

Part 1 - ANNUAL REPORT (as required by O. Reg. 170/03, Section 11)

Drinking-Water System Number:	210000577
Drinking-Water System Name:	Mitchell Drinking Water System
Drinking-Water System Owner:	Municipality of West Perth
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2020 to December 31, 2020

Complete if your Category is Large Municipal Residential or Small Municipal Residential	Complete for all other Categories
<i>Does your Drinking-Water System serve more than 10,000 people?</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>Number of Designated Facilities served:</i>
<i>Is your annual report available to the public at no charge on a web site on the Internet?</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>Did you provide a copy of your annual report to all Designated Facilities you serve?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No
<i>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</i> Municipal Office, West Perth Public Library and Municipality of West Perth Website	<i>Number of Interested Authorities you report to:</i> <i>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:	
Drinking Water System Name	Drinking Water System Number
N/A	

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

Indicate how you notified system users that your annual report is available and is free of charge.		
<input checked="" type="checkbox"/> Public access/notice via the web	<input checked="" type="checkbox"/> Public access/notice via Government Office	<input type="checkbox"/> Public access/notice via a newspaper
<input checked="" type="checkbox"/> Public access/notice via Public Request	<input checked="" type="checkbox"/> Public access/notice via a Public Library	<input type="checkbox"/> Public access/notice via Other Method _____

Describe your Drinking Water System

The Mitchell Drinking Water System is a Class II Distribution and Supply sub-system owned and operated by the Municipality of West Perth. The system consists of four drilled groundwater wells.

Well #1, contained within Well-house #1, is 23.2m deep and has a 200mm steel liner inserted into the original 305mm well casing. Raw water from this well is pumped through piping past Well-house #2 where, when required, it is combined with raw water from Well #2 and directed to Distribution Center 123.

Well #2 is 30.2m deep and has a 200mm steel liner inserted into the original 305mm well casing. Raw water is combined with raw water from Well #1 when required and directed to Distribution Center 123.

Well #3 is the main well for Distribution Center 123. The well is 54.7m deep with a 200mm steel liner inserted into the original 305mm well casing. Water from this well is conveyed through piping to Distribution Center 123.

Well #4, located within Distribution Center 4, was drilled to a final depth of 71.6m with a 300mm steel casing. Raw water from this well is treated within Distribution Center 4. Raw water from all four wells is typically free from any bacteriological activity. The water is hard and naturally has elevated levels of fluoride. The turbidity of the raw water ranges from 0 to 1 NTU.

Other than the normal increase in usage during the summer months, there are no major operational challenges due to event-driven fluctuations.

Distribution Center 123 is located on the west side of St. George St. The storage reservoir is located adjacent to the eastern limit of the plant. It has a baffled section with a capacity of 155m³ and an unbaffled section with a capacity of 243m³. Raw water from Wells 1, 2 and 3 is conveyed into the plant, after which treatment chemicals are injected; sodium silicate for iron sequestering, and sodium hypochlorite for disinfection. The treated water is directed into the reservoir for contact time and then through the high lift pumps into the distribution system. The disinfection system at Distribution Center 123 has been designed with backup chemical pumps.

Distribution Center 4 is located near the NW corner of Arthur and Herbert streets. The plant includes a disinfection system and a 305m³ baffled, below grade reservoir. Primary disinfection is achieved using liquid sodium hypochlorite. Sodium silicate is injected for iron sequestering. As in Distribution Center 123, the treated water is directed into the reservoir for contact time and then through the high lift pumps into

the distribution system. The disinfection system at Distribution Center 4 has been designed with backup chemical pumps.

The Mitchell Standpipe is located at 97 Arthur Street. It is approximately 46m high and approximately 11m wide. The standpipe control building houses a series of water pipes and valves used to regulate the level of the standpipe. A diesel-powered fire pump is also connected to the piping system.

The Mitchell Water Tower is located at 125 Clarke Street. It is approximately 41m high and has a capacity of 1,000 m³. The control room has pipes and valves, level and flow monitoring equipment, and re-chlorination equipment.

