



MISSISSIPPI MILLS DRINKING WATER SYSTEM

2013 SUMMARY REPORT FOR MUNICIPALITIES

Schedule 22 of O. Reg. 170/03

&

Section 11 of O. Reg. 170/03

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Annual Record of Water Taking of O. Reg. 387/04



**Ontario Clean Water Agency
Agence Ontarienne Des Eaux**

Foreword

This document contains three different annual reports required for the Mississippi Mills (Almonte) Drinking Water System:

These reports are the:

- Section 11 Annual Report as per section 11 of Ontario Regulation 170/03
- Summary Report as per Schedule 22 of the Ontario Regulation 170/03
- Summary of the raw water taking that were submitted to the Ministry of the Environment under the Ontario Regulation 387/04 (Water Taking and Transfer)

Section 12 of O. Reg. 170/03 requires both the Summary Report and the Annual Report be made available for inspection by any member of the public during normal business hours, without charge. These reports are to be made available for inspection at the office of the municipality.

Section 11 Report

As per

O. Reg. 170/03

Drinking-Water Systems Regulation O. Reg. 170/03 Section 11 Annual Report

System Information

Drinking-Water System Name:	Mississippi Mills Drinking Water System
Drinking-Water System Number:	220001290
Drinking-Water System Owner:	The Corporation of the Town of Mississippi Mills
Operating Authority:	Ontario Clean Water Agency
Drinking-Water System Category:	Large, municipal, residential
Period being reported:	January 01 – December 31, 2013

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

**Town of Mississippi Mills
Municipal Office
3131 Old Perth Rd.
Almonte, Ontario.
K0A 1A0
www.mississippimills.ca**

List all Drinking Water Systems which receive all of their drinking water from your system:

Name	Drinking Water System Number
No other system receives water from the Mississippi Mills Drinking Water System.	

Provide a brief description of the system:

The Mississippi Mills Drinking Water System is a ground water system consisting of five (5) non-GUDI* wells. Sodium hypochlorite is used for disinfection.

* GUDI – Ground water Under the Direct Influence of surface water

Does your Drinking-Water System serve more than 10,000 people?

YES

NO

If yes, is your annual report available to the public at no charge on a web site on the internet?

YES

NO

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

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 other method: _____

Water Treatment Chemicals were used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of any reports made to the Ministry under subsection 18 (1) of the Act or section 16-4 of Schedule 16 and reported to Spills Action Centre:

Date: 2013	AWQI #	Parameter	Results	Units of Measure	Corrective Action	Date of Corrective Action
July 15	112635	Sodium	Well 3	44 mg/L	resample	July 22
			Well 5	57 mg/L	resample	July 22
			Well 7&8	40 mg/L	resample	July 22

Regulatory Sample Results Summary

Operational Testing (170/03, Sch.7, Sch.8 or Sch.9):

Parameter	Location	Number of Grab Samples	Results	
			Range (min-max)	Average
Raw Water Turbidity (NTU)	Well 3	8760	0.01 – 2.0	0.057
	Well 5	8760	0.03 – 2.0	0.257
	Well 6	8760	ND – 2.0	0.261
	Well 7	8760	ND – 2.0	0.074
	Well 8	8760	0.01 – 2.0	0.069
Treated Water Free Chlorine Residual (mg/L)	Well 3	8760	0.35 – 2.0	1.04
	Well 5	8760	0.45 – 2.0	1.14
	Well 6	8760	0.39 – 2.0	1.13
	Well 7&8 Combined	8760	0.61 – 1.97	1.10
Distribution Free Chlorine Residual (mg/L)	Gemmill's Bay PS	8760	0.5 – 1.46	0.916
	Various locations throughout the distribution system	190	0.29 – 1.4	0.88

NOTE: 8760 denotes results from continuous monitors

ND = not detectable

Microbiological Testing (170/03, Sch.10, Sch.11 or Sch.12):

Location	Number of Samples	Range of E. Coli Results (min #) - (max #)	Range of Total Coliform Results (min #) - (max #)	Number of HPC Samples	Range of HPC Results (min #) - (max #)
Raw - RW3	53	0 - 0	0 - 0		
Raw - RW5	53	0 - 0	0 - 0		
Raw - RW6	54	0 - 0	0 - 0		
Raw - RW7	54	0 - 0	0 - 160		
Raw - RW8	53	0 - 0	0 - 0		
Treated - TW3	53	0 - 0	0 - 0	52	0 - 9
Treated - TW5	53	0 - 0	0 - 0	52	0 - 7
Treated - TW6	53	0 - 0	0 - 0	52	0 - 6
Treated - TW7	4	0 - 0	0 - 0	4	0 - 2
Treated - TW78	49	0 - 0	0 - 0	48	0 - 20
Treated - TW8	4	0 - 0	0 - 0	4	0 - 2
Distribution - DW	190	0 - 0	0 - 0	53	0 - 8

E-Coli & Total Coliform results are reported in cfu/100 mL

HPC (Heterotrophic Plate Count) results are reported in cfu/1 mL

cfu = colony forming unit

Summary of organic and inorganic parameters tested or most recent sample result:

Parameter	Sample Date	Sample Result	Exceedance
Antimony: Sb (ug/L) - TW3	2012/07/17	< 0.50	No
Antimony: Sb (ug/L) - TW5	2012/07/17	< 0.50	No
Antimony: Sb (ug/L) - TW6	2012/10/15	< 0.50	No
Antimony: Sb (ug/L) - TW78	2012/07/17	< 0.50	No
Arsenic: As (ug/L) - TW3	2012/07/17	< 1.00	No
Arsenic: As (ug/L) - TW5	2012/07/17	< 1.00	No
Arsenic: As (ug/L) - TW6	2012/10/15	< 1.00	No
Arsenic: As (ug/L) - TW78	2012/07/17	< 1.00	No
Barium: Ba (ug/L) - TW3	2012/07/17	120.00	No
Barium: Ba (ug/L) - TW5	2012/07/17	170.00	No
Barium: Ba (ug/L) - TW6	2012/10/15	100.00	No
Barium: Ba (ug/L) - TW78	2012/07/17	160.00	No
Boron: B (ug/L) - TW3	2012/07/17	240.00	No
Boron: B (ug/L) - TW5	2012/07/17	50.00	No
Boron: B (ug/L) - TW6	2012/10/15	220.00	No
Boron: B (ug/L) - TW78	2012/07/17	180.00	No
Cadmium: Cd (ug/L) - TW3	2012/07/17	< 0.10	No
Cadmium: Cd (ug/L) - TW5	2012/07/17	< 0.10	No
Cadmium: Cd (ug/L) - TW6	2012/10/15	< 0.10	No
Cadmium: Cd (ug/L) - TW78	2012/07/17	< 0.10	No
Chromium: Cr (ug/L) - TW3	2012/07/17	3.00	No
Chromium: Cr (ug/L) - TW5	2012/07/17	4.00	No
Chromium: Cr (ug/L) - TW6	2012/10/15	2.00	No
Chromium: Cr (ug/L) - TW78	2012/07/17	2.00	No
Lead: Pb (ug/L) -	Please refer to lead sampling table below.		
Mercury: Hg (ug/L) - TW3	2012/07/17	< 0.10	No
Mercury: Hg (ug/L) - TW5	2012/07/17	< 0.10	No
Mercury: Hg (ug/L) - TW6	2012/10/15	< 0.10	No
Mercury: Hg (ug/L) - TW78	2012/07/17	< 0.10	No
Selenium: Se (ug/L) - TW3	2012/07/17	< 1.00	No
Selenium: Se (ug/L) - TW5	2012/07/17	< 1.00	No
Selenium: Se (ug/L) - TW6	2012/10/15	< 1.00	No
Selenium: Se (ug/L) - TW78	2012/07/17	< 10.00	No
Sodium: Na (mg/L) - TW3	2013/07/15	44.00	Yes
Sodium: Na (mg/L) - TW5	2013/07/15	57.00	Yes
Sodium: Na (mg/L) - TW78	2013/07/15	40.00	Yes
Sodium: Na (mg/L) - TW3 - resample	2013/07/22	41.00	Yes
Sodium: Na (mg/L) - TW5 - resample	2013/07/22	55.00	Yes
Sodium: Na (mg/L) - TW6	2010/02/22	52.00	Yes
Sodium: Na (mg/L) - TW78 - resample	2013/07/22	39.00	Yes
Uranium: U (ug/L) - TW3	2012/07/17	< 1.00	No

Uranium: U (ug/L) - TW5	2012/07/17	< 1.00	No
Uranium: U (ug/L) - TW6	2012/10/15	< 1.00	No
Uranium: U (ug/L) - TW78	2012/07/17	< 1.00	No
Fluoride Residual: Mean (mg/L) - TW3	2012/04/10	0.29	No
Fluoride Residual: Mean (mg/L) - TW5	2012/04/10	0.19	No
Fluoride Residual: Mean (mg/L) - TW6	2012/04/10	0.41	No
Fluoride Residual: Mean (mg/L) - TW78	2012/04/10	0.33	No
Nitrite (mg/L) - TW3	2013/01/07	< 0.10	No
Nitrite (mg/L) - TW3	2013/04/22	< 0.10	No
Nitrite (mg/L) - TW3	2013/07/10	< 0.10	No
Nitrite (mg/L) - TW3	2013/10/08	< 0.10	No
Nitrite (mg/L) - TW5	2013/01/07	< 0.10	No
Nitrite (mg/L) - TW5	2013/04/22	< 0.10	No
Nitrite (mg/L) - TW5	2013/07/10	< 0.10	No
Nitrite (mg/L) - TW5	2013/10/08	< 0.10	No
Nitrite (mg/L) - TW6	2013/01/07	< 0.10	No
Nitrite (mg/L) - TW6	2013/04/22	< 0.10	No
Nitrite (mg/L) - TW6	2013/07/10	< 0.10	No
Nitrite (mg/L) - TW6	2013/10/08	< 0.10	No
Nitrite (mg/L) - TW7	2013/10/08	< 0.10	No
Nitrite (mg/L) - TW78	2013/01/07	< 0.10	No
Nitrite (mg/L) - TW78	2013/04/22	< 0.10	No
Nitrite (mg/L) - TW78	2013/07/10	< 0.10	No
Nitrite (mg/L) - TW8	2013/10/08	< 0.10	No
Nitrate (mg/L) - TW3	2013/01/07	0.35	No
Nitrate (mg/L) - TW3	2013/04/22	0.20	No
Nitrate (mg/L) - TW3	2013/07/10	0.39	No
Nitrate (mg/L) - TW3	2013/10/08	0.58	No
Nitrate (mg/L) - TW5	2013/01/07	0.20	No
Nitrate (mg/L) - TW5	2013/04/22	0.49	No
Nitrate (mg/L) - TW5	2013/07/10	0.42	No
Nitrate (mg/L) - TW5	2013/10/08	0.52	No
Nitrate (mg/L) - TW6	2013/01/07	0.66	No
Nitrate (mg/L) - TW6	2013/04/22	0.56	No
Nitrate (mg/L) - TW6	2013/07/10	0.52	No
Nitrate (mg/L) - TW6	2013/10/08	0.69	No
Nitrate (mg/L) - TW7	2013/10/08	1.24	No
Nitrate (mg/L) - TW78	2013/01/07	0.74	No
Nitrate (mg/L) - TW78	2013/04/22	1.22	No
Nitrate (mg/L) - TW78	2013/07/10	1.81	No
Nitrate (mg/L) - TW8	2013/10/08	1.29	No

