

# The Regional Municipality of Durham

# **Works Committee Agenda**

Council Chambers Regional Headquarters Building 605 Rossland Road East, Whitby

# Wednesday, March 3, 2021

9:30 AM

Please note: In an effort to help mitigate the spread of COVID-19, and to generally comply with the directions from the Government of Ontario, it is requested in the strongest terms that Members participate in the meeting electronically. Regional Headquarters is closed to the public, all members of the public may view the Committee meeting via live streaming, instead of attending the meeting in person. If you wish to register as a delegate regarding an agenda item, you may register in advance of the meeting by noon on the day prior to the meeting by emailing delegations@durham.ca and will be provided with the details to delegate electronically.

- 1. Roll Call
- 2. Declarations of Interest
- 3. Adoption of Minutes
  - A) Works Committee meeting February 3, 2021

Pages 4 - 14

# 4. Statutory Public Meetings

There are no statutory public meetings

### 5. Delegations

There are no delegations

### 6. Presentations

There are no presentations

### 7. Waste

7.1 Corresponder	ıce
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 A) Correspondence from Call2Recycle Canada, Inc. dated February 11, 2021, re: Leader in Sustainability Award – Durham Region

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Recommendation: Receive for Information

B) Correspondence from the Municipality of Clarington dated February 19, 2021, re: Correspondence from Wendy Bracken and Linda Gasser Regarding Durham Region's Plan to Potentially Use Bottom Ash from the Durham/York Incinerator in a Road Reconstruction Pilot Project in Clarington

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Recommendation: Refer to staff for a response

C) Correspondence from the Municipality of Clarington dated February 22, 2021, re: Air Quality Monitoring

17

Recommendation: Refer to staff for a response

### 7.2 Reports

A) Municipality of Clarington Resolution #GG-029-21 Regarding Energy from Waste-Waste Management Advisory Committee (EFW-WMAC) Terms of Reference (2021-WR-4)

18 - 21

B) Durham York Energy Centre Operations – Long-Term Sampling System Update (2021-WR-5)

22 - 26

### 8. Works

### 8.1 Correspondence

A) Correspondence from the Town of Ajax dated February 24, 2021, re: Gas-Fired Electricity

27 - 28

Recommendation: Receive for Information

### 8.2 Reports

A) The Regional Municipality of Durham's Drinking Water Systems 2020 Summary Report (2021-W-11)

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## 9. Advisory Committee Resolutions

There are no advisory committee resolutions to be considered

### 10. Confidential Matters

### 10.1 Reports

A) Confidential Report of the Commissioner of Works – Litigation or Potential Litigation, including matters before Administrative Tribunals, affecting the Regional Corporation, with respect to a s. 24 Settlement Agreement under the Expropriations Act, R.S.O. 1990, c. E.26, for Lands Acquired to Facilitate the Reconstruction of Regional Road 2 (Kingston Road), in the City of Pickering (2021-W-12)

**Under Separate Cover** 

### 11. Other Business

A) Memorandum from Ralph Walton, Regional Clerk/Director of Legislative Services dated February 25, 2021, re: Resolution adopted by Regional Council at its meeting held on February 24, 2021

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Recommendation: Refer to staff for a response

### 12. Date of Next Meeting

Wednesday, April 7, 2021 at 9:30 AM

### 13. Adjournment

Notice regarding collection, use and disclosure of personal information:

Written information (either paper or electronic) that you send to Durham Regional Council or Committees, including home address, phone numbers and email addresses, will become part of the public record. This also includes oral submissions at meetings. If you have any questions about the collection of information, please contact the Regional Clerk/Director of Legislative Services.

### The Regional Municipality of Durham

### **MINUTES**

### **WORKS COMMITTEE**

### Wednesday, February 3, 2021

A regular meeting of the Works Committee was held on Wednesday, February 3, 2021 in Council Chambers, Regional Headquarters Building, 605 Rossland Road East, Whitby, Ontario at 9:30 AM. Electronic participation was offered for this meeting.

#### 1. Roll Call

Present: Councillor Mitchell, Chair

Councillor Marimpietri, Vice-Chair

Councillor Barton Councillor Crawford Councillor McLean Councillor John Neal Councillor Smith Regional Chair Henry

\* all members of Committee participated electronically

Also

Present: Councillor Ashe

> Councillor Collier Councillor Dies Councillor Drew Councillor Foster Councillor Highet Councillor Lee Councillor Joe Neal Councillor Pickles Councillor Wotten

Absent: None

Staff

Present: G. Anello, Director of Waste Management

> E. Baxter-Trahair, Chief Administrative Officer D. Beaton, Commissioner of Corporate Services

B. Bridgeman, Commissioner of Planning & Economic Development J. Demanuele, Director of Business Services, Works Department

J. Hunt, Regional Solicitor/Director of Legal Services, Corporate Services – Legal Services

R. Jagannathan, Director of Transportation and Field Services

J. Paquette, Manager (Works), Corporate Communications

- N. Pincombe, Director, Business Planning & Budgets
- J. Presta, Director of Environmental Services
- R. Inacio, Systems Support Specialist, Corporate Services IT
- S. Siopis, Commissioner of Works
- S. Glover, Committee Clerk, Corporate Services Legislative Services
- N. Taylor, Commissioner of Finance
- C. Tennisco, Committee Clerk, Corporate Services Legislative Services
- R. Walton, Regional Clerk/Director of Legislative Services

### 2. Declarations of Interest

Councillor Marimpietri made a declaration of interest under the Municipal Conflict of Interest Act with respect to the following items:

- i) Item 7.2 B) Anaerobic Digestion and the Environmental Assessment Act (2021-WR-3); and
- ii) Item 8.2 B) 2021 Works Department Business Plans and Budgets (2021-W-6), specifically as it relates to roads projects and service of Employment Lands within the Northwood Business Park.

He indicated that he has family members whom own property and reside within an area potentially being considered for an Anaerobic Digestion facility.

### 3. Adoption of Minutes

Moved by Councillor McLean, Seconded by Councillor Smith,

(11) That the minutes of the regular Works Committee meeting held on Wednesday, January 6, 2021, be adopted.

CARRIED

# 4. Statutory Public Meetings

There were no statutory public meetings.

## 5. Delegations

There were no delegations.

### 6. Presentations

- 6.1 G. Anello, Director of Waste Management Services, and R. Jagannathan, Director of Transportation Services, re: 2021 Works Department Business Plans and Budgets (2021-W-6) [Item 8.2B)]
  - G. Anello, Director of Waste Management Services, and R. Jagannathan, Director of Transportation Services provided a PowerPoint presentation on the 2021 Works Department Business Plans and Budgets. N. Taylor, Commissioner of Finance, provided an overview of the Strategic Priorities for the 2021 Budget.

Highlights from the presentation included:

Budget Overview – Roads and Infrastructure

- 2020 Accomplishments
  - Service Improvements
  - Vision Zero (Works Measures)
  - Customer Service
- 2021 Proposed Expenditures and Financing
- 2021 Proposed Capital Program
- 2021 Priorities and Highlights
  - Operating
  - Staffing
- Proposed 2021 Growth-Related Projects
- Proposed 2021 Road Rehabilitation Projects
- Anticipated Major Road Capital Works this year
- Proposed 2021 Structures Rehabilitation/Replacement Projects
- Proposed 2021 Traffic Programs
- 2021 Priorities and Highlights
  - Vision Zero (Works Measures)
- 2021 Risks and Uncertainties
- 2021 Initiatives to Modernize & Find Service Efficiencies
- Future Budget Pressures
- Road Projects in 10-year Forecast
  - Road Widenings
  - New alignment, corridor modifications and curve reconfigurations
  - Intersection Modifications
  - Road Rehabilitation
  - Preparatory activities for projects for construction beyond the forecast timeframe

R. Jagannathan responded to questions from the Committee regarding the potential for the Region to become a control centre for the Vision Zero project; the road construction at the intersection of Bayly Street and Church Street near the Durham Live site and what amount of development would trigger a widening on Bayly Street; expanding the Automated Speed Enforcement (ASE) project; the minimum speed on Regional roads; signalization at major intersections and whether there will be protected left hand turn lanes during construction; whether consultants are needed if more staff are being hired; and, whether all road works projects are coordinated with water and sewer projects.

**Budget Overview - Waste** 

- 2020 Accomplishments
  - Service Improvements
  - Customer Service

- 2021 Proposed Expenditures and Financing
- 2021 Priorities and Highlights
  - Operating
  - Staffing
  - Capital
- 2021 Risks and Uncertainties
- 2021 Initiatives to Modernize & Find Service Efficiencies
- Future Budget Pressures

G. Anello responded to questions from the Committee regarding what the Region's option would be if the Ministry of the Environment denied the capacity increase from 140,000 tonnes to 160,000 tonnes at the Durham York Energy Centre (DYEC); the purpose and impact of the bio cover pilot at the Oshawa Landfill; the status of the recycling lid project for residential blue boxes; the transfer of waste from the Brock Waste Management Facility to the DYEC and how traffic will be impacted as a result of the transfer; ensuring that the Municipality of Clarington staff are kept informed of any updates/progress regarding the expansion of the Energy from Waste (EFW) facility; and whether an expansion of the EFW would lead to efficiencies and better overall emissions.

Moved by Councillor Smith, Seconded by Councillor Barton,

(12) That the agenda be altered in order to consider Report #2021-W-6: 2021 Works Department Business Plans and Budgets next.

### **CARRIED**

### 8.2 Reports

A) 2021 Works Department Business Plans and Budgets (2021-W-6)

Report #2021-W-6 from S. Siopis, Commissioner of Works, was received.

At this time, Councillor Marimpietri made a further declaration of interest under the Municipal Conflict of Interest Act with respect to Item 8.2 A): 2021 Works Department Business Plans and Budget, specifically as it relates to the service of employment lands within the Northwood Business Park. He indicated that he has family members whom own property and reside within an area potentially being considered for an Anaerobic Digestion facility. Councillor Marimpietri did not take part in the discussion or vote on items related to his declaration.

Staff responded to questions regarding what happens to the fly and bottom ash created at the Durham York Energy Centre (DYEC); and how many trucks would be entering/exiting the Brock Waste Management Facility to transfer waste to the DYEC.

Moved by Councillor Smith, Seconded by Councillor Barton,

(13) That the Works Committee recommends to the Finance and Administration Committee for subsequent recommendation to Regional Council:

That the 2021 Property Tax Supported Business Plans and Budgets for the Works Department's General Tax and Solid Waste Management operations be approved.

CARRIED

### 7. Waste

## 7.1 <u>Correspondence</u>

A) Correspondence from June Gallagher, Clerk, Municipality of Clarington dated January 19, 2021, re: Terms of Reference for the Energy From Waste – Waste Management Advisory Committee (EFW-WMAC)

Moved by Councillor Marimpietri, Seconded by Councillor McLean,

(14) That correspondence from June Gallagher, Clerk, Municipality of Clarington dated January 19, 2021, re: Terms of Reference for the Energy From Waste – Waste Management Advisory Committee (EFW-WMAC) be referred to staff for a response.

**CARRIED** 

B) Correspondence from Linda Gasser, Whitby Resident, dated February 2, 2021, re: Agenda Item 7.2 A), Durham staff proposed appointees to EFW-WMAC (2021-WR-2)

Moved by Councillor Marimpietri, Seconded by Councillor Crawford,

(15) That correspondence from Linda Gasser, Whitby Resident, dated February 2, 2021, re: Agenda Item 7.2 A), Durham staff proposed appointees to EFW-WMAC (2021-WR-2) be referred to consideration of Item 7.2 A) Energy from Waste – Waste Management Advisory Committee (Host Community Agreement Committee) Membership Appointments (2021-WR-2).

**CARRIED** 

C) Correspondence Linda Gasser, Whitby Resident, dated February 2, 2021, re: Report 2021 WR-3 – Anaerobic Digestion and the Environmental Assessment Act

Moved by Councillor Marimpietri, Seconded by Councillor McLean,

(16) That correspondence from Linda Gasser, Whitby Resident, dated February 2, 2021, re: Report 2021-WR-3 – Anaerobic Digestion and the Environmental Assessment Act be referred to consideration of Item 7.2 B) Anaerobic Digestion and the Environmental Assessment Act (2021-WR-3).

### CARRIED

### 7.2 Reports

A) Energy from Waste-Waste Management Advisory Committee (Host Community Agreement Committee) Membership Appointments (2021-WR-2)

Report #2021-WR-2 from S. Siopis, Commissioner of Works, was received.

Moved by Councillor Marimpietri, Seconded by Councillor Smith,

- (17) That we recommend to Council:
- A) That the following five applicants selected by members of the Works Committee be appointed for membership on the Energy from Waste-Waste Management Advisory Committee for a two-year term (2021-2022):
  - George Rocoski (City of Oshawa)
  - Venkata Daram (Town of Ajax)
  - William Basztyk (Township of Brock)
  - Rochelle Fleming (City of Pickering)
  - Sarah Shields (Township of Scugog)
- B) That a copy of Report #2021-WR-2 of the Commissioner of Works be forwarded to the Municipality of Clarington for information.

  CARRIED
- B) Anaerobic Digestion and the Environmental Assessment Act (2021-WR-3)

Report #2021-WR-3 from S. Siopis, Commissioner of Works, was received.

Moved by Councillor Crawford, Seconded by Regional Chair Henry, (18) That we recommend to Council:

That the amending motion made at the December 16, 2020 Regional Council meeting, to amend Section 6.0.1 of the Environmental Assessment Act to include anaerobic digestion facilities in the list of facilities that require local municipal support not be approved.

**CARRIED** 

### 8. Works

### 8.1 Correspondence

A) Confidential Memorandum from Susan Siopis, Commissioner of Works dated February 3, 2021 re: Tertiary Treatment at Duffin Creek Water Pollution Control Plant (WPCP), in the City of Pickering

Detailed discussion ensued regarding whether the memorandum from Susan Siopis, Commissioner of Works dated February 3, 2021 should be kept confidential or released in an open memorandum; and whether any information referenced the Non-Disclosure Agreement that Regional staff have signed.

Staff advised that this matter arose from a closed session discussion and that the prudent course of action was to retain it as a confidential matter, but that staff could bring forward a supplementary memorandum containing information that could be released in a public report.

Moved by Councillor Crawford, Seconded by Councillor McLean,

- (19) That the confidential memorandum from Susan Siopis, Commissioner of Works dated February 1, 2021 re: Tertiary Treatment at Duffin Creek Water Pollution Control Plant (WPCP), in the City of Pickering be referred to the February 24, 2021 Regional Council meeting and that staff be directed to prepare a supplementary memorandum to be brought to the February 24, 2021 Regional Council meeting so that the cost components can be separated into an open session memorandum.

  CARRIED
- B) Correspondence from Linda Gasser, Whitby Resident, dated February 2, 2021, re: Municipal Benchmarking Canada Report (2019 data) Waste Management

In response to a question, S. Siopis advised that all correspondence submitted will be reviewed by staff, and where specific questions have been raised, staff will respond.

Moved by Councillor Barton, Seconded by Councillor John Neal,

(20) That correspondence from Linda Gasser, Whitby Resident, dated February 2, 2021, re: Municipal Benchmarking Canada Report (2019 data) Waste Management be referred to staff for a response.

CARRIED

### 8.2 Reports

A) Extension of the Standardization of Programmable Logic Controllers, Related Process Control Equipment and Control System Software and the Renewal of Agreements with GE Intelligent Platforms Canada, Gray Matter Systems Canada and Gescan and the implementation of an Agreement with Emerson Automation Solutions to Support the Supervisory Control and Data Acquisition Systems Controlling Regional Water Supply and Wastewater Facilities (2021-W-5)

Report #2021-W-5 from S. Siopis, Commissioner of Works, was received.

Moved by Councillor Crawford, Seconded by Councillor Barton,

- (21) That we recommend to Council:
- A) That the standardization of Programmable Logic Controllers, Related Process Control Equipment and Control System Software to be used in the integration and upgrade of the Supervisory Control and Data Acquisition systems controlling Regional Water Supply and Wastewater facilities be extended for five (5) years from May of 2021 to April of 2026;
- B) That sole source agreements be negotiated with GE Intelligent Platforms Canada, Emerson Automation Solutions, Gray Matter Systems Canada and Gescan for software, support, training and hardware for five (5) years from May of 2021 to April of 2026; and
- C) That the Commissioner of Finance be authorized to execute the required agreements.

**CARRIED** 

B) <u>2021 Works Department Business Plans and Budgets (2021-W-6)</u>

This item was considered earlier in the meeting. See pages 4 and 5 of these minutes.

