



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

2010 Annual Compliance/Summary Report
for the
Dymond Drinking Water System



Prepared by the Ontario Clean Water Agency
on behalf of the Corporation of the City of Temiskaming Shores

TABLE OF CONTENTS

Annual Report	2
1.0 INTRODUCTION	2
2.0 DESCRIPTION OF THE DRINKING WATER SYSTEM	3
3.0 LIST OF WATER TREATMENT CHEMICALS USED OVER THE REPORTING PERIOD	3
4.0 SIGNIFICANT EXPENSES INCURRED TO THE DRINKING WATER SYSTEM.....	3
5.0 DETAILS ON NOTICES OF ADVERSE TEST RESULTS AND OTHER PROBLEMS REPORTED TO & SUBMITTED TO THE SPILLS ACTION CENTER	4
6.0 .MICROBIOLOGICAL TESTING PERFORMED DURING THE REPORTING PERIOD	4
7.0 OPERATIONAL TESTING PERFORMED DURING THE REPORTING PERIOD.....	4
Summary Report	9
1.0 INTRODUCTION.....	9
2.0 REQUIREMENTS THE SYSTEM FAILED TO MEET.....	9
3.0 SUMMARY OF QUANTITIES & FLOW RATES	10
4.0 CONCLUSION	14

LIST OF APPENDICES

APPENDIX A – Monthly Summary of Microbiological Test Results

APPENDIX B – Monthly Summary of Operational Data

**Section 11
ANNUAL REPORT**

Drinking-Water System Name: DYMOND DRINKING WATER SYSTEM
Drinking-Water System Number: 220000335
Drinking-Water System Owner: The Corporation of the City of Temiskaming Shores
Drinking-Water System Category: Large Municipal, Residential System
Reporting Period: January 1, 2010 to December 31, 2010

1.0 INTRODUCTION

Does your Drinking-Water System serve more than 10,000 people? No

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

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

City of Temiskaming Shores
Temiskaming Shores Administration Office
325 Farr Drive, P.O. Box 2050
Haileybury, ON P0J 1K0

Drinking-Water Systems that receive drinking water from the Dymond Drinking Water System:

The Dymond Drinking Water System provides all drinking water to the Community of Dymond.

The Annual Report was not provided to any other Drinking Water System owners.

The Ontario Clean Water Agency prepared the 2010 Annual Report for the Dymond Drinking Water System and provided a copy to the system owner; the City of Temiskaming Shores. The Dymond Drinking Water System is a stand-alone system that does not receive water from or send water to another system.

Notification to system users that the Annual Report is available for viewing is accomplished through:

- 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 – Municipal building posting**

2.0 DESCRIPTION OF THE DRINKING WATER SYSTEM

The Dymond Water Treatment Plant (WTP) is owned by the Corporation of the City of Temiskaming Shores. It is a well supply that services the community of Dymond, located at the southwest corner of Raymond Street and Crystal Crescent. The Dymond treatment system is operated by the Ontario Clean Water Agency (OCWA) and the distribution system is operated by the City of Temiskaming Shores Public Works Department. It is classified as a Large Municipal Residential Drinking Water System and services approximately 500 residents.

The system draws its water from two groundwater source wells, Well 1 and 2. Well 1 is an 88.4 meter deep drilled well equipped with a submersible pump rated at 18.9 L/s and powered by a 14.9 kW motor. Video inspection of the well on March 13, 2008 showed the well casing is driven into the top of the bedrock at a depth of about 16.5 meters (International Water Supply Ltd., 2008).

Well 2 is a 93.0 meter deep drilled well equipped with a submersible pump that has a rated capacity of 17.05 L/s and powered by a 14.9 kW motor. Video inspection of the well on March 13, 2008 showed the well casing is driven into the top of the bedrock at a depth of about 19.1 meters (International Water Supply Ltd., 2008).

Both wellheads are capped and terminate inside two secure well houses separate from the water treatment plant. Raw water from both wells join at a common header where sodium hypochlorite is injected for primary disinfection. The chlorination system consists of two chemical metering pumps, one duty and one standby with automatic switchover in case the duty pump fails.

Once chlorinated, the treated water enters four interconnected baffled reservoir cells with a combined volume of 1 395 m³. The water is then directed to the single storey concrete pumping station which houses six high lift pumps; four submersible pumps (each rated at 22.7 L/s) and two vertical turbine pumps (each rated at 28.2 L/s). The treated water is directed into the distribution system. There is no post-treatment storage facility associated with this system, as storage is incorporated within the treatment plant.