The works currently service a population of approximately 4,000. There is approximately 42 km of distribution piping of various diameters and materials contained within the Mitchell Drinking Water System. There are approximately 1950 service connections and 233 fire hydrants. Flow varies across the grid, with lower flow volumes in the most remote and dead-end parts of the grid. Pressure within the distribution system is maintained by the level of the standpipe and water tower. If required, the distribution system pressure can be controlled by the high lift pump at Distribution Center 4.

List all water treatment chemicals used over this reporting period

- Liquid Chlorine 12% - NSF
- Liquid Chlorine 6% - NSF
- Sodium Silicate - NSF

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

- Henry St. Bridge watermain
- Toronto St. watermain from St. George St. to St. David St.
- Henry St and St. George St. intersection watermain
- Well 3 generator
- Standpipe coating repair and safety upgrades
- VFD's for Well 1, Well 2, Well 4 and Highlift 4

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

Incident Date	Parameter	Result	Corrective Action	Corrective Action Date
N/A				

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period					
	Number of Samples	Range of E. Coli Results (Min-Max)	Range of Total Coliform Results (Min-Max)	Number of HPC Samples	Range of HPC Results (Min-Max)
Raw Well #1	52	0-0	0-0	N/A	N/A
Raw Well #2	52	0-0	0-0	N/A	N/A
Raw Well #3	52	0-0	0-0	N/A	N/A
Raw Well #4	52	0-0	0-0	N/A	N/A
POE #123	52	0-0	0-0	52	0-1
POE #4	52	0-0	0-0	52	0-5
Distribution	210	0-0	0-0	52	0-3

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report					
	Continuous Monitoring	Number of Grab Samples	Range of Results Continuous (Min-Max)	Range of Results Grab Samples (Min-Max)	Units
Turbidity Raw Well #1	N/A	53	N/A	0.05-0.27	NTU
Turbidity Raw Well #2	N/A	53	N/A	0.06-0.19	NTU
Turbidity Raw Well #3	N/A	53	N/A	0.06-0.18	NTU
Turbidity Raw Well #4	N/A	53	N/A	0.05-0.18	NTU
Chlorine - POE 123	8760	555	0.00* – 1.83	0.91-1.75	mg/L
Chlorine - POE 4	8760	561	0.00* – 2.12*	0.94-1.66	mg/L
Distribution	N/A	366	N/A	0.75-1.34	mg/L

*Value due to operational maintenance on analyzer.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument				
Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A				

Distribution Center 123

Summary of Inorganic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Apr 04, 2018	ND	µg/L	No
Arsenic	Apr 04, 2018	3.0	µg/L	No
Barium	Apr 04, 2018	57	µg/L	No
Boron	Apr 04, 2018	110	µg/L	No
Cadmium	Apr 04, 2018	ND	µg/L	No
Chromium	Apr 04, 2018	ND	µg/L	No
Lead - see results below				
Mercury	Apr 04, 2018	ND	µg/L	No
Selenium	Apr 04, 2018	ND	µg/L	No
Sodium	Nov 05, 2018	35	mg/L	Yes
Uranium	Apr 04, 2018	ND	µg/L	No
Fluoride	Dec 18, 2017	1.9	mg/L	Yes
Nitrite	Jan 13, 2020	ND	µg/L	No
Nitrate	Jan 13, 2020	ND	µg/L	No
Nitrite	Apr 06, 2020	ND	µg/L	No
Nitrate	Apr 06, 2020	ND	µg/L	No
Nitrite	Jul 07, 2020	ND	µg/L	No
Nitrate	Jul 07, 2020	ND	µg/L	No
Nitrite	Oct 05, 2020	ND	µg/L	No
Nitrate	Oct 05, 2020	ND	µg/L	No

