 49,59 24 1,14 22,68 23,92 99,67 1 435 99,67	16 500 532 25,59 1 025 49,27 271 13,04 23,06 23,98 99,92 1 439 99,92	12 563 419 20,13 933 44,85 0 0,00 20,59 23,98 99,92 1 439 99,92	16 428 530 25,48 931 44,74 263 12,66 21,97 24,00 100,00 1 440 100,00	21 319 711 34,16 1 245 59,87 315 15,13 22,16 24,00 100,00 1 440 100,00	26 036 839,87 40,38 1 372 65,96 319 15,35 22,45 24,00 100,00 1 440 100,00	18 781 606 29,13 1 035 49,78 251 12,07 22,52 24,00 100,00 1 440 100,00	15 800 527 25,32 979,11 47,07 11 0,51 22,22 23,93 99,71 1 436 99,71	14 695 474 22,79 832,56 40,03 3 0,16 21,93 23,98 99,92 1 439 99,92	0,00	0,00	174 305 573 22,95 1 372,06 65,96 0,00 15,35 22,22 24,00 100,00 1 198 100,00 8,13 5,75
Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow) Min Daily Flow (m3) % Rated Capacity (max daily flow) Average Daily Rate of Taking (L/s) Peak Daily Rate of Taking (L/s) % Peak Daily Rate of Taking (L/min) % Peak Daily Rate of Taking (L/min) % Peak Daily Rate of Taking (L/min) Well level Average (Static & Dynamic) Min Well level (Dynamic)	544 26,13 994 47,79 104 4,98 22,60 23,87 99,46 1 432 99,46 6,39 5,75 6,76	15 332 548 26,33 1 031 49,59 24 1,14 22,68 23,92 99,67 1 435 99,67 6,54 6,08 6,98	16 500 532 25,59 1 025 49,27 271 13,04 23,06 23,98 99,92 1 439 99,92 7,26 6,37 7,59	12 563 419 20,13 933 44,85 0 0,00 20,59 23,98 99,92 1 439 99,92 8,56 7,20 9,16	16 428 530 25,48 931 44,74 263 12,66 21,97 24,00 100,00 1 440 100,00 9,21 8,49 9,82	21 319 711 34,16 1 245 59,87 315 15,13 22,16 24,00 100,00 1 440 100,00 8,81 8,17 9,45	26 036 839,87 40,38 1 372 65,96 319 15,35 22,45 24,00 100,00 1 440 100,00 9,17 8,25 9,83	18 781 606 29,13 1 035 49,78 251 12,07 22,52 24,00 100,00 1 440 100,00 8,86 8,24 9,44	15 800 527 25,32 979,11 47,07 11 0,51 22,22 23,93 99,71 1 436 99,71 8,45 7,85 8,84	14 695 474 22,79 832,56 40,03 3 0,16 21,93 23,98 99,92 1 439 99,92 8,06 7,47 8,46	0,00	0,00	174 305 573 22,95 1 372,06 65,96 0,00 15,35 22,22 24,00 100,00 1 198 100,00 8,13 5,75 9,83
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Average Daily Taking (m3) % Rated Capacity (ave daily taking) Max Daily Flow (m3) % Rated Capacity (max daily flow) Min Daily Flow (m3) % Rated Capacity (max daily flow) Average Daily Rate of Taking (L/s) Peak Daily Rate of Taking (L/s) % Peak Daily Rate of Taking (L/min) % Peak Daily Rate of Taking (L/min) % Peak Daily Rate of Taking (L/min) Well level Average (Static & Dynamic) Min Well level (Dynamic)	544 26,13 994 47,79 104 4,98 22,60 23,87 99,46 1 432 99,46 6,39 5,75 6,76	15 332 548 26,33 1 031 49,59 24 1,14 22,68 23,92 99,67 1 435 99,67 6,54 6,08 6,98	16 500 532 25,59 1 025 49,27 271 13,04 23,06 23,98 99,92 1 439 99,92 7,26 6,37 7,59	12 563 419 20,13 933 44,85 0 0,00 20,59 23,98 99,92 1 439 99,92 8,56 7,20 9,16	16 428 530 25,48 931 44,74 263 12,66 21,97 24,00 100,00 1 440 100,00 9,21 8,49 9,82	21 319 711 34,16 1 245 59,87 315 15,13 22,16 24,00 100,00 1 440 100,00 8,81 8,17 9,45	26 036 839,87 40,38 1 372 65,96 319 15,35 22,45 24,00 100,00 1 440 100,00 9,17 8,25 9,83	18 781 606 29,13 1 035 49,78 251 12,07 22,52 24,00 100,00 1 440 100,00 8,86 8,24 9,44	15 800 527 25,32 979,11 47,07 11 0,51 22,22 23,93 99,71 1 436 99,71 8,45 7,85 8,84	14 695 474 22,79 832,56 40,03 3 0,16 21,93 23,98 99,92 1 439 99,92 8,06 7,47 8,46	0,00	0,00	174 305 573 22,95 1 372,06 65,96 0,00 15,35 22,22 24,00 100,00 1 198 100,00 8,13 5,75 9,83