A 275 kW emergency diesel generator located in the main water treatment facility is used to provide backup during power failures.

3.0 LIST OF WATER TREATMENT CHEMICALS USED OVER THE REPORTING PERIOD

The following chemicals were used in the water treatment process at the Dymond Water Treatment Plant:

Sodium Hypochlorite – Disinfection

4.0 SIGNIFICANT EXPENSES INCURRED TO THE DRINKING WATER SYSTEM

The following work was scheduled and completed in 2010:

Entry alarm system upgraded to include the well houses.

All routine maintenance functions were accomplished through OCWA's comprehensive Workplace Management computerized work order system.

5.0 DETAILS ON NOTICES OF ADVERSE TEST RESULTS AND OTHER PROBLEMS REPORTED TO & SUBMITTED TO THE SPILLS ACTION CENTER

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
The Dymond Drinking Water System demonstrated compliance with the SDWA subsection 18(1) and O. Reg. 170/03 Schedule 16-4 during the 2010 reporting period.					

6.0 MICROBIOLOGICAL TESTING PERFORMED DURING THE REPORTING PERIOD

Sample Type	Number of Samples	Range of <i>E. coli</i> Results (min to max)	Range of Total Coliform Results (min to max)	Number of HPC Samples	Range of HPC Results (min to max)
Raw (Well 1)	52	<1 to <1	<1 to 11	0	N/A
Raw (Well 2)	52	<1 to <1	<1 to 46	0	N/A
Treated	52	<1 to <1	<1 to <1	52	<10 to 690
Distribution	166	<1 to <1	<1 to <1	60	<10 to 1140

Maximum Acceptable Concentration (MAC) for *E. coli* = 0 Counts/100 mL

MAC for Total Coliforms = 0 Counts/100 mL

Refer to *Appendix A* for a monthly summary of microbiological test results.

7.0 OPERATIONAL TESTING PERFORMED DURING THE REPORTING PERIOD

Continuous Flow Analyzers in Treatment Process

Parameter	Number of Samples	Range of Results (min to max)	Unit of Measure
Free Chlorine	8760	0.40 to 1.91	mg/L

Note: For continuous monitors use 8760 as the number of samples for the year.

Summary of Chlorine Residuals in the Distribution System

Parameter	Number of Samples	Range of Results (min to max)	Unit of Measure	Standard
Free Chlorine	364	0.06 to 1.25	mg/L	≥ 0.05

Note: Four (4) chlorine residual samples are collected one day and three (3) on a second day of each week. The sample sets must be collected at least 48-hours apart and samples collected on the same day must be from different locations.

Summary of Turbidity Data in the Raw Water

Parameter	Number of Samples	Range of Results (min to max)	Unit of Measure
Turbidity (Well 1)	44	0.91 to 29	NTU
Turbidity (Well 2)	44	0.90 to 21	NTU

Summary of Nitrate & Nitrite Data at the Water Treatment Plant

Date of Sample	Nitrate Result Value	Nitrite Result Value	Unit of Measure	Exceedance
January 11	<0.1	<0.05	mg/L	No
April 12	<0.1	<0.05	mg/L	No
July 12	<0.1	<0.05	mg/L	No
October 25	0.23	<0.05	mg/L	No

MAC for Nitrate = 10 mg/L

MAC for Nitrite = 1 mg/L

Summary of Total Trihalomethane Data in the Distribution System

Date of Sample	Result Value	Unit of Measure	Running Average	Exceedance
January 11	26.3	ug/L	34.8	No
April 13	28.6	ug/L		
July 12	33.9	ug/L		
October 25	50.4	ug/L		

MAC for Trihalomethanes = 100 ug/L (Four Quarter Running Average)

Summary of Most Recent Lead Data

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

The Dymond Drinking Water System qualified for reduced sampling as described in section 15.1-1 of Ontario Regulation 170/03. Therefore sampling and testing was not required in 2010. The next sample periods are scheduled for December 15, 2010 to April 15, 2011 and June 15, 2011 to October 15, 2011.

Location Type	Number of Samples	Range of Lead Results (min – max)	Unit of Measure	Number of Exceedances
Plumbing	22	<0.0005 - 0.0021	mg/L	No
Distribution	2	<0.0005 - <0.0005	mg/L	No

MAC for Lead = 0.010 mg/L

Location Type	Number of Samples	Range of pH Results (min to max)	Range of Alkalinity Results (min to max)
Plumbing	22	7.61 to 7.98	N/A
Distribution	2	7.72 to 7.87	268 to 271

*One round of sampling was completed on April 2, 2009. The second round was not required since the system qualified for reduced sampling after the two sampling rounds in 2008.