Parameter	Sample Date	Result Value	Exceedance
Alachlor (ug/L) - TW3	2012/07/17	< 0.50	No
Alachlor (ug/L) - TW5	2012/07/17	< 0.50	No
Alachlor (ug/L) - TW6	2012/10/15	< 0.50	No
Alachlor (ug/L) - TW78	2012/07/17	< 0.50	No
Aldicarb (ug/L) - TW3	2012/07/17	< 9.00	No
Aldicarb (ug/L) - TW5	2012/07/17	< 9.00	No
Aldicarb (ug/L) - TW6	2012/10/15	< 9.00	No
Aldicarb (ug/L) - TW78	2012/07/17	< 9.00	No
Aldrin + Dieldrin (ug/L) - TW3	2012/07/17	< 0.010	No
Aldrin + Dieldrin (ug/L) - TW5	2012/07/17	< 0.010	No
Aldrin + Dieldrin (ug/L) - TW6	2012/10/15	< 0.010	No
Aldrin + Dieldrin (ug/L) - TW78	2012/07/17	< 0.010	No
Atrazine + N-dealkylated metabolites (ug/L) - TW3	2012/07/17	< 0.20	No
Atrazine + N-dealkylated metabolites (ug/L) - TW5	2012/07/17	< 0.20	No
Atrazine + N-dealkylated metabolites (ug/L) - TW6	2012/10/15	< 0.20	No
Atrazine + N-dealkylated metabolites (ug/L) - TW78	2012/07/17	< 0.20	No
Azinphos-methyl (ug/L) - TW3	2012/07/17	< 2.00	No
Azinphos-methyl (ug/L) - TW5	2012/07/17	< 2.00	No
Azinphos-methyl (ug/L) - TW6	2012/10/15	< 2.00	No
Azinphos-methyl (ug/L) - TW78	2012/07/17	< 2.00	No
Bendiocarb (ug/L) - TW3	2012/07/17	< 2.00	No
Bendiocarb (ug/L) - TW5	2012/07/17	< 2.00	No
Bendiocarb (ug/L) - TW6	2012/10/15	< 2.00	No
Bendiocarb (ug/L) - TW78	2012/07/17	< 2.00	No
Benzene (ug/L) - TW3	2012/07/17	< 0.50	No
Benzene (ug/L) - TW5	2012/07/17	< 0.50	No
Benzene (ug/L) - TW6	2012/10/15	< 0.50	No
Benzene (ug/L) - TW78	2012/07/17	< 0.50	No
Benzo(a)pyrene (ug/L) - TW3	2012/07/17	< 0.010	No
Benzo(a)pyrene (ug/L) - TW5	2012/07/17	< 0.010	No
Benzo(a)pyrene (ug/L) - TW6	2012/10/15	< 0.010	No
Benzo(a)pyrene (ug/L) - TW78	2012/07/17	< 0.010	No
Bromoxynil (ug/L) - TW3	2012/07/17	< 0.50	No
Bromoxynil (ug/L) - TW5	2012/07/17	< 0.50	No
Bromoxynil (ug/L) - TW6	2012/10/15	< 0.50	No
Bromoxynil (ug/L) - TW78	2012/07/17	< 0.50	No
Carbaryl (ug/L) - TW3	2012/07/17	< 5.00	No
Carbaryl (ug/L) - TW5	2012/07/17	< 5.00	No
Carbaryl (ug/L) - TW6	2012/10/15	< 5.00	No
Carbaryl (ug/L) - TW78	2012/07/17	< 5.00	No
Carbofuran (ug/L) - TW3	2012/07/17	< 5.00	No

Carbofuran (ug/L) - TW5	2012/07/17	< 5.00	No
Carbofuran (ug/L) - TW6	2012/10/15	< 5.00	No
Carbofuran (ug/L) - TW78	2012/07/17	< 5.00	No
Carbon Tetrachloride (ug/L) - TW3	2012/07/17	< 0.20	No
Carbon Tetrachloride (ug/L) - TW5	2012/07/17	< 0.20	No
Carbon Tetrachloride (ug/L) - TW6	2012/10/15	< 0.20	No
Carbon Tetrachloride (ug/L) - TW78	2012/07/17	< 0.20	No
Chlordane:Total (ug/L) - TW3	2012/07/17	< 0.020	No
Chlordane:Total (ug/L) - TW5	2012/07/17	< 0.020	No
Chlordane:Total (ug/L) - TW6	2012/10/15	< 0.020	No
Chlordane:Total (ug/L) - TW78	2012/07/17	< 0.020	No
Chlorpyrifos (ug/L) - TW3	2012/07/17	< 1.00	No
Chlorpyrifos (ug/L) - TW5	2012/07/17	< 1.00	No
Chlorpyrifos (ug/L) - TW6	2012/10/15	< 1.00	No
Chlorpyrifos (ug/L) - TW78	2012/07/17	< 1.00	No
Cyanazine (ug/L) - TW3	2012/07/17	< 1.00	No
Cyanazine (ug/L) - TW5	2012/07/17	< 1.00	No
Cyanazine (ug/L) - TW6	2012/10/15	< 1.00	No
Cyanazine (ug/L) - TW78	2012/07/17	< 1.00	No
Diazinon (ug/L) - TW3	2012/07/17	< 1.00	No
Diazinon (ug/L) - TW5	2012/07/17	< 1.00	No
Diazinon (ug/L) - TW6	2012/10/15	< 1.00	No
Diazinon (ug/L) - TW78	2012/07/17	< 1.00	No
Dicamba (ug/L) - TW3	2012/07/17	< 1.00	No
Dicamba (ug/L) - TW5	2012/07/17	< 1.00	No
Dicamba (ug/L) - TW6	2012/10/15	< 1.00	No
Dicamba (ug/L) - TW78	2012/07/17	< 1.00	No
1,2-Dichlorobenzene (ug/L) - TW3	2012/07/17	< 0.40	No
1,2-Dichlorobenzene (ug/L) - TW5	2012/07/17	< 0.40	No
1,2-Dichlorobenzene (ug/L) - TW6	2012/10/15	< 0.40	No
1,2-Dichlorobenzene (ug/L) - TW78	2012/07/17	< 0.40	No
1,4-Dichlorobenzene (ug/L) - TW3	2012/07/17	< 0.40	No
1,4-Dichlorobenzene (ug/L) - TW5	2012/07/17	< 0.40	No
1,4-Dichlorobenzene (ug/L) - TW6	2012/10/15	< 0.40	No
1,4-Dichlorobenzene (ug/L) - TW78	2012/07/17	< 0.40	No
Dichlorodiphenyltrichloroethane(DDT) + metabolites (ug/L) - TW3	2012/07/17	< 0.020	No
Dichlorodiphenyltrichloroethane(DDT) + metabolites (ug/L) - TW5	2012/07/17	< 0.020	No
Dichlorodiphenyltrichloroethane(DDT) + metabolites (ug/L) - TW6	2012/10/15	< 0.020	No
Dichlorodiphenyltrichloroethane(DDT) + metabolites (ug/L) - TW78	2012/07/17	< 0.020	No
1,2-Dichloroethane (ug/L) - TW3	2012/07/17	< 0.20	No
1,2-Dichloroethane (ug/L) - TW5	2012/07/17	< 0.20	No
1,2-Dichloroethane (ug/L) - TW6	2012/10/15	< 0.20	No
1,2-Dichloroethane (ug/L) - TW78	2012/07/17	< 0.20	No