2017 Summary Report Limoges Water Distribution System

Municipality: Village of Limoges and Forest Park in the Nation Township **Facility:** Limoges Water Treatment Plant and Distribution System

Works: 260006841 - Limoges Water Treatment Plant and Water Distribution Syste

Classification: Class 1 Water Distribution

Water Source: Ground Water Serviced Population: 1300
Period: 2017-01-01 to 2017-12-31 Total Designed Capacity (m3/day): 2080

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sum
Distribution	•													
	Avg.	967	972	887	798	914	1027	1031	980	867	825			927
	Max	1104	1084	1097	960	1366	1481	1464	1253	1051	963			1481
	Min	904	905	725	671	707	770	796	788	736	719			671
	Total	29977	27214	27487	23939	28341	30823	31955	30385	25997	25577			281695
Forest-Park	booster	- Flows (m	n3/day)								•		•	
	Avg.	54	60	51	103	127	128	123	105	116	116			98
	Max	85	111	87	155	204	242	286	149	196	179			286
	Min	34	0	26	30	98	96	79	79	90	87			00.007
	Total	1 674	1 608	1 576	3 104	3 553	3 831	3 828	3 262	3 358	3 493	I		29 287
Distribution Minimum Tot	•		- Chlorir	ne Residi	ıals POE									
WIIIIIIIIIIIIIII TOI	Avg.	1,74	1,94	1,87	1,89	1,85	1,95	1,94	1,98	1,93	1,94	ı	ı	1,74
	Min	1,05	1,20	1,25	0,87	0,74	1,31	1,31	1,50	1,26	1,49			0,74
	141111	1,00	1,201	1,20	0,07	0,7-1	1,01	1,01	1,00	1,20	1,40	ı	Į	0,14
Maximum To														
	Avg.	1,90	2,14	2,02	2,10	2,05	2,14	2,14	2,22	2,26	2,16			2,26
	Max	2,18	2,51	2,19	2,96	2,19	2,49	2,39	2,58	2,78	2,33	I		2,96
Minimum Fre	ee Cl ₂ (m	· ,												ī
	Avg.	0,08	0,08	0,08	0,09	0,09	0,10	0,13	0,15	0,14	0,14			0,08
	Min	0,06	0,06	0,06	0,06	0,07	0,08	0,11	0,13	0,11	0,11	l		0,06
Maximum Fr	ee Cl ₂ (r	ng\L)												
	Avg.	0,14	0,14	0,13	0,19	0,18	0,17	0,24	0,27	0,25	0,23			0,27
	Max	0,16	0,16	0,17	0,54	0,22	0,24	0,32	0,37	0,65	0,27	ļ		0,65
Minimum Co	mbined	Cl ₂ (mg\L))										_	
	Avg.	1,63	1,82	1,75	1,73	1,71	1,81	1,73	1,74	1,72	1,74			1,63
	Min	1,04	1,09	1,14	0,75	0,62	1,18	1,14	1,30	1,12	1,32	l		0,62
Maximum Co	ombined	Cl ₂ (mg\L	_)											
	Avg.	1,80	2,02	1,93	1,96	1,94	2,04	1,97	2,03	2,09	1,99			2,09
	Max	1,88	2,16	2,08	2,42	2,14	2,51	2,20	2,35	2,55	2,15			2,55
Mean Combi	ned Cl ₂	(mg\L)												
	Avg.	1,76	1,97	1,87	1,89	1,87	1,95	1,88	1,88	1,91	1,85			1,88

OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number: Drinking-Water System Name: Drinking-Water System Owner: Drinking-Water System Category: Period being reported: 260006841
Limoges Water Treatment Plant
The Corporation of the Nation Municipality
Large Municipal Residential
January 1st to October 31st 2017

Complete if your Category is Large Municipal Complete if your Category is the your Cate	<u>ipal</u>
Residential or Small Municipal Residentia	<u>l</u>

Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]

Is your annual report available to the public at no charge on a web site on the Internet?

Yes [X] No []

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Municipal Office The Corporation of the Nation Municipality 958 Hwy 500 W, RR # 3 Cassleman, ON, K0A1M0

Complete for all other Categories.

Number of Designated Facilities served:

N/A

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes [] No []

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Le Baron Estate	N/A

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes [X] No []

Indicate how you notified system users that your annual report is available, and is free of charge.

[X] Public access/notice via the web

[] Public access/notice via Government Office

[] Public access/notice via a newspaper

[] Public access/notice via Public Request

[X] Public access/notice via a Public Library

[] Public access/notice via other method ______

Describe your Drinking-Water System

The Limoges water treatment plant is a ground water facility, service the Village of Limoges, the Community of Forest Park, Le Baron Estate and the Ben Tardif Trailer Park. The facility is rated at 2,080 m3/day and includes; two raw water production wells, two low lift pumps, two detention tanks, two clarifier/green sand filters, one clearwell (160 m3 capacity), one elevated water reservoir (1734 m3 capacity) and chemical feed systems.

The Chemical feed systems consist of chemical pumps, storage tanks, piping and associated appurtenances to dose potassium permanganate (primary and secondary doses), Alum, Polyelectrolyte, Sodium Hypochlorite and Ammonium Sulphate. This facility operates under the Certificate of Approval number 7364 – 6SYKG8 and Permit to Take Water number 03-P-4045.

List all water treatment chemicals used over this reporting period

Potassium Permanganate, PAX-XL6, Polyelectrolyte, Sodium Hypochlorite, Ammonium Sulphate

Were any significant expenses incurred to?

[] Install required equipment

[X] Repair required equipment

[X] Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

Replacement of valve	3 000\$
Replace chlorine analyzer	5 000\$
Inspect and Repair of fire hydrants	3 000\$
Inspect generator (3)	4 500\$
Calibration of flow meter	2 000\$

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
20-01	Sodium	33.3	mg/l	N/A Send letter to all citizen	

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw Well # 1	43	0 - 0	0 - <2	N/A	N/A
Raw Well # 2	43	0 - 0	0 - <2	N/A	N/A
Treated	43	0 - 0	0 - 0	43	0 - 10
Distribution	129	0 - 0	0 - 0	43	0 - 8

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity (Raw W1)	18	0.27 - 6.9
Turbidity (Raw W2)	18	0.54 - 5.35
Chlorine Combined Dist. Syst.	8760	0.62 – 2.55 *

NOTE: For continuous monitors use 8760 as the number of samples.

NOTE: Record the unit of measure if it is **not** milligrams per liter.