Summary of Most Recent Schedule 23 Inorganic Data at the Water Treatment Plant

(Sample required every 36 months)

Parameter	Result Value	Unit of Measure	MAC	Exceedance
Antimony	<0.5	ug/L	6	No
Arsenic	1.2	ug/L	25	No
Barium	24.1	ug/L	1000	No

Parameter	Result Value	Unit of Measure	MAC	Exceedance
Boron	73.9	ug/L	5000	No
Cadmium	<0.1	ug/L	5	No
Chromium	3.5	ug/L	50	No
Mercury	<0.1	ug/L	1.0	No
Selenium	<1	ug/L	10	No
Uranium	<1	ug/L	20	No

Sample Date: October 20, 2008

Summary of Most Recent Schedule 24 Organic Data at the Water Treatment Plant

(Sample required every 36 months)

Parameter	Result Value	Unit of Measure	MAC	Exceedance
Alachlor	<0.41	ug/L	5	No
Aldicarb	<0.5	ug/L	9	No
Aldrin + Dieldrin	<0.004	ug/L	0.7	No
Atrazine + N-dealkylated metabolites	<0.9	ug/L	5	No
Azinphos-methyl	<0.31	ug/L	20	No
Bendiocarb	<1.0	ug/L	40	No
Benzene	<0.25	ug/L	5	No
Benzo(a)pyrene	<0.01	ug/L	0.01	No
Bromoxynil	<0.66	ug/L	5	No
Carbaryl	<1.0	ug/L	90	No
Carbofuran	<1.0	ug/L	90	No
Carbon Tetrachloride	<0.25	ug/L	5	No
Chlordane (Total)	<0.004	ug/L	7	No
Chlorpyrifos	<0.31	ug/L	90	No
Cyanazine	<0.31	ug/L	10	No
Diazinon	<0.31	ug/L	20	No
Dicamba	<0.26	ug/L	120	No
1,2-Dichlorobenzene	<0.25	ug/L	200	No
1,4-Dichlorobenzene	<0.25	ug/L	5	No
Dichlorodiphenyl trichloroethane (DDT) + metabolites	<0.005	ug/L	30	No
1,2-Dichloroethane	<0.25	ug/L	5	No
1,1-Dichloroethylene (vinylidene chloride)	<0.25	ug/L	14	No
Dichloromethane	<0.25	ug/L	50	No
2,4-Dichlorophenol	<0.052	ug/L	900	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	<0.26	ug/L	100	No
Diclofop-methyl	<0.26	ug/L	9	No
Dimethoate	<0.31	ug/L	20	No
Dinoseb	<0.066	ug/L	10	No
Diquat	<7.0	ug/L	70	No
Diuron	<5.0	ug/L	150	No
Glyphosate	<10	ug/L	280	No
Heptachlor + Heptachlor Epoxide	<0.004	ug/L	3	No
Lindane (Total)	<0.001	ug/L	4	No
Malathion	<0.31	ug/L	190	No
Methoxychlor	<0.002	ug/L	900	No

Parameter	Result Value	Unit of Measure	MAC	Exceedance
Metolachlor	<0.21	ug/L	50	No
Metribuzin	<0.21	ug/L	80	No
Monochlorobenzene	<0.25	ug/L	80	No
Paraquat	<1.0	ug/L	10	No
Parathion	<0.21	ug/L	50	No
Pentachlorophenol	<0.052	ug/L	60	No
Phorate	<0.31	ug/L	2	No
Picloram	<0.066	ug/L	190	No
Polychlorinated Biphenyls (PCB)	<0.005	ug/L	3	No
Prometryne	<0.21	ug/L	1	No
Simazine	<0.31	ug/L	10	No
Temephos	<14	ug/L	280	No
Terbufos	<0.21	ug/L	1	No
Tetrachloroethylene	<0.25	ug/L	30	No
2,3,4,6-Tetrachlorophenol	<0.052	ug/L	100	No
Triallate	<0.21	ug/L	230	No
Trichloroethylene	<0.25	ug/L	50	No
2,4,6-Trichlorophenol	<0.052	ug/L	5	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	<0.066	ug/L	280	No
Trifluralin	<0.21	ug/L	45	No
Vinyl Chloride	<0.25	ug/L	2	No

Sample Date: October 20, 2008

Inorganic or Organic Parameter(s) that Exceeded Half the Standard Prescribed in Schedule 2 of Ontario Drinking Water Quality Standards

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year-round residential, large non municipal non residential). Small Municipal Non-Residential has been removed and Non Municipal Year Round Residential has been added.