1,1-Dichloroethylene (ug/L) - TW3	2012/07/17	< 0.50	No
1,1-Dichloroethylene (ug/L) - TW5	2012/07/17	< 0.50	No
1,1-Dichloroethylene (ug/L) - TW6	2012/10/15	< 0.50	No
1,1-Dichloroethylene (ug/L) - TW78	2012/07/17	< 0.50	No
Dichloromethane (ug/L) - TW3	2012/07/17	< 4.00	No
Dichloromethane (ug/L) - TW5	2012/07/17	< 4.00	No
Dichloromethane (ug/L) - TW6	2012/10/15	< 4.00	No
Dichloromethane (ug/L) - TW78	2012/07/17	< 4.00	No
2,4-Dichlorophenol (ug/L) - TW3	2012/07/17	< 0.50	No
2,4-Dichlorophenol (ug/L) - TW5	2012/07/17	< 0.50	No
2,4-Dichlorophenol (ug/L) - TW6	2012/10/15	< 0.50	No
2,4-Dichlorophenol (ug/L) - TW78	2012/07/17	< 0.50	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW3	2012/07/17	< 1.00	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW5	2012/07/17	< 1.00	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW6	2012/10/15	< 1.00	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW78	2012/07/17	< 1.00	No
Diclofop-methyl (ug/L) - TW3	2012/07/17	< 0.90	No
Diclofop-methyl (ug/L) - TW5	2012/07/17	< 0.90	No
Diclofop-methyl (ug/L) - TW6	2012/10/15	< 0.90	No
Diclofop-methyl (ug/L) - TW78	2012/07/17	< 0.90	No
Dimethoate (ug/L) - TW3	2012/07/17	< 2.50	No
Dimethoate (ug/L) - TW5	2012/07/17	< 2.50	No
Dimethoate (ug/L) - TW6	2012/10/15	< 2.50	No
Dimethoate (ug/L) - TW78	2012/07/17	< 2.50	No
Dinoseb (ug/L) - TW3	2012/07/17	< 1.00	No
Dinoseb (ug/L) - TW5	2012/07/17	< 1.00	No
Dinoseb (ug/L) - TW6	2012/10/15	< 1.00	No
Dinoseb (ug/L) - TW78	2012/07/17	< 1.00	No
Diquat (ug/L) - TW3	2012/07/17	< 5.00	No
Diquat (ug/L) - TW5	2012/07/17	< 5.00	No
Diquat (ug/L) - TW6	2012/10/15	< 5.00	No
Diquat (ug/L) - TW78	2012/07/17	< 5.00	No
Diuron (ug/L) - TW3	2012/07/17	< 10.00	No
Diuron (ug/L) - TW5	2012/07/17	< 10.00	No
Diuron (ug/L) - TW6	2012/10/15	< 10.00	No
Diuron (ug/L) - TW78	2012/07/17	< 10.00	No
Glyphosate (ug/L) - TW3	2012/07/17	< 10.00	No
Glyphosate (ug/L) - TW5	2012/07/17	< 10.00	No
Glyphosate (ug/L) - TW6	2012/10/15	< 10.00	No
Glyphosate (ug/L) - TW78	2012/07/17	< 10.00	No
Heptachlor+Hepachlor Epoxide (ug/L) - TW3	2012/07/17	< 0.010	No
Heptachlor+Hepachlor Epoxide (ug/L) - TW5	2012/07/17	< 0.010	No

Heptachlor+Hepachlor Epoxide (ug/L) - TW6	2012/10/15	< 0.010	No
Heptachlor+Hepachlor Epoxide (ug/L) - TW78	2012/07/17	< 0.010	No
Lindane: (ug/L) - TW3	2012/07/17	< 0.010	No
Lindane: (ug/L) - TW5	2012/07/17	< 0.010	No
Lindane: (ug/L) - TW6	2012/10/15	< 0.010	No
Lindane: (ug/L) - TW78	2012/07/17	< 0.010	No
Malathion (ug/L) - TW3	2012/07/17	< 5.00	No
Malathion (ug/L) - TW5	2012/07/17	< 5.00	No
Malathion (ug/L) - TW6	2012/10/15	< 5.00	No
Malathion (ug/L) - TW78	2012/07/17	< 5.00	No
Methoxychlor (ug/L) - TW3	2012/07/17	< 0.010	No
Methoxychlor (ug/L) - TW5	2012/07/17	< 0.010	No
Methoxychlor (ug/L) - TW6	2012/10/15	< 0.010	No
Methoxychlor (ug/L) - TW78	2012/07/17	< 0.010	No
Metolachlor (ug/L) - TW3	2012/07/17	< 0.50	No
Metolachlor (ug/L) - TW5	2012/07/17	< 0.50	No
Metolachlor (ug/L) - TW6	2012/10/15	< 0.50	No
Metolachlor (ug/L) - TW78	2012/07/17	< 0.50	No
Metribuzin (ug/L) - TW3	2012/07/17	< 5.00	No
Metribuzin (ug/L) - TW5	2012/07/17	< 5.00	No
Metribuzin (ug/L) - TW6	2012/10/15	< 5.00	No
Metribuzin (ug/L) - TW78	2012/07/17	< 5.00	No
Monochlorobenzene (ug/L) - TW3	2012/07/17	< 0.20	No
Monochlorobenzene (ug/L) - TW5	2012/07/17	< 0.20	No
Monochlorobenzene (ug/L) - TW6	2012/10/15	< 0.20	No
Monochlorobenzene (ug/L) - TW78	2012/07/17	< 0.20	No
Paraquat (ug/L) - TW3	2012/07/17	< 5.00	No
Paraquat (ug/L) - TW5	2012/07/17	< 5.00	No
Paraquat (ug/L) - TW6	2012/10/15	< 5.00	No
Paraquat (ug/L) - TW78	2012/07/17	< 5.00	No
Parathion (ug/L) - TW3	2012/07/17	< 1.00	No
Parathion (ug/L) - TW5	2012/07/17	< 1.00	No
Parathion (ug/L) - TW6	2012/10/15	< 1.00	No
Parathion (ug/L) - TW78	2012/07/17	< 1.00	No
Pentachlorophenol (ug/L) - TW3	2012/07/17	< 0.50	No
Pentachlorophenol (ug/L) - TW5	2012/07/17	< 0.50	No
Pentachlorophenol (ug/L) - TW6	2012/10/15	< 0.50	No
Pentachlorophenol (ug/L) - TW78	2012/07/17	< 0.50	No
Phorate (ug/L) - TW3	2012/07/17	< 0.50	No
Phorate (ug/L) - TW5	2012/07/17	< 0.50	No
Phorate (ug/L) - TW6	2012/10/15	< 0.50	No
Phorate (ug/L) - TW78	2012/07/17	< 0.50	No
Picloram (ug/L) - TW3	2012/07/17	< 5.00	No

Picloram (ug/L) - TW5	2012/07/17	< 5.00	No
Picloram (ug/L) - TW6	2012/10/15	< 5.00	No
Picloram (ug/L) - TW78	2012/07/17	< 5.00	No
Polychlorinated Bichenysl(PCB) (ug/L) - TW3	2012/07/17	< 0.10	No
Polychlorinated Bichenysl(PCB) (ug/L) - TW5	2012/07/17	< 0.10	No
Polychlorinated Bichenysl(PCB) (ug/L) - TW6	2012/10/15	< 0.10	No
Polychlorinated Bichenysl(PCB) (ug/L) - TW78	2012/07/17	< 0.10	No
Prometryne (ug/L) - TW3	2012/07/17	< 0.25	No
Prometryne (ug/L) - TW5	2012/07/17	< 0.25	No
Prometryne (ug/L) - TW6	2012/10/15	< 0.25	No
Prometryne (ug/L) - TW78	2012/07/17	< 0.25	No
Simazine (ug/L) - TW3	2012/07/17	< 1.00	No
Simazine (ug/L) - TW5	2012/07/17	< 1.00	No
Simazine (ug/L) - TW6	2012/10/15	< 1.00	No
Simazine (ug/L) - TW78	2012/07/17	< 1.00	No
THM (ug/L) - DW	2013	12.93	No
Temephos (ug/L) - TW3	2012/07/17	< 10.00	No
Temephos (ug/L) - TW5	2012/07/17	< 10.00	No
Temephos (ug/L) - TW6	2012/10/15	< 10.00	No
Temephos (ug/L) - TW78	2012/07/17	< 10.00	No
Terbufos (ug/L) - TW3	2012/07/17	< 0.40	No
Terbufos (ug/L) - TW5	2012/07/17	< 0.40	No
Terbufos (ug/L) - TW6	2012/10/15	< 0.40	No
Terbufos (ug/L) - TW78	2012/07/17	< 0.40	No
Tetrachloroethylene (ug/L) - TW3	2012/07/17	< 0.30	No
Tetrachloroethylene (ug/L) - TW5	2012/07/17	< 0.30	No
Tetrachloroethylene (ug/L) - TW6	2012/10/15	< 0.30	No
Tetrachloroethylene (ug/L) - TW78	2012/07/17	< 0.30	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW3	2012/07/17	< 0.50	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW5	2012/07/17	< 0.50	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW6	2012/10/15	< 0.50	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW78	2012/07/17	< 0.50	No
Triallate (ug/L) - TW3	2012/07/17	< 1.00	No
Triallate (ug/L) - TW5	2012/07/17	< 1.00	No
Triallate (ug/L) - TW6	2012/10/15	< 1.00	No
Triallate (ug/L) - TW78	2012/07/17	< 1.00	No
Trichloroethylene (ug/L) - TW3	2012/07/17	< 0.30	No
Trichloroethylene (ug/L) - TW5	2012/07/17	< 0.30	No
Trichloroethylene (ug/L) - TW6	2012/10/15	< 0.30	No
Trichloroethylene (ug/L) - TW78	2012/07/17	< 0.30	No
2,4,6-Trichlorophenol (ug/L) - TW3	2012/07/17	< 0.50	No
2,4,6-Trichlorophenol (ug/L) - TW5	2012/07/17	< 0.50	No
2,4,6-Trichlorophenol (ug/L) - TW6	2012/10/15	< 0.50	No

2,4,6-Trichlorophenol (ug/L) - TW78	2012/07/17	< 0.50	No
2,4,5-Trichlorophenoxy acetic acid (ug/L) - TW3	2012/07/17	< 1.00	No
2,4,5-Trichlorophenoxy acetic acid (ug/L) - TW5	2012/07/17	< 1.00	No
2,4,5-Trichlorophenoxy acetic acid (ug/L) - TW6	2012/10/15	< 1.00	No
2,4,5-Trichlorophenoxy acetic acid (ug/L) - TW78	2012/07/17	< 1.00	No
Trifluralin (ug/L) - TW3	2012/07/17	< 0.40	No
Trifluralin (ug/L) - TW5	2012/07/17	< 0.40	No
Trifluralin (ug/L) - TW6	2012/10/15	< 0.40	No
Trifluralin (ug/L) - TW78	2012/07/17	< 0.40	No
Vinyl Chloride (ug/L) - TW3	2012/07/17	< 0.20	No
Vinyl Chloride (ug/L) - TW5	2012/07/17	< 0.20	No
Vinyl Chloride (ug/L) - TW6	2012/10/15	< 0.20	No
Vinyl Chloride (ug/L) - TW78	2012/07/17	< 0.20	No

Distribution System: Lead Sampling:

Sample collection window: December 15, 2010 to April 15, 2011

Location	# of samples collected	Lead Results (mg/L)		pH Results (min. - max)	Alkalinity (mg/L) (min. - max)
		(min. - max)	Exceedance		
Residential Plumbing	40	<0.001 – 0.002	No	7.47 – 8.10	Not applicable
Non-Residential Plumbing	3	<0.001 – 0.002	No	7.33 – 7.51	Not applicable
Distribution Water	3	<0.001 – 0.002	No	7.46 – 7.76	312 - 332

Sample collection window: June 15, 2011 to October 15, 2011.