*Average per day of combine chlorine in distribution syst.: min. 1.63 – max. 2.09 mg/l

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	24/04/2017	< 0.0001	mg/l	No
Arsenic	24/04/2017	0.0008	mg/l	No
Barium	18/10/2017	0.658	mg/l	Half Mac
Boron	13/04/2017	0.057	mg/l	No
Cadmium	24/04/2017	< 0.00002	mg/l	No
Chromium	13/04/2017	< 0.002	mg/l	No
Fluoride	03/04/2014	0.2	mg/l	No
Mercury	17/04/2017	0.00002	mg/l	No
Selenium	24/04/2017	< 0.002	mg/l	No
Sodium	11/11/2014	33.2	mg/l	Yes
Uranium	24/04/2017	< 0.00005	mg/l	No
Nitrite	17/10/2017	< 0.1	mg/l	No
Nitrate	17/10/2017	0.3	mg/l	No

^{*}only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing			N/A
Distribution	5	0.00004-0.00062	No
Alcalinity	1	227-235 mg/l	N/A
pН	1	7.98 - 8.06	No

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
HAA (NOTE: show latest annual average)	quarterl y 2017	28.35	μg/L	No
Alachlor	24/04/17	< 0.03	μg/L	No
Aldicarb	14/04/15	< 0.3	μg/L	No
Aldrin + Dieldrin	13/04/15	< 0.02	μg/L	No
Atrazine + N-dealkylated metobolites	24/04/17	< 0.5	μg/L	No
Azinphos-methyl	24/04/17	<1	μg/L	No
Bendiocarb	13/04/15	<3	μg/L	No

Ontario Drinking-Water Systems Regulation O. Reg. 170/03

Benzene	13/04/17	<0.5	μg/L	No
Benzo(a)pyrene	24/04/17	<0.005	μg/L μg/L	No
Bromoxynil	24/04/17	<0.3	μg/L μg/L	No
Carbaryl	24/04/17	<3	μg/L μg/L	No
Carbofuran	24/04/17	<1	μg/L	No
Carbon Tetrachloride	13/04/17	<0.2	μg/L	No
Chlordane (Total)	14/04/15	<0.04	μg/L	No
Chlorpyrifos	24/04/17	<0.5	μg/L	No
Cyanazine	13/04/15	< 0.5	μg/L	No
Diazinon	24/04/17	<1	μg/L	No
Dicamba	24/04/17	<5	μg/L	No
1,2-Dichlorobenzene	13/04/17	< 0.1	μg/L	No
1,4-Dichlorobenzene	13/04/17	< 0.2	μg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	13/04/15	<0.01	μg/L	No
1,2-Dichloroethane	13/04/17	<0.1	μg/L	No
1,1-Dichloroethene (vinyldene chloride)	13/04/17	<0.1	μg/L	No
Dichloromethane	13/04/17	< 0.3	μg/L	No
2-4 Dichlorophenol	24/04/17	<0.1	μg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	24/04/17	<5	μg/L	No
Diclofop-methyl	24/04/17	< 0.5	μg/L	No
Dimethoate	24/04/17	<1	μg/L	No
Dinoseb	13/04/15	< 0.5	μg/L	No
Diquat	25/04/17	<5	μg/L	No
Diuron	24/04/17	<5	μg/L	No
Glyphosate	20/04/17	<25	μg/L	No
Heptachlor + Heptachlor Epoxide	14/04/15	< 0.1	μg/L	No
Lindane (Total)	14/04/15	< 0.1	μg/L	No
Malathion	24/04/17	<5	μg/L	No
MCPA	21/04/17	<.00012	μg/L	No
Methoxychlor	14/04/15		μg/L	No
Metolachlor	24/04/17	<3	μg/L	No
Metribuzin	24/04/17	<3	μg/L	No
Monochlorobenzene	13/04/17	<0.2	μg/L	No
Paraquat	25/04/17	<1	μg/L	No
Parathion	13/04/15	<3	μg/L	No
Pentachlorophenol	24/04/17	<0.1	μg/L	No
Phorate	24/04/17	<0.3	μg/L	No
Picloram (PCP)	24/04/17	<5	μg/L	No
Polychlorinated Biphenyls(PCB)	21/04/17	<0.05	μg/L	No
Prometryne	24/04/17	<0.1	μg/L	No
Simazine	24/04/17	<0.5	μg/L	No
THM (NOTE: show latest annual average)	quarterl y 2017	30.775	μg/L	No