C) Project Update and Sole Source of Additional Engineering Services for Upgrades at the Bowmanville WSP, in the Municipality of Clarington (2021-W-8)

Report #2021-W-8 from S. Siopis, Commissioner of Works, was received.

Moved by Councillor Smith, Seconded by Councillor McLean,

- (22) That we recommend to Council:
- A) That a sole source contract amendment with R.V. Anderson Associates Ltd. be authorized for costs associated with additional engineering services for the Bowmanville Water Supply Plant Upgrades project in the amount of \$892,368\*, over and above the approved upset limit of \$288,598\* resulting in a revised upset limit not to exceed \$1,180,966\*; and
- B) That the Commissioner of Finance be authorized to execute the amendment to the existing engineering services agreement.
  - (\*) including disbursements and before applicable taxes CARRIED
- D) The Oak Ridges Moraine Groundwater Program (ORMGP), formerly known as York-Peel- Durham-Toronto (YPDT) and Conservation Authorities Moraine Coalition (CAMC) Groundwater Management Program, Status Update and Renewal of Memorandum of Understanding (2021-W-9)

Report #2021-W-9 from S. Siopis, Commissioner of Works, was received.

In response to a question from Councillor John Neal regarding whether there would be a discussion between the different levels of conservation authorities and staff regarding excess soil sites, staff clarified that Report #2021-W-9 of the Commissioner of Works was related to being able to access groundwater information in the Region of Durham with respect to wells. Staff advised that testing is the responsibility of the private well owner. Councillor John Neal advised that he would reach out to J. Presta directly for further information.

Moved by Councillor McLean, Seconded by Councillor Smith,

- (23) That we recommend to Council:
- A) That the Regional Municipality of Durham renew the Memorandum of Understanding for the Oak Ridges Moraine Groundwater Program, as outlined in Attachment #1 of Report #2021-W-9 of the Commissioner of Works; and
- B) That the Regional Chair and Clerk be authorized the execute the Memorandum of Understanding to further support this initiative.

  CARRIED
- E) Alignment of the Planned Connection Between the Proposed Highway 401 Crossing at Hopkins Street and Champlain Court, in the Town of Whitby (2021-W-10)

Report #2021-W-10 from S. Siopis, Commissioner of Works, was received.

Moved by Councillor McLean, Seconded by Councillor Crawford,

- (24) That we recommend to Council:
- A) That the Regional Municipality of Durham confirms that the planned alignment for the connection between the proposed Highway 401 Crossing at Hopkins Street and Champlain Court, included in the Highway 401 Crossing at Hopkins Street Environmental Assessment dated October 2013, will be deferred at this time and property acquisition will not be advanced until an Environmental Assessment addendum is completed; and
- B) That a copy of Report 2021-W-10 of the Commissioner of Works (exclusive of Confidential Attachment #2 to Report #2021-W-10), be forwarded to the Ministry of Transportation of Ontario, Town of Whitby and the landowners of 1100, 1130 and 1150 Champlain Court, in the Town of Whitby, for information.

**CARRIED** 

### 9. Advisory Committee Resolutions

There were no advisory committee resolutions to be considered.

### 10. Confidential Matters

### 10.1 Reports

A) Confidential Report of the Commissioner of Works –Proposed or Pending Acquisition or Disposition of Land for Regional Corporation Purposes as it relates to an Update on the Proposed Manning-Adelaide Connection Project, in the Town of Whitby/City of Oshawa (2021-W-7)

Confidential Report #2021-W-7 from S. Siopis, Commissioner of Works, was received.

Moved by Councillor McLean, Seconded by Councillor Barton, (25) That we recommend to Council:

That Confidential Report #2021-W-7 of the Commissioner of Works be received for information.

**CARRIED** 

### 11. Other Business

### A) Recycling Lids Project for Residential Blue Boxes

In response to a question from the Committee regarding when a report would be brought to Council regarding the recycling lids project for residential blue boxes, staff advised that they anticipate a report later this year once advertising and procurement matters have been finalized.

### 12. Date of Next Meeting

The next regularly scheduled Works Committee meeting will be held on Wednesday, March 3, 2021 at 9:30 AM in Council Chambers, Regional Headquarters Building, 605 Rossland Road East, Whitby.

### 13. Adjournment

Moved by Regional Chair Henry, Seconded by Councillor McLean, (26) That the meeting be adjourned.

CARRIED

The meeting adjourned at 11:40 AM

Re	espectfully submitted,
D.	Mitchell, Chair
S	Glover Committee Clerk

# Call 2 Recycle Canada, Inc.

Changing habits. Inspiring action."

Carol Slaughter Regional Municipality of Durham 605 Rossland Rd E Whitby, ON, L1N 6A3

February 11, 2021

Dear Carol,

Congratulations!



I am delighted to inform you that Call2Recycle® has selected Regional Municipality of Durham to receive our Leader in Sustainability Award recognizing your impressive collection of 5,662 kilograms of used batteries in 2020. The batteries you collected and shipped helped us ensure safe and responsible recycling for a total of 4.1 million kilograms of batteries in 2020 – an increase of one million kilograms over 2019!

To celebrate your award, we are enclosing your Leader in Sustainability plaque made from sustainable bamboo wood using energy-saving and ecological ink. You may also download the Call2Recycle Leader in Sustainability digital badge to be used with your email signature, and the template news release to announce your award on your website and social media. Both are available at call2recycle.ca/LIS2020.

As we move into 2021, we continue closely monitoring provincial restrictions imposed due to COVID-19 and are mindful of the continued impacts on your operations. We recognize how challenging it has been to manage the pandemic's business disruptions and challenges, and we truly appreciate our partnership and your continued program support.

Through 2021, our collection and recycling program operations will continue to adhere to the highest industry standards to protect our collection partners' safety while ensuring proper downstream management of our battery collections.

To date, the Call2Recycle program has collected and recycled more than 26 million kilograms of batteries from across Canada! This achievement would not be possible without the ongoing participation of collection partners like you. We value every one of our partners and thank you for helping us advance our mission of diverting greater volumes of batteries from landfills.

Sincerely,

Jon McQuaid

Vice President, Marketing and Account Management

Call2Recycle Canada, Inc.

If this information is required in an alternate format, please contact the Accessibility Co-Ordinator at 905-623-3379 ext. 2131

February 19, 2021

Susan Siopis, Commissioner of Works Via Email: <a href="mailto:susan.siopis@durham.ca">susan.siopis@durham.ca</a>

Gioseph Anello, Director – Waste Management Services

Via Email: Gioseph.anello@durham.ca

Ramesh Jagannathan, Director, Transportation and Field Services – Works Department

Via Email: Ramesh.jagannathan@durham.ca

Dear Ms. Siopis, Mr. Anello, and Mr. Jagannathan:

**Re:** Correspondence from Wendy Bracken and Linda Gasser,

Regarding Durham Region's Plan to Potentially Use Bottom Ash from the Durham/York Incinerator in a Road Reconstruction Pilot

Project in Clarington

File Number: PG.25.06

At a meeting held on February 16, 2021, the Council of the Municipality of Clarington passed the following Resolution #GG-177-21:

That Communication Item 10.3 from Wendy Bracken, Regarding Durham Region's Plan to Potentially Use Bottom Ash from the Durham/York Incinerator in a Road Reconstruction Pilot Project, be referred to the Region of Durham for an explanation for the testing of any recycling materials proposed for this project.

Accordingly, please follow this link to view Communication Item 10.3.

Yours truly,

John Paul Newman

Deputy Clerk

JPN/lp

c: S. Brake, Director of Public Works

F. Langmaid, Manager of Special Projects

If this information is required in an alternate format, please contact the Accessibility Co-Ordinator at 905-623-3379 ext. 2131

February 22, 2021

Susan Siopis, Commissioner of Works Regional Municipality of Durham Via Email: susan.siopis@durham.ca

Dear Ms. Siopis:

Re: Air Quality Monitoring

File Number: PG.25.06

At a meeting held on February 11, 2021, the Council of the Municipality of Clarington passed Resolution #C-066-21, which reads, in part:

That the Region of Durham be asked to pay 50% of the \$20,000 for the "extension of air quality advisor services for additional environmental projects including the DYEC expansion".

Should you have any questions, please contact Faye Langmaid, Manager of Special Projects at 905-623-3379 x 2407 or flangmaid@clarington.net.

Yours truly,

June Gallagher, B.A., Dipl. M.A.

Municipal Clerk

JG/cm

c: A. Allison, CAO

F. Langmaid, Manager of Special Projects

T. Pinn, Director of Financial Services/Treasurer

R. Windle, Director of Planning and Development Services

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



# The Regional Municipality of Durham Report

To: Works Committee

From: Commissioner of Works

Report: #2021-WR-4 Date: March 3, 2021

### Subject:

Municipality of Clarington Resolution #GG-029-21 Regarding Energy from Waste-Waste Management Advisory Committee (EFW-WMAC) Terms of Reference

### Recommendations:

That the Works Committee recommends to Regional Council:

- A) That the motion (#GG-029-21) from the Municipality of Clarington to amend the Terms of Reference for the Energy from Waste-Waste Management Advisory Committee such that the Committee's recommendations go to Regional Council instead of the Regional Municipality of Durham's Works Committee not be approved; and
- B) That the Municipality of Clarington be notified of Regional Council's decision.

### Report:

### 1. Purpose

1.1 The purpose of this report is to provide a staff response to the Municipality of Clarington (Clarington) motion to amend the Energy from Waste-Waste Management Advisory Committee (EFW-WMAC) Terms of Reference to change the reporting structure from the Works Committee directly to Regional Council.

### 2. Background

- 2.1 The Regional Municipality of Durham (Region) received correspondence from Clarington dated December 17, 2020, regarding the EFW-WMAC Annual Update, requesting that "...Council of the Municipality of Clarington encourages the Regional Public Works Committee to ensure that full consideration is given to motions brought forward by the EFW-WMAC." A memorandum regarding the consideration of motions brought forward by the EFW-WMAC to Works Committee and the action taken on each motion was presented to Works Committee on January 6, 2021.
- 2.2 In response to comments made during the Works Committee meeting, the Works Committee Chair and staff met with the Chair of EFW-WMAC, George Rocoski. The Chair of the EFW-WMAC indicated that the EFW-WMAC motions were addressed as listed by staff and that there was no other follow-up required. Clarington was also provided the memo which responded to their concern that the EFW-WMAC motions were not receiving due consideration.
- 2.3 A similar memo was provided to Regional Council members dated, January 29, 2021, staff responded to concerns raised by Municipality of Clarington (Clarington) Council regarding the consideration being given to Energy from Waste-Waste Management Advisory Committee (EFW-WMAC) motions by Works Committee. The memo demonstrated that the EFW-WMAC motions from the past term were all considered, and the majority were accepted and implemented.
- 2.4 On January 18, 2021, Clarington Council passed another resolution, included on the February 3, 2021 Works Committee agenda, which read as follows:

"That the Municipality of Clarington request the Region of Durham amend the Terms of Reference for the Energy From Waste - Waste Management Advisory Committee, such that the Committees recommendations go to Regional Council instead of the Region of Durham's Public Works Committee."

## 3. Reporting Structure for the EFW-WMAC

3.1 The EFW-WMAC was formed in response to a condition within the Host Community Agreement between the Region and Clarington and also in accordance with Regional Council directives. The Terms of Reference for this committee were approved by both Durham and Clarington Councils. The Terms of Reference for the EFW-WMAC reflect the Region's By-law #47-2010 which

- governs the proceedings of Council and its Committees, the conduct of its members and the calling of meetings.
- 3.2 It is noted that all Regional Advisory Committees report first to the appropriate Standing Committee. The Standing Committee then makes recommendations to Regional Council regarding actionable items coming from Regional Advisory Committees.
- 3.3 For the past term of the EFW-WMAC, Works Committee considered all the motions put forward by the EFW-WMAC.

# 4. Relationship to Strategic Plan

- 4.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
  - a. Environmental Sustainability: Increase waste diversion and resource recovery

### 5. Conclusion

- 5.1 While there is no specific Council directive, Council has followed a broad principle where Council deemed it appropriate that Advisory Committee resolutions and/or recommendations are vetted through the appropriate Standing Committee before going to Council.
- 5.2 Motions from the Energy from Waste-Waste Management Advisory Committee have all been reviewed and addressed through Works Committee as noted both in this report and the previous detailed memo referenced. Works Committee provides a knowledgeable forum for review and direction on recommendations. By-passing Works Committee has the potential to reduce that opportunity for detailed discussion and expert subject matter inputs while adding to the Council agenda without the benefit of dialogue at the Standing Committee.
- 5.3 This report has been reviewed by the Legislative Services Division of the Corporate Services Department.

5.4 For additional information, contact: Gioseph Anello, Director, Waste Management Services, at 905-668-7711, extension 3445.

Respectfully submitted,

# Original signed by:

Susan Siopis, P.Eng. Commissioner of Works

Recommended for Presentation to Committee

# Original signed by:

Elaine C. Baxter-Trahair Chief Administrative Officer If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



# The Regional Municipality of Durham Report

To: Works Committee

From: Commissioner of Works

Report: #2021-WR-5
Date: March 3, 2021

### Subject:

Durham York Energy Centre Operations – Long-Term Sampling System Update

### Recommendation:

That the Works Committee recommends to Regional Council:

That this report be received for information.

### Report:

### 1. Purpose

1.1 This information report provides an update and additional details with respect to the operations and reporting of the Long-Term Sampling System at the Durham York Energy Centre (DYEC).

### 2. Background

- 2.1 The DYEC as part of the Environmental Compliance Approval (the ECA) section 7(3), is required to operate a Long-Term Sampling System (LTSS) for the monitoring for dioxins and furans.
- 2.2 The Adsorption Method for Sampling Dioxins and Furans (AMESA) LTSS is installed on each of the two boiler units at the DYEC and is a dioxin and furan continuous sampling system designed to meet the requirements of the ECA. The operation of the AMESA was initiated in 2015 and has been maintained in

accordance with current guidance from the AMESA manufacturer, Environment S.A. Deutschland (ESAD, the European manufacturer of the AMESA system), the North American vendor ENVEA and the AMESA Technical Manual (June 2010).

2.3 The AMESA system is used only for the purpose stated in ECA Condition 7(3) as included below, which relates to Dioxins and Furans emissions trend analysis and evaluation of Air Pollution Control equipment performance.

ECA Condition 7. (3). Testing, Monitoring and Auditing Long-Term Sampling for Dioxins and Furans:

- (3) (a) The Owner shall develop, install, maintain and update as necessary a long-term sampling system, with a minimum monthly sampling frequency, to measure the concentration of Dioxins and Furans in the Undiluted Gases leaving the (Air Pollution Control) APC Equipment associated with each Boiler. The performance of this sampling system will be evaluated during the annual Source Testing programs in accordance with the principles outlined by 40 CFR 60, Appendix B, Specification 4.
- (b) The Owner shall evaluate the performance of the long-term sampling system in determining Dioxins and Furans emission trends and/or fluctuations as well as demonstrating the ongoing performance of the APC Equipment associated with the Boilers.
- 2.4 The AMESA results themselves do not constitute a compliance point for the facility operations.
- 2.5 Following the 2016 facility Abatement plan, several workplans for continued AMESA system improvements have been completed at the facility. These workplans identified data concerns with the accuracy of the monthly evaluation data. Prior to the implementation of the 2018 strategy, inconsistent monthly AMESA data prevented the determination of dioxins and furans trends and presented challenges in achieving correlation between Method 23 sampling, which reviews samples collected from stationary monitoring locations, and the AMESA system results.
- 2.6 As such the objective of the 2018 AMESA Work Plan was to set forth an outline of a revised strategy to improve the consistency of monthly data while continuing

the performance evaluation of the LTSS. The 2018 AMESA Work Plan was provided to the Ministry of the Environment, Conservation and Parks (MECP) in November 2018 with activities identified within the workplan continuing until late 2020. Activities within the 2018 Work Plan included review and improvements to both plant equipment and laboratory processes and procedures in an effort to identify and resolve the cause of the inconsistencies.

