

January 31st, 2025

Mr. Jean-François Durocher

Water Compliance Officer
Drinking Water and Environmental Compliance Division
Ministry of the Environment, Conservation and Parks

Subject:

2024 – Annual and Summary Report for the Limoges Drinking Water System

Dear Mr Durocher:

Please see attached, the annual and summary report for the Limoges Drinking Water System that covers the period from January 1st, 2024 to December 31, 2024.

This document has been prepared in accordance with Sections 11 and 22 of Ontario Regulation 170/03 under the *Safe Drinking Water Act, 2002*. The Annual Report and Summary Report for the Limoges Drinking Water System are due by February 28, 2025.

The Annual Report includes:

- A summary of the water system's compliance with applicable legislation and regulations.
- A description of any adverse water quality incidents and corrective actions taken.

The Summary Report includes:

1. The quantities and flow rates of water supplied to consumers served by the Limoges Drinking Water System, including monthly averages.
2. A comparison of these values to the system's rated capacity to ensure compliance with regulatory requirements."

This report is also distributed to the Members of the Municipal Council.

Sincerely,



Sebastien Mainville
Water and Wastewater Manager



Nicholas Pigeon, CET
Water & Wastewater Director, ORO

In preparing this document, which includes both the Annual Report and the Summary Report, we have complied with the following requirements under Ontario Regulation 170/03:

- Identified any instances of non-compliance with the *Safe Drinking Water Act, 2002*, the Regulation, the system's approval, the Drinking Water Works Permit, the Municipal Drinking Water License, and any applicable orders during the reporting period.
- Specified the duration of each non-compliance event and the corrective actions taken (as required for both reports).
- Summarized the quantities and flow rates of water supplied, including monthly averages and maximum daily flows (as required for the Summary Report).
- Compared the flow summary to the system's rated capacity as outlined in the system approval, Drinking Water Works Permit, or Municipal Drinking Water License, or—if applicable—an agreement with another system under subsection 5(4) (Summary Report requirement).
- Included information on adverse water quality incidents and measures taken to address them (Annual Report requirement)."

Comparison:

During the period of January 1, 2024 to December 31, 2024:

- ***The maximum daily flow to the distribution*** system was 1622 m³/day. This occurred in June. On that day, 1491 m³ came from the wells and 342 m³ from Cheney (Clarence-Rockland). The 1491 m³ represented 72% of the rated capacity of 2080 m³/day, from our PTTW.
- ***The maximum daily flow from the wells*** was 1557 m³/day. This occurred in June, and it represented 75% of the rated capacity. In accordance with our PTTW # P-300-6203976113, the maximum rated flow from the wells is 24.1 L/sec or 2080 m³/day.
- ***The average daily distribution flow*** was 1140 m³/day.
 - During summer (May 1st to October 31st) months, the average daily distribution flow was 1250 m³.
 - During winter (January, February, March, April, November and December) months, the average daily distribution flow was 1029 m³.
- ***The Total water taking from the City of Clarence-Rockland*** was 131 598 m³, for an average of 360 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
Operating Authority:	The Nation Municipality
Drinking Water System Category:	Large Municipal Residential
Period being reported:	Jan. 1 to Dec. 31, 2024

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 ()

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

The Nation municipality website

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 ()

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
- Public access / notice via a Public Library
- Public access / notice via another method _____