Location	# of samples collected	Lead Results (mg/L)		pH Results (min. - max)	Alkalinity (mg/L) (min. - max)
		(min. - max)	Exceedance		
Residential Plumbing	40	<0.001 – 0.022	One Exceedance	6.99 – 7.85	Not applicable
Non-Residential Plumbing	2	<0.001 – 0.001	No	7.06 – 7.56	Not applicable
Distribution Water	3	<0.001 – 0.001	No	7.09 – 7.54	306 - 315

Please note: this drinking water system has qualified for the lead sampling exemption offered by the Regulation. Under this exemption, lead samples are collected from the distribution system only.

Location: Distribution System	# of samples collected	pH Results (min. - max)	Alkalinity (mg/L) (min. - max)	Lead Results (mg/L)
				Lead sampling not required during this period.
December 15, 2012 to April 15, 2013	3	7.07 – 7.22	299 - 302	
June 15, 2013 to October 15, 2013	3	7.30 – 7.33	293 - 295	

Summary of additional samples:

Treated Water Parameter	Units	Well 3		Well 5		Well 6		Well 7*	Well 8*	Well 7&8*		ODWQS	
		Range	Avg.	Range	Avg.	Range	Avg.			Range	Avg.	AO	OG
Alkalinity	mg/L	293 - 306	297	307 - 330	316	277 - 289	282	286	293	293 - 301	297		30 - 300
Colour	TCU	<2.0 - <2.0	<2.0	<2.0 - <2.0	<2.0	<2.0 - 2.0	<2.0	<2.0	<2.0	<2.0 - <2.0	<2.0	5	
Total Hardness	mg/L	357 - 401	388	376 - 407	386	389 - 416	400	363	363	355 - 427	383		80 - 100
pH	N/A	7.57 - 7.74	7.65	7.56 - 7.81	7.68	7.65 - 7.8	7.72	7.58	7.6	7.63 - 7.88	7.74		6.5 - 8.5
TDS	mg/L	580 - 660	622	630 - 680	645	610 - 650	630	590	590	510 - 740	610	500	
Chloride	mg/L	64 - 92	82	113 - 137	122	58 - 68	62	74	74	60 - 108	80	250	
Conductivity	uS/cm	846 - 984	931	975 - 1090	1019	885 - 938	909	877	878	832 - 1020	910	Measured during TDS testing.	
Calcium	mg/L	100 - 112	109	96 - 102	98	98 - 104	101	101	101	96 - 120	106	Measured during hardness testing.	
Magnesium	mg/L	26 - 30	28	33 - 37	34	34 - 38	36	27	27	27 - 31	29		
In-house pH		6.9 - 7.41	7.18	6.93 - 7.46	7.27	6.9 - 7.48	7.28	7.39	7.36	6.94 - 7.55	7.26	6.5 - 8.5	
In-house Temp	°C	7.2 - 12.5	9.9	5.6 - 16.1	10.9	8 - 11.5	9.9	10.2	10.6	7.9 - 12.6	10	Not applicable	

TCU: True Colour Units

ODWQS: Ontario Drinking Water Quality Standards

TDS: Total Dissolved Solids

AO: Aesthetic Objective

OG: Aesthetic Guideline

*Under normal operating conditions Wells 7 & 8 are operated in combination. While the water tower was out of service it was necessary to operate each well independently. During that time one sample was collected from each well and analyzed for the parameters listed above.

Summary of additional samples Well 5:

The two following tables are the sample results from additional sample collected at Well 5:

The first table contains the results of sample collected because the area had once housed transformers. Please note the samples are collected on raw water. There is no MAC / IMAC (Maximum Acceptable Concentration / Interim Maximum Acceptable Concentration) for raw water but the treated water MAC /IMAC has been provided for reference.

The second table contains the results of sample collected because of the wells' proximity to the wastewater treatment lagoon. These results help to assess the integrity of the lagoon cell.

Raw Water: Well 5 Parameter	Unit of Measure	Sample Date	Result Value	ODWS	
				MAC	IMAC
Arsenic	mg/L	10 Jul 2013	<0.005		0.025
Chromium	mg/L	10 Jul 2013	<0.001	0.05	
PCBs (Polychlorinated Biphenyls)	ug/L	10 Jul 2013	<0.1		3.0

Treated Water Parameter	Unit of Measure	Treated Water: Well 5 Result Value Annual Average 2013
TKN (Total Kjeldahl Nitrogen)	mg/L	<0.252
Total Phosphorus	mg/L	<0.01
Phosphate (O-PO4)	mg/L	<0.045
Dissolved Reactive Phosphorus	mg/L	<0.013
NH3 + NH4 as N	mg/L	<0.134

Maintenance Summary

OCWA

WO#	Completion Date	Comments
2471859	01/04/2013	Free chlorine analyzer replacement
2471862	01/04/2013	Purchase of various chemical feed equipment (valves, tubing, injectors, diaphragms, membrane caps, etc) to have in stock for emergency repairs and during maintenance activities.
2471863	01/04/2013	Process water sample lines upgrade. Purchase of required tubing, hangers, fittings, etc as outlined in the 2011 capital forecast. For rest of replacement of the raw and treated water sample lines to and from the sample taps and process monitoring equipment.
2647100	01/04/2013	VFD at well#6. Unit damaged by power surge non-economical to repair.

2795050	08/07/2013	Misc maintenance parts. Often jobs require small amounts of purchasing to be billed to capital. To save on paper work and admin time one limited misc work order should be used. \$1000.00 limit. Feb.13/13 order motor for water tower heater Feb.14/13 ordered 4' Quad retainer Feb.28/13 purchased P trap for well 7 & 8 upgrade. Feb.27,28/13 Purchased ABS fittings & conduit PVC fittings March 05/13 purchased painting supplies March 21/13 Brass flare fittings. April 03/13 needle valve May 02/12 Ottawa Fasteners sling, tool etc. Mar 2013: brass fittings
2795083	04/03/2013	4 inch gate valve well #5. Valve is leaking by when closed. Cannot isolate equipment from distribution system enhance as required.. Ordered valve March 25/13 Valve arrived and installation to be scheduled.
2807161	06/17/2013	Mississippi Mills well flow regulators. Spare parts required to complete annual PM's and to have on hand in case unit fails.
2813560	02/15/2013	Mississippi Mills DWS. To purchase a backflow preventor for flushing headers at the wells. Requested by MOE during the last inspection.
2882565	12/18/2013	Outside lights for well #6 and tower. Require 3 new outdoor light fixtures that no longer work properly and an upgrade to LED lighting is a recommendation. Need 1 light for well #6 and 2 lights for water tower.
2882630	08/27/2013	Well #3 piping configuration upgrade
2919314	08/22/2013	Misc CL2 Analyzer Parts - Replacement of stock parts for required maintenance.
2924936	12/16/2013	Automatic transfer switch. Required to upgrade existing manual transfer switch to an automatic transfer for working on the water tower as well as for better response for emergency situations.
2924941	10/30/2013	Bristol batteries need replacement. Internal batteries require replacement. I internal batteries are old and overloading charging circuits.
2974449	01/17/2014	Lighting protection for well #6. Equipment lost due to lightening strike/ surge.

Town Of Mississippi Mills

System Details (End of 2013)

- Estimated Population Served – 5,350
- 2326 Residential and 287 Non Residential Accounts;
- Length of Distribution System – 39.49km (5.45km are new development / under warranty);
- Weighted Age of System = 42.4 Years

System Maintenance and Repairs

- Spring Flushing Program (Apr/May/June) – All hydrants flushed and inspected;

- All mainline valves exercised during the summer months (emergency management);
- Performed inspection and maintenance activities for all five pressure reducing valves in the system – Nesbitt Engineering;
- Leak Detection – ongoing throughout year;
- Repaired 6 water main breaks;
- Repaired 7 service lines;

Capital Investments / New Development

- Municipality continuing with Radio Frequency Meter Upgrades (remote read) – 45% of the system is now RF technology (1,155 units).
- Replaced 4 line valves on Bridge Street, Malcolm Street, Mill Street, and Jamieson Street.
- April 2013 – Approximately 200m of 150mm PVC watermain on Finner Court / Easement (Creekside Subdivision);
- Completed Detailed Designs / MOE Approvals for Clyde Street Watermain Upgrades – Planned in 2014;
- September/October – Water tower coatings (internal and external) were upgraded and various safety repairs carried out;

Water Conservation / Risk Management / Source Water Protection

- Exercised all main line valves in the system with valve turning unit in 2013;
- Odd/Even watering restrictions regularly advertised and heavily patrolled during summer – high compliance rates observed;
- Town actively utilizing reports from radio frequency smart meters to identify customer service leaks (ie. properties that record constant flow 24/7)
- Decommissioning of former sewage lagoons ongoing in the well head protection area for well 5 – Geofirma has completed significant sludge characterization work and had discussed findings with MOE;
- Annual monitoring of sentinel wells completed upstream of well 5 (April, July and October);
- Staff have been participating in various discussions with Mississippi Rideau Source Protection team in refining groundwater threats in WHPA 8 and 10 zones (heating oil, agricultural etc....);
- The town purchased a 7,500 gallon water tanker with potable grade stainless steel that primarily serves road grading activities but carried secondary capabilities to shuttle bulk water under the Town’s emergency plan;
- Automatic transfer switch installed at Wells 7 & 8. A portable generator has now been reassigned to the site.