### 3. Continued System Operations and Reporting

- 3.1 With the completion of the 2018 program a greater level of consistency regarding monthly AMESA results was achieved, as well as improved correlation between the AMESA results and the Method 23 results obtained during the voluntary and compliance source testing programs at the DYEC.
- 3.2 The 2018 program actions and recent dataset along with corresponding actions for program continuation were reviewed with the MECP. This has resulted in key outcomes for the continuation of the program as follows:
  - a. The Long-Term Sampling for dioxins and furans will continue to be operated at the DYEC with the continuation of AMESA Program and Record Retention.
  - b. LTSS data validation will continue in conformance with the AMESA investigation checklist.
  - c. Validated LTSS data shall be utilized to evaluate trends in the performance of the facility's APC Equipment.
  - d. Annual AMESA correlation tests will be discontinued following the November 2020 Source Test. Correlation testing will be re-implemented if the AMESA results exhibit an erratic trend.
  - e. All AMESA records required by ECA conditions 14(3) through 14(8) will be held at the Facility and will be available for MECP inspection. Monthly data shall be summarized and presented in the annual ECA report.
  - f. AMESA results for the previous year will be reported as part of the Annual Report as required by ECA Condition 15, commencing with data collected during the 2020 calendar year. AMESA trends of validated data will be presented as a 12-month rolling average together with analysis to demonstrate the ongoing performance of the APC Equipment. A summary of non-routine maintenance completed on the AMESA system will be presented as part of the Annual Report.

3.3 The Annual Report as required by ECA Condition 15, which includes details on the AMESA results, is due to the MECP March 31 of each calendar year.

### 4. Relationship to Strategic Plan

- 4.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
  - a. Goal 1: Environmental Sustainability
    - 1.3 Protect, preserve and restore the natural environment, including greenspaces, waterways, parks, trails, and farmlands
  - b. Goal 5: Service Excellence
    - 5.3 Demonstrate commitment to continuous quality improvement and communicating results

### 5. Conclusion

- 5.1 The Durham York Energy Centre continues to operate the Adsorption Method for Sampling Dioxins and Furans system in keeping with the requirements of ECA Condition 7. (3). regarding a Long-Term Sampling System.
- 5.2 Long-Term Sampling System data validation will continue in conformance with the Adsorption Method for Sampling Dioxins and Furans system investigation checklist. Validated Long-Term Sampling System data shall be utilized to evaluate trends in the performance of the facility's Air Pollution Control Equipment.
- 5.3 Annual Adsorption Method for Sampling Dioxins and Furans system correlation tests will be discontinued following the November 2020 Source Test. Correlation testing will be re-implemented if the Adsorption Method for Sampling Dixons and Furans system results exhibit an erratic trend.
- 5.4 Annual Adsorption Method for Sampling Dioxins and Furans system results for the previous year will be reported as part of the Annual Report as required by Environmental Compliance Approval Condition 15, commencing with data collected during the 2020 calendar year.
- 5.5 For additional information, please contact Gioseph Anello, Director, Waste Management Services, at 905-668-7711, extension 3445.

Report	#202	1-WR-5
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Respectfully submitted,

# Original signed by:

Susan Siopis, P.Eng. Commissioner of Works

Recommended for Presentation to Committee

# Original signed by:

Elaine C. Baxter-Trahair Chief Administrative Officer

### **TOWN OF AJAX**

By the Lake

65 Harwood Avenue South Ajax ON L1S 3S9 www.ajax.ca

The Honorable Doug Ford
Premier of Ontario
Legislative Building Queen's Park
Toronto ON M7A 1A1
<a href="mailto:premier@ontario.ca">premier@ontario.ca</a>

Sent by E-Mail

February 24, 2021

Re: Gas-Fired Electricity

The following resolution was passed by Ajax Town Council at its meeting held February 22, 2021:

**WHEREAS** the Government of Ontario is planning to increase electricity generation and greenhouse gas pollution from Ontario's gas-fired power plants by more than 300% by 2025 and by more than 400% by 2040, reversing more than a third of the greenhouse gas pollution reductions achieved by phasing out our coal-fired power plants;

**AND WHEREAS** greenhouse gas pollution is causing temperatures in Canada to rise at more than double the rate of the rest of the world, causing impacts to the operations and residents of the Town of Ajax;

**AND WHEREAS** the Town of Ajax is taking measures to mitigate and adapt to the climate impacts caused by increasing greenhouse gas pollution, which includes having climate adaptation and mitigation plans in place;

**AND WHEREAS** the planned increase in electricity-related greenhouse gas pollution will reduce the effectiveness of the Town's greenhouse gas reduction efforts;

**AND WHEREAS** there are feasible, cost-effective alternatives to increasing gas-fired electricity generation without increasing greenhouse gas pollution at costs well below the current price for Ontario's nuclear energy (9.5 cents/kWh), including:

- energy efficiency investments;
- low-cost, distributed, renewable energy; providing employment in Ontario communities and restoring our leadership in this industry;
- the purchase of low-cost power offered by the Province of Quebec from its existing hydroelectric generating stations; and
- using Quebec's system of reservoirs as a battery to back-up made-in-Ontario renewable power, eliminating the need to use gas-fired power plants for this purpose;

### NOW THEREFORE BE IT RESOLVED THAT:

- 1. The Town of Ajax requests the Government of Ontario to place an interim cap of 2.5 megatonnes per year on the greenhouse gas pollution from Ontario's gas-fired power plants and develop and implement a plan to phase-out all gas-fired electricity generation by 2030 to help Ontario and the Town of Ajax meet their climate targets; and
- 2. This resolution be sent to the Premier of Ontario, the Hon. Greg Rickford, Minister of Energy, Northern Development and Mines, the Hon. Jeff Yurek, Minister of the Environment, Conservation and Parks, MPP Rod Phillips, the Association of Municipalities of Ontario, Chair John Henry, Durham Region Climate Roundtable Committee and Durham Region Works Committee.

If you require further information please contact me at 905-619-2529 ext. 3342 or alexander.harras@ajax.ca.

Sincerely,

Alexander Harras

Manager of Legislative Services/Deputy Clerk

Copy: Regional Councillor M. Crawford

Regional Councillor S. Lee

Hon. Greg Rickford, Minister of Energy, Northern Development and Mines Hon. Jeff Yurek, Minister of the Environment, Conservation and Parks

MPP Rod Phillips

Association of Municipalities of Ontario

Chair John Henry

**Durham Region Climate Roundtable Committee** 

**Durham Region Works Committee** 

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



# The Regional Municipality of Durham Report

To: The Works Committee From: Commissioner of Works

Report: #2021-W-11
Date: March 3, 2021

### Subject:

The Regional Municipality of Durham's Drinking Water Systems 2020 Summary Report

### Recommendation:

That the Works Committee recommends to Regional Council:

- A) That the 2020 Summary Report for the Regional Municipality of Durham Drinking Water Systems be received for information;
- B) That receipt of this report be confirmed by resolution of Regional Council; and
- C) That a copy of this resolution be forwarded to the Ontario Ministry of the Environment, Conservation and Parks' York-Durham District Office to indicate the conditions of Schedule 22 of Ontario Regulation 170/03 have been fulfilled.

### Report:

### 1. Purpose

1.1 The Regional Municipality of Durham (Region) is required to prepare a Summary Report for each of the municipal drinking water systems under Ontario Regulation (O.Reg.) 170/03 of the Safe Drinking Water Act (SDWA). The Summary Report is to be completed and submitted to Regional Council prior to March 31 of each year.

### 2. Summary Report

- 2.1 Schedule 22 of O.Reg. 170/03 requires that a Summary Report provide the following information:
  - 22-2. (1) The owner of a drinking water system shall ensure that, not later than March 31 of each year after 2003, a report is prepared in accordance with subsections (2) and (3) for the preceding calendar year and is given to,
  - (a) In the case of a drinking water system owned by a municipality, the members of the municipal council;
  - (b) In the case of a drinking water system owned by a municipal service board established under section 195 of the Municipal Act 2001, the members of the municipal service board; or
  - (c) In the case of a drinking water system owned by a corporation, the board of directors of the corporation.
  - 22-2. (2) The report must,
  - (a) List the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the period covered by the report; and
  - (b) For each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.
  - 22-2. (3) 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:
    - A summary of the quantities and flow rates of the water supplied during the period covered by report, including monthly average and maximum daily flows.
    - 2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water license, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

- 22-2. (4) If a report is prepared under subsection (1) 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.
- 2.2 Table 1 below provides a list of all Drinking Water Systems (DWS) and their Municipal Drinking Water Licenses for the period from January 1, 2020 to December 31, 2020.

Table 1

Drinking Water System	Municipal Drinking Water License #	Issue Number	Issue Date	Revised Issue Number	Revised Issue Date
Oshawa *	003-111	6	November 15, 2019	7	September 23, 2020
Whitby *	003-111	6	November 15, 2019	7	September 23, 2020
Ajax *	003-111	6	November 15, 2019	7	September 23, 2020
Beaverton	003-107	4	November 15, 2019	4	Not Applicable
Blackstock	003-101	4	November 15, 2019	4	Not Applicable
Bowmanville	003-103	4	November 15, 2019	5	September 23, 2020
Cannington	003-106	4	November 15, 2019	4	Not Applicable
Greenbank	003-104	4	November 15, 2019	4	Not Applicable
Newcastle	003-109	6	November 15, 2019	7	September 23, 2020
Orono	003-108	5	November 15, 2019	5	Not Applicable
Port Perry	003-102	4	November 15, 2019	4	Not Applicable
Sunderland	003-110	4	November 15, 2019	4	Not Applicable
Uxbridge	003-105	7	November 15, 2019	7	Not Applicable

<sup>\*</sup>Oshawa, Whitby and Ajax are licensed as one system. For the purpose of this report the Drinking Water Systems (DWS) are listed individually.

2.3 Table 2 below provides the Compliance Requirements and Water Taking Conditions.

Table 2

Drinking Water System	Compliance Requirements	Water Taking Conditions	
Oshawa *	Non-Compliant	Did Not Exceed	
Whitby *	Non-Compliant	Did Not Exceed	
Ajax *	Non-Compliant	Did Not Exceed	
Beaverton	Non-Compliant	Did Not Exceed	
Blackstock	Compliant	Did Not Exceed	
Bowmanville	Compliant	Did Not Exceed	
Cannington	Compliant	Did Not Exceed	
Greenbank	Compliant	Did Not Exceed	
Newcastle	Compliant	Did Not Exceed	
Orono	Compliant	Did Not Exceed	
Port Perry	Compliant	Did Not Exceed	
Sunderland	Non-Compliant	Did Not Exceed	
Uxbridge	Compliant	Did Not Exceed	

<sup>\*</sup>Oshawa, Whitby and Ajax are licensed as one system. For the purpose of this report the Drinking Water Systems (DWS) are listed individually.

2.4 The drinking water system supplying water to the Uxbridge Industrial Park (Uxville) is not required to be covered by this report as it is regulated by the Ministry of Health and Long-Term Care, under O. Reg. 319/08.

# 3. General Overview of Compliance Status

3.1 The Summary Report requires a review of each DWS with respect to the SDWA, Permits to Take Water (PTTW), Municipal Drinking Water License (MDWL),

- Drinking Water Works Permit (DWWP), Ministry of the Environment, Conservation and Parks (MECP) inspections and orders including to provide an explanation of any non-compliance issues that were identified during the reporting period.
- 3.1 Water quality monitoring data is available in the Annual Water Quality Report.

  Hard copies of this report are available at the Regional Municipality of Durham

  Headquarters building located at 605 Rossland Road East, Whitby on level five or
  on the Region of Durham's website at www.durham.ca.
- 3.2 A requirement of the Drinking Water Quality Management Standard (DWQMS) Element 20, is that the results of the annual management review meeting, the identified deficiencies, decisions and action items are reported to the Owner. The annual DWQMS Management Review meeting was held on June 9, 2020. Attending the meeting were staff that are identified in the Operational Plan as being part of the top management team. The meeting reviewed the agenda items that are listed in the DWQMS 2.0, Element 20. There were some action items identified during the meeting including to ensure that inoperable valves are identified in Geographical Information System (GIS), to complete the Standard Operating Procedure (SOP) for the Groundwater Summary Report follow up and to review the updated Watermain Disinfection Procedure and implement changes. There was one internal audit completed in 2020 (September 17-18, October 1-2). The results were satisfactory.
- 3.3 The Region is also required, as part of accreditation to the DWQMS, to have an external audit of the management system done by an approved registrar. The 2020 external audit was completed on November 9, 2020. This audit found no non-conformances to the DWQMS and five opportunities for improvement which will be responded to by the drinking water system staff.
- 3.4 The full minutes of the management review meeting and the final audit reports for both the internal and external audits are available from the IMS Coordinator.

  Please contact Janine.deboer@durham.ca for more information.

# 4. Specific Compliance Items

4.1 A review indicated that all of the DWS met all compliance requirements of O. Reg. 170/03 with the following exceptions:

### Oshawa-Whitby-Ajax DWS

Municipal Drinking Water License Schedule C, Condition 6.0

- The owner was required to have in place a Harmful Algal Bloom (HAB) monitoring, reporting and sampling plan before May 30<sup>th</sup>, 2020 that complied with Condition 6.0 of Schedule C of the MDWL. A HAB plan was in place, however it did not meet all requirements outlined in Condition 6.0 of the MDWL.
- During this time there were no negative impacts to operations due to the required revisions to the original HAB plan. All required samples were collected and analyzed as per Condition 6.0 of the MDWL.
- The HAB monitoring, reporting and sampling plan was updated with a revision date of June 15<sup>th</sup>, 2020. This revision met all requirements of Condition 6.0 Schedule C of the MDWL.

### **Beaverton DWS**

- O. Reg. 170/03 section 16-4 of Schedule 16 Reporting Adverse Test Results and Other Problems: Duty to report other observations and;
- O. Reg. 170/03 section 17-2 of Schedule 17 Corrective Action: Improper disinfection
- On September 6, 2019 the Beaverton standpipe was inspected by a thirdparty contractor. The Region was not made aware until a draft copy of the inspection report was received on January 2, 2020 that a screen was missing from an obsolete vent at the top of the standpipe.
- On January 7, 2020 a meeting was held between the Region and the contractor and determined that appropriate corrective actions would include a Remotely Operated Vehicle (ROV) inspection and permanent capping of the vent. The capping of the vent occurred on January 10, 2020, however the ROV inspection could not be completed due to ice build-up at the top of tank. No impacts were noted on the ice surface. Additional water sampling and monitoring were conducted as per the MECP and Health Department. No water quality issues were identified.
- As a result of the incident, the Region has included in all water storage inspection contracts that any deficiencies noted on inspection with the screen or vent including other potential risk items must be immediately reported to the Region's Project Manager. An ROV inspection will follow immediately to rule out any impacts to water quality and any conditions that

do not meet the *Procedure for Disinfection of Drinking Water in Ontario*. Any required adverse reporting and corrective actions will be initiated immediately as per Schedule 16 and Schedule 17 of O. Reg 170/03.

### **Sunderland DWS**

Municipal Drinking Water License Schedule E, Condition 1.0

- Schedule E, Condition 1.0 of the MDWL outlines the Primary Disinfection requirements for Municipal Well Number 1 and 2 pumphouse, which includes the requirement for both UV disinfection and chlorination to treat the water from Municipal Well 1 and 2.
- As noted in the MECP inspection report dated November 24, 2020, Section 4.2 of the Operations Manual for Municipal Wells 1 and 2 stated that the water can be bypassed around the UV treatment system, disinfected with sodium hypochlorite, and discharged to the distribution system.
- In accordance with the recommendations from the MECP inspection report, the Operations Manual for Sunderland Municipal Well 1 and 2 was updated to reflect that when the UV bypass line is utilized the water is properly disinfected. If this water is not disinfected and directed to the distribution system this results in an adverse water quality incident and proper reporting and corrective actions must be performed. The Operations Manual updates were completed on November 27<sup>th</sup>, 2020. Further updates were also completed on January 6, 2021.

### **Sunderland DWS**

Best Management Practice

- Form 20-113 MDWL-DWWP Renewal Checklist has been created in accordance with the recommendations received during the MECP inspection report dated November 24, 2020. This SOP instructs the Region to undertake a review of all Operations Manuals after each license renewal and re-issuance to ensure they meet the requirements of Schedule B, Condition 16.
- The Region will routinely review all Operation and Maintenance Manuals, including upon receipt of any MDWL renewals or re-issuances, to ensure they are current and reflect any changes in the DWS.

#### 5. Summary of Water Flows

5.1 Drinking Water System Capacity and Water Flow Data are provided in Attachment #1 as summary charts. Each summary chart provides monthly average and maximum daily flow for the reporting period. Some of the flow data in Attachment #1 has been pro-rated. Pro-rating is used to determine the volume of water pumped over a 24-hour period. Pro-rated data will be indicated in the chart headings.

#### 6. Public Notification and Information

6.1 The Summary Report is available to the public through the Region's Works Department, located at 605 Rossland Road East, Level 5, in Whitby and on the Region's website at www.durham.ca.