ND = Not detected

Distribution Center 4

Summary of Inorganic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Dec. 02 2019	ND	µg/L	No
Arsenic	Dec. 02 2019	1.8	µg/L	No
Barium	Dec. 02 2019	59	µg/L	No
Boron	Dec. 02 2019	120	µg/L	No
Cadmium	Dec. 02 2019	ND	µg/L	No
Chromium	Dec. 02 2019	ND	µg/L	No
Lead - see results below				
Mercury	Dec 02, 2019	ND	µg/L	No
Selenium	Dec 02, 2019	ND	µg/L	No
Sodium	Dec 02, 2019	47	mg/L	Yes
Uranium	Dec 02, 2019	0.19	µg/L	No
Fluoride	Dec 18, 2017	1.8	mg/L	Yes
Nitrite	Jan 13, 2020	ND	µg/L	No
Nitrate	Jan 13, 2020	ND	µg/L	No
Nitrite	Apr 06, 2020	ND	µg/L	No
Nitrate	Apr 06, 2020	ND	µg/L	No
Nitrite	Jul 07, 2020	ND	µg/L	No
Nitrate	Jul 07, 2020	ND	µg/L	No
Nitrite	Oct 05, 2020	ND	µg/L	No
Nitrate	Oct 05, 2020	ND	µg/L	No

ND = Not detected

Lead Testing Results

Summary of Lead Results during this reporting period (Winter: Dec 15 – April 15; Summer: June 15 - Oct 15)				
Sampling Period	Location	Distribution System Lead (mg/L)	Distribution System Alkalinity (mg/L)	Any Adverse Water Quality Incidents?
Mar 9, 2020	Well #3 SS	N/A	220	No
Mar 9, 2020	Hydrant #66	N/A	220	No
Mar 9, 2020	Hydrant #135	N/A	210	No
Jul 13, 2020	Well #3 SS	N/A	220	No
Jul 13, 2020	Hydrant #135	N/A	210	No
Jul 13, 2020	Hydrant #61	N/A	210	No

ND = Not detected

Point of Entry 123

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Semivolatile Organics				
2,3,4,6- Tetrachlorophenol	Apr. 9 2018	ND	µg/L	No
2,4,6-Trichlorophenol	Apr. 9 2018	ND	µg/L	No
2,4-D	Apr. 9 2018	ND	µg/L	No
2,4-Dichlorophenol	Apr. 9 2018	ND	µg/L	No
Alachlor	Apr. 9 2018	ND	µg/L	No
Atrazine	Apr. 9 2018	ND	µg/L	No
Des-ethyl atrazine	Apr. 9 2018	ND	µg/L	No
Atrazine+Desethyl-atrazine	Apr. 9 2018	ND	µg/L	No
Bromoxynil	Apr. 9 2018	ND	µg/L	No
Carbaryl	Apr. 9 2018	ND	µg/L	No
Carbofuran	Apr. 9 2018	ND	µg/L	No
Chlorpyrifos(Dursban)	Apr. 9 2018	ND	µg/L	No
Diazinon	Apr. 9 2018	ND	µg/L	No
Dicamba	Apr. 9 2018	ND	µg/L	No
Diclofop-methyl	Apr. 9 2018	ND	µg/L	No
Dimethoate	Apr. 9 2018	ND	µg/L	No
Malathion	Apr. 9 2018	ND	µg/L	No
MCPA	Apr. 9 2018	ND	µg/L	No
Metolachlor	Apr. 9 2018	ND	µg/L	No
Metribuzin(Sencor)	Apr. 9 2018	ND	µg/L	No
Pentachlorophenol	Apr. 9 2018	ND	µg/L	No
Phorate	Apr. 9 2018	ND	µg/L	No
Picloram	Apr. 9 2018	ND	µg/L	No
Prometryne	Apr. 9 2018	ND	µg/L	No
Simazine	Apr. 9 2018	ND	µg/L	No
Terbufos	Apr. 9 2018	ND	µg/L	No
Triallate	Apr. 9 2018	ND	µg/L	No
Trifluralin	Apr. 9 2018	ND	µg/L	No
Benzo(a)pyrene	Apr. 9 2018	ND	µg/L	No
Volatile Organics				
1,1-Dichloroethylene	Apr. 9 2018	ND	µg/L	No
1,2-Dichlorobenzene	Apr. 9 2018	ND	µg/L	No
1,2-Dichloroethane	Apr. 9 2018	ND	µg/L	No
1,4-Dichlorobenzene	Apr. 9 2018	ND	µg/L	No
Benzene	Apr. 9 2018	ND	µg/L	No
Carbon Tetrachloride	Apr. 9 2018	ND	µg/L	No
Chlorobenzene	Apr. 9 2018	ND	µg/L	No

