



The Regional Municipality of Durham

COUNCIL INFORMATION PACKAGE

January 26, 2018

Information Reports

- [2018-INFO-11](#) Commissioner of Works – re: 2017 Source Water Protection Annual Report
- [2018-INFO-12](#) Commissioner of Works – re: Gibb-Olive Corridor Improvement Project, in the City of Oshawa
- [2018-INFO-13](#) Commissioner of Works – re: Lead Water Service Connections
- [2018-INFO-14](#) Commissioner of Planning and Economic Development – re: Source Water Protection Screening Procedures
- [2018-INFO-15](#) Commissioner and Medical Officer of Health – re: Program Reports
- [2018-INFO-16](#) Commissioner of Finance – re: Amendment to the Provincial Transit Expansion Funding Agreement for the Phase 1 Highway 2 Bus Rapid Transit Quick Win Project (PULSE)

Early Release Reports

There are no Early Release Reports

Staff Correspondence

1. Memorandum from [Dr. R. Kyle, Commissioner and Medical Officer of Health](#) – re: Smoke-Free Ontario Act, 2017

Durham Municipalities Correspondence

There is no Durham Municipalities Correspondence

Other Municipalities Correspondence/Resolutions

1. [Town of Lakeshore](#) – re: Resolution passed at their Council meeting held on November 7, 2017, regarding Allocate Infrastructure Funding Dedicated to Municipalities for Storm Water Management and Drainage Improvements

2. [Town of Lakeshore](#) – re: Resolution passed at their Council meeting held on January 16, 2018, regarding Marijuana Tax Revenue
3. [Town of Lakeshore](#) – re: Resolution passed at their Council meeting held on January 16, 2018, regarding Population Growth Projections

Miscellaneous Correspondence

1. [Ontario Good Roads Association](#) – re: Emailing the Regional Clerk requesting Support for Municipal Class Environmental Assessment (MCEA) Process Reform

Advisory Committee Minutes

1. Durham Trail Coordinating Committee (DTCC) minutes – [December 7, 2017](#)
2. Durham Agricultural Advisory Committee (DAAC) minutes – [January 16, 2018](#)
3. Durham Environmental Advisory Committee (DEAC) minutes – [January 18, 2018](#)
4. Durham Nuclear Health Committee (DNHC) minutes – [January 19, 2018](#)

Members of Council – Please advise the Regional Clerk at clerks@durham.ca by 9:00 AM on the Monday one week prior to the next regular Committee of the Whole meeting, if you wish to add an item from this CIP to the Committee of the Whole agenda.

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



The Regional Municipality of Durham Information Report

From: Commissioner of Works
Report: #2018-INFO-11
Date: January 26, 2018

Subject:

2017 Source Water Protection Annual Report

Recommendation:

Receive for information.

Report:

1. Purpose

1.1 This report is being provided with a copy of each Source Water Protection Annual Report (Attachments #1 to #3) required by the Clean Water Act, 2006. The attached reports provide a summary of the implementation efforts and activities undertaken in 2017. Each report will be submitted to the corresponding Source Protection Authority by February 1, 2018.

2. Background

2.1 The Regional Municipality of Durham (Region) is divided into three source protection regions; the Credit Valley, Toronto and Region, Central Lake Ontario Source Protection Region (CTC), the South Georgian Bay Lake Simcoe Source Protection Region (SGBLS) and the Trent Conservation Coalition Source Protection Region (TCC).

2.2 The attached reports summarize the legislated and voluntary proactive activities the Region has undertaken in 2017 to comply with the Clean Water Act, 2006 and Source Protection Plans, Local Source Protection Plans contain policies that set out the reporting requirements for the Region. These reporting requirements have been developed by the Source Protection Committees and vary between Source Protection Regions. In addition to the local reporting requirements, the Region has a duty to report the actions taken by Risk Management Officials and Risk Management Inspectors to the respective Source Protection Authority under the Clean Water Act, 2006.