Ontario Drinking-Water Systems Regulation O. Reg. 170/03

Temephos	13/04/15	<10	μg/L	No
Terbufos	24/04/17	< 0.3	μg/L	No
Tetrachloroethylene	13/04/17	< 0.2	μg/L	No
2,3,4,6-Tetrachlorophenol	24/04/17	< 0.1	μg/L	No
Triallate	24/04/17	<10	μg/L	No
Trichloroethylene	13/04/17	< 0.1	μg/L	No
2,4,6-Trichlorophenol	24/04/17	<0.1	μg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	13/04/15	<10	μg/L	No
Trifluralin	24/04/17	< 0.5	μg/L	No
Vinyl Chloride	24/04/17	<0.2	μg/L	No
Total Organic Carbon	08/04/15	4.8	Mg/l	No
Dissolved Organic Carbon	08/04/15	4.7	Mg/l	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
Barium	0.658	mg/l	18/10/2017
Sodium	33.3	mg/l	20/01/2017



February 2, 2018

Mme. Christina Des Rochers
Ministry of the Environment and Climate Change
2430 Don Reid Drive
Ottawa, ON K1H 1E1

Subject:

2017 - Annual Report for the Limoges Drinking Water System

Dear Mme Des Rochers:

Please see attached, the summary report for the Limoges Drinking Water System that covers the period from November 1, 2017 to December 31, 2017. A similar report covering the period of January 1, 2017 to October 31, 2017 has been prepared and submitted separately by the SIMO Group. SIMO has been the Operating Authority of the Limoges Drinking Water System during that period.

This summary report has been completed in accordance with O. Reg. 170/03 Schedule 22 under the Safe Drinking Water Act. The target due date for this report is March 31st, 2018.

This summary report includes quantities and flow rates of the water supplied to consumers serviced by the Limoges Drinking Water System, including monthly averages; and a comparison to the rated water supply capacity of the system.

This report is also distributed to the Members of the Municipal Council and the Board of Directors of the Nation Municipality.

Sincerely,

Nicholas Pigeon, CET

O.I.C. Water and Wastewater

Doug Renaud,

Deputy Director of Public Works

Desmond Verasammy, CET Overall Responsible Operator

In the preparation of this summary Report, we have complied with the following requirements:

- List the requirements of the Act, the Regulations, the Systems Approval, Drinking Water Works Permit, Municipal Drinking Water License, and any orders applicable to the system that were not met at any time during the period covered by the report;
- For each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measurements that were taken to correct the failure;
- A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows;
- A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system approval, drinking water works permit, or municipal drinking water license, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

Comparison:

During the period of November 1, 2017 to December 31, 2017:

- The maximum daily flow to the distribution system was 1012 m³/day. This occurred in December, and it represented 49% of the rated capacity of 2080 m³/day.
- The maximum daily flow from the wells was 1203 m³/day. This occurred in December, and it represented 58% of the rated capacity. In accordance with our PTTW # 1106-968LAR, the maximum rated flow from the wells is 24.1 L/sec or 2080 m³/day.
- The average daily distribution flow was 822 m³/day.