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Methylene Chloride (Dichloromethane)	Apr. 9 2018	ND	µg/L	No
Ethylbenzene	Apr. 9 2018	ND	µg/L	No
Tetrachloroethylene	Apr. 9 2018	ND	µg/L	No
Toluene	Apr. 9 2018	ND	µg/L	No
Trichloroethylene	Apr. 9 2018	ND	µg/L	No
Vinyl Chloride	Apr. 9 2018	ND	µg/L	No
o-Xylene	Apr. 9 2018	ND	µg/L	No
p+m-Xylene	Apr. 9 2018	ND	µg/L	No
Total Xylenes	Apr. 9 2018	ND	µg/L	No
PCBs				
Total PCB	Apr. 9 2018	ND	µg/L	No
THM (RAA)	Q1-Q4 2020	28.80	µg/L	No
HAA (RAA)	Q1-Q4 2020	13.75	µg/L	No
Pesticides & Herbicides				
Glyphosate	Apr. 9 2018	ND	µg/L	No
Diquat	Apr. 9 2018	ND	µg/L	No
Diuron	Apr. 9 2018	ND	µg/L	No
Guthion (Azinphos-methyl)	Apr. 9 2018	ND	µg/L	No
Paraquat	Apr. 9 2018	ND	µg/L	No
Temephos	Apr. 9 2018	ND	µg/L	No

ND = Not detected

Point of Entry 4

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Semivolatile Organics				
2,3,4,6- Tetrachlorophenol	Dec. 2 2019	ND	µg/L	No
2,4,6-Trichlorophenol	Dec. 2 2019	ND	µg/L	No
2,4-D	Dec. 2 2019	ND	µg/L	No
2,4-Dichlorophenol	Dec. 2 2019	ND	µg/L	No
Alachlor	Dec. 2 2019	ND	µg/L	No
Atrazine	Dec. 2 2019	ND	µg/L	No
Des-ethyl atrazine	Dec. 2 2019	ND	µg/L	No
Atrazine+Desethyl-atrazine	Dec. 2 2019	ND	µg/L	No
Bromoxynil	Dec. 2 2019	ND	µg/L	No

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Carbaryl	Dec. 2 2019	ND	µg/L	No
Carbofuran	Dec. 2 2019	ND	µg/L	No
Chlorpyrifos(Dursban)	Dec. 2 2019	ND	µg/L	No
Diazinon	Dec. 2 2019	ND	µg/L	No
Dicamba	Dec. 2 2019	ND	µg/L	No
Diclofop-methyl	Dec. 2 2019	ND	µg/L	No
Dimethoate	Dec. 2 2019	ND	µg/L	No
Malathion	Dec. 2 2019	ND	µg/L	No
MCPA	Dec. 2 2019	ND	µg/L	No
Metolachlor	Dec. 2 2019	ND	µg/L	No
Metribuzin(Sencor)	Dec. 2 2019	ND	µg/L	No
Pentachlorophenol	Dec. 2 2019	ND	µg/L	No
Phorate	Dec. 2 2019	ND	µg/L	No
Picloram	Dec. 2 2019	ND	µg/L	No
Prometryne	Dec. 2 2019	ND	µg/L	No
Simazine	Dec. 2 2019	ND	µg/L	No
Terbufos	Dec. 2 2019	ND	µg/L	No
Triallate	Dec. 2 2019	ND	µg/L	No
Trifluralin	Dec. 2 2019	ND	µg/L	No
Benzo(a)pyrene	Dec. 2 2019	ND	µg/L	No
Volatile Organics				
1,1-Dichloroethylene	Dec. 2 2019	ND	µg/L	No
1,2-Dichlorobenzene	Dec. 2 2019	ND	µg/L	No
1,2-Dichloroethane	Dec. 2 2019	ND	µg/L	No
1,4-Dichlorobenzene	Dec. 2 2019	ND	µg/L	No
Benzene	Dec. 2 2019	ND	µg/L	No
Carbon Tetrachloride	Dec. 2 2019	ND	µg/L	No
Chlorobenzene	Dec. 2 2019	ND	µg/L	No
Methylene Chloride (Dichloromethane)	Dec. 2 2019	ND	µg/L	No
Ethylbenzene	Dec. 2 2019	ND	µg/L	No
Tetrachloroethylene	Dec. 2 2019	ND	µg/L	No
Toluene	Dec. 2 2019	ND	µg/L	No
Trichloroethylene	Dec. 2 2019	ND	µg/L	No
Vinyl Chloride	Dec. 2 2019	ND	µg/L	No
o-Xylene	Dec. 2 2019	ND	µg/L	No
p+m-Xylene	Dec. 2 2019	ND	µg/L	No
Total Xylenes	Dec. 2 2019	ND	µg/L	No
PCBs				
Total PCB	Dec. 2 2019	ND	µg/L	No
THM (RAA)	Q1-Q4 2020	28.80	µg/L	No