Parameter	Result Value	Unit of Measure	Date of Sample
No inorganic or organic parameter(s) exceeded half the standard found in Schedule 2 of the ODWS during the reporting period.			

Summary of Most Recent Sodium Data tested at the Water Treatment Plant

(Sample required every 60 months)

Date of Sample	Number of Samples	Result Value	Unit of Measure	Standard	Exceedance
October 26, 2009	1	21.0	mg/L	20	Yes
October 30, 2009*	1	21.9	mg/L	20	Yes

Exceedance reported as per Schedule 16, Section 16-7 of O. Reg. 170/03 (AWQI 92122).

*Resample

Summary of Most Recent Fluoride Data tested at the Water Treatment Plant

(Sample required every 60 months)

Date of Sample	Number of Samples	Result Value	Unit of Measure	Standard	Exceedance
October 26, 2009	1	0.58	mg/L	1.5	No

DYMOND DRINKING WATER SYSTEM

Large Municipal Residential Drinking Water System

SCHEDULE 22

SUMMARY REPORTS FOR MUNICIPALITIES

For the period of
JANUARY 2010 to DECEMBER 2010

Prepared by: The Ontario Clean Water Agency

Prepared for: The Corporation of the City of Temiskaming Shores



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

Schedule 22
SUMMARY REPORTS FOR MUNICIPALITIES

1.0 INTRODUCTION

The Summary Report is prepared in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation 170/03 for the reporting period of January 1, 2010 to December 31, 2010. The owner of the drinking water system must ensure that the report is provided to members of municipal council.

The report must list the requirements of the Safe Drinking Water Act, its regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any Provincial Officer Order the system failed to meet during the reporting period. The report must also specify the duration of the failure, and for each failure referred to, describe the measures that were taken to correct the failure.

The Safe Drinking Water Act (2002) and the drinking water regulations can be viewed at the following website: <http://www.e-laws.gov.on.ca>.

To enable the owner of the system to assess the rated capacity of their system to meet existing and future planned water uses, the following information is also required in the report:

1. A summary of the quantities and flow rates of water supplied, including the monthly average and the maximum daily flows.
2. A comparison of the summary to the rated capacity and flow rates approved in the systems approval, permits and licence (where applicable).

2.0 REQUIREMENTS THE SYSTEM FAILED TO MEET

According to documentation available to the Ontario Clean Water Agency, the following table lists any requirements the system failed to meet during the 2010 reporting period.

Drinking Water Legislation	Requirement(s) the System Failed to Meet	Duration	Corrective Actions	Status
Permit to Take Water No. 4184-6RWLYL, issued July 21, 2006	Permit to Take Water No. 4184-6RWLYL allows the Dymond Drinking Water System to take a maximum of 910 m ³ /day from Well 1. This was exceeded on two occasions in 2010: July 8 = 946 m ³ /day July 9 = 946 m ³ /day	2 days	These exceedances occurred during hydrant flushing events, as part of the Cities distribution system maintenance program. No further action required.	Resolved

3.0 SUMMARY OF QUANTITIES & FLOW RATES

The following Water Usage Tables summarize the quantities and flow rates of water taken and produced during the 2010 reporting period, including average monthly volumes, maximum monthly volumes, total monthly volumes and maximum flow rates.

Water Usage Tables

Raw Water Well #1- Monthly Usage for 2010

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Average Volume (m ³ /day)	301	285	307	297	370	354	453	438	321	334	298	325	341
Maximum Volume (m ³ /day)	355	328	361	332	642	504	946	895	396	575	378	411	946
Total Volume (m ³)	9322	7990	9528	8918	11485	10624	14051	13587	9625	10359	8931	10066	124485
Maximum Flow Rate (L/s)	18	18	19	19	18	19	18	19	18	18	18	18	19

Raw Water Well #2- Monthly Usage for 2010

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Average Volume (m ³ /day)	267	269	282	277	362	350	430	415	292	352	298	307	326
Maximum Volume (m ³ /day)	323	314	319	304	981	605	1001	1096	401	772	497	362	1096
Total Volume (m ³)	8283	7544	8737	8304	11232	10499	13323	12851	8767	10909	8937	9506	118892
Maximum Flow Rate (L/s)	21	21	21	21	21	21	21	21	21	21	21	21	21