#### 7. Conclusion

- 7.1 As required under Ontario Regulation 170/03, this Summary Report for the Regional Municipality of Durham's Drinking Water Systems is provided to Regional Council. It is recommended that receipt of this report be confirmed by resolution of Regional Council to meet this condition and that a copy of the resolution is forwarded to the Ministry of the Environment, Conservation and Parks.
- 7.2 For additional information, contact: Greg Lymer. Manager, Technical Support Division, at 905-668-7711, extension 3500.

#### 8. Attachments

Attachment #1:	Drinking Water System Capacity and Water Flow Data
Respectfully submitted,	

Original signed by:
Susan Siopis, P.Eng. Commissioner of Works
Recommended for Presentation to Committee
Original signed by:
Elaine C. Baxter-Trahair Chief Administrative Officer

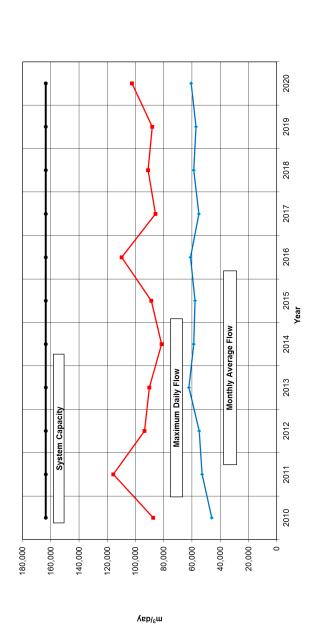
The Regional Municipality of Durham Ajax Drinking Water System 2020 Flow Data – Raw and Treated Water

Month	Raw Water Monthly Average Flow Cubic metres per day	Raw Water Maximum Daily Flow (m³/day)	Total Raw Water Flow (m³)	Treated Water Monthly Average Flow (m³/day)	Treated Water Maximum Daily Flow (m³/day)	Total Treated Water Flow (m³)
January	54,192	69,624	1,679,949	52,074	67,178	1,614,305
February	53,534	61,758	1,552,482	51,584	889'09	1,495,934
March	53,151	61,459	1,647,692	51,238	58,823	1,588,368
April	52,045	64,596	1,561,357	51,925	65,517	1,557,757
Мау	61,344	83,145	1,901,671	996'09	81,972	1,889,932
June	76,312	98,059	2,289,374	75,580	97,251	2,267,412
July	83,967	105,771	2,602,964	83,907	102,507	2,601,124
August	72,702	88,863	2,253,758	70,295	86,362	2,179,135
September	63,368	80,302	1,901,037	63,677	80,584	1,910,323
October	56,852	66,949	1,762,399	56,120	65,830	1,739,729
November	56,022	78,684	1,680,651	55,281	98'92	1,658,441
December	55,322	64,611	1,714,967	55,542	64,867	1,721,800
Annual Total			22,548,302			22,224,260
Maximum		105,771			102,507	
Average	61,567			60,682		
% Capacity		62			69	
Permit to Take Water Limit		170,000				
Municipal Drinking Water Licence Limit					163,500	

Ajax Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

Year	Monthly Average Flow cubic metres per day	Maximum Daily Flow (m³/day)	System Capacity (m³/day)
2010	46,113	87,458	163,500
2011	52,931	115,690	163,500
2012	54,910	93,551	163,500
2013	62,300	90,229	163,500
2014	28,867	81,640	163,500
2015	57,883	88,945	163,500
2016	766,09	109,869	163,500
2017	55,247	82,808	163,500
2018	58,808	91,039	163,500
2019	57,175	88,253	163,500
2020	60,682	102,507	163,500

### Ajax Drinking Water System Capacity and Treated Water Flow Graph



Attachment #1 to Report #2021-W-11

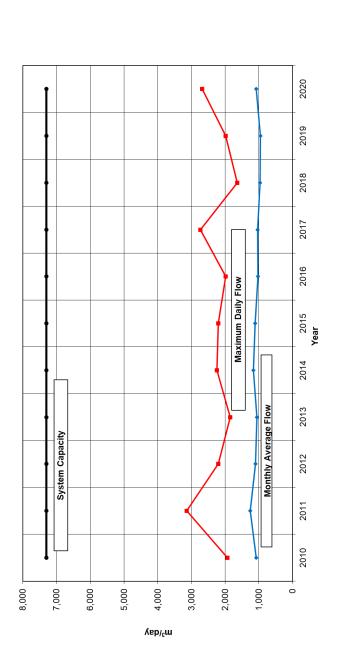
The Regional Municipality of Durham Beaverton Drinking Water System 2020 Flow Data – Raw and Treated Water

Month	Raw Water Monthly	Raw Water Maximum Daily	Total Raw Water Flow	Treated Water Monthly	Treated Water	Total Treated Water Flow
	Average Flow Cubic metres per day (m³/day) Pro-rated	Flow (m <sup>2</sup> /day) Pro-rated	(Æ)	Average Flow (m³/day) Pro-rated	Maximum Daily Flow (m³/day) Pro-rated	(E)
January	1,115	1,781	34,691	987	1,573	30,635
February	1,011	1,353	29,512	910	1,244	26,596
March	1,003	1,298	31,041	913	1,169	28,142
April	1,040	1,313	31,147	952	1,596	28,420
May	1,308	2,794	40,683	1,201	2,679	37,370
June	1,404	1,679	42,106	1,272	1,593	37,966
July	1,761	2,162	54,831	1,553	2,060	48,273
<sup>&gt;</sup> August	1,312	1,672	40,606	1,171	1,510	36,195
September	1,243	1,563	37,599		1,223	32,347
October	1,068	1,542	33,346	935	1,102	29,035
November	1,087	1,391	32,564	977	1,149	29,238
December	1,151	1,449	35,825	1,039	1,180	32,257
Annual Total			443,950			396,474
Maximum		2,794			2,679	
Average	1,208			1,082		
% Capacity		38			37	
Permit to Take Water Limit		7,300				
Municipal Drinking Water Licence Limit					7,300	

Beaverton Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

Year	Monthly Average Flow cubic metres per day (m³/day) Pro-rated	Maximum Daily Flow (m³/day) Pro-rated	System Capacity (m³/day)
2010	1,085	1,939	7,300
2011	1,259	3,143	7,300
2012	1,101	2,202	7,300
2013	1,057	1,850	7,300
2014	1,161	2,251	7,300
2015	1,112	2,208	7,300
2016	1,034	1,989	7,300
2017	1,039	2,740	7,300
2018	964	1,643	7,300
2019	£56	1,990	7,300
2020	1,082	2,679	7,300

<sup>♣</sup>Beaverton Drinking Water System Capacity and Treated Water Flow Graph



The Regional Municipality of Durham Blackstock Drinking Water System

2020 Flow Data - Well Number (#) 7\* and Well # 8 Raw Water

;		- :: :: :::	- :: :: :: ::	- :: :: ::				
Month	Well # 7 Raw Water Maximum Taken per Minute (litres)	Well # 7 Raw Water Monthly Average Flow cubic metres per day (m³/day)	Well # 7 Raw Water Maximum Daily Flow (m³/day) Pro-rated	Well # 7 Total Raw Water Flow (m³)	Well # 8 Raw Water Maximum Taken per Minute (litres)	Well # 8 Raw Water Monthly Average Flow (m³/day)	Well # 8 Raw Water Maximum Daily Flow (m³/day) Pro-rated	Well # 8 Total Raw Water Flow (m³)
January	0	0	0	0	588	101	216	3,283
February	0	0	0	0	282	118	266	3,381
March	0	0	0	0	288	117	150	3,605
April	0	0	0	0	594	108	154	3,213
Мау	0	0	0	0	929	134	224	4,098
June	0	0	0	0	612	150	261	4,504
July	0	0	0	0	238	165	230	5,101
August	0	0	0	0	855	136	197	4,145
September	0	0	0	0	929	139	221	4,135
October	0	0	0	0	292	121	178	3,923
November	0	0	0	0	889	119	172	3,500
December	0	0	0	0	228	116	179	3,530
Annual Total								46,418
Maximum					675		266	
Average						128		
% Capacity					66		27	
Permit to Take Water	684		986		684		985	
LIMIT								

\*Well 7, not in service in 2020.

The Regional Municipality of Durham **Blackstock Drinking Water System** 

<b>Water</b>
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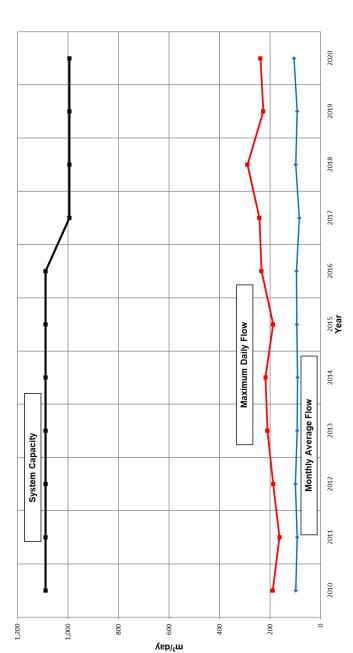
	Treated Water Monthly Average Flow cubic metres per day (m³/day) Pro-rated	Treated Water Maximum Daily Flow (m³/day) Pro-rated	Total Treated Water Flow (m³)
January	88	177	2,692
February	96	218	2,772
March	96	123	2,956
April	88	127	2,635
Мау	109	183	3,360
June	126	238	3,787
July	139	211	4,317
August August	113	168	3,467
September	118	202	3,503
October	102	136	3,139
November	94	120	2,774
December	68	132	2,754
Total			38,155
Maximum		238	
Average	105		
% Capacity		24	
Municipal Drinking Water Licence Limit		766	

Blackstock Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

	Monthly Average Flow	Maximum Daily Flow	System Capacity
55	cubic metres per day (m³/day) Pro-rated	(m³/day) Pro-rated	(m³/day)
2010	86	189	1,089
2011	92	162	1,089
2012	66	187	1,089
2013	93	210	1,089
2014	91	218	1,089
2015	94	188	1,089
2016	36	234	* 166
2017	84	242	* 166
2018	86	289	* 166
2019	66	227	*166
2020	105	238	* 166

\*Well 7, not in service.

<sup>♣</sup>Blackstock Drinking Water System Capacity and Treated Water Flow Graph



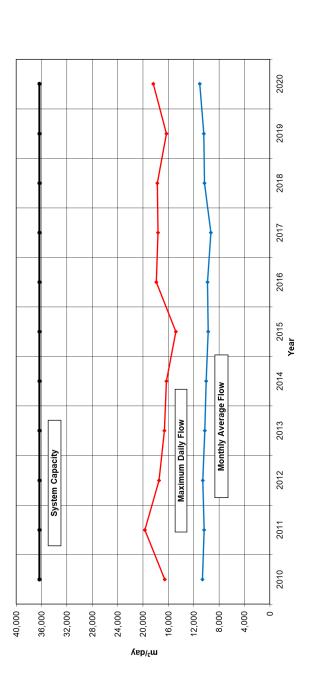
The Regional Municipality of Durham Bowmanville Drinking Water System 2020 Flow Data – Raw and Treated Water Raw Water

Month	Raw Water Monthly Average Flow Cubic metres per day (m³/day)	Raw Water Maximum Daily Flow (m³/day)	Total Raw Water Flow (m³)	Treated Water Monthly Average Flow (m³/day)	Treated Water Maximum Daily Flow (m³/day)	Total Treated Water Flow (m³)
January	10,301	13,433	319,345	9,633	12,071	298,626
February	10,260	11,940	297,535	9,532	11,542	276,418
March	10,245	11,704	317,610	9,575	10,766	296,813
April	10,642	12,983	319,269	9,915	12,164	297,449
Мау	11,686	14,696	362,258	11,008	14,129	341,248
June	14,347	19,634	430,403	13,580	18,409	407,392
July	16,036	20,000	497,103	14,759	14,759	457,538
August	13,722	16,144	425,380	12,460	14,844	386,248
September	12,470	13,909	374,114	11,434	12,614	343,005
October	11,281	14,106	349,706	10,365	13,055	321,311
November	11,152	15,292	334,569	10,186	13,476	305,584
December	11,422	13,375	354,097	10,498	12,184	325,451
Annual Total			4,381,389			4,057,083
Maximum		20,000			18,409	
Average	11,964			11,079		
% Capacity		42			51	
Permit to Take Water Limit		47,700				
Municipal Drinking Water Licence Limit					36,368	

Bowmanville Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

Year	Monthly Average Flow cubic metres per day	Maximum Daily Flow (m³/day)	System Capacity (m³/day)
	(m³/day)		
2010	10,631	16,607	36,368
2011	10,394	19,710	36,368
2012	10,611	17,518	36,368
2013	10,280	16,633	36,368
2014	10,051	16,333	36,368
2015	9,722	14,815	36,368
2016	9,858	17,935	36,368
2017	9,321	17,659	36,368
2018	10,340	17,750	36,368
2019	10,423	16,354	36,368
2020	11,079	18,409	36,368

# Bowmanville Drinking Water System Capacity and Treated Water Flow Graph



Cannington Drinking Water System The Regional Municipality of Durham

2020 Flow Data - Well Number (#) 2 Raw Water and \*Treated Water

Marter (iltres)         Water Maximum Mater (iltres)         Maximum Mater Maximum Average Flow (m³) (m³/day)         Maximum Average Flow (m³) (m³/day)         Maximum Average Flow (m³) (m³/day)         Monthly Maximum Plow (m³) (m³/day)         Flow (m³) (m³/day)         Pro-rated (m³/day)         Flow (m³/day)         Pro-rated (m³/day)         Pro-rated (m³/day)         Flow (m³/day)         Pro-rated (m³/day) <th>Month</th> <th>Well # 2 Raw</th> <th>Well # 2 Raw</th> <th>Well # 2 Raw</th> <th>Well # 2 Total</th> <th>Well # 2</th> <th>Well # 2</th> <th>Well # 2 Total</th>	Month	Well # 2 Raw	Well # 2 Raw	Well # 2 Raw	Well # 2 Total	Well # 2	Well # 2	Well # 2 Total
January         Fro-rated Limit and value         Pro-rated Pro-r		Water Maximum Taken per Minute (litres)	Water Monthly Average Flow Cubic metres	Water Maximum Daily Flow (m³/day)	Raw Water Flow (m³)	Treated Water Monthly Average	Treated Water Maximum Daily Flow	Treated Water Flow (m³) Pro-rated
January         75         39         51         1,233         39         51           February         75         33         38         974         33         81           March         80         34         41         1,056         34         41           Marin         80         36         45         1,056         34         45           May         80         40         56         1,242         40         50           June         80         46         56         1,364         46         56           July         80         46         56         1,342         63         63           August         80         46         56         1,442         63         63           August         80         46         46         1,442         63         48           September         70         32         40         956         34         39           Nocebber         70         31         36         40         956         31         36           Average         80         31         46         46         34         40           Average			per day (m³/day) Pro-rated	Pro-rated		riow (m³/day) Pro-rated	(m²/day) Pro-rated	
Pebruary         75         33         38         974         33         38           March         80         34         41         1,056         34         41           April         80         36         45         40         50           May         80         46         50         1,242         40         50           June         80         46         46         46         46         46         50         40         50           July         80         46         46         46         46         46         56         48         42         56           August         80         34         42         1,199         39         48         42         63         48           September         80         34         42         1,024         34         42         42           November         70         32         40         956         34         42         40           Annual Total         80         34         42         40         40         40         40         40           Average         80         46         46         46         46	January	75		51	1,233		51	1,222
March         80         34         41         1,056         34         41           April         80         36         45         1,073         36         45           May         80         40         50         1,242         46         56           June         80         46         56         1,342         63         45           July         80         46         46         1,442         63         63           August         80         39         48         1,199         39         48           September         80         34         42         1,024         34         42           November         70         32         40         39         4,05         34         42           November         70         32         40         956         34         42           Maximum         80         34         36         40         36         40           Average         80         37         46         75,82         40         40           Municipal         80         46         72         72         72         72           Municipal	February	22	33	38	974	33	38	696
April         80         45         1,073         36         45         46         46         46         46         46         46         46         46         46         46         46         46         46         46         46         46         56         1,242         46         56         48         46         56         48         56         48	March	80	34	17	1,056	34	17	1,051
May         May <th>April</th> <th>80</th> <th>36</th> <th>45</th> <th>1,073</th> <th>36</th> <th>45</th> <th>1,067</th>	April	80	36	45	1,073	36	45	1,067
Juny         80         46         56         1,364         46         56           July         80         46         46         1,442         63         63           August         80         46         46         1,442         63         63           August         80         39         48         1,199         39         48           September         80         34         42         1,024         34         42           November         70         32         40         36         34         42           November         70         31         36         37         40           Annual Total         80         31         36         40           Average         37         46         36         31         40           Permit to take         84         46         36         36         46           Municipal         46         46         36         47         47           Municipal         46         46         46         46         46         46         47           Municipal         46         46         46         46         46         4	May	80	40	09	1,242	40	09	1,235
July         80         46         1,442         63         63           August         80         39         48         1,199         39         48           September         80         34         42         1,199         39         48           October         80         34         42         1,024         34         42           November         70         34         40         35         40         39           November         70         32         40         36         34         42           Annual Total         70         31         36         32         40           Average         37         46         35         40         36           Average         84         121         38         42         42           Municipal         36         46         36         36         36         46           Municipal         46         36         36         36         46         46         46         46         47         46         46         46         46         46         47         46         46         46         46         47         46		80	46	99	1,364	46	99	1,367
80     39     48     1,199     39     48       80     34     42     1,024     34     42       80     34     42     1,024     34     42       80     34     39     34     42       10     32     40     36     32     40       10     31     36     36     36     36       10     31     36     36     36       10     31     36     36     36       10     31     36     36     36       10     32     46     38     36     36       10     32     46     36     36     36     36       10     34     121     36     36     36     36       10     36     36     36     36     36     36       10     36     36     36     36     36     36       10     36     36     36     36     36     36       10     36     37     36     37     36     36       10     36     37     36     37     36     37       10     37     36     37     36     37 </th <th></th> <th>80</th> <th>46</th> <th>97</th> <th>1,442</th> <th>69</th> <th>69</th> <th>1,438</th>		80	46	97	1,442	69	69	1,438
80     34     42     1,024     34     42       80     34     39     1,059     34     39       70     32     40     956     32     40       80     31     960     31     36       80     56     31     36     63       95     37     46     38     12       95     46     38     12       96     31     38     12       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32     40       100     31     32	August	80	39	48	1,199	39	48	1,195
80       34       39       1,059       34       39         70       32       40       956       32       40         80       31       36       31       36         80       31       36       36       36         80       37       46       38       42       42         94       46	September	80	34	75	1,024	34	75	1,020
70       32       40       956       32       40         8       31       36       960       31       36         13,582       13,582       36       36       36         14       37       46       38       46       46         15       121       121       12       12         15       121       12       12       12	October	80	34	68	1,059	34	68	1,053
70       31       36       960       31       36         80       13,582       8       63       8         95       37       46       38       12         1 84       121       121       12         1 84       121       510**	November	20	35	07	926	32	40	926
80     56     38       37     46     38       48     121     121	December	20	31	98	096	31	98	996
80     56     88       95     46     38       121     121	<b>Annual Total</b>				13,582			
35     46     38       4     46     6       5     121     6       6     121     6       7     121     6       8     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     6       10     121     7       10     121     7       10     121     7       10     121     121       10     121     121       10     121     121       10     121     121       10     121     121       10     121     121       10	Maximum	80		99			69	
95 46 121 121 121 121 121 121 121 121 121 12	Average		37			38		
121 121	% Capacity	95		46			12	
	Permit to take water limit	84		121				
Drinking Water License Limit	Municipal						510**	
License Limit	Drinking   Water							
	License Limit							