System Planning and Administration

- Feb 19/13 (Reso 63-13) – Town Council approves update to Water and Wastewater Financial Plan – Watson & Associates Economists Ltd.;
- Mar 19/13 (Reso 102-13) - Town Council approves the 2013 Water and Sewer Budget.
- Mar 19/13 - Town Council receives the 2012 Annual Report from OCWA for the Town’s water system as per legislative requirements;
- Apr 2013 – Geoff Timmins – received Water Distribution Class II License

- Apr 23/13 – Development Charges Bylaw is amended to include growth related water and sewer works identified within the 2012 Water and Wastewater Infrastructure Master Plan;
- Aug 20/13 – (Reso 319-13) – Council authorizes contract with J.L. Richards & Associates for Permit to Take Water Renewals
- Dec 17/13 (Reso 438-13) – Town Completes Asset Management Plan – Includes Inventory of Linear Watermains
- Dec 2013 – David Hoffmann – Water Distribution Class II License Renewal

Customer Requests

- 1 - Leaking water meter
- 2 - Water leak in private plumbing
- 5 - Loss of water (frozen services – private plumbing issue)
- 2 - Loss of water (internal plumbing issues)

END

Schedule 22
Summary Report

For

Municipalities

as per

O. Reg. 170/03

MISSISSIPPI MILLS (ALMONTE) DRINKING WATER SYSTEM
2013 SUMMARY REPORT FOR MUNICIPALITIES

Report

This report is a summary of water quality information for the Mississippi Mills Drinking Water System, published in accordance with Schedule 22 of Ontario's Drinking-Water Systems Regulation for the reporting period of January 1 to December 31, 2013. The Mississippi Mills Drinking Water System is categorized as a Large, Municipal, Residential Drinking Water System.

This report was prepared by the Ontario Clean Water Agency for the Town of Mississippi Mills.

Who gets a copy of the Report:

- in the case of a drinking-water system owned by a municipality, the members of the municipal council;

What must the Report contain?

The report must,

- (a) list the requirements of the Act, the regulations, the system's approval and any order that the system **failed to meet** at any time during the period covered by the report and specify the duration of the failure; and
- (b) for each failure referred to in clause (a), describe the measures that were taken to correct the failure.

The following tables list the requirements that the system failed to meet and the measures taken to correct the failure:

Drinking Water Legislation	List the requirement(s) the system failed to meet	Specify the duration of the failure (i.e. date(s))	Describe the measures taken to correct the failure	Status (complete or outstanding)
O. Reg. 170/03	In July 2013 the laboratory failed to do the requested HPC analysis on all treated water samples.	July 15		Complete
O. Reg. 170/03	In July 2013, sodium was sampled (and re-sampled as required) at Wells 3, 5 and 7&8. The results were greater than 20 mg/L - AWQI # 112635.	July 15 & July 22		Complete
PTTW	Sep / Oct: During the time the water tower was out of service there were 15 days where the PTTW rate of water taking was exceeded. A complete list of the days on which the occurrences occurred and the location is attached.	See attachment.	During the time the water tower was out of service, operators staffed the facility 24/7. On-site staff addressed the exceedance immediately.	Complete
O. Reg. 170/03	Week of Dec 07 – distribution sampling failed to request HPC analysis.	Week of Dec 07	Review of the requirements was completed with the operator.	Complete
O. Reg. 170/03	Dec 23: A delay of about 1.5 hours doing the 72-hr trend review was recorded due to a staff member being taken to the hospital.	Dec 23		Complete

The following items were identified by the Ministry of the Environment Inspection Report:

Drinking Water Legislation	List the requirement(s) the system failed to meet	Specify the duration of the failure (i.e. date(s))	Describe the measures taken to correct the failure	Status (complete or outstanding)
The last Ministry of Environment inspection was done in November 2013. No “Actions Required” issues were identified in this report. Report #: 1-AO84R				

What else must the Report contain?

The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. 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 and daily instantaneous peak flow rates.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval.

Please find attached a copy of the Annual Record of Water Taking for the Mississippi Mills Drinking Water System.

The summary attached lists the maximum month flow rates and the capacity rated as a percent of the flow rates approved in the system's approval.

When Does the Report Get Submitted?

If a report is prepared for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

End



Ontario Clean Water Agency Monthly Process Data Report

Municipality: former Town of Almonte
 Facility: [5676] - Mississippi Mills Water
 Works: [220001290] - Mississippi Mills Water Supply System
 Classification: Class 2 Water Distribution, Class 2 Water Treatment
 Water Source: Ground Water

Period: 01/01/2013 to 12/31/2013
 Serviced Population: 4,910
 Total Design Capacity(m³/day): 10,000.0

	Jan/2013	Feb/2013	Mar/2013	Apr/2013	May/2013	Jun/2013	Jul/2013	Aug/2013	Sep/2013	Oct/2013	Nov/2013	Dec/2013	<-- Summary -->
Raw Water\Flows - Raw Water Well #3													
Raw Flow: Sum (m3/d)													
Max	285.4	313.3	391.9	383.1	365.4	332.9	286.5	340.9	324.0	345.0	454.1	441.7	454.1
% Rated Capacity (Max. Daily Flow) m3/d													
Avg	26.277	28.563	36.538	35.022	31.489	30.711	26.982	24.411	16.277	24.375	31.44	36.14	29.1
Max	34.171	37.512	46.923	45.869	43.75	39.859	34.303	40.817	38.793	41.307	54.37	52.886	54.37
Raw Water\Flows - Raw Water Well #5													
Raw Flow: Sum (m3/d)													
Max	224.8	275.9	314.1	331.6	326.9	301.9	263.4	309.8	379.4	436.1	343.6	346.9	436.1
% Rated Capacity (Max. Daily Flow) m3/d													
Avg	21.386	24.799	30.279	30.229	29.993	28.575	25.679	24.55	24.878	23.863	24.176	28.91	26.458
Max	27.484	33.732	38.402	40.542	39.967	36.911	32.204	37.877	46.386	53.318	42.009	42.412	53.318
Raw Water\Flows - Raw Water Well #6													
Raw Flow: Sum (m3/d)													
Max	341.8	364.3	421.7	443.6	373.8	405.4	381.3	458.9	435.1	496.8	412.7	484.5	496.8
% Rated Capacity (Max. Daily Flow) m3/d													
Avg	30.828	31.072	31.059	30.796	30.474	31.271	33.717	33.767	31.336	31.207	32.125	32.079	31.648
Max	35.207	31.73	31.51	31.776	36.678	36.668	34.191	34.533	33.42	31.97	34.875	32.527	36.678
Raw Water\Flows - Raw Water Well #7													
Raw Flow: Sum (m3/d)													
Max	591.7	598.7	740.7	773.3	772.2	669.5	600.4	620.3	1,209.0	1,205.2	821.1	604.8	1,209.0
% Rated Capacity (Max. Daily Flow) m3/d													
Avg	27.751	28.279	36.318	36.135	34.087	32.529	29.358	27.344	35.566	31.213	29.183	31.934	31.641
Max	36.044	36.471	45.121	47.106	47.039	40.783	36.574	37.786	73.648	73.416	50.018	36.842	73.648
Raw Water\Flows - Raw Water Well #8													
Raw Flow: Sum (m3/d)													
Max	582.5	596.6	739.2	771.2	769.2	665.7	594.2	616.3	1,174.8	1,267.6	813.0	594.3	1,267.6
% Rated Capacity (Max. Daily Flow) m3/d													
Avg	26.984	27.829	36.227	36.103	33.935	32.291	29.14	27.282	33.185	29.503	28.629	31.6	31.063
Max	35.484	36.343	45.029	46.979	46.857	40.552	36.196	37.543	71.564	77.217	49.525	36.202	77.217

Note: ? Calculation not verifiable. At least one result reported as < and at least one result reported >.

Personal information contained on this form is collected under the authority of the Ontario Water Resources Act, Section 20. The Purpose of the form is to record details and information about the taking of water annually. Questions should be directed to the respective hub office in your area.

Les renseignements personnels qui figurent dans le présent formulaire sont recueillis en vertu de l'article 20 de la Loi sur les ressources en eau de l'Ontario. Ce formulaire sert à dossiers les détails et les renseignements concernant la prise d'eau annuelle. Prière d'adresser toutes questions au personnel du bureau régional de votre secteur.

Year(Année): 2013 Permit No.(N° de permis): 8474-6MJR6X Source: Ground Water
 Location: RW3 - Raw Water Well #3

Name of Permittee: Town of Mississippi Mills (Almonte) Mailing Address: P.O.Box 400, Almonte, Ontario K0A 1A0
Nom du titulaire du permis *Adresse postale*

Location Of Taking: Twp. or Municipality: Concession: Lot:
Lieu de la prise d'eau *Canton ou municipalité*
 Wells(5) Mississippi Mills

	Jan/2013	Feb/2013	Mar/2013	Apr/2013	May/2013	Jun/2013	Jul/2013	Aug/2013	Sep/2013	Oct/2013	Nov/2013	Dec/2013	<-- Total -->	<-- Avg. -->	<-- Max. -->	<-- Criteria-->
Total Hrs of Taking	239.34	232.3	320.4	296.2	299.9	273.6	259.4	239.6	141.8	204.3	246.0	293.0	3,045.84	253.82		
Total Amt of Taking(m3)	6,803.41	6,679.7	9,460.1	8,775.2	8,152.9	7,695.0	6,985.9	6,320.3	3,806.4	6,311.1	7,877.5	9,357.0	88,224.51			
Avg Monthly Taking(m3/day)	219.46	238.56	305.16	292.51	263.0	256.5	225.35	203.88	135.94	203.58	262.58	301.84		242.36		
Max Daily Flow(m3)	285.4	313.3	391.9	383.1	365.4	332.9	286.5	340.9	324.0	345.0	454.1	441.7			454.1	835.2
Peak Daily Rate of Taking(L/min)	550.3	554.8	555.1	563.7	527.5	543.7	531.0	537.8	588.3	575.0	577.6	573.2			588.3	580.0

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Les renseignements personnels qui figurent dans le présent formulaire sont recueillis en vertu de l'article 20 de la Loi sur les ressources en eau de l'Ontario. Ce formulaire sert à dossiers les détails et les renseignements concernant la prise d'eau annuelle. Prière d'adresser toutes questions au personnel du bureau régional de votre secteur.