- 2.3 On October 31, 2014, the TCC Source Protection Plan received approval from the Minister of the Environment and Climate Change (MOECC). The TCC Source Protection Plan was approved with an effective date of January 1, 2015.
- 2.4 On January 26, 2015, the SGBLS Source Protection Plan received approval from the MOECC. The SGBLS Source Protection Plan was approved with an effective date of July 1, 2015.
- 2.5 ON January 28, 2015, the CTC Source Protection Plan received approval from the MOECC. The CTC Source Protection Plan was approved with an effective date of December 31, 2015.
- 2.6 The annual report includes information on the management of existing drinking water threats, development of Risk Management Plans, education and outreach initiatives and planning implications under each specific Source Protection Plan.

3. Implementation

- 3.1 The majority of properties and landowners with significant drinking water threats have met or corresponded with Regional staff regarding the activities occurring on their properties. Based on current information, it is estimated that approximately 26 risk management plans in total will require negotiation to address significant drinking water threats in the Region. The Source Water Protection Plans require risk management plans to be negotiated and implemented within five years of approval. Seven risk management plans have been negotiated to date, since the implementation of the Clean Water Act.
- 3.2 Four risk management plans were successfully negotiated with properties containing significant drinking water threats in 2017. During negotiations, it was found that approximately 90 per cent of the risk management measures contained in the risk management plans included best management practices which were already in place at each location. These practices included:
- Employee training records
 - Inspection records
 - Health and safety inspections
 - Spill prevention
 - Work instructions
 - Proper chemical handling; and
 - Storage and regulated waste disposal
- 3.3 The education and outreach component of source water protection is being implemented through social media posts, new website content, hard copy materials and staff presentations at Toronto and Region Conservation Authority's Salmon Festival at Duffin Creek and Durham Region Household Hazardous Waste event.

- 3.4 Regional staff continue to participate in several working groups with other municipalities, conservation authorities and the province to collaborate on implementation of risk management measures, risk management plans, municipal guidance documents and education and outreach.
- 3.5 Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.

4. Conclusion

- 4.1 The attached report provides a summary of the implementation efforts and activities undertaken in 2017. The reports (Attachments #1 to #3) will be submitted to the corresponding Source Protection Authority by February 1, 2018.

5. Attachments

Attachment #1: Risk Management Official Annual Report – Credit Valley – Toronto and Region – Central Lake Ontario Source Protection Region – January 1, 2017 to December 31, 2017

Attachment #2: Risk Management Official Annual Report – South Georgian Bay Lake Simcoe Source Protection Region – January 1, 2017 to December 31, 2017

Attachment #3: Risk Management Official Annual Report – Trent Conservation Coalition Source Protection Region – January 1, 2017 to December 31, 2017

Respectfully submitted,

Original signed by

Susan Siopis, P.Eng.
Commissioner of Works

The Regional Municipality of Durham
Risk Management Official Annual Report
Credit Valley – Toronto and Region – Central Lake Ontario Source Protection
Region
January 1 2017 – December 31 2017

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1. List of Abbreviations and Acronyms

AR	Assessment Report
BMP	Best Management Practice
CA	Conservation Authority
CWA	Clean Water Act, 2006
DNAPL	Dense Non-Aqueous Phase Liquid
E&O	Education and Outreach
ID	Identification
IPZ	Intake Protection Zone
MOECC	Ministry of the Environment and Climate Change
OFEC	Ontario Farm Environmental Coalition
OMAFRA	Ontario Ministry of Agriculture, Food and Rural Affairs
PI	Prescribed Instrument
RMI	Risk Management Inspector
RMM	Risk Management Measures
RMO	Risk Management Official
RMP	Risk Management Plan
SDWT	Significant Drinking Water Threat
SPA	Source Protection Authority
WHPA	Wellhead Protection Area

2. Report Information

Name of Municipality	The Regional Municipality of Durham
Source Protection Authority	Credit Valley-Toronto and Region-Central Lake Ontario
Water Supply System	Uxville
SPA Staff Contact	Jennifer Stephens
Submitted By	Greg Lymer
Date Submitted	January 15, 2018

3. Annual Report

This annual report is provided in accordance with Section 81 of the *Clean Water Act, 2006*. It outlines the activities undertaken by the Regional Municipality of Durham in 2017 that were required by legislation as well as a summary of progress to date in implementing the Source Protection Plan.