Describe your Drinking Water System

The Limoges water treatment plant was designed as a GUDI Treatment System. It is operated as a GUDI System; treating groundwater that has the potential of being influenced by surface water. The treatment uses a conventional process; chemically assisted filtration followed by disinfection. The plant has a rated capacity of 2080 m3/day; services the Village of Limoges, the Community of Forest Park, Le Baron Estate, and the Ben Tardif Trailer Park. Raw water is supplied from two production wells; delivered via a five km watermain into an aeration basin at the water treatment plant. Further treatment is achieved in sequence by chemical oxidation and a dual train chemically assisted filtration process. Primary disinfection is achieved by chlorination followed by chloramination for secondary disinfection. Treated water is stored in two onsite water storage reservoirs and then pumped into the distribution system. The Limoges drinking water system is also being supplied with chloraminated water from the Rockland WTP in the City of Clarence-Rockland. A 10 km transmission watermain supplies water to the LWTP from Cheney. The water first reaches the Re-chlorination building north of Limoges which consists of : a chemical feed system designed to boost the chloramine level, one flow meter, two CL2 analyzers (before and after chemical injection) and one standby power generator. Water is then directed to LWTP and into the two water storage towers. All processes are fully automated and monitored using a SCADA System. Operators perform routine monitoring, and maintain operation and production records of the groundwater supply wells, the plant and treatment processes, and the distribution systems. The Operators also conduct water quality sampling and testing, and system maintenance. The system operates under the MDWL 179-102 and the DWWP 179-202.

The Chemical feed systems consist of chemical pumps, storage tanks, piping and associated appurtances to deliver treatment chemicals including potassium permanganate, Alum, Polyelectrolyte, Sodium Hypochlorite and Ammonium Sulphate.

List all water treatment chemicals used over this reporting period

Chemical Name	Supplier
Potassium Permanganate	Brenntag
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

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

Calibration of Flow meter	\$	4,600.00
Hydrant inspection & Flushing	\$	5,000.00
Calibration of analysers and instruments	\$	2,000.00
Installation of new furnace at LWTP	\$	45,000.00
SCADA and radio communication upgrade at LWTP	\$	30,000.00

Provide information on the notices submitted under subsection 18(1) of the Safe Drinking Water Act, section 16-4 of Schedule 16 of O.Reg. 170/03, or any Adverse Water Quality Incidents (AWQIs), other observations and non-compliance that occurred during the reporting year and were reported to the Spills Action Centre.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
2024-04-11	Sodium	32.9	mg/L	Took a re-sample, notified residents.	2024-04-24

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	Range of Total Coliform Results	Number of HPC samples	Range of HPC Results
		(min#)-(max#)	(min#)-(max#)		(min#)-(max#)
Raw Well # 1	53	0 - 0	0 - 0	N/A	N/A
Raw Well # 2	53	0 - 0	0 - 0	N/A	N/A
Treated	53	0 - 0	0 - 0	53	0 - 4
Distribution	265	0 - 0	0 - 0	106	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#)	<i>For continuous monitors use 8760 as the number of samples.</i>
Turbidity (Raw W1)	26	(6.03) - (16.88)	
Turbidity (Raw W2)	26	(0,20) - (3.14)	
Chlorine Combined POE,	8760	(1.87) - (2,84)	
Chlorine Combined POE,	209	(2.01) - (2,59)	
Chlorine Combined distribution	8760	(0.55) - (2,46)	
Chlorine Combined distribution	294	(0.71) - (2,69)	
Turbidity (Treated water)	195	(0,01) - (0.21)	
Turbidity (Treated water)	8760	(0,04) - (0.43)	

Note: Record the unit of measure if it is not milligrams per liter. *Average per day of combine chlorine in distribution system

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	11-Apr-24	<0.0001	0.006	No
Arsenic	11-Apr-24	<0.0001	0.01	No
Barium	17-Jan-24	0.463	1	No
Barium	11-Apr-24	0.508	1	half mac
Barium	03-Jul-24	0.495	1	No
Barium	02-Oct-24	0.516	1	half mac
Boron	11-Apr-24	0.046	5	No
Cadmium	11-Apr-24	<0.000015	0.005	No
Calcium	11-Apr-24	68.7		
Chromium	11-Apr-24	<0.0010	0.05	No
Fluoride	11-Apr-24	<0.1	1.5	No
Hardness	11-Apr-24	235		
Iron	11-Apr-24	0.005		
Magnesium	11-Apr-24	15.3		
Manganese	11-Apr-24	0.003		
Mercury	11-Apr-24	<0.00002	0.001	No
Selenium	11-Apr-24	<0.001	0.05	No
Sodium	11-Apr-24	33.5	Health >20 reportable (Limit: 200)	Yes
Sodium	11-Apr-24	32.9	Health >20 reportable (Limit: 200)	Yes
Sodium	17-Apr-24	36.2	Health >20 reportable (Limit: 200)	Yes
Uranium	11-Apr-24	<0.00005	0.02	No
Nitrite	17-Jan-24	0.05	1	No
Nitrite	11-Apr-24	0.07	1	No
Nitrite	03-Jul-24	0.05	1	No
Nitrite	02-Oct-24	0.05	1	No
Nitrate	17-Jan-24	0.32	10	No
Nitrate	11-Apr-24	0.29	10	No
Nitrate	03-Jul-24	0.31	10	No
Nitrate	02-Oct-24	0.24	10	No