Year(Année): 2013 Permit No.(N° de permis): 8474-6MJR6X Source: Ground Water
 Location: RW5 - Raw Water Well #5

Name of Permittee: Town of Mississippi Mills (Almonte) Mailing Address: P.O.Box 400, Almonte, Ontario K0A 1A0
Nom du titulaire du permis *Adresse postale*

Location Of Taking: Twp. or Municipality: Concession: Lot:
Lieu de la prise d'eau *Canton ou municipalité*
 Wells(5) Mississippi Mills

	Jan/2013	Feb/2013	Mar/2013	Apr/2013	May/2013	Jun/2013	Jul/2013	Aug/2013	Sep/2013	Oct/2013	Nov/2013	Dec/2013	<-- Total -->	<-- Avg. -->	<-- Max. -->	<-- Criteria-->
Total Hrs of Taking	227.14	227.3	301.2	295.6	300.0	278.4	260.4	251.6	214.4	244.6	239.1	298.1	3,137.84	261.49		
Total Amt of Taking(m3)	5,422.5	5,679.4	7,429.8	7,417.4	7,604.9	7,011.7	6,511.0	6,224.9	5,290.5	6,050.7	5,932.1	7,330.2	77,905.1			
Avg Monthly Taking(m3/day)	174.92	202.84	247.66	247.25	245.32	233.72	210.03	200.8	203.48	195.18	197.74	236.46		216.28		
Max Daily Flow(m3)	224.8	275.9	314.1	331.6	326.9	301.9	263.4	309.8	379.4	436.1	343.6	346.9			436.1	817.92
Peak Daily Rate of Taking(L/min)	445.2	452.5	471.9	439.3	440.2	451.5	443.2	436.2	445.1	440.3	441.4	439.2			471.9	568.0

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Les renseignements personnels qui figurent dans le présent formulaire sont recueillis en vertu de l'article 20 de la Loi sur les ressources en eau de l'Ontario. Ce formulaire sert à dossiers les détails et les renseignements concernant la prise d'eau annuelle. Prière d'adresser toutes questions au personnel du bureau régional de votre secteur.

Year(Année): 2013 Permit No.(N° de permis): 8474-6MJR6X Source: Ground Water
 Location: RW6 - Raw Water Well #6

Name of Permittee: Town of Mississippi Mills (Almonte) Mailing Address: P.O.Box 400, Almonte, Ontario K0A 1A0
Nom du titulaire du permis *Adresse postale*

Location Of Taking: Twp. or Municipality: Concession: Lot:
Lieu de la prise d'eau *Canton ou municipalité*
 Wells(5) Mississippi Mills

	Jan/2013	Feb/2013	Mar/2013	Apr/2013	May/2013	Jun/2013	Jul/2013	Aug/2013	Sep/2013	Oct/2013	Nov/2013	Dec/2013	<-- Total -->	<-- Avg. -->	<-- Max. -->	<-- Criteria-->
Total Hrs of Taking	239.54	232.1	321.1	297.9	282.5	273.0	257.2	225.1	254.7	252.7	239.6	293.3	3,168.74	264.06		
Total Amt of Taking(m3)	8,116.23	7,939.6	10,909.8	10,037.7	9,230.2	8,997.9	9,362.5	8,239.6	7,057.0	7,665.7	8,309.5	10,206.0	106,071.73			
Avg Monthly Taking(m3/day)	261.81	283.56	351.93	334.59	307.67	299.93	302.02	284.12	282.28	247.28	276.98	329.23		296.78		
Max Daily Flow(m3)	341.8	364.3	421.7	443.6	373.8	405.4	381.3	458.9	435.1	496.8	412.7	484.5			496.8	1,958.4
Peak Daily Rate of Taking(L/min)	689.5	621.4	617.1	622.3	718.3	718.1	669.6	676.3	654.5	626.1	683.0	637.0			718.3	1,360.0

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Les renseignements personnels qui figurent dans le présent formulaire sont recueillis en vertu de l'article 20 de la Loi sur les ressources en eau de l'Ontario. Ce formulaire sert à dossiers les détails et les renseignements concernant la prise d'eau annuelle. Prière d'adresser toutes questions au personnel du bureau régional de votre secteur.

Year(Année): 2013 Permit No.(N° de permis): 8474-6MJR6X Source: Ground Water
 Location: RW7 - Raw Water Well #7

Name of Permittee: Town of Mississippi Mills (Almonte) Mailing Address: P.O.Box 400, Almonte, Ontario K0A 1A0
Nom du titulaire du permis *Adresse postale*

Location Of Taking: Twp. or Municipality: Concession: Lot:
Lieu de la prise d'eau *Canton ou municipalité*
 Wells(5) Mississippi Mills

	Jan/2013	Feb/2013	Mar/2013	Apr/2013	May/2013	Jun/2013	Jul/2013	Aug/2013	Sep/2013	Oct/2013	Nov/2013	Dec/2013	<-- Total -->	<-- Avg. -->	<-- Max. -->	<-- Criteria-->
Total Hrs of Taking	241.24	226.0	318.0	297.4	299.9	273.5	258.9	243.8	325.2	277.4	246.5	283.8	3,291.64	274.3		
Total Amt of Taking(m3)	14,122.51	12,998.5	18,482.2	17,795.6	17,346.9	16,019.8	14,940.4	13,915.1	16,931.7	15,371.7	14,372.0	16,250.9	188,547.31			
Avg Monthly Taking(m3/day)	455.56	464.23	596.2	593.19	559.58	533.99	481.95	448.87	583.85	512.39	479.07	524.22		519.43		
Max Daily Flow(m3)	591.7	598.7	740.7	773.3	772.2	669.5	600.4	620.3	1,209.0	1,205.2	821.1	604.8			1,209.0	1,641.6
Peak Daily Rate of Taking(L/min)	1,099.6	1,002.0	1,034.3	1,045.2	1,021.8	1,041.3	1,035.2	1,023.7	1,295.65	1,152.6	1,011.85	1,021.5			1,295.65	1,140.0

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Year(Année): 2013 Permit No.(N° de permis): 8474-6MJR6X Source: Ground Water
 Location: RW8 - Raw Water Well #8

Name of Permittee: Town of Mississippi Mills (Almonte) Mailing Address: P.O.Box 400, Almonte, Ontario K0A 1A0
Nom du titulaire du permis Adresse postale

Location Of Taking: Twp. or Municipality: Concession: Lot:
Lieu de la prise d'eau Canton ou municipalité
 Wells(5) Mississippi Mills

	Jan/2013	Feb/2013	Mar/2013	Apr/2013	May/2013	Jun/2013	Jul/2013	Aug/2013	Sep/2013	Oct/2013	Nov/2013	Dec/2013	<-- Total -->	<-- Avg. -->	<-- Max. -->	<-- Criteria-->
Total Hrs of Taking	240.64	225.7	317.9	297.1	299.9	272.4	258.7	244.9	308.8	271.7	243.7	279.0	3,260.44	271.7		
Total Amt of Taking(m3)	13,732.18	12,791.4	18,435.7	17,780.1	17,269.3	15,902.7	14,829.2	13,883.7	15,798.1	15,013.8	14,099.2	16,081.3	185,616.68			
Avg Monthly Taking(m3/day)	442.97	456.84	594.7	592.67	557.07	530.09	478.36	447.86	544.76	484.32	469.97	518.75		509.86		
Max Daily Flow(m3)	582.5	596.6	739.2	771.2	769.2	665.7	594.2	616.3	1,174.8	1,267.6	813.0	594.3			1,267.6	1,641.6
Peak Daily Rate of Taking(L/min)	1,098.7	998.7	1,037.0	1,048.6	1,021.7	1,038.2	1,015.8	992.1	1,271.3	1,130.6	1,003.6	1,007.8			1,271.3	1,140.0

Annual Record of Water Taking

(Permit to Take Water)

of

O. Reg. 387/04



Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 8474-6MJR6X
Permit Holder: THE CORPORATION OF THE TOWN OF MISSISSIPPI MILLS.
Received on: Feb 12, 2014 2:06 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

Annual Water Taking Report

For the Year 2013

Raw Flow: Sum (m3/d)

Municipality:	former Town of Almonte	Year:	2013
Facility Name:	[5676] - Mississippi Mills Water	Water Source:	Ground Water
Works:	[220001290] - Mississippi Mills Water Supply System	Total Design Capacity (m3/day):	10,000.00
Classification:	Class 2 Water Distribution, Class 2 Water Treatment	Population Served:	4,910

January	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW3 - Raw Water Well #3	181.610	226.900	149.100	244.500	189.000	245.900	199.900	239.900	226.200	171.900	222.100	216.400	208.900	209.300	187.900
RW5 - Raw Water Well #5	156.300	195.700	154.200	168.200	162.700	210.700	84.000	75.800	189.300	145.400	191.100	186.400	176.200	151.900	149.200
RW6 - Raw Water Well #6	216.930	272.400	212.700	233.600	224.000	289.200	234.800	301.100	275.600	214.500	275.900	270.200	251.800	247.700	213.800
RW7 - Raw Water Well #7	397.810	501.000	417.000	591.700	413.800	534.600	433.000	501.200	465.100	386.100	497.700	486.600	467.400	462.100	404.600
RW8 - Raw Water Well #8	391.480	492.600	409.900	582.500	407.100	526.100	425.700	492.900	453.600	376.300	486.000	475.000	456.900	460.200	407.200

Annual Water Taking Report

For the Year 2013

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	285.400	214.100	253.900	210.400	252.400	232.300	205.100	256.400	198.600	253.100	219.500	260.000	206.800	192.500	256.400	187.000
RW5 - Raw Water Well #5	221.200	169.700	202.400	169.400	205.300	188.900	150.100	213.600	166.000	213.200	189.500	224.800	177.200	166.100	201.800	166.200
RW6 - Raw Water Well #6	341.800	246.100	289.000	242.200	294.100	268.500	239.900	304.600	235.000	304.000	263.700	316.900	255.100	236.800	316.100	228.200
RW7 - Raw Water Well #7	481.200	358.900	501.600	411.100	496.700	456.200	407.300	507.200	393.000	503.000	435.400	520.300	413.600	385.200	515.500	376.600
RW8 - Raw Water Well #8	478.400	383.100	501.800	390.900	471.500	433.300	386.600	481.300	372.300	477.600	413.600	494.500	392.000	365.800	489.200	356.800
February	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	245.200	216.200	272.200	200.400	259.200	239.500	248.100	193.800	254.300	252.200	186.000	210.900	259.700	179.900	241.900	
RW5 - Raw Water Well #5	206.300	177.400	223.000	169.100	215.800	200.700	209.700	165.200	219.900	217.200	161.600	183.600	226.100	157.100	198.000	
RW6 - Raw Water Well #6	287.300	244.200	303.200	231.200	292.600	274.000	286.900	223.800	297.200	299.600	224.700	253.600	310.100	215.000	296.300	
RW7 - Raw Water Well #7	502.900	410.400	512.000	377.200	491.100	455.400	474.900	376.000	502.500	501.500	372.100	421.800	520.500	360.600	482.400	
RW8 - Raw Water Well #8	478.200	389.000	486.200	357.200	465.800	432.400	450.800	367.100	500.900	500.000	370.400	420.800	518.600	360.000	481.500	