<sup>\*</sup>Treated water volumes calculated by subtracting waste from raw water volumes. \*\*Limit is combined for Wells 2 & 7.

Cannington Drinking Water System The Regional Municipality of Durham

2020 Flow Data - Well Number (#) 7 Raw Water and \*Treated Water

Month	Well # 7 Raw Water Maximum Taken per Minute	Well # 7 Raw Water Monthly	Well # 7 Raw Water Maximum	Well # 7 Total Raw Water Flow (m³)	Well # 7 Treated Water	Well # 7 Treated Water	Well # 7 Total Treated Water Flow (m³)
	(litres)	Average Flow Cubic metres per day (m³/day) Pro-rated	Daily Flow (m³/day) Pro-rated		Monthly Average Flow (m³/day) Pro-rated	Maximum Daily Flow (m³/day) Pro-rated	Pro-rated
January	260	157	199	4,916	157	199	4,873
February	260	130	147	3,792	130	147	3,777
March	260	129	159	4,025	129	159	4,005
April	260	133	172	4,018	133	172	4,004
May	260	147	183	4,594	147	183	4,565
June	265	172	222	5,147	172	222	5,157
July	260	178	178	5,519	246	246	5,503
August	260	146	183	4,536	146	183	4,521
September	260	129	154	3,884	129	154	3,867
October	260	130	150	4,052	130	150	4,032
November	260	127	154	3,826	127	154	3,821
December	260	124	143	3,838	124	143	3,856
Annual Total				52,147			
Maximum	265		222			246	
Average		142			148		
% Capacity	98		29			48	
Permit to take water limit	270		686				
Municipal Drinking Water						510**	

<sup>\*</sup>Treated water volumes calculated by subtracting waste from raw water volumes. \*\*Limit is combined for Wells 2 & 7.

The Regional Municipality of Durham Cannington Drinking Water System 2020 Flow Data - \* Well Numbers (#) 2 and 7 \*Treated Water

Month	Well # 2 and 7 Treated Water	Well # 2 and 7 Treated	Well # 2 and 7 Total Treated
	Monthly Average Flow Cubic metres per day (m³/day) Pro-rated	Water Maximum Daily Flow (m³/day) Pro-rated	Water Flow (m³) Pro-rated
January	197	250	6,094
February	164	185	4,746
March	163	200	5,056
April	169	218	5,071
May	187	233	5,800
June	217	277	6,524
Ally 45	309	309	6,941
August	184	231	5,716
September	163	196	4,887
October	164	189	5,085
November	159	194	4,775
December	156	179	4,822
Maximum		309	
Average	186		
% Capacity		61	
Municipal		510	
<b>Drinking Water</b>			
Licence Limit			

\*Treated water volumes calculated by subtracting waste from raw water volumes.

The Regional Municipality of Durham Cannington Drinking Water System

2020 Flow Data - Well Number (#) 3 Raw Water and \*Treated Water

Month	Well # 3 Raw Water	Well # 3 Raw	Well # 3	Well # 3 Total	Well #3	Well # 3	Well # 3 Total
	Maximum Taken per Minute (litres)	Water Monthly Average Flow	Raw Water	Raw Water Flow (m³)	Treated Water	Treated Water	Treated Water Flow
		Cubic metres per day (m³/day)	Maximum Daily Flow (m³/day)		Monthly Average Flow	Maximum Daily Flow (m³/day)	(m³) Pro-rated
		Pro-rated	Pro-rated		(m³/day) Pro-rated	Pro-rated	
January	175	66	127	3,091	66	127	3,075
February	170	83	96	2,421	83	36	2,415
March	170	83	100	2,583	83	100	2,585
April	170	87	106	2,633	87	106	2,609
Мау	170	96	113	2,948	96	113	2,950
June 5	170	110	137	3,286	110	137	3,298
July	170	111	155	3,448	111	155	3,439
August	170	96	119	2,967	96	119	2,950
September	170	85	102	2,543	85	102	2,545
October	170	98	102	2,681	98	102	2,668
November	170	82	91	2,451	82	91	2,456
December	170	81	94	2,489	81	94	2,503
Annual Total				33,541			
Maximum	175		155			155	
Average		91			91		
% Capacity	26		09			09	
Permit to take water limit	180		259				
Municipal Drinking Water						259	
License Limit							
C. 10+03. PO+001L*	*Trootody woth the second of the second secon	trooting woods from	7. 10tole 10101 0				

\*Treated water volumes calculated by subtracting waste from raw water volumes.

The Regional Municipality of Durham Cannington Drinking Water System

2020 Flow Data - Well Number (#) 4 Raw Water and \*Treated Water

Month	Well # 4 Raw Water Maximum Taken per Minute	Well # 4 Raw Water Monthly	Well # 4 Raw Water Maximum	Well # 4 Total Raw Water Flow (m³)	Well # 4 Treated Water	Well # 4 Treated Water	Well # 4 Total Treated Water Flow (m³)
	(canu)	Cubic metres per day (m³/day) Pro-	(m³/day) Pro-rated		Average Flow (m³/day) Pro-rated	Daily Flow (m³/day) Pro-rated	
January	185	109	129	3,392	109	129	3,383
February	190	88	102	2,584	89	102	2,586
March	190	87	108	2,714	87	108	2,704
April	175	85	101	2,566	85	101	2,560
May	175	91	109	2,846	91	109	2,830
June 5	175	105	128	3,155	105	128	3,159
July	180	108	108	3,389	152	152	3,355
August	180	94	115	2,907	94	115	2,901
September	180	88	108	2,673	88	108	2,671
October	190	06	108	2,817	06	108	2,788
November	190	91	103	2,718	91	103	2,729
December	190	06	109	2,789	06	109	2,793
Annual Total				34,550			
Maximum	190		129			152	
Average		94			86		
% Capacity	66		47			22	
Permit to take water limit	192		277				
Municipal Drinking Water License I imit						276	
*Trooted water volumes calculated by subtracting waste from raw water volumes			4				

\*Treated water volumes calculated by subtracting waste from raw water volumes.

2020 Flow Data - Well Number (#) 8 Raw Water and \*Treated Water Cannington Drinking Water System The Regional Municipality of Durham

Month	Well # 8 Raw	Well # 8 Raw	Well # 8 Raw	Well # 8 Total	Well # 8	Well # 8	Well # 8 Total
	Taken per Minute (litres)	Monthly Average Flow Cubic metres per day (m³/day)	Maximum Daily Flow (m³/day) Pro-rated	Flow (m <sup>3</sup> )	Water Wonthly Average Flow (m³/day)	Water Maximum Daily Flow (m³/day) Pro-rated	reated Water Flow (m³) Pro-rated
January	360	203	240	6,299	203	240	6,321
February	360	166	189	4,819	166	189	4,813
March	360	167	210	5,193	167	210	5,171
April	360	168	202	5,040	168	202	5,040
Мау	360	187	233	5,823	187	233	5,788
June	360	210	252	6,271	210	252	6,288
July	360	216	216	6,771	321	321	6,688
August	360	182	228	5,658	182	228	5,644
September	360	166	197	4,966	166	197	4,970
October	360	165	195	5,172	165	195	5,126
November	370	167	196	4,990	167	196	4,997
December	370	165	209	5,116	165	209	5,129
Annual Total				66,118			
Maximum	370		252			321	
Average		180			189		
% Capacity	9		31			39	
Permit to take water limit	268		818				
Municipal Drinking Water						818	

\*Treated water volumes calculated by subtracting waste from raw water volumes.

**License Limit** 

The Regional Municipality of Durham Cannington Drinking Water System 2020 Flow Data – Total System Raw and \*Treated Water

Month	Raw Water	Raw Water	Total Raw	Treated Water	Treated Water	Total Treated
	Monthly Average	Maximum	Water Flow	Monthly	Maximum	Water Flow
	Flow Cubic metres	Daily Flow	(m³)	<b>Average Flow</b>	Daily Flow	(m³) Pro-rated
	per day (m³/day)	(m³/day)		(m³/day)	(m³/day)	
	Pro-rated	Pro-rated		Pro-rated	Pro-rated	
January	809	744	18,953	809	744	18,851
February	505	258	14,589	505	258	14,560
March	501	618	15,572	501	618	15,516
April	209	265	15,330	209	265	15,280
Мау	260	678	17,454	260	829	17,369
June	642	795	19,222	642	795	19,270
July	629	938	20,569	629	938	20,424
August 2	222	663	17,267	222	663	17,211
September	205	502	15,090	295	295	15,072
October	202	278	15,781	202	578	15,667
November	499	269	14,942	499	269	14,958
December	492	583	15,192	492	583	15,246
Annual Total			199,960			
Maximum		938			938	
Average	545			220		
% Capacity		20			20	
Permit to take water limit		1863				
Municipal Drinking Water License Limit					1863	

License Limit

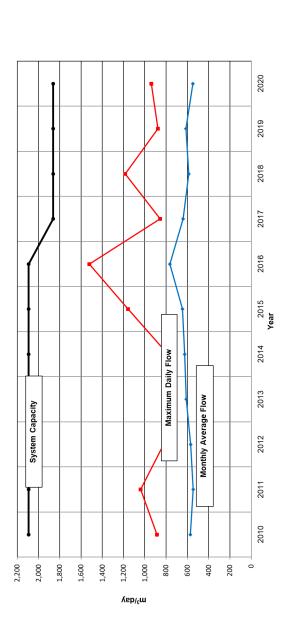
\*Treated water volumes calculated by subtracting waste from raw water volumes.

Cannington Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

Year	Monthly Average Flow	Maximum Daily	System Capacity (m³/day)
	cubic metres per day (m³/day) Pro-rated	Flow (m³/day) Pro-rated	
2010	572	887	2,092
2011	546	1,041	2,092
2012	570	824	2,092
2013	611	781	2,092
2014	625	782	2,092
2015	645	1,157	2,092
2016	292	1,523	2,092
2017	641	857	1,863*
2018	586	1,186	1,863
2019	614	876	1,863
50 <b>5</b> 0	920	938	1,863
		0	

<sup>\*</sup>Capacity changed due to decommissioning of Well 6.

Cannington Drinking Water System Capacity and Treated Water Flow Graph



2020 Flow Data - Well Number (#) 1 Raw Water and Well # 3 Raw Water The Regional Municipality of Durham **Greenbank Drinking Water System** 

	S S	-	Well # 1 Raw Water	Well # 1 Total Raw	Well # 3 Raw Water	Well # 3 Raw	Well # 3 Raw	Well # 3 Total Raw Water
	Maximum Taken per Minute	Monthly Average Flow cubic	Maximum Daily Flow (m³/day) Pro-rated	Water Flow (m³)	Maximum Taken per Minute	Water Monthly Average	Water Maximum Daily Flow	Flow (m³)
		(day m³/day) Pro-rated				(m³/day) Pro-rated	Pro-rated	
January	90	20	24	626	77	29	35	606
February	22	23	38	654	85	34	61	906
March	22	20	27	627	88	33	46	1,026
April	90	22	28	663	88	33	43	986
Мау	69	21	34	456	84	40	28	1,115
June	09	39	71	1,164	87	89	26	2,014
July	09	33	53	1,024	88	69	103	1,836
August	09	25	31	780	88	42	53	1,300
September	09	28	34	848	88	14	49	1,226
October	09	28	39	871	88	14	69	1,269
November	99	26	34	929	88	43	89	1,302
December	99	25	33	785	87	42	99	1,296
Annual Total				9,172				15,186
Maximum	69		71		88		103	
Average		26				42		
% Capacity	66		71		26		62	
Permit to take water limit	02		101		91		130	

The Regional Municipality of Durham Greenbank Drinking Water System

2020 Flow Data - Well Number (#) 4 Raw Water and Well # 5 Raw Water

Month	Well # 4 Raw	Well # 4	Well # 4	Well # 4	Well # 5	Well # 5	Well # 5	Well # 5 Total
	Water Maximum	Raw Water Monthly	Raw Water Maximum	Total Raw Water Flow	Raw Water Maximum	Raw Water	Raw Water	Raw Water Flow (m³)
	Taken per Minute	Average Flow cubic	Daily Flow (m³/day)	(m <sub>3</sub> )	Taken per Minute	Monthly Average	Maximum Daily Flow	
	(litres)	metres per day (m³/day) Pro-rated	Pro-rated		(litres)	Flow (m³/day) Pro-rated	(m³/day) Pro-rated	
January	58	21	25	661	63	21	26	671
February	89	22	51	282	89	23	42	645
March	29	24	33	742	89	21	32	664
April	29	26	33	780	89	19	25	526
Мау	65	37	26	1,148	22	26	41	822
June	99	41	64	1,099	64	36	53	1,067
July	69	41	20	1,274	09	28	<b>9</b> 9	824
August	63	29	36	891	22	21	26	929
September	63	28	34	842	29	21	26	280
October	63	28	43	698	22	20	32	289
November	63	29	46	878	09	23	32	684
December	63	28	36	867	22	23	28	200
Annual Total				10,638				8,475
Maximum	89		70		89		22	
Average		29				24		
% Capacity	100		71		100		56	
Permit to take	89		66		89		66	
water limit								

The Regional Municipality of Durham Greenbank Drinking Water System 2020 Flow Data - Well Number (#) 6 Raw Water

Month	Well # 6 Raw Water	Well # 6 Raw Water Monthly Average	Well # 6 Raw Water Maximum	Well # 6 Total Raw Water Flow
	Minute (litres)	Flow cubic metres per day (m³/day)		(m³)
January	82	31	37	971
February	88	32	29	854
March	88	33	46	1,017
April	88	37	45	1,095
May	88	51	8/	1,593
June	85	34	25	470
July	83	33	54	828
August	82	35	47	1,092
September	82	38	46	1,137
October	85	36	53	1,130
November	85	35	29	1,052
December	82	41	54	1,276
Annual Total				12,542
Maximum	88		82	
Average		36		
% Capacity	26		09	
Permit to take	91		130	
water limit				