Summary of Lead testing under Schedule 15.1 during this reporting period

Location Type	Number of samples	Limit	Range of Lead Results (mg/L)		Number of Exceedance
			(min #)	(max #)	
Plumbing	N/A				N/A
Distribution	6	0.1 mg/L	< 0.00002	0.00014	No
Alkalinity	6		178	200	N/A
pH	6		(7.64 - 8.15)		No

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

Parameter	Sample date	Result value (µg/L)	Conversion in mg/L	Limit (mg/L)	Exceedance
Alachlor	2024-04-11	0.3	0.0003	0.005 mg/L	no
Atrazine + N-dealkylated metabolites	2024-04-11	0.5	0.0005	0.005 mg/L	no
Azinphos-methyl	2024-04-11	1	0.0010	0.02 mg/L	no
Benzene	2024-04-11	0.5	0.0005	0.001 mg/L	no
Benzo(a)pyrene	2024-04-11	0.006	0.0000	0.00001 mg/L	no
Bromoxynil	2024-04-11	0.5	0.0005	0.005 mg/L	no
Carbaryl	2024-04-11	3	0.0030	0.09 mg/L	no
Carbofuran	2024-04-11	1	0.0010	0.09 mg/L	no
Carbon Tetrachloride	2024-04-11	0.2	0.0002	0.002 mg/L	no
Chlorpyrifos	2024-04-11	0.5	0.0005	0.09 mg/L	no
Diazinon	2024-04-11	1	0.0010	0.02 mg/L	no
Dicamba	2024-04-11	1	0.0010	0.12 mg/L	no
1,2-Dichlorobenzene	2024-04-11	0.5	0.0005	0.2 mg/L	no
1,4-Dichlorobenzene	2024-04-11	0.5	0.0005	0.005 mg/L	no
1,2-Dichloroethane	2024-04-11	0.5	0.0005	0.005 mg/L	no
1,1-Dichloroethylene (vinylidene chloride)	2024-04-11	0.5	0.0005	0.014 mg/L	no
Dichloromethane	2024-04-11	5	0.0050	0.05 mg/L	no
2-4 Dichlorophenol	2024-04-11	0.2	0.0002	0.9 mg/L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	2024-04-11	1	0.0010	0.1 mg/L	no
Diclofop-methyl	2024-04-11	0.9	0.0009	0.009 mg/L	no
Dimethoate	2024-04-11	1	0.0010	0.02 mg/L	no
Diquat	2024-04-11	5	0.0050	0.07 mg/L	no
Diuron	2024-04-11	5	0.0050	0.15 mg/L	no
Glyphosate	2024-04-11	25	0.0250	0.28 mg/L	no
Malathion	2024-04-11	5	0.0050	0.19 mg/L	no
2-Methyl-4-chlorophenoxyacetic acid (MCP)	2024-04-11	10	0.0100	0.1 mg/L	no
Metholachlor	2024-04-11	3	0.0030	0.05 mg/L	no
Metribuzin	2024-04-11	3	0.0030	0.08 mg/L	no
Monochlorobenzene	2024-04-11	0.5	0.0005	0.08 mg/L	no
Paraquat	2024-04-11	1	0.0010	0.01 mg/L	no
Pentachlorophenol	2024-04-11	0.2	0.0002	0.06 mg/L	no
Phorate	2024-04-11	0.3	0.0003	0.002 mg/L	no
Picloram	2024-04-11	5	0.0050	0.19 mg/L	no