Drinking - Water Systems Regulation O. Reg.170/03

System Information

Drinking Water System Name:	Limoges Water Treatment Plant
Drinking Water System Number:	260006841
Drinking Water System Owner:	The Corporation of the Nation Municipality
Operathing Authority:	The Nation Municipality
Drinking Water System Category:	Large Municipal Residential
Period being reported:	Nov 1 to Dec. 31, 2017

Does your Drinking-Water System serve more than 10 000 people?	
Yes () No (X)	
Is your annual report available to the public at no charge on a web sit	a on the internet?
, , ,	e on the internet:
Yes (X) No ()	

Summary Report (170/03 Shcedule 22) will be available for inspection at:

Municipal Office
The Corporation of the Nation municipality
958 Route 500 West
Casselman, ON
K0A1M0

List all Drinking-Water System, which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Le Baron Estate	N/A

Did you provide a copy of your annual report to all Drinking Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes (X) No ()

Limoges Drinking Water System
Ontario Regulation 170/03, Section 11 Annual Report 2017

Indicate how you notified system users that your	annual report is available, and is free of charge.				
(X) Public access / Notice via the web	, ,				
() Public access / notice via government Office					
() Public access / notice via a newspaper					
() Public access / notice via Public Request					
(X) Public access / notice via a Public Library					
() Public access / notice via another method					
Describe your Drinking Water System					
The Limoges water treatment plant is a ground	water treatment and supply facility. It has a rated				
capacity of 2080 m3/day; services the Village of	Limoges, the Community of Forest Park, Le Baron				
Estate, and the Ben Tardiff Trailer Park. Raw water	er is supplied from two production wells; delivered				
via a two km watermain into an aeration tower a	at the water treatment plant. Further treatment is				
achieved in sequence by chemical oxidation and	d a dual train chemically assisted filtration process.				
Primary disinfection is achieved by chlorinat	ion followed by chloramination for secondary				
disinfection. Treated water is stored in an onsite	water tower and then pumped into the distribution				
system. All processes are fully automated and mo	onitored using a SCADA System. Operators monitor,				
log data, and maintain operationall records o	f the wells, plant, treatment processes and the				
distribution sytems. They also conduct water qua	lity sampling and testing, and system maintenance.				
The Chemical food systems consist of shamin	al pumps, storage tanks, piping and associated				
·					
	Alum, Polyelectrolyte, Sodium Hypochlorite and				
Ammoniu	m Sulphate.				
List all water treatment chemicals used over this	reporting period				
Chemical Name	Supplier				
Potassium Permanganate	Brenntag				
PAX-XL6	PAX-XL6 Kemira				
Polyelectrolyte Northland Chemicals Inc.					
Sodium Hypochlorite Brenntag					
Ammonium Sulfate Brenntag					
Were any significant expenses incurred to?					
() Install required equipment					
(X) Repair required equipment					
() Replace required equipment					

Limoges Drinking Water System Ontario Regulation 170/03, Section 11 Annual Report 2017 Please provide a brief description and a breakdown of monetary expenses incurred

Replacment of Booster Pump # 2, impeller	\$ 3,500.00
Calibration of Flow meter	\$ 1,500.00

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking Water Act or section 16-4 of schedule 16 of O.Reg.170/03 and reported to Spill Action Centre.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
None					

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of samples	Range of E.Coli Or Fecal Results (min#)-(max#)	Range of Total Coliform Results (min#)-(max#)	Number of HPC samples	Range of HPC Results (min#)-(max#)
Raw Well # 1	9	0 - 0	0 - 0	N/A	N/A
Raw Well # 2	9	0 - 0	0 - 0	N/A	N/A
Treated	9	0 - 0	0 - 0	9	< 2 - 6
Distribution	27	0 - 0	0 - 0	N/A	N/A

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of		
	Grab samples	Range of Results	For continuous monitors use
		(min#)-(max#)	8760 as the number of samples.
Turbidity (Raw W1)	4	(1,70) - (3,91)	
Turbidity (Raw W2)	4	(0,86) - (2,36)	
Chlorine Combined Dist. Syst,	8760	(1,30) - (2,45)	
Turbidity (Treated water)	8760	(0,035) - (0,049)	

<u>Note</u>: Record the unit of measure if it is not milligrams per liter. *Average per day of combine chlorine in distribution syst.; min. 1.66 - max. 2.38 mg/L.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of Legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A				