Treated Water - Monthly Usage for 2010

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Average Volume (m ³ /day)	532	494	541	499	641	665	835	787	541	629	564	615	613
Maximum Volume (m ³ /day)	603	577	613	549	1265	1077	1524	1673	703	1106	607	703	1673
Total Volume (m ³)	16487	13828	16772	14960	19883	19947	25879	24382	16244	19488	16930	19061	223861
Maximum Flow Rate (L/s)	25	35	45	39	66	93	105	63	35	103	60	63	105



Comparison of Summary to the Rated Capacity & Flow Rates Approved in the Systems Approval

In accordance with section 4.1 of Certificate of Approval No. 9261-6DLQES, the Dymond Drinking Water System shall not be operated to exceed a maximum flow rate of 36 L/s into the treatment system. At no point during the reporting period did the plant exceed this rate.

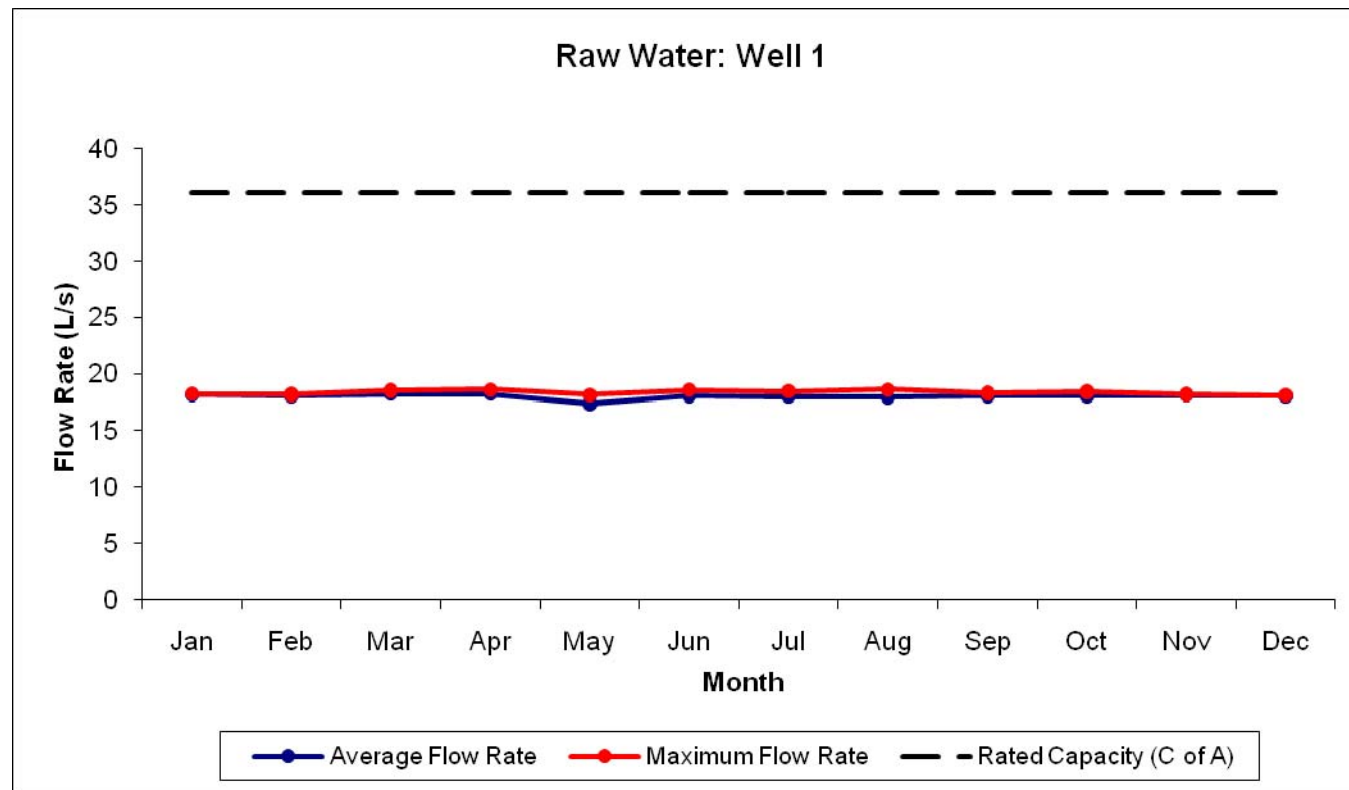
The maximum daily flow rate of water entering the treatment system was measured at 19 L/s for Well 1 and 21 L/s for Well 2.