Limoges Drinking Water System

Ontario Regulation 170/03, Section 11 Annual Report 2024

Parameter	Sample date	Result value (µg/L)	Conversion in (mg/L)	Limit (mg/L)	Exceedance
Polychlorinated Biphenyls (PCB)	2024-04-11	0.05	0.0001	0.003 mg/L	no
Prometryne	2024-04-11	0.1	0.0001	0.001 mg/L	no
Simazine	2024-04-11	0.5	0.0005	0.01 mg/L	no
Terbufos	2024-04-11	0.5	0.0005	0.001 mg/L	no
Tetrachloroethylene	2024-04-11	0.5	0.0005	0.01 mg/L	no
2,3,4,6- Tetrachlorophenol	2024-04-11	0.2	0.0002	0.1 mg/L	no
Triallate	2024-04-11	10	0.0100	0.23 mg/L	no
Trichloroethylene	2024-04-11	0.5	0.0005	0.005 mg/L	no
2,4,6- Trichlorophenol	2024-04-11	0.2	0.0002	0.005 mg/L	no
Trifluralin	2024-04-11	0.5	0.0005	0.045 mg/L	no
Vinyl Chloride	2024-04-11	0.2	0.0002	0.001 mg/L	no
Trihalomethanes (THM)	2024 RAA	37.75	0.038	0.1 mg/L	no
Haloacetic acids (HAA)	2024 RAA	22.6	0.023	0.08 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	0.508	mg/L	2024-07-11
Barium	0.516	mg/L	2024-10-02
Chloramines	2.84 (max value)	mg/L	Jan - Dec (March 6th, 2024)

Limoges Drinking Water System

Ontario Regulation 170/03, Section 11 Annual Report 2024

2024 Summary Report - Limoges Water Taking

Municipality: The Nation municipality

Facility: Limoges Water Treatment Plant and Distribution system

Classification: Class 2 Water Distribution

Water Source: Ground Water

Total Designated Capacity (m3/day): 2080

Rated Capacity (L/sec) & (L/min): 24 1440

Well # 1

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	SUM
Total Hours of Taking	299.46	232.61	231.37	319.50	428.44	462.62	458.92	409.83	392.35	372.18	356.52	381.58	
Total Amount of Taking (m3)	13371	9915	9989	12886	16602	16367	17557	15413	13844	14823	14838	16096	171699
Average Daily Taking (m3)	431	342	322	430	536	546	566	497	461	478	495	519	
% Rated Capacity (ave. daily Flow)	20.7%	16.4%	15.5%	20.6%	25.7%	26.2%	27.2%	23.9%	22%	23%	24%	25%	
Max Daily Flow (m3)	696	505	687	614	714	773	717	621	625	557	631	612	
% Rated Capacity (max daily Flow)	33.4%	24.3%	33.0%	29.5%	34.3%	37.2%	34.5%	29.8%	30%	27%	30%	29%	
Min Daily Flow (m3)	204	52	0	302	361	314	381	323	347	390	353	376	
% Rated Capacity (min daily Flow)	9.8%	2.5%	0.0%	14.5%	17.4%	15.1%	18.3%	15.5%	17%	19%	17%	18%	
Average Daily Rate of Taking (L/s)	12.23	12.04	10.65	11.05	10.60	9.70	10.31	10.41	9.59	10.79	11.38	11.58	
Peak Daily Rate of Taking (L/s)	14.01	13.88	15.57	14.12	12.39	11.83	50.00	50.00	50.00	50.00	14.85	1278.00	
% Peak Daily Rate of Taking (L/s)	58.4%	57.8%	64.9%	58.8%	51.6%	49.3%	208.3%	208.3%	208%	208%	62%	5325%	
Peak Daily Rate of Taking (L/min)	841	833	934	847	743	710	3000	3000	3000	3000	891	76680	
% Peak Daily Rate of Taking (L/min)	58.4%	57.8%	64.9%	58.8%	51.6%	49.3%	208.3%	208.3%	208.3%	208.3%	61.9%	5325.0%	
Well level (Static & Dynamic) Avg	7.56	7.67	8.14	8.23	8.12	7.83	8.10	8.13	7.93	7.60	7.43	7.30	
Min Well level (Dynamic)	7.00	7.39	7.75	7.85	7.72	7.46	7.81	7.82	7.63	7.24	7.02	6.96	
Max Well level (Static)	7.83	8.07	9.37	9.39	8.45	8.18	8.44	8.44	8.28	7.87	11.60	7.67	