The Regional Municipality of Durham Greenbank Drinking Water System 2020 Flow Data - Reservoir/System Total Treated Water

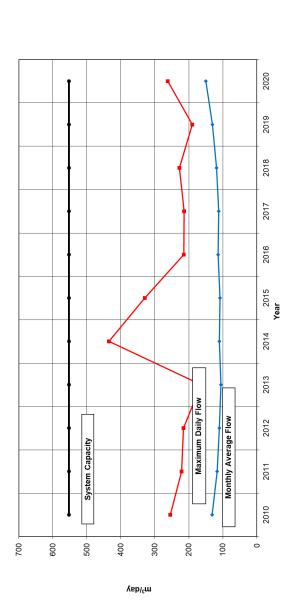
Montn	Treated Water	<b>Treated Water</b>	Total Treated
	<b>Monthly Average</b>	<b>Maximum Daily</b>	Water Flow (m³)
	Flow cubic metres	Flow (m³/day)	
	per day (m³/day)	<b>Pro-rated</b>	
	Pro-rated		
January	122	131	3,806
February	124	136	3,587
March	129	143	3,977
April	134	144	4,033
Мау	162	236	5,036
June	189	262	5,638
July	186	259	5,782
August	151	169	4,677
September	153	173	4,583
October	147	160	4,577
November	147	161	4,406
December	154	176	4,786
Annual Total			54,887
Maximum		262	
Average	20		
% Capacity		47	
Municipal		223	
<b>Drinking Water</b>			
Licence Limit			

The Regional Municipality of Durham

Greenbank Drinking Water System Capacity and Treated Water Flow Data

(	Monthly Average Flow	Maximum Daliy Flow	System Capacity
5 5	cubic metres per day (m³/day) Pro-rated	(m³/day) Pro-rated	(m³/day)
2010	132	255	553
2011	117	221	553
2012	110	216	553
2013	106	164	553
2014	110	435	553
2015	108	329	553
2016	114	215	553
2017	112	214	553
2018	119	228	553
2019	131	190	553
2020	150	262	553

## Greenbank Drinking Water System Capacity and Treated Water Flow Graph



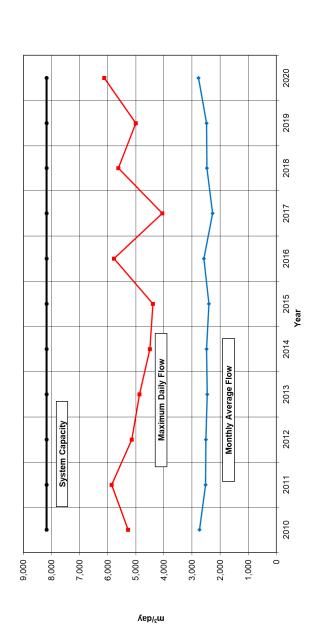
The Regional Municipality of Durham Newcastle Drinking Water System 2020 Flow Data - Raw Water and Treated Water

Month	Raw Water Monthly Average Flow Cubic metres per day (m³/day)	Raw Water Maximum Daily Flow (m³/day)	Total Raw Water Flow (m³)	Treated Water Monthly Average Flow (m³/day)	Treated Water Maximum Daily Flow (m³/day)	Total Treated Water Flow (m³)
January	2,353	3,555	72,938	2,227	3,306	69,043
February	2,560	3,756	74,238	2,433	3,553	70,548
March	2,425	3,501	75,175	2,281	3,256	70,719
April	2,521	3,414	75,627	2,382	3,203	71,473
Мау	2,911	4,548	90,251	2,753	4,378	85,350
June	3,864	5,292	115,907	3,674	5,046	110,222
July	4,048	6,363	125,490	3,868	6,125	119,902
August	3,516	4,747	108,986	3,287	4,440	101,888
September	3,156	4,343	94,693	2,970	4,037	89,102
October	2,712	3,525	84,079	2,529	3,307	78,397
November	2,597	3,496	77,896	2,441	3,151	73,219
December	2,474	3,066	76,706	2,363	2,937	73,258
Annual Total			1,071,985			1,013,121
Maximum		6,363			6,125	
Average	2,928			2,767		
% Capacity		32			75	
Permit to Take Water Limit		18,100				
Municipal Drinking Water Licence Limit					8,173	

Newcastle Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

Year	Monthly Average Flow cubic metres per day	Maximum Daily Flow (m³/day)	System Capacity (m³/day)
2010	2,734	5,276	8,173
2011	2,515	5,862	8,173
2012	2,508	5,149	8,173
2013	2,457	4,868	8,173
2014	2,480	4,504	8,173
2015	2,398	4,398	8,173
2016	2,579	5,777	8,173
2017	2,272	4,056	8,173
2018	2,476	5,623	8,173
2019	2,489	5,004	8,173
2020	2,767	6,125	8,173

## Newcastle Drinking Water System Capacity and Treated Water Flow Graph



The Regional Municipality of Durham

**Orono Drinking Water System** 

2020 Flow Data - Well Number (#) 3\* Raw Water and Well # 4\* Raw Water

Month	Well # 3 Raw	Well # 3	Well # 3 Raw	Well # 3	Well # 4	Well # 4	Well # 4	Well # 4
	Water Maximum Taken per Minute (litres)	Raw Water Monthly Average Flow cubic metres per day (m³/day)	Water Maximum Daily Flow (m³/day) Pro-rated	Total Raw Water Flow (m³)	Raw Water Maximum Taken per Minute (litres)	Raw Water Monthly Average Flow (m³/day) Pro-rated	Raw Water Maximum Daily Flow (m³/day) Pro-rated	Total Raw Water Flow (m³)
January	892	Pro-rated 274	371	6,281	720	246	288	1,982
February	732	252	317	5,901	202	202	288	1,454
March	732	252	328	5,795	732	253	292	2,035
April	756	261	317	5,441	726	269	301	2,435
May	768	351	603	8,349	720	334	419	2,371
S) Inne	744	391	527	8,511	732	369	537	2,980
July	792	445	764	9,223	720	447	969	4,598
August	744	341	202	8,012	744	346	378	2,470
September	720	318	470	6,432	720	329	699	3,452
October	720	250	342	5,713	202	222	289	2,028
November	720	253	324	5,377	720	243	284	2,014
December	720	285	356	6,268	202	273	341	2,469
Annual Total				81,303				30,288
Maximum	792		764		744		969	
Average		306				297		
% Capacity	87		88		82		80	
Permit to	606		873		606		873	
Take Water								
311111								

<sup>\*</sup>Well cannot be run for more than sixteen hours per day as indicated in the Permit to Take Water.

The Regional Municipality of Durham

**Orono Drinking Water System** 

2020 Flow Data - Well Number (#) 5\* Raw Water and System Total Treated Water\*\*

Month	Well # 5 Raw Water Monthly Average Flow cubic metres per day (m³/day)	Well # 5 Raw Water Maximum Daily Flow (m³/day) Pro-rated	Well # 5 Total Raw Water Flow (m³)	System Total Treated Water Monthly Average Flow (m³/day) Pro-rated	System Total Treated Water Maximum Daily Flow (m³/day) Pro-rated	System Total Treated Water Flow (m³)
January	Pro-rated 0	0	0	262	371	8,101
February	0	0	0	251	326	7,215
March	0	0	0	240	316	7,439
April	0	0	0	250	317	7,712
Мау	0	0	0	343	603	10,558
June	0	0	0	360	537	11,072
July	0	0	0	440	764	13,641
August	0	0	0	327	505	10,065
September	0	0	0	314	526	9,702
<b>October</b>	0	0	0	245	325	7,558
November	0	0	0	238	324	7,224
December	0	0	0	277	326	8,557
Annual Total						108,844
Maximum					764	
Average				296		
% Capacity					88/44	
Permit to Take		828				
Water Limit						
Municipal Drinking Water Licence Limit					873/1,745***	
*///01  504 in 005 ii0						

\*Well not in service

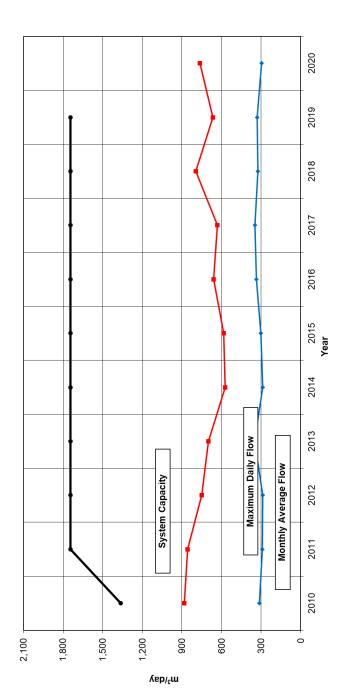
<sup>\*\*</sup>Treated water volumes calculated by subtracting waste from raw water volumes \*\*\*The rated capacity can be increased to 1,745 m $^3$ /day for up to 90 days per calendar year

Orono Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

cubic metres per day         (m³/day) Pro-rated         2010         2011         2012         2013         2014         2015         2016	ated 314 292 289 350	(m³/day) Pro-rated 882 858 751	(m³/day)
		882 858	1 36/
2012 2013 2014 2015 2016	292 289 350	858	‡00,-
2012 2013 2014 2015 2016	289	751	1,745*
2013 2014 2015 2016	350	->-	1,745*
2014 2015 2016	)	669	1,745*
2015 2016	288	572	1,745*
2016	301	584	1,745*
	336	661	1,745*
2017	348	631	1,745*
2018	325	794	1,745*
2019	330	999	1,745*
2020	296	764	1,745*

The rated capacity can be increased to 1,745 m<sup>3</sup>/day not exceeding 90 days per calendar year.

Porono Drinking Water System Capacity and Treated Water Flow Graph



2020 Flow Data - West Intake Raw Water and East Intake Raw Water The Regional Municipality of Durham Oshawa Drinking Water System

Month	West Intake	West Intake	West Intake	East Intake	East Intake	East Intake Total
	Raw Water Monthly Average Flow Cubic metres	Raw Water Maximum Daily Flow (m³/day)	Total Raw Water Flow (m³)	Raw Water Monthly Average Flow (m³/day)	Raw Water Maximum Daily Flow (m³/day)	Raw Water Flow (m³)
	per day (m³/day)					
January	11,194	13,077	347,011	35,334	41,570	1,095,358
February	12,861	14,179	372,983	34,307	36,657	994,917
March	11,725	14,543	363,483	34,664	35,821	1,074,587
April	12,919	14,318	387,559	34,460	35,715	1,033,791
May	14,697	17,117	455,615	38,318	46,688	1,187,844
June	14,667	17,223	440,024	50,525	58,725	1,515,737
July	15,037	19,281	466,161	52,155	64,673	1,616,809
August	12,989	15,836	402,652	45,690	56,428	1,416,390
September	12,265	14,602	367,956	43,029	53,025	1,290,876
October	10,887	13,298	337,483	35,498	45,919	1,100,440
November	10,807	12,654	324,196	37,220	43,504	1,116,591
December	11,024	12,065	341,758	37,547	42,105	1,163,942
Annual Total			4,606,882			14,607,282
Maximum		19,281			64,673	
Average	12,589			39,896		
% Capacity		44			72	
Permit to Take Water Limit		44,000			000'06	
					-	

The Regional Municipality of Durham Oshawa Drinking Water System

2020 Flow Data - Total Raw Water and Treated Water

Month	Total Raw Water Monthly Average Flow Cubic metres per day (m³/day)	Total Raw Water Maximum Daily Flow (m³/day)	Total Raw Water Flow (m³)	Total Treated Water Monthly Average Flow (m³/day)	Total Treated Water Maximum Daily Flow (m³/day)	Total Treated Water Flow (m³)
January	46,528	52,591	1,442,369	42,499	49,597	1,317,463
February	47,169	49,185	1,367,900	42,955	45,850	1,245,683
March	46,389	49,325	1,438,070	43,263	44,969	1,341,143
April	47,378	49,910	1,421,350	42,984	45,010	1,289,533
Мау	53,015	63,805	1,777,458	47,914	57,115	1,485,343
June	65,192	75,818	1,955,761	56,217	64,279	1,686,521
July	67,193	83,954	2,216,970	29,080	71,764	1,831,469
August	58,679	72,264	1,819,042	52,867	64,143	1,638,869
September	55,294	67,628	1,658,832	50,240	59,495	1,507,214
October	46,385	29,062	1,571,924	42,994	52,273	1,332,824
November	48,026	55,631	1,440,788	43,268	51,045	1,298,040
December	48,571	54,170	1,505,701	43,452	47,707	1,347,023
Annual Total			19,616,165			17,321,125
Maximum		83,954			71,764	
Average	52,485			47,311		
% Capacity		69			29	
Permit to Take Water Limit		134,000*				
Municipal Drinking Water					107,000/	
Licence Limit					) ) - - )	
*DTTW! Imit in a	*DTTW   imit is a system total of 131 000 m3/day	/cp/				

PTTW Limit is a system total of 134,000 m $^3$ /day.

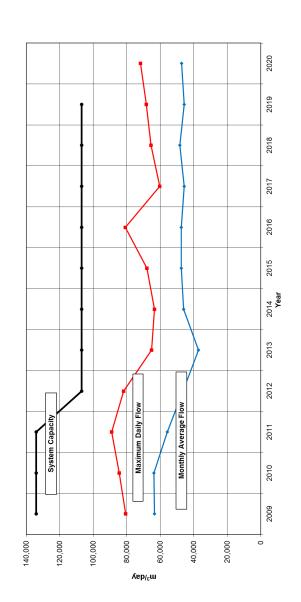
<sup>\*\*</sup> Oshawa Plant #1 has a capacity of 27,000 m3/day. Plant # 2 has a capacity of 107,000 m3/day. Plant 1 was out of service from 2010 for upgrades. Plant 1 came back online November 3rd, 2020 at which time the system capacity increased from 107,000 m3/day to 134,000 m<sup>3</sup>/day.

Oshawa Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

Year	Monthly Average Flow	Maximum Daily	System Capacity (m³/day)
	cubic metres per day (m³/day)	Flow (m³/day)	
2010	63,857	84,568	134,000
2011	55,790	89,049	107,000
2012	46,366	81,828	107,000
2013	37,155	65,193	107,000
2014	46,124	63,427	107,000
2015	47,429	67,944	107,000
2016	47,443	992'08	107,000
2017	45,763	906,09	107,000
2018	48,334	955'59	107,000
2019	45,707	68,374	107,000
2020	47,311	71,764	107,000/134,000*

\*Oshawa Plant #1 has a capacity of 27,000 m³/day. Plant #2 has a capacity of 107,000 m³/day. Plant 1 was out of service from 2010 o Osilawa Flant # المعادر عليه معادر المعادر 134,000 m<sup>3</sup>/day.