Annual Water Taking Report

For the Year 2013

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	206.500	244.200	208.900	253.000	263.700	206.200	250.600	225.600	269.800	215.600	273.700	313.300	289.100			
RW5 - Raw Water Well #5	180.000	213.900	183.700	221.800	235.100	184.500	223.400	202.100	239.900	192.600	244.700	275.900	151.100			
RW6 - Raw Water Well #6	249.800	296.300	253.000	302.900	319.400	251.600	309.500	274.700	329.000	262.500	334.200	364.300	352.700			
RW7 - Raw Water Well #7	416.500	495.500	424.500	515.000	537.000	421.900	514.200	464.100	555.000	448.300	564.700	281.800	598.700			
RW8 - Raw Water Well #8	414.900	494.300	423.400	513.800	535.800	420.900	513.100	462.600	553.300	446.000	561.600	276.200	596.600			
March	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	205.000	287.600	282.700	211.400	221.300	282.300	206.200	258.700	268.300	212.500	259.200	217.300	285.300	351.600	234.400	
RW5 - Raw Water Well #5	187.500	257.100	252.700	211.400	199.300	254.200	186.400	238.000	242.200	192.500	243.900	197.700	146.600	0.000	94.400	
RW6 - Raw Water Well #6	251.700	351.500	346.700	301.000	274.700	352.200	257.000	320.300	337.700	269.000	321.100	270.700	333.900	389.700	255.400	
RW7 - Raw Water Well #7	411.400	597.500	588.600	478.200	462.800	592.300	432.500	561.600	566.700	447.500	546.900	458.100	574.500	679.600	445.600	
RW8 - Raw Water Well #8	408.800	594.400	586.700	475.900	461.600	590.200	431.600	559.700	564.400	445.700	545.100	456.400	571.800	677.100	443.700	

Annual Water Taking Report
For the Year 2013

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	329.400	391.900	383.200	347.800	371.200	344.000	346.700	364.100	362.600	378.200	364.300	373.200	312.300	337.400	337.800	332.200
RW5 - Raw Water Well #5	264.800	314.100	309.300	272.000	297.100	296.200	279.600	292.200	292.500	301.400	294.800	283.200	248.600	265.500	260.400	254.200
RW6 - Raw Water Well #6	349.100	419.200	420.000	389.200	408.800	410.200	389.300	406.300	407.900	421.700	410.400	420.500	349.400	368.700	359.300	347.200
RW7 - Raw Water Well #7	470.700	740.700	724.300	662.100	703.300	698.000	658.000	690.500	688.600	703.600	692.300	711.100	595.200	641.600	635.900	622.500
RW8 - Raw Water Well #8	471.700	739.200	723.100	661.300	702.600	696.900	656.900	689.400	686.300	700.600	689.400	709.600	593.900	641.300	636.700	623.700
April	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	335.700	327.400	349.000	316.100	290.200	334.800	329.800	353.600	347.900	358.900	383.100	259.200	379.000	378.700	369.400	
RW5 - Raw Water Well #5	254.900	250.300	273.800	261.000	267.300	279.400	279.100	298.500	261.400	231.300	325.700	193.000	331.600	328.200	319.700	
RW6 - Raw Water Well #6	343.100	344.900	384.000	358.900	348.400	381.600	374.600	398.500	397.100	403.900	436.400	300.300	443.600	437.200	428.000	
RW7 - Raw Water Well #7	626.300	607.500	687.100	637.000	620.700	678.300	668.500	622.000	705.500	600.500	771.100	735.200	773.300	771.600	750.800	
RW8 - Raw Water Well #8	627.400	608.600	687.000	636.100	620.100	677.100	666.100	620.700	705.300	599.100	770.500	734.900	771.200	771.000	750.200	

Annual Water Taking Report

For the Year 2013

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	369.300	267.300	255.400	223.200	203.600	248.500	216.500	252.900	224.000	245.000	271.500	197.600	262.900	202.700	222.000	
RW5 - Raw Water Well #5	319.000	230.700	219.200	211.600	176.000	217.600	191.000	224.000	194.300	218.900	243.100	177.100	237.300	200.100	202.300	
RW6 - Raw Water Well #6	429.200	306.700	294.100	257.600	234.200	284.200	252.300	294.000	259.300	281.300	312.800	228.600	305.500	258.200	259.200	
RW7 - Raw Water Well #7	747.400	546.100	514.800	454.500	412.500	507.300	457.300	518.200	457.700	505.200	561.300	408.500	546.000	458.700	444.700	
RW8 - Raw Water Well #8	747.600	545.800	514.800	455.500	412.500	505.800	456.500	518.100	457.900	504.200	561.100	408.000	545.300	458.000	443.700	
May	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	248.200	264.200	270.600	290.900	306.600	301.700	287.500	278.500	245.300	239.100	213.400	222.800	275.200	259.800	254.800	
RW5 - Raw Water Well #5	227.800	241.200	246.500	268.600	284.400	290.000	268.400	256.500	227.700	230.100	198.300	208.600	257.900	242.000	236.600	
RW6 - Raw Water Well #6	294.100	316.200	324.400	351.000	360.500	373.800	344.500	331.200	290.200	290.500	256.900	269.500	329.000	309.200	308.200	
RW7 - Raw Water Well #7	520.800	552.300	565.600	613.100	647.800	662.300	610.100	585.300	492.900	511.700	451.100	475.300	586.800	551.500	540.000	
RW8 - Raw Water Well #8	519.900	551.400	564.200	611.800	645.700	660.300	608.300	583.700	491.000	509.500	449.400	473.600	584.900	549.800	538.300	

Annual Water Taking Report
For the Year 2013

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	274.000	276.000	270.300	182.000	299.800	231.000	198.900	244.300	250.900	244.700	240.300	283.100	253.300	256.500	365.400	323.800
RW5 - Raw Water Well #5	255.900	258.200	255.000	171.500	281.300	211.300	211.100	224.000	235.000	227.000	225.400	262.600	234.600	240.100	326.900	300.400
RW6 - Raw Water Well #6	333.000	331.700	326.700	225.200	367.700	267.600	268.000	294.800	298.700	285.400	289.500	339.700	149.400	0.000	331.300	372.300
RW7 - Raw Water Well #7	584.400	585.900	579.500	391.100	638.500	477.700	480.000	523.100	535.100	518.800	515.500	601.200	545.500	546.400	772.200	685.400
RW8 - Raw Water Well #8	582.300	583.400	576.800	389.300	635.800	475.600	477.600	520.000	532.600	515.900	513.000	599.000	533.000	542.600	769.200	681.400
June	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	225.200	262.500	281.200	314.500	332.900	267.300	215.600	197.400	279.300	265.900	221.200	302.000	298.900	285.000	292.000	
RW5 - Raw Water Well #5	210.100	244.900	260.200	292.700	301.900	248.400	195.300	181.400	256.200	243.800	200.800	266.100	259.600	248.600	257.500	
RW6 - Raw Water Well #6	262.300	309.700	335.800	371.100	405.400	316.800	258.900	233.700	332.900	315.900	258.400	345.900	336.500	332.100	329.200	
RW7 - Raw Water Well #7	478.500	557.400	553.700	669.500	450.000	568.900	462.200	418.300	591.000	567.100	466.400	625.800	612.200	583.000	601.200	
RW8 - Raw Water Well #8	476.200	554.700	550.900	665.700	390.200	566.800	460.700	416.600	588.900	565.300	464.700	623.900	611.600	582.000	599.000	

Annual Water Taking Report
For the Year 2013

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	221.800	278.400	290.500	306.900	296.000	291.300	215.500	264.200	269.200	258.100	259.700	145.900	212.300	142.200	202.100	
RW5 - Raw Water Well #5	195.300	244.800	251.600	264.400	255.700	254.300	189.400	233.200	271.600	230.500	233.400	219.000	190.300	128.300	182.400	
RW6 - Raw Water Well #6	249.100	311.400	314.100	345.300	337.000	331.900	241.700	232.800	245.300	314.000	321.900	297.800	270.300	181.900	258.800	
RW7 - Raw Water Well #7	457.000	587.800	592.600	624.300	602.200	598.000	444.400	545.100	631.800	535.500	542.200	509.100	422.900	297.800	423.900	
RW8 - Raw Water Well #8	455.800	587.100	592.100	622.600	601.400	597.300	442.600	542.900	628.800	533.100	539.600	505.600	420.000	295.800	420.800	
July	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	218.500	200.200	258.600	286.500	222.600	184.100	185.400	210.600	235.200	256.100	225.700	235.900	228.700	259.200	283.600	
RW5 - Raw Water Well #5	196.700	185.700	239.600	261.100	201.100	165.300	169.600	193.600	214.000	244.900	202.200	224.200	211.900	240.800	263.400	
RW6 - Raw Water Well #6	279.900	262.000	328.500	376.600	297.000	233.700	241.500	229.600	312.100	337.200	310.000	327.400	308.600	351.500	381.300	
RW7 - Raw Water Well #7	458.000	419.400	551.700	524.500	469.300	387.800	392.500	448.700	510.600	544.900	465.800	516.900	487.700	554.700	600.400	
RW8 - Raw Water Well #8	455.100	416.800	549.100	520.700	465.700	384.500	390.300	444.800	507.200	541.300	463.300	513.900	484.500	550.900	594.200	