4. Risk Management Officials, Inspectors and Training

RMO/RMI require renewal course every five years.

Name	Title	RMO/RMI Training Date	Property Entry Training Date
Greg Lymer	Risk Management Official	May 2016	May 2016
Beata Golas	Risk Management Official	October 2016	October 2016
Tavis Nimmo	Risk Management Inspector	December 2016	November 2017
Colin Hall	Risk Management Inspector	November 2017	November 2017

5. Risk Management Office

5.1. Provide an overview of work planned for 2018

Item	Description
Threat Verification	Threat verification complete.
RMPs	One RMP required and completed.
E&O	Development of source water booklet is complete and has been distributed amongst the area municipalities. Booklet includes high level overview of source water protection. Fact sheets outlining specific BMPs regarding fuel, road salt application, DNAPLs, organic solvents, waste oil disposal are in development. Staff are planning on attending area community events to promote source water protection.
Application Review and Section 59 Notices	Continue to review Planning Act/Building Permit applications.
Incentives	Reviewed and determined there is no need for incentives in this period.

6. Annual Progress Report as per Section 46(1) Clean Water Act, 2006 and Section 52(1) O.Reg 287/07

6.1. Provide an update for applicable RMO implementer policies

SDWT Type	Policy ID	Status	Existing Percent Complete
Waste Disposal Site	WST-1, WST-6	Complete	100
DNAPL	DNAP-1	Complete	100
Organic Solvents	OS-1	Complete	100

6.2. Provide an explanation for SDWT listed as no progress made in section 4.1.

SDWT	Comments
N/A	N/A

6.3. Provide the number of RMPs required and completed to address SDWTs

SDWT	SDWTs requiring RMP	RMPs Agreed to or Established	Properties Subject to RMPs	SDWT Managed Through RMPs
Waste Disposal Site	1	1	1	1
DNAPL	1	1	1	1
Organic Solvents	1	1	1	1

6.4. Additional risk management measures required by Durham to be implemented in risk management plans.

SDWT	Additional Risk Management Measures
DNAPL	None (0%)
Organic Solvents	None (0%)
Waste Disposal Site	None (0%)

6.5. Provide the number and type of Section 59 notices issued. The risk management office reviews planning/building applications in vulnerable areas to determine if potential land use activities pose a threat to the quality or quantity of municipal drinking water sources.

Number of Section 59 Notices Where No Prohibition or No RMP Required	Number of Section 59 Notices Where RMP Required
N/A	N/A

6.6. Provide the number of instances the RMO received a notice and/or copy of the PI that states the PI conforms to SDWT policies.

SDWT	Prescribed Instrument
0	N/A

6.7. Provide the number of inspections that have been conducted to date.

Inspections for Prohibited Activities	Inspections Indicating that Prohibited Activities were Taking Place	Inspections for Activities that Require an RMP	Inspections Where RMI Found a SDWT Activity Taking Place Without an RMP	Inspections Where RMI Found Non-Compliance with RMP	Properties Inspected
0	0	1	0	0	6

6.8. Describe how any cases of non-compliance were resolved.

Case	Resolution
N/A	No non-compliance cases were discovered.

6.9. Describe the amount of new or additional source protection information the RMO/RMI learned through their duties.

New Information	Comments
No New Information	N/A

6.10. Describe any incentive programs that assisted with policy implementation.

Type of Incentive	Source of Incentive	SDWT	Degree to Which the Incentive Assisted Implementation	Comments
Septic Inspection	Durham Region	Septic	Significant (100%)	Durham covered the cost of the septic inspections for all properties identified as a SDWT.