## Oshawa Drinking Water System Capacity and Treated Water Flow Graph



The Regional Municipality of Durham

Port Perry Drinking Water System

2020 Flow Data - Well Number (#) 3 Raw and Treated Water and Well # 5 Raw and Treated Water

Month	Well #3 Maximum Taken per Minute (litres)	Well # 3 Monthly Average Flow cubic metres per day (m³/day) Pro-rated	Well # 3 Maximum Daily Flow (m³/day) Pro-rated	Well # 3 Total Water Flow (m³)	Well # 5 Maximum Taken per Minute (litres)	Well # 5 Monthly Average Flow (m³/day) Pro-rated	Well # 5 Maximum Daily Flow (m³/day) Pro-rated	Well # 5 Total Water Flow (days)
January	1,700	185	267	5,737	1,700	191	283	5,916
February	1,725	219	343	6,357	1,750	226	320	6,551
March	1,700	182	349	4,979	1,700	175	347	5,135
April	1,700	186	296	5,492	1,700	191	208	5,659
May	1,700	190	307	5,813	1,700	195	323	5,977
June	1,700	500	326	6,219	1,700	215	324	6,383
S July	1,700	222	355	6,940	1,700	228	298	7,134
August	1,700	192	307	5,910	1,700	196	908	6,056
September	1,700	282	696	15,808	1,700	540	918	15,960
October	1,700	182	594	5,522	1,700	183	584	5,579
November	1,700	189	291	5,465	1,700	191	294	5,522
December	1,700	206	319	6,343	1,700	206	309	6,351
<b>Annual Total</b>				80,585				82,223
Maximum	1,725		696		1,750		918	
Average		225				228		
% Capacity	36		37		96		28	
Permit to take	1,817		2,617		1,817		2,617	
water limit								
Municipal			2,618				2,618	
Drinking								
Water License								
Limit								

The Regional Municipality of Durham

Port Perry Drinking Water System

2020 Flow Data - Well Number (#) 6 Raw and Treated Water and System Total Treated Water

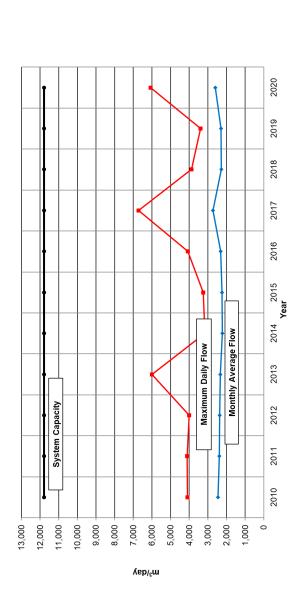
Monthy well # 6 monthy water monthy maximum water maximum monthy monthy monthy maximum monthy month monthy mont								
Minute (litres)	Month	Well # 6 Maximum	Well # 6 Monthly	Well # 6 Maximum	Well # 6 Total Water Flow	Treated Water	Treated Water	Total Treated Water Flow (m³)
January         4,000         1,738         2,113         54,131         2,114           February         4,000         1,845         2,295         54,058         2,290           March         4,000         1,773         2,320         54,803         2,107           April         4,000         1,771         2,159         51,659         2,087           May         4,000         2,015         2,603         62,775         2,400           June         4,200         2,015         2,603         62,775         2,400           July         4,200         2,214         2,880         68,601         2,977           July         4,200         2,214         2,880         68,601         2,602           September         4,200         3,564         4,519         106,786         4,639           October         4,320         1,884         4,277         62,047         2,337           November         4,320         1,824         2,317         56,876         2,229           Acerage         4,320         1,824         2,317         56,876         2,613           % Capacity         95         6,645         6,636         2,613		l aken per Minute (litres)	Average Flow cubic metres per day (m³/day) Pro-rated	Dally Flow (m³/day) Pro-rated	(Æ)	Montnly Average Flow (m³/day) Pro-rated	Maximum Daily Flow (m³/day) Pro-rated	
February         4,000         1,845         2,295         54,058         2,290           March         4,000         1,773         2,320         54,803         2,107           April         4,000         1,771         2,159         54,803         2,107           May         4,000         2,015         2,603         62,775         2,400           June         4,200         2,553         3,673         76,446         2,977           July         4,200         2,890         3,851         90,599         3,340           August         4,200         2,214         2,880         68,601         2,602           September         4,200         3,564         4,519         106,786         4,639           October         4,320         1,884         4,277         62,047         2,337           November         4,320         1,824         2,317         56,876         2,236           Average         4,320         1,824         2,317         56,876         2,536           Average         4,543         6,54         4,519         2,613         2,613           Municipal         4,543         6,542         6,542         2,613	January	4,000	1,738	2,113	54,131	2,114	2,464	65,784
March         4,000         1,773         2,320         54,803         2,107           April         4,000         1,711         2,159         51,659         2,107           May         4,000         2,015         2,603         62,775         2,400           June         4,200         2,553         3,673         76,446         2,977           July         4,200         2,580         3,851         90,599         3,340           August         4,200         2,214         2,880         68,601         2,602           September         4,200         3,564         4,519         106,786         4,639           October         4,380         1,884         4,277         62,047         2,337           November         4,320         1,884         4,519         106,786         4,639           Annual Total         4,320         1,824         2,317         56,876         2,229           Average         4,543         2,164         2,519         2,613         2,613           Municipal         4,543         6,542         2,613         2,613           Municipal         6,545         2,548         2,613           Mater	February	4,000	1,845	2,295	54,058	2,290	2,613	296,99
April         4,000         1,711         2,159         51,659         2,087           May         4,000         2,015         2,603         62,775         2,400           June         4,200         2,553         3,673         76,446         2,977           July         4,200         2,890         3,851         90,599         3,340           August         4,200         2,214         2,880         68,601         2,602           September         4,200         3,564         4,519         106,786         4,639           October         4,380         1,984         4,277         62,047         2,337           November         4,320         1,861         2,262         56,035         2,229           Annual Total         4,320         1,824         2,317         56,876         2,236           Average         4,580         4,519         794,816         2,613         2,613           Maximum         4,380         1,824         2,317         56,876         2,236           Mavarer limit         Municipal         6,542         6,543         2,613         2,613           Municipal         4,543         6,545         2,613         2	March	4,000	1,773	2,320	54,803	2,107	2,479	64,916
+         4,000         2,015         2,603         62,775         2,400           st         4,200         2,553         3,673         76,446         2,977           st         4,200         2,890         3,851         90,599         3,340           ember         4,200         2,214         2,880         68,601         2,602           ber         4,200         3,564         4,519         106,786         4,639           smber         4,320         1,861         2,262         56,047         2,337           smber         4,320         1,861         2,262         56,047         2,337           all Total         4,320         1,824         2,317         56,876         2,236           age         2,164         4,519         794,816         2,236           nit to take         4,543         6,542         2,613           r limit         6,542         6,542         2,613           r limit         6,545         6,545         7           string         8,654         6,545         8           string         8,654         8,654         8	April	4,000	1,711	2,159	51,659	2,087	2,503	62,810
June         4,200         2,553         3,673         76,446         2,977           July         4,200         2,890         3,851         90,599         3,340           August         4,200         2,214         2,880         68,601         2,602           September         4,200         3,564         4,519         106,786         4,639           October         4,320         1,984         4,277         62,047         2,337           November         4,320         1,861         2,262         56,035         2,229           December         4,320         1,824         2,317         56,876         2,236           Annual Total         Assistant         4,519         794,816         2,236           Average         2,164         4,519         794,816         2,613           % Capacity         95         4,519         2,613         2,613           Water limit         Municipal         6,542         6,542         2,613         1           Water         Water         Mater         6,545         2,545         2,613         1	May	4,000	2,015	2,603	62,775	2,400	3,016	74,564
July         4,200         2,890         3,851         90,599         3,340           August         4,200         2,214         2,880         68,601         2,602           September         4,200         3,564         4,519         106,786         4,639           October         4,380         1,984         4,277         62,047         2,337           November         4,320         1,861         2,262         56,035         2,229           December         4,320         1,824         2,317         56,876         2,236           Annual Total         Average         2,164         56,876         2,236           Average         2,164         69         2,613           % Capacity         95         2,164         65           Permit to take         4,543         6,542         2,613           Water limit         Water         6,545         2,645           Univining         Water         6,545         8	June	4,200	2,553	3,673	76,446	2,977	4,149	89,049
August         4,200         2,214         2,880         68,601         2,602           September         4,200         3,564         4,519         106,786         4,639           October         4,380         1,984         4,277         62,047         2,337           November         4,320         1,861         2,262         56,035         2,229           December         4,320         1,824         2,317         56,876         2,236           Annual Total         Annual Total         4,380         4,519         794,816         2,236           Average         Capacity         95         2,164         69         2,613         2,613           Municipal         4,543         6,542         6,542         2,613         2,613         1           Municipal         Mater         Mater         6,545         2,645         2,613         2,613         1           Water         License Limit         6,545         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645         8,645		4,200	2,890	3,851	665'06	3,340	4,377	104,673
mber         4,200         3,564         4,519         106,786         4,639           er         4,380         1,984         4,277         62,047         2,337           nber         4,320         1,824         2,262         56,035         2,229           nber         4,320         1,824         2,317         56,876         2,236           num         4,380         4,519         794,816         2,236           num         2,164         69         2,613           pacity         95         6,542         2,613           imit         6,542         6,542         2,613           se Limit         6,545         6,545         2,613         1		4,200	2,214	2,880	68,601	2,602	3,225	80,567
er         4,380         1,984         4,277         62,047         2,337           nber         4,320         1,861         2,262         56,035         2,229           nber         4,320         1,824         2,317         56,876         2,236           num         4,380         4,519         794,816         2           ge         2,164         69         2,613           to take         4,543         6,542         2,613           limit         6,542         6,545         2           se Limit         6,545         6,545         2	September	4,200	3,564	4,519	106,786	4,639	6,070	138,554
nber         4,320         1,861         2,262         56,035         2,229           nber         4,320         1,824         2,317         56,876         2,236           num         4,380         4,519         794,816         2,236           ge         2,164         69         2,613         2,613           pacity         95         6,542         6,542         2,613         1           ipal         6,545         6,545         2,613         1           se Limit         6,545         6,545         8         1         1	October	4,380	1,984	4,277	62,047	2,337	5,455	73,147
nber         4,320         1,824         2,317         56,876         2,236           al Total         794,816         2,236         2,236           num         4,380         4,519         2,613         2,613           ge         2,164         69         2,613         2,613           t to take         4,543         6,542         2,613         1           ipal         6,545         6,545         1           se Limit         6,545         2,613         1	November	4,320	1,861	2,262	56,035	2,229	2,548	67,023
num         4,380         4,519         794,816         794,816         794,816         794,816         794,816         794,816         794,816         794,816         794,816         794,816         794,813         794,81	December	4,320	1,824	2,317	56,876	2,236	2,704	69,570
num         4,380         4,519         2,164         2,164         2,613         2	Annual Total				794,816			957,624
ge         2,164         2,613           bacity         95         69         2,613           t to take         4,543         6,542         6,542           limit         6,545         6,545           se Limit         6,545         6,545	Maximum	4,380		4,519			6,070	
bacity         95         69         7         6<	Average		2,164			2,613		
t to take         4,543         6,542           limit         6,545           ipal         6,545           se Limit         6,545	% Capacity	96		69			52	
ipal 6,545 e.545 e.555 e	Permit to take	4,543		6,542				
ipal 6,545 ng	אמנפו וווווו							
Drinking Water License Limit	Municipal			6,545			11,781	
Water License Limit	Drinking							
License Limit	Water							
	License Limit							

The Regional Municipality of Durham

Port Perry Drinking Water System Capacity and Treated Water Flow Data

Year	<b>Monthly Average Flow</b>	Maximum Daily Flow	System Capacity
	cubic metres per day (m³/day) Pro-rated	(m³/day) Pro-rated	(m³/day)
2010	2,454	4,096	11,781
2011	2,391	4,106	11,781
2012	2,365	4,001	11,781
2013	2,341	900'9	11,781
2014	2,228	3,167	11,781
2015	2,245	3,251	11,781
2016	2,317	4,075	11,781
2017	2,740	6,724	11,781
2018	2,289	3,873	11,781
2019	2,292	3,403	11,781
2020	2,613	0,009	11,781

## Port Perry Drinking Water System Capacity and Treated Water Flow Graph



2020 Flow Data - Well Number (#) 1 Raw Water and \*Treated Water The Regional Municipality of Durham Sunderland Drinking Water System

Month	Well # 1 Raw	Well # 1 Raw	Well # 1 Raw	Well # 1 Total	Well #1 Treated Water	Well #1	Well # 1 Total
	Maximum Taken per	Average Flow Cubic metres	Maximum Daily Flow	Flow (m³)	Monthly Average Flow	ΕŽ	Water Flow (m³)
	(litres)	per day (m³/day) Pro-rated	Pro-rated		Pro-rated		710-1ateu
January	450	158	427	4,384	158	427	4,422
February	450	203	405	5,937	203	405	5,894
March	438	176	327	5,459	176	327	5,451
April	438	149	332	4,550	149	332	4,461
May	438	215	388	6,672	215	385	6,668
June	438	254	<b>7</b> 77	7,433	727	444	7,378
July	450	218	344	6,722	218	344	6,748
<sup>→</sup> August	450	186	346	292'5	186	349	5,756
September	450	184	377	5,535	184	377	5,521
October	450	135	211	4,164	135	211	4,174
November	450	155	241	4,680	155	241	4,656
December	468	192	378	5,993	192	378	5,942
Annual Total				67,294			
Maximum	468		444			444	
Average		185			185		
% Capacity	46		32			32	
Permit to Take Water Limit	1,023		1,373				
Municipal Drinking Water						1,374	
Licence Limit							

\*Treated water volumes calculated by subtracting waste from raw water volumes

The Regional Municipality of Durham Sunderland Drinking Water System

2020 Flow Data - \*Well Number (#) 2 Raw Water and Treated Water

Month	Well # 2 Raw	Well # 2 Raw	Well # 2 Raw	Well # 2 Total	Well # 2	Well # 2	Well # 2 Total
	Water	> \	Water Maximum	Raw Water Flow (m³)	Treated Water Monthly		Treated Water Flow (m <sup>3</sup> )
	Taken per Minute (litres)	Cubic metres per day (m³/day) Pro-rated	Daily Flow (m³/day) Pro-rated		Average Flow (m³/day) Pro-rated	Maximum Daily Flow (m³/day) Pro-rated	Pro-rated
January	ı	3	4.1	12	0	0	0
February	1	2.8	4.1	11	0	0	0
March	1	4.9	9.2	24	0	0	0
April	1	2.7	5.1	11	0	0	0
May	1	4.9	10.2	19	0	0	0
June	-	3.9	6.1	19	0	0	0
July	-	2.8	4.1	11	0	0	0
August	•	2.9	5.1	14	0	0	0
September	-	3.8	5.1	15	0	0	0
October	•	3.2	7.1	16	0	0	0
November	-	0.9	9.4	23	0	0	0
December	-	3.4	4.1	17	0	0	0
Annual Total				192			
Maximum			10				
Average		4					
% Capacity			1				
Permit to Take Water Limit	1,023		1,373				
Municipal Drinking Water Licence Limit						1,374	
	0000						

\*Well 2 was offline in 2020.

### Attachment #1 to Report #2021-W-11

The Regional Municipality of Durham Sunderland Drinking Water System

2020 Flow Data - Well Number (#) 3 Raw Water and \*Treated Water

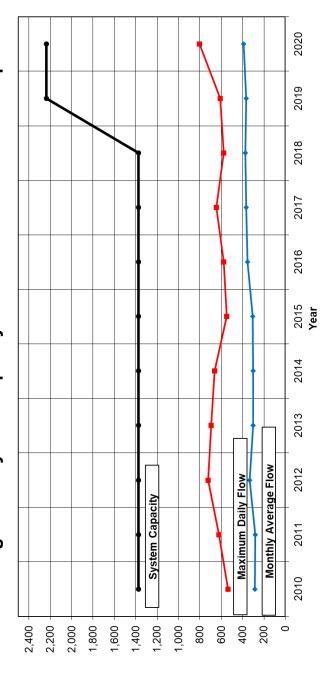
Month	Well # 3 Raw Water	Well # 3 Raw Water Monthly	Well # 3 Raw Water	Well # 3 Total Raw Water	Well # 3 Treated Water	Well # 3 Treated	Well # 3 Total Treated Water
	Maximum Taken per Minute (litres)	Average Flow Cubic metres per day (m³/day) Pro-rated	Maximum Daily Flow (m³/day) Pro-rated	Flow (m³)	Monthly Average Flow (m³/day) Pro-rated	Water Maximum Daily Flow (m³/day) Pro-rated	Flow (m³) Pro-rated
January	588	222.1	370.4	6870	222.1	370.4	6883.8
February	588	202.7	361	5424.6	202.7	361	5472.1
March	588	200.3	293.7	5828.4	200.3	293.7	5807.4
April	588	180.6	244.1	5386	180.6	244.1	5417.8
May	588	192.4	301.1	5027	192.4	301.1	5002.8
June	288	211.1	422.5	2688	1.112	422.5	8.6695
July	889	221	410.6	0229	122	410.6	0289
ട്ട August	528	180.5	220.5	5319	180.5	250.5	5234.5
September	528	215	426	6,410	215	426	6,436
October	288	191	236	5,880	191	236	5,905
November	258	244	767	7,369	747	294	7,332
December	528	295	898	9,163	295	363	9,137
Annual Total				75,134			
Maximum	588		426			426	
Average		213			213		
% Capacity	86		49			49	
Permit to Take Water Limit	009		864				
Municipal Drinking Water Licence Limit						864	
			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				

\*Treated water volumes calculated by subtracting waste from raw water volumes

Sunderland Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

Flow (m³/day) Pro-rated	Monthly Average Flow	Maximum Daily	*System Capacity (m³/day)
284 282 334 303 301 307 307 367 368 368	cubic metres per day (m³/day) Pro-rated	Flow (m³/day) Pro-rated	
282 334 303 301 307 355 355 367 368	284	535	1,374
334 303 301 307 355 367 368 389	282	622	1,374
303 301 307 355 367 368 368	334	722	1,374
301 307 355 367 376 388	303	693	1,374
307 355 367 376 368	301	099	1,374
355 367 376 368 389	307	546	1,374
367 376 368 368	322	929	1,374
376 368 380	298	647	1,374
368	376	929	1,374
380	398	809	2,238
200	389	803	2,238