The following tables and graphs compare the raw water flows to the approved rated capacity of the system.

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

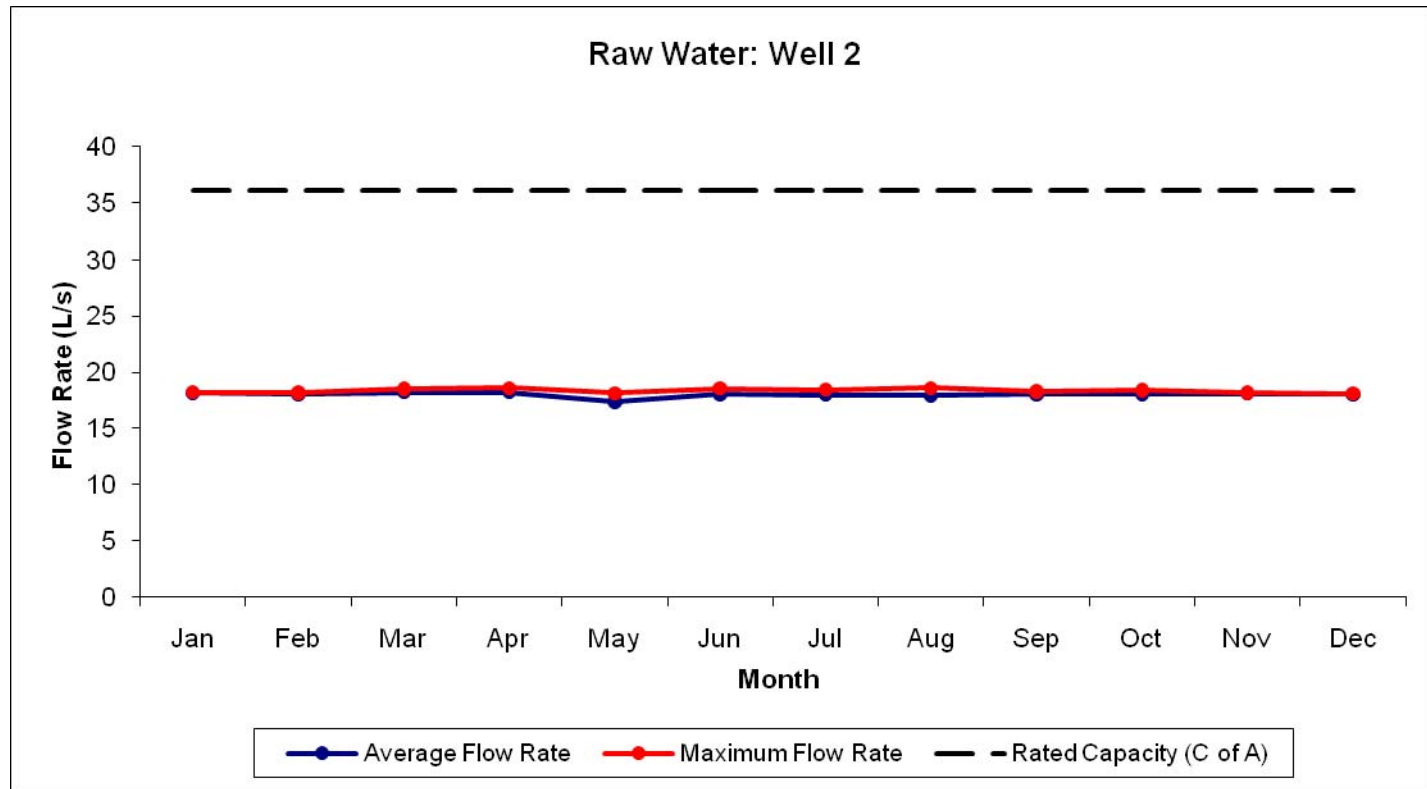
2010 Raw Flow Summary (Raw Water Source: Well 1)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Average Flow Rate (L/s)	18	18	18	18	17	18	18	18	18	18	18	18	18
Maximum Flow Rate (L/s)	18	18	19	19	18	19	18	19	18	18	18	18	19
Rated Capacity (C of A)	36	36	36	36	36	36	36	36	36	36	36	36	36
% Rated Capacity	51	50	51	52	50	52	51	52	51	51	50	50	52



2010 Raw Flow Summary
(Raw Water Source: Well 2)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Average Flow Rate (L/s)	21	21	21	21	20	21	21	21	21	21	21	21	21
Maximum Flow Rate (L/s)	21	21	21	21	21	21	21	21	21	21	21	21	21
Rated Capacity (C of A)	36	36	36	36	36	36	36	36	36	36	36	36	36
% Rated Capacity	59	59	58	59	58	59	58	58	58	59	59	59	59



4.0 CONCLUSION

The Dymond Drinking Water System was able to operate in accordance with the terms and conditions of Certificate of Approval No. 9261-6DLQES, without exceeding the approved rated capacity while meeting the community's demand for water use.