6.11. RMO tools and resources evaluation

Tool / Resource		Comments and Suggestions
Source protection Interactive Mapping Tool	<input checked="" type="checkbox"/>	Assists both Durham and area municipality in locating properties of interest.
Risk Management Official Forum	<input type="checkbox"/>	
Resource Catalogue / Campaign in a Box toolkit	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.
Education & Outreach webinar	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.
Education & Outreach community of practice	<input type="checkbox"/>	
Guidance Materials (fact sheets, information bulletins)	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.
MOECC Training (e.g. RMO Certification, property entry)	<input checked="" type="checkbox"/>	Reference material
OMAFRRA/OFEC information sessions	<input checked="" type="checkbox"/>	Assisting with development of agricultural materials and establishing dialogue.
Other: Please Specify:	<input checked="" type="checkbox"/>	Source Water Protection table of threats and circumstances tool aids in threat verification.

6.12. Provide a list of SDWT. See appendix A for a detailed summary of SDWT by type.

Municipality or Township	Zone	Score	Threat Type
Uxville	WHPA-A	10	Waste Disposal Site
	WHPA-A	10	DNAPL
	WHPA-A	10	Organic Solvent

7. Legislated Annual Reporting Requirements as per section 81 Clean Water Act, 2006 and section 65 O.Reg 287/07

7.1. Risk Management Plans Agreed to Under Section 58(5) of CWA

#	Township	WHPA or IPZ	SDWT Activity
1	Uxville	WHPA-A	Waste disposal site, DNAPL, Organic solvent

7.2. Risk Management Plans Established by Order Under Section 58(10) Of CWA

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

7.3. Risk Management Plans Established by Order Under Section 58(12) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Reason for Refusal
N/A	-	-	-	-

7.4. Risk Management Plans RMO Refused to Agree to or Establish Under Section 58(16) or Section 58(15) of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
N/A	-	-	-	-

7.5. Orders Issued by RMO Under Part IV of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
N/A	-	-	-	-

7.6. Notices Received From a Person Engaged in an Activity, Notifying RMO of Their Possession/Intent to Obtain Prescribed Instrument Under Section 61(2) & (7) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
N/A	-	-	-	-

7.7. Notices Issued by RMO Under Section 61(6) & (8) of CWA Notifying a Person Engaged in a SDWT Activity of the Termination of an Exemption Under Section 61(1)

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
N/A	-	-	-	-

7.8. Section 61 (1) Exemptions Granted

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
N/A	-	-	-	-

7.9. Inspections Carried Out Under a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
1	Uxville	WHPA-A	Waste Disposal Site, DNAPL, Organic Solvent

7.10. Inspections Resulting In Non-Compliance with a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
	-	-	-

7.11. Inspections Conducted on Prohibited Activities

Township	WHPA or IPZ	SDWT Activity
-	-	-

7.12. Cases Where Prohibited Activities Were Being Engaged in During Inspections

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7.13. Risk Assessments Submitted, Accepted And Not Accepted Under Section 60

Township	WHPA or IPZ	SDWT Activity
-	-	-

7.14. Instances Where RMO Caused a Thing to be Done Under Section 64 of CWA

Township	WHPA or IPZ	SDWT Activity
-	-	-

7.15. Prosecutions Made Under Section 106 of CWA

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7.16. Prosecutions Made Under Section 106 of CWA Resulting in Conviction

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8. Septic Re-Inspection Program

	Description
	Uxville (3)
	Laura Freeland, Manager, Environmental Health, Chief Building Official.
	A visual inspection is conducted on the property and the site is recorded by GPS then entered into a database. If a potential malfunction is detected then further inspection is conducted.
	All required properties have been inspected.

