

SUMMARY REPORT

ONTARIO REGULATION 170/03
SCHEDULE 22

ERIN DRINKING WATER SYSTEM

FOR THE PERIOD:
JANUARY 1, 2020 – DECEMBER 31, 2020

*Prepared for the Town of Erin
by the Ontario Clean Water Agency*



ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

SUMMARY REPORTS FOR MUNICIPALITIES

Period from: JANUARY 01, 2020 – DECEMBER 31, 2020

DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

DRINKING-WATER SYSTEM NAME:	ERIN DRINKING WATER SYSTEM
DRINKING-WATER SYSTEM NUMBER:	220000013
DRINKING-WATER SYSTEM CATEGORY:	LARGE MUNICIPAL RESIDENTIAL
DRINKING-WATER WORKS PERMIT #:	102-201, Issue #3 – Issued: November 2, 2020
MUNICIPAL DRINKING WATER LICENCE #:	102-101, Issue #4 – Issued: November 2, 2020 Expiry: November 1, 2025
PERMIT TO TAKE WATER #:	8112-9CPNNW – Issued: January 12, 2009 Expiry: October 31, 2023

REPORT:

This report is a summary of water quality information for the Erin Water Supply, published in accordance with Schedule 22 of Ontario's Drinking-Water System Regulation 170/03 for the reporting period of **January 1, 2020 to December 31, 2020**.

This report was prepared by the Ontario Clean Water Agency on behalf of the Town of Erin.

Issues of Non-Compliance

The following outlines any instances when the DWS failed to meet the requirements of the Act, Regulations, System Approval(s) and any Order during this reporting period and the measures taken to correct each failure.

There were no instances of non-compliance this reporting year.

The Erin Drinking Water System was last inspected by the Ministry of the Environment, Conservation, and Parks on December 17, 2020.

Please refer to the Section 11 Annual Report for the Erin Drinking Water System for information regarding Adverse Water Quality Incident(s) which may have occurred during the reporting period.

SUMMARY REPORTS FOR MUNICIPALITIES

Period from: JANUARY 01, 2020 – DECEMBER 31, 2020

DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

SYSTEM PERFORMANCE:

The following tables list the quantities and flow rates of the water supplied during the reporting period covered by this report, including each raw water well and the treated water system. It includes the monthly average, maximum daily flows and a comparison to the rated capacity and flow rates specified in the system approval.

Table 1: Erin DWS – Maximum Allowable Volume and Flow Rate, and Rated Capacity				
Erin Well Supply	Well E7	Well E8	Treated E7	Treated E8
Design Capacity (m ³ /day)	2160.00	1968.00	2592.00	2362.00
Approved Maximum Flow Rate (L/min)	1800.00	1640.00	-	-
Average Day Flow (m ³ /day)	403.09	353.59	407.03	355.52
Maximum Day Flow (m ³ /day)	1546.67	1477.26	1578.15	1420.29
% Average Day Flow/Design Capacity	18.66	17.97	15.70	15.05
% Maximum Day Flow/Design Capacity	71.61	75.06	60.89	60.13
Average Peak Flow Rate (L/min)	1465.60	1224.39	-	-
Maximum Peak Flow Rate (L/min)	1783.20	1559.52	-	-
% Average Peak Flow Rate/Approved	81.42	74.66	-	-
% Maximum Peak Flow Rate/Approved	99.07	95.09	-	-

A review of flow information for the period of January 1, 2020 to December 31, 2020 indicates that:

- The maximum daily volume specified in the PTTW was not exceeded on any well.
- The drinking water system did not exceed the rated capacity for the maximum treated volume of treated water that flows from the treatment subsystem to the distribution system as specified in the MDWL.