APPENDIX A

Monthly Summary of Microbiological Test Results



Ontario Clean Water Agency Monthly Process Data Report

Municipality: Twp of Dymond
 Facility: [6208] - Dymond Water Treatment
 Works: [220000335] - Dymond Water Treatment
 Classification: Class 2 Water Treatment
 Water Source: groundwater - two well system

Period: 01/01/2010 to 12/31/2010
 Serviced Population: 500
 Total Design Capacity(m³/day): 3,110.4

	Jan/2010	Feb/2010	Mar/2010	Apr/2010	May/2010	Jun/2010	Jul/2010	Aug/2010	Sep/2010	Oct/2010	Nov/2010	Dec/2010	<-- Summary -->
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Treated Water\Microbiological - Treated Water

HPC (cfu/mL)													
Cnt	4.0	4.0	5.0	4.0	5.0	4.0	4.0	5.0	4.0	4.0	5.0	4.0	52.0
Max	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	690.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	690.0
Min	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0

Distribution System\Microbiological - Distribution System

E. Coli Samples (# collected)													
Sum	12.0	12.0	17.0	12.0	15.0	12.0	12.0	15.0	20.0	12.0	15.0	12.0	166.0

E. Coli (cfu/100 mL): Minimum													
Min	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

E. Coli (cfu/100 mL): Maximum													
Avg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Max	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

TC Samples (# collected)													
Sum	12.0	12.0	17.0	12.0	15.0	12.0	12.0	15.0	20.0	12.0	15.0	12.0	166.0

TC (cfu/100 mL): Minimum													
Min	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

TC (cfu/100 mL): Maximum													
Avg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Max	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

HPC Samples (# collected)													
Sum	4.0	4.0	5.0	4.0	5.0	4.0	4.0	5.0	12.0	4.0	5.0	4.0	60.0

HPC (cfu/mL): Minimum													
Min	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0

HPC (cfu/mL): Maximum													
Avg	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	292.5	24.0	91.429	< 10.0	< 10.0	< 10.0	42.182
Max	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	1,140.0	80.0	580.0	< 10.0	< 10.0	< 10.0	1,140.0

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



APPENDIX B

Monthly Summary of Operational Data



Ontario Clean Water Agency Monthly Process Data Report

Municipality: Twp of Dymond
 Facility: [6208] - Dymond Water Treatment
 Works: [220000335] - Dymond Water Treatment
 Classification: Class 2 Water Treatment
 Water Source: groundwater - two well system

Period: 01/01/2010 to 12/31/2010
 Serviced Population: 500
 Total Design Capacity(m³/day): 3,110.4

	Jan/2010	Feb/2010	Mar/2010	Apr/2010	May/2010	Jun/2010	Jul/2010	Aug/2010	Sep/2010	Oct/2010	Nov/2010	Dec/2010	<-- Summary -->
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Raw Water\Raw Water - Well #1

Aquifer Level (ft): Avg.

Avg	67.71	62.214	64.032	61.967	66.968	69.633	79.806	76.935	70.833	75.862	65.5	71.667	69.472
Cnt	31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	29.0	30.0	30.0	362.0
Max	85.0	87.0	92.0	82.0	117.0	128.0	143.0	144.0	95.0	125.0	110.0	84.0	144.0
Min	50.0	49.0	50.0	50.0	50.0	50.0	55.0	56.0	55.0	54.0	50.0	52.0	49.0

Turbidity: Mean (NTU)

Avg	3.5	3.273	4.806	4.017	0.987	1.735	12.17	6.533	5.897	11.185	9.38	5.425	5.84
Cnt	4.0	3.0	5.0	3.0	3.0	4.0	3.0	3.0	3.0	4.0	5.0	4.0	44.0
Max	4.0	4.06	8.5	7.19	1.04	2.01	29.0	7.3	9.6	19.0	15.0	8.2	29.0
Min	3.0	1.96	1.84	2.41	0.91	1.58	0.93	5.7	3.5	2.4	4.4	3.5	0.91