9. New, Altered, or Decommissioned Drinking Water Systems

	Description
	N/A

10. Source Protection Plan Policy Reporting Requirements

10.1. RMO Policy Reporting Requirements

SDWT	Policy ID	Status	Details
General	GEN-1	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Waste	WST-1	Complete	One RMP negotiated to deal with disposal of waste oil and lubricants. Best management practices in place prior to RMP included safe handling, spill prevention and response and staff training. Property owner provided with source water overview in order to include in on site staff training.
	WST-6	Not Applicable	No PCB storage or disposal threats.
Agricultural Source Material	ASM-2	Not Applicable	No ASM application threats.
	ASM-4	Not Applicable	No ASM storage threats.
Non-Agricultural Source Material	NASM-1	Not Applicable	No NASM application threats.
	NASM-2	Not Applicable	No NASM storage threats.
Livestock Grazing	LIV-1	Not Applicable	No livestock grazing threats.
	LIV-3	Not Applicable	No outdoor confinement or farm-animal yard threats.
Fertilizer	FER-2	Not Applicable	No application of fertilizer threats.
	FER-3	Not Applicable	No handling and storage of fertilizer threats.
Pesticide	PES-1	Not Applicable	No application of pesticide threats.
	PES-2	Not Applicable	No handling and storage of pesticide threats.
Road Salt	SAL-1	Not Applicable	No application of road salt threats.
	SAL-2	Not Applicable	No application of road salt threats.
	SAL-7	Not Applicable	No handling of road salts threats.
Snow Storage	SNO-1	Not Applicable	No storage of snow threats.
Fuel	FUEL-3	Not Applicable	No fuel threats.
DNAPL	DNAP-1	Complete	One RMP negotiated to deal DNAPLs. Best management practices in place prior to RMP included safe handling, spill prevention and response and staff training. Property owner provided with source water overview in order to include on site in staff training. One property identified in AR as a threat was inspected and removed due to the absence of DNAPLs.
Organic Solvent	OS-1	Complete	One RMP negotiated to deal with organic solvents. Best management practices in place

			prior to RMP included safe handling, spill prevention and response and staff training. Property owner provided with source water overview in order to include on site in staff training.
Recharge	REC-2	Complete	Staff conducted screenings of all new applications for construction in wellhead protection area. No quantity threats identified.

10.2. Municipality Policy Reporting Requirements

SDWT	Policy ID	Status	Details
General	GEN-1	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	GEN-2	Complete	One RMP established. Annual Inspections to be conducted to ensure conformity.
	GEN-5	Complete	Cost of septic inspections was covered by the Region.
	GEN-7	Not Applicable	Only applicable in ICA.
	GEN-8	In Progress	Municipality has engaged and provided E&O materials to properties with significant threats. Low and moderate threats targeted for distribution in 2018.
Waste	WST-2	Complete	Exempt wastes have not been found to date.
Sewage	SWG-1	Complete	Septic inspection program completed in 2015.
	SWG-2	In Progress	E&O materials developed in collaboration with area municipalities. To be delivered as needed.
	SWG-6	Complete	Regional council passed amendment to by-law #89-2003 requiring mandatory connection on December 16, 2015.
	SWG-7	Not Applicable	Only applicable in ICA.
Fertilizer	FER-4	Not Applicable	No fertilizer threats.
Pesticide	PES-4	Not Applicable	No pesticide threats.
Road Salt	SAL-8	Not Applicable	No significant road salt threats.
Fuel	FUEL-4	Not Applicable	No fuel threats.
DNAPL	DNAP-2	In Progress	E&O materials developed in collaboration with area municipalities. To be delivered as needed.
Organic Solvent	OS-2	In Progress	E&O materials developed in collaboration with area municipalities. To be delivered as needed.
Lake Ontario	LO-G-3	In Progress	Project charter in development.
Demand	DEM-4	In Progress	Water conservation plan in development to meet requirements of policy.
	DEM-5	In Progress	E&O materials developed in collaboration with area municipalities. To be delivered as needed.

	DEM-9	Complete	Outside sources have been assessed.
Recharge	REC-3	Complete	Screening tool developed to assist with property and threat verification. E&O materials developed in collaboration with local municipalities. Incentives have been reviewed and determined they are not needed.

10.3. Planning Approval Authority Policy Reporting Requirements

SDWT	Policy ID	Status	Details
Waste Disposal Site	WST-5	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Sewage	SWG-3	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-4	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-9	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-12	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-14	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-16	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-18	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Road Salt	SAL-3	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Demand	DEM-2	In Progress	Amendments to the Durham Region Official Plan

			to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Recharge	REC-1	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.