Summary of Organic parameters tested during this reporting period or the most recent sample results				
HAA (RAA)	Q1-Q4 2020	13.75	µg/L	No
Pesticides & Herbicides				
Glyphosate	Dec. 2 2019	ND	µg/L	No
Diquat	Dec. 2 2019	ND	µg/L	No
Diuron	Dec. 2 2019	ND	µg/L	No
Guthion (Azinphos-methly)	Dec. 2 2019	ND	µg/L	No
Paraquat	Dec. 2 2019	ND	µg/L	No

ND = Not detected

Point of Entry 123

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.				
Parameter	Sample Date	Result Value	Unit of Measure	ODWS Standard
Fluoride	Dec 18, 2017	1.9	mg/L	1.5

Point of Entry 4

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.				
Parameter	Sample Date	Result Value	Unit of Measure	ODWS Standard
Fluoride	Dec 18, 2017	1.8	mg/L	1.5

Note: Fluoride is naturally occurring in Mitchell's Drinking Water Supply. For more information on fluoride visit Huron Perth Public Health Unit at:

<https://www.hp-ph.ca/en/health-matters/water.aspx>

Part 2 – SUMMARY REPORT (as required by O. Reg. 170/03, Schedule 22)

Non-Compliance with Legislations, Regulations, Approvals & Orders
<p>Raw water flow rates exceed the maximum L/min flow rates as below:</p> <p>February 8, 2020 – Well #2</p> <p>The well pump exceeded the L/min flow rate specified in the Permit to Take Water. This was the initial start up of the well pump. Duration of the exceedance was 1 minute. The maximum amount of water taken per day did not exceed the Permit to Take Water. No corrective action required.</p>

July 23, 2020 – Well #1
The well pump exceeded the L/min flow rate specified in the Permit to Take Water. The flow rate of the well was being set after valve maintenance, once the L/s flow rate was exceeded the valve was throttled back. The duration of the exceedance was 1 minute. The maximum amount of water taken per day did not exceed the Permit to Take Water.

October 13, 2020 – Well #4
The flowmeter of the well pump was being calibrated. The well was off while the calibration simulated flow. Data shows that the well pump exceeded the L/min flow rate specified in the Permit to Take Water for 5 minutes, however it did not. The maximum amount of water taken per day did not exceed the Permit to Take Water. No corrective action required.

Well #1

System Capability Assessment			
Comparison of Flow Rates (raw flow; m ³):			
Month	Average Daily Flow	Maximum Daily Flow	*Max Flow (L/min)
January	227.42	1001.99	1582.80
February	176.52	1116.00	1665.00
March	218.81	1025.00	1587.60
April	233.57	1081.02	1597.80
May	179.10	838.01	1431.60
June	121.70	676.00	1398.60
July	192.16	1002.99	1850.40*
August	166.68	1019.99	1493.40
September	179.70	986.00	1471.80
October	210.55	1164.99	1510.80
November	209.87	942.99	1498.80
December	175.06	1038.00	1492.20
MAXIMUM	N/A	1164.99	1850.40
AVERAGE	190.93	991.08	1548.40
PTTW	N/A	2617.92	1818.00
% of PTTW MAX	-	44.50%	101.78%
% of PTTW AVG	-	37.86%	85.17%

*Exceeded PTTW L/min setting flowrate of Well after valve maintenance. Did not exceed L/day as per PTTW.