Raw Water\Aesthetic Obj - Well #1

Colour (TCU)

Avg	6.25	6.5	6.0	9.333	5.0	6.25	26.667	11.667	13.333	17.5	11.4	4.5	9.978
Cnt	4.0	4.0	5.0	3.0	3.0	4.0	3.0	3.0	3.0	4.0	5.0	4.0	45.0
Max	10.0	10.0	10.0	10.0	5.0	10.0	40.0	15.0	20.0	35.0	17.0	5.0	40.0
Min	5.0	5.0	4.0	8.0	5.0	5.0	10.0	10.0	5.0	10.0	10.0	4.0	4.0

Raw Water\Raw Water - Well #2

Aquifer Level (ft): Avg.

Avg	75.516	68.821	72.129	67.933	73.452	75.7	86.742	84.032	78.767	83.207	74.4	79.0	76.691
Cnt	31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	29.0	30.0	30.0	362.0
Max	94.0	96.0	102.0	94.0	110.0	134.0	146.0	147.0	102.0	130.0	100.0	95.0	147.0
Min	56.0	54.0	56.0	56.0	56.0	61.0	62.0	65.0	61.0	60.0	59.0	59.0	54.0

Turbidity: Mean (NTU)

Avg	2.05	2.32	3.176	4.267	1.387	3.25	13.533	4.567	2.86	4.508	5.664	8.275	4.621
Cnt	4.0	3.0	5.0	3.0	3.0	4.0	3.0	3.0	3.0	4.0	5.0	4.0	44.0
Max	2.9	4.03	7.25	7.25	1.88	3.81	21.0	6.4	4.2	6.63	7.97	10.1	21.0
Min	1.5	0.9	1.11	2.29	0.99	2.5	7.6	2.2	1.98	2.8	2.6	6.2	0.9

Raw Water\Aesthetic Obj - Well #2

Colour (TCU)

Avg	4.0	2.5	4.6	9.333	5.0	5.0	25.0	6.667	6.667	8.75	10.0	5.0	7.378
Cnt	4.0	4.0	5.0	3.0	3.0	4.0	3.0	3.0	3.0	4.0	5.0	4.0	45.0
Max	5.0	5.0	10.0	10.0	5.0	5.0	40.0	10.0	10.0	10.0	10.0	5.0	40.0
Min	3.0	1.0	2.0	8.0	5.0	5.0	15.0	5.0	5.0	5.0	10.0	5.0	1.0



**Ontario Clean Water Agency
Monthly Process Data Report**

Municipality: Twp of Dymond
 Facility: [6208] - Dymond Water Treatment
 Works: [220000335] - Dymond Water Treatment
 Classification: Class 2 Water Treatment
 Water Source: groundwater - two well system

Period: 01/01/2010 to 12/31/2010
 Serviced Population: 500
 Total Design Capacity(m³/day): 3,110.4

	Jan/2010	Feb/2010	Mar/2010	Apr/2010	May/2010	Jun/2010	Jul/2010	Aug/2010	Sep/2010	Oct/2010	Nov/2010	Dec/2010	<-- Summary -->
Treated Water\Health - Treated Water													
Cl Residual: Free Min. (mg/L)													
Min	0.7	0.77	0.61	0.5	0.55	0.573	0.599	0.403	0.472	0.645	0.895	0.836	0.403
Cl Residual: Free Max. (mg/L)													
Max	1.311	1.202	1.037	0.891	0.916	1.369	1.151	1.913	1.025	1.131	1.123	1.123	1.913
Cl Residual: Free Mean (mg/L)													
Avg	0.984	1.029	0.891	0.721	0.752	0.987	0.88	0.821	0.748	0.936	1.013	1.012	0.897
Distribution System\Health - Distribution System													
Cl Res. Dist Samples (# collected)													
Sum	28.0	28.0	32.0	31.0	32.0	28.0	31.0	32.0	31.0	28.0	32.0	31.0	364.0
Cl Res. in Dist.: Free Min. (mg/L)													
Min	0.19	0.27	0.23	0.21	0.19	0.15	0.34	0.13	0.06	0.18	0.5	0.22	0.06
Cl Res. in Dist.: Free Max. (mg/L)													
Max	1.04	1.04	0.94	0.77	0.76	1.25	1.09	0.94	0.9	0.96	1.12	0.95	1.25
Cl Residual: Free Mean (mg/L)													
Avg	0.631	0.731	0.663	0.532	0.503	0.758	0.783	0.594	0.356	0.571	0.864	0.654	0.635

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