Table 2: Facility Flow Summary for Treated Water E7				
Treated				
Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Max Percent Rated Capacity (%)
January	11249.64	387.92	723.48	27.91
February	12717.62	438.54	669.50	25.83
March	17622.15	568.46	924.01	35.65
April	11080.73	369.36	703.89	27.16
May	10723.59	357.45	721.11	27.82
June	11768.00	392.27	920.43	35.51
July	20327.22	655.72	1578.15	60.89
August	13413.65	432.70	1036.57	39.99

SUMMARY REPORTS FOR MUNICIPALITIES

Period from: JANUARY 01, 2020 – DECEMBER 31, 2020

DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

September	7075.92	235.86	675.98	26.08
October	10743.68	346.57	743.93	28.70
November	10711.89	357.06	640.80	24.72
December	10616.35	342.46	696.12	26.86
Total	148050.40			
Avg		407.03		
Max			1578.15	60.89

Table 3: Facility Flow Summary for Treated Water E8

Treated				
Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Max Percent Rated Capacity (%)
January	6346.92	218.86	356.63	15.10
February	6146.07	211.93	374.17	15.84
March	3264.08	105.29	282.19	11.95
April	8667.70	288.92	503.11	21.30
May	13380.04	446.00	1375.27	58.22
June	17609.73	586.99	1420.29	60.13
July	13714.56	442.41	1417.04	59.99
August	13269.52	428.05	1015.85	43.01
September	14507.44	483.58	753.17	31.89
October	12153.60	392.05	796.26	33.71
November	9263.26	308.78	613.25	25.97
December	10953.21	353.33	647.47	27.41
Total	129276.10			
Avg		355.52		
Max			1420.29	60.13

The following tables outline the detailed flow summary for each Raw Water Well:

Table 4: Facility Flow Summary for Raw Water Source E7

Well E7						
Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Max Percent Water Taking Limits (%)	Daily Flow Peak Flow Rate (L/sec)	Number of Days of Water Taking
January	12088.15	386.49	698.86	32.35	1447.44	31
February	12538.25	432.35	693.77	32.12	1452.24	29

SUMMARY REPORTS FOR MUNICIPALITIES

Period from: JANUARY 01, 2020 – DECEMBER 31, 2020

DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

March	17477.33	563.78	860.50	39.84	1783.20	31
April	10919.25	363.98	707.16	32.74	1459.20	30
May	10648.80	354.96	822.66	38.09	1433.76	30
June	11591.11	386.37	914.69	42.35	1430.16	30
July	20070.55	647.44	1546.67	71.61	1436.64	31
August	13294.30	428.85	1023.76	47.40	1426.00	31
September	7241.66	241.39	700.88	32.45	1432.32	30
October	10602.32	342.01	753.21	34.87	1421.04	31
November	10576.28	352.54	663.29	30.71	1428.24	30
December	10443.70	336.89	654.42	30.30	1437.00	31
Total	147491.70					365
Avg		403.09			1465.60	
Max			1546.67	71.61	1783.20	

Table 5: Facility Flow Summary for Raw Water Source E8

Well E8

Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Max Percent Water Taking Limits (%)	Daily Flow Peak Flow Rate (L/sec)	Number of Days of Water Taking
January	6507.89	213.51	344.28	17.49	727.20	31
February	6197.16	213.70	429.02	21.80	672.96	29
March	3159.16	101.91	341.77	17.37	1282.32	31
April	8747.33	291.58	518.42	26.34	1559.52	30
May	13263.24	442.11	1395.18	70.89	1292.88	30
June	17441.57	581.39	1477.26	75.06	1293.84	30
July	13637.76	439.93	1427.09	72.51	1302.96	31
August	13176.41	425.05	984.22	50.01	1308.00	31
September	14456.63	481.89	764.91	38.87	1311.84	30
October	12139.03	391.58	792.61	40.27	1311.00	31
November	9214.52	307.15	598.40	30.41	1312.56	30
December	10953.01	353.32	698.85	35.51	1317.60	31
Total	128893.70					365
Avg		353.59			1224.39	
Max			1477.26	75.06	1559.52	