Well # 2

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	SUM
Total Hours of Taking	217.40	231.00	229.68	318.40	426.94	453.51	458.24	408.33	391.85	369.68	353.49	380.52	
Total Amount of Taking (m3)	8553	8943	9297	13474	17180	17386	18892	17710	16645	14280	13628	15232	171219
Average Daily Taking (m3)	285	308	300	449	554	580	609	571	555	461	454	491	
% Rated Capacity (ave. daily Flow)	13.7%	14.8%	14.4%	21.6%	26.6%	27.9%	29.3%	27.5%	26.7%	22.1%	21.8%	23.6%	
Max Daily Flow (m3)	428	485	611	588	770	791	811	712	718	542	568	589	
% Rated Capacity (max daily Flow)	20.6%	23.3%	29.4%	28.3%	37.0%	38.0%	39.0%	34.2%	34.5%	26.1%	27.3%	28.3%	
Min Daily Flow (m3)	0	43	0	334	378	349	423	387	406	368	348	352	
% Rated Capacity (min daily Flow)	0.0%	2.1%	0.0%	16.0%	18.2%	16.8%	20.4%	18.6%	19.5%	17.7%	16.7%	16.9%	
Average Daily Rate of Taking (L/s)	79.1	10.1	9.9	11.6	11.0	10.5	11.1	11.9	11.1	10.4	10.5	11.0	
Peak Daily Rate of Taking (L/s)	13.6	15.4	13.1	12.5	14.0	13.7	12.7	16.3	13.2	15.0	14.9	13.9	
% Peak Daily Rate of Taking (L/s)	56.5%	64.3%	54.6%	52.3%	58.2%	57.0%	52.9%	68.0%	55.1%	62.3%	62.0%	58.1%	
Peak Daily Rate of Taking (L/min)	814	925	787	752	838	821	761	980	793	898	892	836	
% Peak Daily Rate of Taking (L/min)	56.5%	64.3%	54.6%	52.3%	58.2%	57.0%	52.9%	68.0%	55.1%	62.3%	62.0%	58.1%	
Well level (Static & Dynamic) Avg	7.57	7.64	8.14	8.20	8.08	7.79	8.17	8.08	8.00	7.56	7.28	7.24	
Min Well level (Dynamic)	7.17	7.34	7.69	7.79	7.65	7.37	7.73	7.77	7.56	7.19	6.98	6.90	
Max Well level (Static)	7.80	8.04	9.36	8.56	8.44	8.15	11.63	8.43	12.67	7.84	7.65	7.63	

Total Amount of Taking (m3)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg.
Total Amount of Taking (m3)	21924	18858	19286	26360	33782	33753	36448	33123	30489	29102	28466	31328	
Average Daily Taking (m3)	707	650	714	879	1090	1125	1176	1068	1016	939	949	1011	

2024 Summary Report - Limoges Water Distribution System

Municipality: The Nation municipality
Facility: Limoges Water Treatment Plant and Distribution system
Classification: Class 2 Water Distribution
Water Source: Ground Water

Serviced Population: 5200
 Total Designed Capacity (m3/day): 2080

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	SUM
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Distribution System / Flows