Appendix A

Significant Drinking Water Threats	A	B	C	D	Remaining SDWTs to be Addressed (A+B-C=D)
The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	3		2	1	0
The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	6			6	0
The application of agricultural source material to land.					
The storage of agricultural source material					
The management of agricultural source material					
The application of non-agricultural source material to land					
The handling and storage of non-agricultural source material					
The application of commercial fertilizer to land					
The handling and storage of commercial fertilizer					
The application of pesticide to land					
The handling and storage of pesticide					
The application of road salt					
The handling and storage of road salt					
The storage of snow					
The handling and storage of fuel	1		1		0
The handling and storage of a dense non-aqueous phase liquid	3		2	1	0
The handling and storage of an organic solvent	1			1	0
The management of runoff that contains chemicals used in the de-icing of aircraft					
The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, section 3.					
Water taking from an aquifer without returning the water to the same aquifer or surface water body					
Reducing recharge of an aquifer					
Total	14		5	9	0

A = Original estimate of SDWT in the Approved Assessment Report

B = Additional SDWT identified after SPP approved as a result of field verification

C = SDWT included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was **not** actually engaged in at a particular location after all OR (ii) it was **no longer** engaged in at the location

D = SDWT addressed because policy is implemented

Attachment #2 to Report #2018-INFO-11

The Regional Municipality of Durham
Risk Management Official Annual Report
South Georgian Bay Lake Simcoe Source Protection Region
January 1 2017 – December 31 2017

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1. List of Abbreviations and Acronyms

AR	Assessment Report
ASM	Agricultural Source Material
BMP	Best Management Practice
CA	Conservation Authority
CWA	Clean Water Act, 2006
DNAPL	Dense Non-Aqueous Phase Liquid
E&O	Education and Outreach
ID	Identification
IPZ	Intake Protection Zone
MOECC	Ministry of the Environment and Climate Change
OFEC	Ontario Farm Environmental Coalition
OMAFRA	Ontario Ministry of Agriculture, Food and Rural Affairs
PI	Prescribed Instrument
RMI	Risk Management Inspector
RMM	Risk Management Measures
RMO	Risk Management Official
RMP	Risk Management Plan
SDWT	Significant Drinking Water Threat
SPA	Source Protection Authority
WHPA	Wellhead Protection Area

2. Report Information

Name of Municipality	The Regional Municipality of Durham
Source Protection Authority	South Georgian Bay Lake Simcoe
Water Supply Systems	Cannington, Sunderland, Uxbridge
SPA Staff Contact	Mike Wilson
Submitted By	Greg Lymer
Date Submitted	January 15, 2018

3. Annual Report

This annual report is provided in accordance with Section 81 of the *Clean Water Act, 2006*. It outlines the activities undertaken by the Regional Municipality of Durham in 2017 that were required by legislation as well as a summary of progress to date in implementing the Source Protection Plan.

4. Risk Management Officials, Inspectors and Training

RMO/RMI require renewal course every five years.

Name	Title	RMO/RMI Training Date	Property Entry Training Date
Greg Lymer	Risk Management Official	May 2016	May 2016
Beata Golas	Risk Management Official	October 2016	October 2016
Tavis Nimmo	Risk Management Inspector	December 2016	November 2017
Colin Hall	Risk Management Inspector	November 2017	November 2017

5. Risk Management Office

5.1. Provide an overview of work planned for 2018

Item	Description
Threat Verification	Continue threat verification. Remaining threats are agricultural.
RMPs	Continue RMP negotiation with property owners in vulnerable areas that have verified agricultural SDWTs.
E&O	Development of source water booklet is complete and has been distributed amongst the area municipalities. Booklet includes high level overview of source water protection. Fact sheets outlining specific BMPs regarding fuel, road salt application, DNAPLs, organic solvents, waste oil disposal are in development. Staff are planning on attending area community events to promote source water protection.
Application Review and Section 59 Notices	Continue to review Planning Act/Building Permit applications.
Incentives	Reviewed and determined there is no need for incentives in this period.