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	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	273.100	216.200	218.600	200.100	203.800	243.800	259.300	195.000	223.400	240.200	229.400	202.300	177.400	174.700	219.600	218.100
RW5 - Raw Water Well #5	255.700	202.800	194.000	188.000	191.500	228.700	243.000	182.900	212.900	224.400	222.000	190.800	167.000	179.600	207.400	206.200
RW6 - Raw Water Well #6	371.700	200.700	309.100	274.800	281.600	337.800	367.500	269.500	310.800	328.200	327.100	282.400	246.300	266.400	307.100	304.600
RW7 - Raw Water Well #7	587.600	466.200	438.800	433.600	441.100	527.600	559.500	422.500	518.200	517.000	509.700	438.400	384.200	413.200	476.400	473.500
RW8 - Raw Water Well #8	583.600	453.000	435.400	429.700	437.400	523.200	556.500	418.500	515.000	513.800	506.600	435.700	381.600	410.700	476.400	469.800
August	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	196.800	163.500	176.200	193.000	205.800	255.700	178.400	201.600	193.900	209.400	226.300	213.200	187.200	172.500	182.300	
RW5 - Raw Water Well #5	185.100	154.400	167.100	182.700	194.700	252.000	168.700	191.400	183.600	198.100	215.100	202.900	178.200	160.400	173.500	
RW6 - Raw Water Well #6	274.100	229.500	247.200	270.300	288.900	359.500	249.700	283.700	273.400	294.400	320.300	300.200	264.200	240.700	256.900	
RW7 - Raw Water Well #7	426.700	356.100	383.700	419.700	448.000	560.000	388.400	439.800	419.700	456.800	495.600	466.600	410.900	375.200	401.400	
RW8 - Raw Water Well #8	424.500	353.800	381.300	416.800	445.100	555.500	385.900	437.200	416.900	453.900	492.600	463.800	408.000	372.400	399.000	

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	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	238.800	202.300	263.100	255.000	127.300	340.900	186.400	242.600	179.700	282.200	197.500	92.600	186.300	127.900	224.600	217.300
RW5 - Raw Water Well #5	224.400	190.900	249.000	241.700	185.500	309.800	200.000	231.400	171.400	269.900	188.100	165.300	218.500	212.100	182.400	176.600
RW6 - Raw Water Well #6	332.900	285.300	370.900	358.500	276.100	458.900	272.700	266.100	0.000	0.000	57.000	246.000	327.100	312.300	264.700	258.100
RW7 - Raw Water Well #7	498.000	443.100	576.500	559.500	357.700	438.100	412.900	534.600	393.500	620.300	434.300	376.000	491.500	491.300	425.100	414.100
RW8 - Raw Water Well #8	494.700	440.500	572.400	556.300	426.900	432.100	408.000	531.600	390.900	616.300	430.500	372.700	486.400	486.200	421.100	410.400
September	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	225.000	263.900	186.000	297.500	240.900	222.800	184.800	256.700	49.200	9.800	2.200	0.000	10.300	113.100	117.300	
RW5 - Raw Water Well #5	184.900	216.800	151.100	263.000	191.000	175.600	145.500	202.000	170.400	116.500	165.800	0.000	373.200	0.000	360.000	
RW6 - Raw Water Well #6	270.000	315.800	219.300	344.900	264.800	249.800	207.400	288.500	54.400	296.800	267.600	321.200	0.000	364.900	0.000	
RW7 - Raw Water Well #7	434.200	508.200	226.900	553.300	447.400	413.000	340.700	472.900	94.900	729.900	816.900	63.500	810.800	1,036.900	138.300	
RW8 - Raw Water Well #8	430.100	503.500	247.500	549.400	444.700	410.200	338.400	469.800	487.000	450.700	361.100	1,154.700	360.800	154.500	1,072.300	

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	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	0.000	18.700	22.600	38.900	64.700	241.400	277.900	45.200	82.700	46.500	24.700	100.200	324.000	303.100	36.300	
RW5 - Raw Water Well #5	0.000	94.500	374.800	0.000	379.400	75.300	358.700	82.300	282.200	83.000	34.100	324.600	204.300	257.800	23.700	
RW6 - Raw Water Well #6	412.400	310.000	0.000	420.900	0.000	259.200	0.000	254.200	99.900	402.000	435.100	118.100	250.000	215.200	414.600	
RW7 - Raw Water Well #7	597.900	912.100	124.800	593.000	1,209.000	945.100	0.000	843.400	837.300	360.200	870.800	995.900	736.300	312.200	505.900	
RW8 - Raw Water Well #8	589.500	272.300	1,049.200	591.400	0.000	225.100	1,174.800	396.400	360.500	878.800	386.900	256.600	506.100	932.200	743.600	
October	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	62.800	74.500	94.500	345.000	127.900	69.700	153.700	55.200	318.400	282.700	257.900	194.400	220.100	237.400	235.700	
RW5 - Raw Water Well #5	94.400	227.100	217.300	262.700	428.000	343.400	436.100	122.700	250.100	198.000	203.200	152.600	173.600	187.100	164.200	
RW6 - Raw Water Well #6	333.300	191.300	166.200	476.200	496.800	427.000	73.200	133.200	33.200	305.700	278.300	210.600	237.800	256.500	255.400	
RW7 - Raw Water Well #7	428.900	472.100	812.900	0.000	945.300	1,202.000	1,205.200	541.800	576.700	513.700	469.300	354.300	400.700	432.700	430.300	
RW8 - Raw Water Well #8	794.200	748.600	407.900	1,267.600	427.700	786.900	552.200	191.500	571.200	509.800	465.500	351.600	397.800	429.400	426.700	

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	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	292.900	222.100	184.200	203.900	238.900	271.900	175.700	259.600	196.300	203.500	227.100	237.100	231.900	292.100	166.500	177.500
RW5 - Raw Water Well #5	231.700	174.600	144.800	160.500	137.200	141.900	133.900	190.000	152.800	158.900	175.500	183.300	180.600	229.600	56.400	138.500
RW6 - Raw Water Well #6	318.900	239.700	200.700	220.300	190.600	295.100	189.900	262.600	211.200	217.700	243.700	254.800	249.700	315.600	189.600	190.900
RW7 - Raw Water Well #7	542.900	405.000	336.900	371.500	550.300	496.200	320.300	445.400	357.300	335.700	412.700	431.100	401.300	533.500	322.600	323.100
RW8 - Raw Water Well #8	538.200	401.700	334.100	369.000	693.300	492.800	317.400	442.100	353.900	338.700	410.000	427.900	397.900	528.300	318.900	321.000
November	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	238.200	235.200	250.300	244.400	244.400	214.300	153.800	190.200	227.000	227.800	246.600	231.000	146.200	281.900	275.700	
RW5 - Raw Water Well #5	184.600	183.100	195.500	189.800	197.000	164.900	119.400	144.400	175.800	176.500	191.200	178.600	114.800	229.000	211.600	
RW6 - Raw Water Well #6	222.500	254.800	272.000	263.800	273.700	231.500	167.200	205.700	245.800	246.600	269.800	251.800	160.200	317.500	295.600	
RW7 - Raw Water Well #7	430.700	428.200	457.700	475.100	464.000	389.600	280.600	346.300	412.800	415.100	448.900	422.900	266.000	538.400	501.200	
RW8 - Raw Water Well #8	427.500	425.400	453.900	318.100	460.200	387.000	278.500	343.900	409.400	412.000	444.500	419.800	263.100	534.700	496.700	

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	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	247.700	292.300	283.800	266.700	454.100	381.200	269.400	265.300	294.900	291.200	287.200	288.100	290.900	273.700	284.000	
RW5 - Raw Water Well #5	191.200	223.800	217.100	204.900	343.600	269.600	175.700	205.900	229.600	227.400	224.000	101.300	228.000	214.100	219.700	
RW6 - Raw Water Well #6	267.300	312.500	304.700	288.100	282.200	412.700	292.300	287.800	321.100	315.800	311.700	313.300	317.400	297.300	306.800	
RW7 - Raw Water Well #7	450.300	530.600	515.800	485.600	821.100	692.900	490.900	480.900	536.700	510.300	519.700	521.300	528.000	496.100	514.300	
RW8 - Raw Water Well #8	446.900	526.600	511.900	480.800	813.000	685.800	486.600	477.000	532.900	505.900	514.600	517.400	523.800	491.300	510.000	
December	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW3 - Raw Water Well #3	255.400	295.000	275.900	290.200	276.600	278.500	288.200	296.700	299.700	337.700	186.400	308.200	295.900	301.500	312.300	
RW5 - Raw Water Well #5	219.800	228.800	216.300	236.900	214.200	214.500	221.500	224.900	224.700	256.000	223.500	235.500	227.700	229.900	240.800	
RW6 - Raw Water Well #6	310.100	320.600	301.700	315.300	302.500	304.400	313.400	322.100	324.600	225.900	316.400	332.300	321.200	326.600	337.100	
RW7 - Raw Water Well #7	516.700	535.600	500.900	527.100	500.100	502.700	518.300	532.800	538.700	604.800	522.700	548.800	528.500	538.000	556.700	
RW8 - Raw Water Well #8	512.500	531.500	497.300	523.200	498.600	502.700	519.900	534.100	370.800	504.100	526.000	553.400	531.400	538.700	558.700	

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	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW3 - Raw Water Well #3	265.000	319.200	300.200	285.900	291.300	292.800	411.000	441.700	323.000	309.600	288.500	294.900	293.300	316.200	328.600	297.600
RW5 - Raw Water Well #5	206.000	245.900	230.700	220.500	223.900	226.100	315.000	346.900	248.900	239.700	224.000	228.000	227.500	246.600	255.000	230.500
RW6 - Raw Water Well #6	290.500	347.500	327.200	311.900	317.900	320.500	446.200	484.500	354.000	339.700	316.500	317.800	322.100	346.600	361.500	327.400
RW7 - Raw Water Well #7	526.000	568.800	534.400	509.800	519.300	523.000	381.600	351.200	574.900	551.100	510.000	532.600	522.000	562.000	583.800	528.000
RW8 - Raw Water Well #8	528.900	573.900	539.600	514.600	524.300	529.200	386.500	353.500	582.500	558.800	516.100	539.200	529.200	570.300	594.300	537.500