POE - Flows (m3/day)

Avg.	926	913	936	1046	1263	1295	1347	1272	1190	1133	1155	1198	
Max.	1038	1024	1053	1262	1574	1622	1598	1478	1343	1241	1341	1363	
Min.	861	848	840	890	847	1001	1086	1085	955	1058	1030	1109	
Total	28701	26470	29028	31378	39165	38845	41745	39427	35709	35128	34656	37139	

Water taken from Clarence-Rockland (transmission main)

Avg.	353.58	402.29	419.06	309.96	350.06	351.47	358.63	367.73	352.92	348.15	361.06	340.52	
Max.	356.71	640.81	831.38	353.55	366.25	358.93	376.45	374.74	362.07	352.75	377.64	368.34	
Min.	350.95	346.19	11.37	302.95	313.52	340.31	350.10	361.76	309.14	336.61	326.54	240.08	
Total	10961	11667	12991	9299	10852	10544	11118	11400	10588	10793	10832	10556	

Forest Park - Booster - Flows (m3/day)

Avg.	117.12	116.37	115.50	126.51	145.20	140.91	138.85	131.28	142.94	124.37	115.67	121.76	
Max.	134.05	134.43	136.91	159.96	232.15	229.57	169.54	153.20	171.24	143.94	137.37	271.18	
Min.	104.83	102.72	101.60	110.20	112.16	101.81	119.12	115.46	118.46	108.04	101.64	0.00	
Total	3631	3375	3580	3795	4501	4227	4304	4070	4288	3856	3470	3775	

Distribution System / Health - Chlorine Residuals POE - Online

Minimum Total Cl2 (mg/L)

Avg.	2.29	2.28	2.38	2.34	2.42	2.30	2.23	2.31	2.15	2.22	2.25	2.33	
Min.	2.02	1.94	2.17	2.13	2.22	2.12	2.13	2.19	1.98	2.14	2.11	2.14	

Maximum Total Cl2 (mg/L)

Avg.	2.40	2.43	2.59	2.51	2.59	2.45	2.35	2.44	2.29	2.35	2.40	2.48	
Max.	2.49	2.57	2.91	2.65	2.75	2.6	2.51	2.57	2.6	2.47	2.53	2.58	

Minimum Free Cl2 (mg/L)

Avg.	0.05	0.05	0.06	0.06	0.06	0.07	0.08	0.08	0.07	0.07	0.06	0.06	
Min.	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.01	0.06	0.06	0.04	0.03	

Maximum Free Cl2 (mg/L)

Avg.	0.09	0.09	0.10	0.10	0.10	0.12	0.11	0.12	0.11	0.11	0.10	0.10	
Max.	0.1	0.11	0.11	0.11	0.11	0.13	0.13	0.13	0.13	0.12	0.12	0.16	

Minimum Combined Cl2 (mg/L)

Avg.	2.21	2.20	2.31	2.26	2.33	2.21	2.14	2.20	2.05	2.13	2.17	2.25	
Min.	1.95	1.87	2.09	2.05	2.15	2.02	2.04	1.99	1.88	2.04	2.03	2.02	

Maximum Combined Cl2 (mg/L)

Avg.	2.33	2.36	2.51	2.43	2.51	2.36	2.26	2.34	2.21	2.27	2.33	2.41	
Max.	2.42	2.5	2.84	2.58	2.67	2.53	2.42	2.47	2.52	2.4	2.46	2.55	

Mean Combined Cl2 (mg/L)

Avg.	2.26	2.29	2.42	2.33	2.41	2.28	2.19	2.27	2.12	2.19	2.25	2.32	
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Mean Free Cl2 (mg/L)

Avg.	0.07	0.31	0.07	0.07	0.08	0.09	0.09	0.10	0.09	0.08	0.07	0.08	
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Mean Total Cl2 (mg/L)

Avg.	2.33	2.36	2.49	2.41	2.49	2.37	2.29	2.37	2.21	2.27	2.32	2.39	
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