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample date	Result value (mg/L)	Limit (mg/L)	Exceedance
Antimony			0.006	
Arsenic			0.01	
Barium			1	
Boron			5	
Cadmium			0.005	
Chromium			0.05	
Fluoride			1.5	
Mercury			0.001	
Selenium			0.05	
Sodium			Health >20 reportable (Limit: 200)	
Uranium			0.02	
Nitrite			1	
Nitrate			10	

Summary of Lead testing under Schedule 15.1 during this reporting period

Location Type	Number of samples	Range of Lead Results	Range of Lead Results (min #) - (max #)		Number of Exceedance
Plumbing	N/A				N/A
Distribution	0				No
Alcalinity	0				N/A
рН	0				No

Summary of Organic parameters sampled during this reporting period or the most recent sample results

lachlor Idicarb Idrin + Dieldrin trazine + N-dealkylated metobolites		0.005 mg/L 0.003 mg/L 0.005 mg/L 0.02 mg/L	
ldrin + Dieldrin trazine + N-dealkylated metobolites		0.003 mg/L 0.005 mg/L	
trazine + N-dealkylated metobolites			
·			
-landa a marthad		0.02 mg/l	i e
zinphos-methyl		U.UZ IIIg/ L	
endiocarb			
enzene		0.001 mg/L	
enzo(a)pyrene		0.00001 mg/L	
romoxynil		0.005 mg/L	
arbaryl		0.09 mg/L	
arbofuran		0.09 mg/L	
arbon Tetrachloride		0.002 mg/L	
hlordane (Total)			
hlorpyfiros		0.09 mg/L	
yanazine			
iazinon		0.02 mg/L	
icamba		0.12 mg/L	
,2-Dichlorobenzene		0.2 mg/L	
,4-Dichlorobenzene		0.005 mg/L	
ichlorodiphenyltrichloroethane (DDT) + netabolites			
,2-Dichloroethane		0.005 mg/L	
,1-Dichloroethylene (vinyldene chloride)		0.014 mg/L	
ichloromethane		0.05 mg/L	
-4 Dichlorophenol		0.9 mgL	
,4-Dichlorophenoxy acetic acid (2,4-D)		0.1 mg/L	
iclofop-methyl		0.009 mg/L	
imethoate		0.02 mg/L	
inoseb			
iquat		0.07 mg/L	
iuron		0.15 mg/L	
lyphosate		0.28 mg/L	
eptachlor + Heptachlor Epoxide			
indane (Total)			
lalathion	 	0.19 mg/L	

Limoges Drinking Water System

Ontario Regulation 170/03, Section 11 Annual Report 2017

Parameter	Sample date	Result value	Limit	Exceedance
Methoxychlor				
Metholachlor			0.05 mg/L	
Metribuzin			0.08 mg/L	
Monochlorobenzene			0.08 mg/L	
Paraquat			0.01 mg/L	
Parathion				
Pentachlorophenol			0.06 mg/L	
Phorate			0.002 mg/L	
Picloram			0.19 mg/L	
Polychlorinated Biphenyls (PCB)			0.003 mg/L	
Prometryne			0.001 mg/L	
Simazine			0.01 mg/L	
THM (Note : show last annual average)			.1 mg/L	
Temephos				
Terbufos			0.001 mg/L	
Tetrachloroethylene			0.01 mg/L	
2,3,4,6- Tetrachlorophenol			0.1 mg/L	
Triallate			0.23 mg/L	
Trichloroethylene			0.005 mg/L	
2,4,6- Trichlorophenol			0.005 mg/L	
2,4,5- Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin			0.045 mg/L	
Vinyl Chloride			0.001 mg/L	
Total Organic Carbon				
Dissolved Organic Carbon				

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of measure	Date of sample	

Limoges Drinking Water System
Ontario Regulation 170/03, Section 11 Annual Report 2017