# \*Sunderland DWS cannot achieve its rated capacity due to hydraulic restrictions within the treatment process. Sunderland Drinking Water System Capacity and Treated Water Flow Graph



 $m_3 \ day$ 

### Attachment #1 to Report #2021-W-11

The Regional Municipality of Durham **Uxbridge Drinking Water System** 

2020 Flow Data - Well Number (#) 5 Raw Water and \*\*Treated Water

Month	Well # 5 Raw	Well # 5 Raw	Well # 5 Raw	Well # 5	Well # 5	Well # 5	Well # 5
	Water	Water Monthly	Water	Total Raw	Treated	<b>Treated Water</b>	Total
	Maximum	Average Flow	Maximum	Water	Water	Maximum	Treated
	Taken per	Cubic metres	Daily Flow	Flow (m³)	Monthly	Daily Flow	Water Flow
	Minute (litres)	per day	(m³/day)		Average Flow	(m³/day)	(m³)
		(m³/day)	Pro-rated		(m³/day)	Pro-rated	Pro-rated
		Pro-rated			Pro-rated		
January	2,700	666	1,214	17,900	266	1,214	17,949
February	2,700	1,010	1,213	15,176	1,008	1,213	15,121
March	2,700	1,025	1,236	16,352	1,023	1,236	16,373
April	2,700	836	1,358	16,220	951	1,358	16,166
May	2,700	1,387	1,809	30,470	1,387	1,809	30,503
June	2,700	1,647	2,352	44,672	1,647	2,352	44,458
July	2,700	1,544	2,604	45,689	1,644	2,604	46,033
August	2,700	1,251	1,914	36,047	1,249	1,914	36,227
September	2,700	1,162	1,166	27,904	1,160	1,666	27,849
October	2,700	1,044	1,352	17,773	1,043	1,352	17,724
November	2,700	1,019	1,241	17,355	1,017	1,241	17,294
December	2,700	026	1,315	16,465	296	1,315	16,437
Annual Total				302,023			
Maximum	2,700		2,604			2,604	
Average		1,168			1,174		
% Capacity	06		09			32	
Permit to take	3,000		4,320				
water limit							
Municipal						8,251*	
Drinking Water							
* :	7 - 11 - 14 - 17 - 17						

<sup>\*</sup>Limit is combined for Wells 5 and 7.
\*\*Treated water volumes calculated by subtracting waste from raw water volumes

The Regional Municipality of Durham Uxbridge Drinking Water System

2020 Flow Data - Well Number (#) 7 Raw Water and \*\*Treated Water

Month	Well # 7 Raw	Well # 7 Raw	Well # 7	Well # 7 Total	Well # 7	Well #7	Well # 7 Total
	Water Maximum	Water Monthly	Raw Water Maximum	Raw Water Flow (m³)	Treated Water Monthly	Treated Water	Treated Water Flow (m³)
	Taken per Minute (litres)	Average Flow Cubic metres per day (m³/day)	Daily Flow (m³/day) Pro-rated		Average Flow (m³/day) Pro-rated	Maximum Daily Flow (m³/day) Pro-rated	Pro-rated
January	1,500	714	884	12,913	700	884	12,595
February	1,600	992	939	13,750	765	939	13,765
March	1,500	784	931	14,965	782	931	14,862
April	1,500	782	1,000	14,024	781	1,000	14,053
May	1,650	761	1,138	626'6	808	1,138	669'6
June June	1,500	904	1,655	990'6	106	1,655	900'6
July	1,500	714	1,492	9,962	710	1,492	9,232
August	1,560	699	1,309	7,044	289	1,309	6,866
September	1,600	202	1,229	191'6	191	1,229	9,845
October	1,560	793	933	14,276	792	933	14,248
November	1,560	753	934	12,815	751	934	12,767
December	1,560	785	966	14,997	783	966	14,885
<b>Annual Total</b>				143,498			
Maximnm	1,650		1,655			1,655	
Average		292			892		
% Capacity	22		38			20	
Permit to Take Water Limit	3,000		4,320				
Municipal Drinking Water Licence Limit						8,251*	
· · · · · · · · · · · · · · · · · · ·	- - - - -	1					

<sup>\*</sup>Limit is combined for Wells 5 and 7.

<sup>\*\*</sup>Treated water volumes calculated by subtracting waste from raw water volumes

The Regional Municipality of Durham

**Uxbridge Drinking Water System** 

2020 Flow Data - Well Number (#) 5 and 7 \*\*Treated Water and Well # 6 Raw and Treated Water

Month	Well # 5 and 7 Treated Water	Well # 5 and 7 Treated Water	Well # 5 and 7 Total Treated	Well # 6 Raw and Treated	Well # 6 Raw and	Well # 6 Raw and Treated	Well # 6 Total Raw
	Monthly Average Flow Cubic metres per day (m³/day) Pro-rated	Maximum Daily Flow (m³/day) Pro-rated	Water Flow (m³) Pro-rated	Water Maximum Taken per Minute (litres)	Treated Water Monthly Average Flow (m³/day) Pro-rated	Water Maximum Daily Flow (m³/day) Pro-rated	and Treated Water Flow (m³)
January	985	1,214	30,544	2,520	1,326	1,778	41,197
February	966	1,213	28,886	2,520	1,336	1,552	38,603
March	1,008	1,236	31,235	2,520	1,317	1,495	41,049
April	1,007	1,358	30,218	2,520	1,308	1,589	39,194
May	1,297	1,809	40,202	2,520	1,496	1,974	46,404
77	1,782	2,352	53,464	2,520	1,899	2,509	57,273
July	1,783	2,604	55,265	2,520	1,996	3,149	61,667
August	1,390	1,914	43,093	2,520	1,650	2,306	51,420
September	1,257	1,666	37,694	2,520	1,567	2,034	46,955
October	1,031	1,352	31,972	2,520	1,380	1,649	42,620
November	1,002	1,241	30,061	2,520	1,337	1,573	40,159
December	1,010	1,315	31,322	2,520	1,376	1,637	42,867
Annual Total							
Maximum		2,604		2,520		3,149	
Average	1,212						
% Capacity		32		92		80	
Permit to Take Water Limit		4,320		2,727		3,927	
Municipal Drinking Water Licence Limit		*8,251				3,931	

<sup>\*</sup>Limit is combined for Wells 5 and 7.

<sup>\*\*</sup>Treated water volumes for Wells 5 and 7 calculated by subtracting waste from raw water volumes

The Regional Municipality of Durham **Uxbridge Drinking Water System** 

2020 Flow Data - System Total Raw Water and Treated Water

Month	Raw Water Monthly	Raw Water Maximum	Total Raw Water Flow	Treated Water Monthly	Treated Water	Total Treated Water Flow (m³)
	Average Flow Cubic metres per day (m³/day)	Daily Flow (m³/day) Pro-rated	(m³)	Average Flow (m³/day) Pro-rated	Maximum Daily Flow (m³/day) Pro-rated	Pro-rated
January	2,320	2,612	72,010	2,311	2,493	71,637
February	2,334	2,478	67,530	2,332	2,478	67,616
March	2,327	2,440	72,365	2,325	2,440	72,070
April	2,317	2,709	69,438	2,315	2,709	69,451
May	2,800	3,783	86,813	2,793	3,783	86,591
June	3,682	4,591	111,001	3,681	4,591	110,426
	3,790	2,109	117,318	3,779	5,109	117,151
≫ August	3,044	3,783	94,511	3,040	3,783	94,253
September	2,827	3,366	84,616	2,823	3,366	84,689
October	2,414	2,600	74,669	2,412	2,596	74,760
November	2,341	2,507	70,329	2,339	2,507	70,183
December	2,389	2,620	74,329	2,386	2,620	73,974
Annual Total			984,928			
Maximum		5,109			5,109	
Average	2,715			2,711		
% Capacity		62				
Permit to Take Water Limit		8,251*				
Municipal Drinking Water Licence Limit					8,251**	
,						

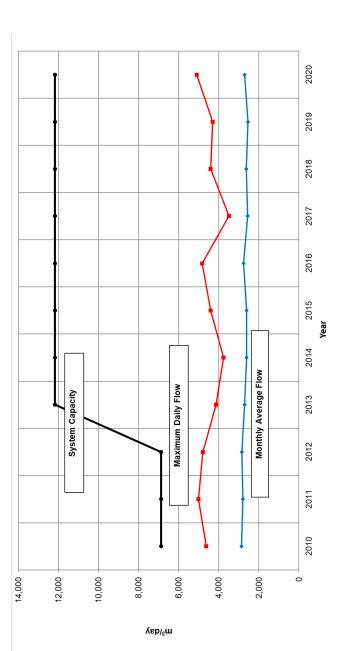
<sup>\*</sup>Permit to Take Water allows two wells to operate simultaneously however, the daily total taking of water for any combination is limited to a maximum of 8,251 m<sup>3</sup>/day.

<sup>\*\*8,251</sup> m³/day is the rated capacity for Wells 5 and 7. \*\*\*3,931 m³/day is the rated capacity for Well 6

Uxbridge Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

	(m <sup>3</sup> /day) Dro-rated	Flow (m³/day)	
777	2,859	4,626	6,877
11.07	2,803	5,017	6,877
2012	2,846	4,796	6,877
2013	2,721	4,139	12,182
2014	2,605	3,760	12,182
2015	2,609	4,401	12,182
2016	2,772	4,839	12,182
2017	2,564	3,497	12,182
2018	2,630	4,401	12,182
2019	2,538	4,310	12,182
2020	2,711	5,109	12,182

**ஃUxbridge Drinking Water System Capacity and Treated Water Flow Graph** 



The Regional Municipality of Durham Whitby Drinking Water System 2020 Flow Data - Raw Process Water and

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Month	Raw Process Water Monthly Average Flow Cubic metres per day (m³/day)	Raw Process Water Maximum Daily Flow (m³/day)	Total Raw Process Water Flow (m³)	Raw Industrial Water Monthly Average Flow (m³/day)	Raw Industrial Water Maximum Daily Flow (m³/day)	Total Raw Industrial Water Flow (m³)
January	53,272	56,712	1,651,420	4,713	6,808	146,116
February	53,527	57,594	1,552,275	4,584	990'9	132,949
March	52,612	54,083	1,630,979	5,034	6,280	156,056
April	53,444	54,319	1,603,317	5,051	7,349	151,532
May	56,529	72,561	1,752,394	4,758	6,864	147,494
aunc	65,105	84,308	1,953,139	960'9	8,149	182,877
July	886,388	87,528	2,120,039	6,932	10,629	214,888
August	066'09	70,844	1,872,086	4,393	10,670	136,177
September	61,300	73,304	1,839,013	5,165	6,415	154,949
October	54,789	58,252	1,698,453	4,873	6,188	151,069
November	54,753	70,142	1,642,590	2,060	8,718	151,811
December	53,528	54,707	1,659,361	4,463	5,709	138,357
Annual Total			20,975,066			1,864,275
Maximum		87,528			10,670	
Average	57,303			5,094		

## Attachment #1 to Report #2021-W-11

The Regional Municipality of Durham Whitby Drinking Water System

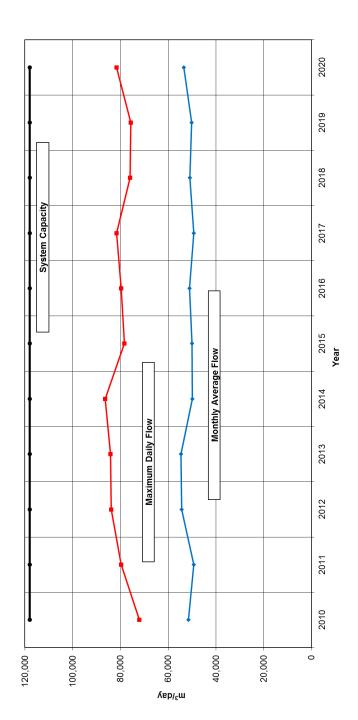
2020 Flow Data - Total Raw Water and Treated Water

Month	Raw Water Monthly Average Flow Cubic metres	Raw Water Maximum Daily Flow (m³/day)	Total Raw Water Flow (m³)	Treated Water Monthly Average Flow (m³/day)	Treated Water Maximum Daily Flow	Total Treated Water Flow (m³)
	per day (m³/day)				(m³/day)	
January	58,236	61,780	1,805,305	48,984	52,808	1,518,501
February	58,381	61,834	1,693,062	49,619	53,855	1,438,947
March	57,928	60,173	1,795,769	48,725	50,039	1,510,463
April	58,764	61,365	1,762,922	49,315	49,932	1,479,446
May	61,591	78,903	1,909,314	51,723	66,324	1,603,416
June	71,573	90,397	2,147,191	60,416	78,351	1,812,477
July	75,689	92,713	2,346,364	62,000	81,583	1,922,007
August	65,091	79,620	2,017,813	54,938	64,601	1,703,064
September	908'99	78,701	2,004,173	61,300	68,136	1,691,020
October	59,958	64,808	1,858,709	51,751	58,252	1,604,274
November	60,017	79,280	1,800,504	52,106	66,715	1,563,193
December	58,326	60,269	1,808,108	50,781	52,188	1,574,214
Annual Total			22,949,233			19,421,022
Maximum		92,713			81,583	
Average	62,697			53,472		
% Capacity		64			69	
Permit to Take Water Limit		144,000				
Municipal Drinking Water Licence Limit					118,000	

Whitby Drinking Water System Capacity and Treated Water Flow Data The Regional Municipality of Durham

2010 2011 2012 2013 2014 2015	(mm3/don)	
2011 2012 2013 2014 2015	51,587 72,013	118,000
2012 2013 2014 2015	49,316 79,712	118,000
2013 2014 2015	54,348 83,824	118,000
2014	54,657 84,127	118,000
2015	49,822 86,351	118,000
3700	50,101 78,362	118,000
2016	51,136 79,744	118,000
2017	49,246 81,622	118,000
2018	50,954 75,943	118,000
2019	50,169 75,591	118,000
2020	53,472 81,583	118,000

⊗Whitby Drinking Water System Capacity and Treated Water Flow Graph





Corporate Services
Department –
Legislative
Services

#### **Direction Memorandum**

**TO:** Chair and Members of the Works Committee

**FROM:** Ralph Walton, Regional Clerk/Director of Legislative Services

**DATE:** February 25, 2021

**RE:** Resolution adopted by Regional Council at its meeting held on

February 24, 2021 regarding Item 3 of the 2<sup>nd</sup> Report of the

Works Committee, headed:

Confidential Memorandum from Susan Siopis, Commissioner of Works dated February 3, 2021 re: Tertiary Treatment at Duffin Creek Water Pollution Control Plant (WPCP), in the City of Pickering

At the Regional Council meeting held on February 24, 2021, Council referred the following motion to the Works Committee for discussion and for Works Committee to give direction to staff on how to investigate and move this forward:

"It is further recommended:

That notwithstanding the current Durham Regional Council position supporting the Lake Simcoe option, the Council of the Regional Municipality of Durham requests that, if the Lake Ontario solution is selected in lieu of the Lake Simcoe option, that the Minister of the Environment, Conservation and Parks order that all environmental benefits and conditions proposed for the Upper York Sewage Solution related to the Lake Simcoe option, including tertiary treatment, including consultations with First Nations, be required at the Duffin Creek Water Pollution Control Plant; and

That taxpayers and users in Durham must be protected from any financial implications of this decision."

#### Background:

At the February 3, 2021 Works Committee meeting the Confidential Memorandum from Susan Siopis, Commissioner of Works dated February 3, 2021 re: Tertiary Treatment at Duffin Creek Water Pollution Control Plant (WPCP), in the City of Pickering was considered. Direction was given to staff to provide a supplementary open memorandum to Council.

The supplementary memorandum was included on the February 24, 2021 Regional Council agenda as Council Correspondence #CC 04 entitled: Staff Comment on Draft Motion – Tertiary Treatment at Duffin Creek Water Pollution Control Plant (WPCP), in the City of Pickering.

Council considered the memorandum with Item #3 of the 2<sup>nd</sup> Works Report to Council, Confidential Memorandum from Susan Siopis, Commissioner of Works dated February 3, 2021 re: Tertiary Treatment at Duffin Creek Water Pollution Control Plant (WPCP), in the City of Pickering.

<u>Ralph Walton</u>

R. Walton Regional Clerk/Director of Legislative Services