Well #2

System Capability Assessment			
Comparison of Flow Rates (raw flow; m ³):			
Month	Average Daily Flow	Maximum Daily Flow	Max Flow (L/min)
January	225.84	1293.00	1848.60
February	290.97	1275.02	2128.80*
March	223.52	1363.00	1882.20
April	309.23	1771.88	1865.40
May	292.38	1513.19	2070.60
June	441.61	1640.58	1842.00
July	323.53	1836.88	1960.80
August	360.63	1654.93	1872.60
September	431.73	2181.39	1869.00
October	328.90	1874.62	1864.20
November	332.16	1790.11	1836.00
December	340.68	1531.42	1853.40
MAXIMUM	N/A	2181.39	2128.80
AVERAGE	325.10	1643.84	1907.80
PTTW	N/A	3024.00	2100.00
% of PTTW MAX	-	72.14%	101.37%
% of PTTW AVG	-	54.36%	90.85%

*First min of startup was over PTTW L/min. Subsequent values below PTTW L/min. Did not exceed L/day as per PTTW.

Well #3

System Capability Assessment			
Comparison of Flow Rates (raw flow; m ³):			
Month	Average Daily Flow	Maximum Daily Flow	Max Flow (L/min)
January	859.55	2210.98	2828.40
February	857.41	2432.01	2819.40
March	856.32	2305.01	2818.80
April	939.20	2612.00	2826.60
May	922.94	3074.03	2829.60
June	952.57	2794.99	2825.40
July	911.16	2584.00	2824.20
August	795.42	2490.96	2832.60
September	961.57	2813.02	2821.80
October	902.58	2701.01	2824.20
November	926.97	2407.99	2824.80
December	838.65	2352.01	2827.80
MAXIMUM	N/A	3074.03	2832.60
AVERAGE	893.70	2564.83	2825.30
PTTW	N/A	3900.00	2880.00
% of PTTW MAX	-	78.82%	98.35%
% of PTTW AVG	-	65.77%	98.10%

Well #4

System Capability Assessment			
Comparison of Flow Rates (raw flow; m ³):			
Month	Average Daily Flow	Maximum Daily Flow	Max Flow (L/min)
January	1401.39	3710.00	4292.63
February	1288.59	3647.00	4309.11
March	1430.81	3745.00	4306.20
April	1422.67	3925.00	4367.82
May	1260.23	3921.00	4280.27
June	1877.93	4081.00	4493.82
July	1663.16	4097.00	4576.22
August	1395.45	3734.00	4347.91
September	1453.43	4585.00	5317.47
October	1412.13	4042.00	8736.60*
November	1403.53	3541.00	4235.64
December	1383.35	3627.00	4249.37
MAXIMUM	N/A	4585	8736.60
AVERAGE	1449.39	3887.92	4792.76
PTTW	N/A	8640.00	6000.00
% of PTTW MAX	-	53.07%	145.61%
% of PTTW AVG	-	45.00%	79.88%

*Value due to Flowmetrix performing annual inspection of flowmeter. Did not exceed L/day as per PTTW.

Distribution Center 123

System Capability Assessment		
Comparison of Flow Rates (total treated flow; m ³ /d):		
Month	Average Flow	Maximum Daily Flow
January	1264.05	3308.27
February	1282.38	3569.48
March	1259.06	3453.12
April	1376.69	3782.81
May	1283.19	3775.78
June	1355.77	3824.17
July	1287.71	3593.41
August	1224.21	3683.27
September	1415.05	4239.61
October	1323.85	3861.70
November	1357.52	3540.42
December	1231.03	3387.64
AVERAGE	1305.04	N/A
MAXIMUM	N/A	4239.61
SYSTEM CAPACITY	8640.00	8640.00
% CAPACITY	15.11%	49.07%

Distribution Center 4

System Capability Assessment		
Comparison of Flow Rates (total treated flow; m ³ /d):		
Month	Average Flow	Maximum Daily Flow
January	1375.77	3637.00
February	1265.00	3557.00
March	1404.55	3677.00
April	1394.83	3852.00
May	1237.45	3860.00
June	1843.50	4025.00
July	1630.39	3982.00
August	1368.58	3688.00
September	1423.27	4501.00
October	1383.06	3973.00
November	1375.50	3463.00
December	1354.87	3515.00
AVERAGE	1421.40	N/A
MAXIMUM	N/A	4501.00
SYSTEM CAPACITY	8640.00	8640.00
% CAPACITY	16.45%	52.09%