6. Annual Progress Report as per Section 46(1) Clean Water Act, 2006 and Section 52(1) O.Reg 287/07

6.1. Provide an update for applicable RMO implementer policies

SDWT	Policy Number	Status	Existing Percent Complete
Waste Disposal Site	WAST(b)-1,2	Complete	100
Sewage	SEWG(b)-1	Complete	100
Agriculture	ASM(App)-1,2 ASM(Store)-1,2 NASM(App)-1,2 NASM(H&S)-1,2	In Progress	45
Fertilizer	FERT(App)-1 FERT(H&S)-1,2	Complete	100
Pesticide	PEST(App)-1 PEST(H&S)-1,2	In Progress	50
Fuel	FUEL-1,2	In Progress	90
DNAPL	DNAPL-1,2	In Progress	90
Organic Solvents	SOLV-1	In Progress	80
Livestock Grazing	LSTOCK-1,2,3	In Progress	50
Restricted Land Use	RLU-1	Complete	100

6.2. Provide an explanation for SDWT listed as no progress made in section 4.1.

SDWT	Comments
N/A	N/A

6.3. Provide the estimated number of RMPs required and completed to address SDWTs

SDWT	SDWTs Requiring RMP	RMPs Agreed to or Established	Properties Subject to RMPs	SDWTs Managed Through RMPs
Waste Disposal Site	1	1	1	1
Agriculture	8	0	8	0
Pesticide	4	0	4	0
Fuel	3	0	1	0
DNAPL	2	2	3	2
Organic Solvents	2	2	3	2
Livestock Grazing	3	0	3	0

6.4. Additional risk management measures required by Durham to be implemented in risk management plans

SDWT	Additional Risk Management Measures
DNAPL	Some (<50%)
Organic Solvents	Some (<50%)

6.5. Provide the number and type of Section 59 notices issued. The risk management office reviews planning/building applications in vulnerable areas to determine if potential land use activities pose a threat to the quality or quantity of municipal drinking water sources.

Number of Section 59 Notices Where No Prohibition or No RMP Required	Number of Section 59 Notices Where RMP Required
1	0

6.6. Provide the number and type of any prescribed instrument the RMO received in order to conform to a SDWT policy.

SDWT	Prescribed Instrument
0	N/A

6.7. Provide the number of inspections conducted to date.

Inspections for Prohibited Activities	Inspections Indicating that Prohibited Activities were Taking Place	Inspections for Activities that Require an RMP	Inspections Where RMI Found a SDWT Activity Taking Place Without an RMP	Inspections Where RMI Found Non-Compliance with RMP	Properties Inspected
0	0	5	0	0	38

6.8. Describe how any cases of non-compliance were resolved.

Case	Resolution
N/A	No non-compliance cases were discovered.

6.9. Describe the amount of new or additional source protection information the RMO/RMI learned through their duties.

New Information	Comments
No New Information	N/A

6.10. Describe any incentive programs that assisted with policy implementation.

Type of Incentive	Source of Incentive	SDWT	Degree to Which the Incentive Assisted Implementation	Comments
Septic Inspection	Durham Region	Septic	Significant (100%)	Durham covered the cost of the septic inspections for all properties identified as a SDWT.

6.11. RMO tools and resources evaluation

Tool / Resource		Comments and Suggestions
Source protection Interactive Mapping Tool	<input checked="" type="checkbox"/>	Assists both Durham and area municipality in locating properties impacted by source water protection.
Risk Management Official Forum	<input type="checkbox"/>	

Resource Catalogue / Campaign in a Box toolkit	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.
Education & Outreach webinar	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.
Education & Outreach community of practice	<input type="checkbox"/>	
Guidance Materials (fact sheets, information bulletins)	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.
MOECC Training (e.g. RMO Certification, property entry)	<input checked="" type="checkbox"/>	Reference material
OMAFRRA/OFEC information sessions	<input checked="" type="checkbox"/>	Assisting with development of agricultural materials and establishing dialogue
Other: Please Specify:	<input checked="" type="checkbox"/>	Source Water Protection table of threats and circumstances tool aids in threat verification.

6.12. Provide a list of SDWTs listed in negotiated RMPs. See appendix A for a detailed summary of SDWT by type.

Township	Zone	Score	Threat Type
Cannington	WHPA-B	10	Waste Disposal Site
	WHPA-B	10	DNAPL
	WHPA-B	10	Organic Solvent
Uxbridge	WHPA-A	10	DNAPL
	WHPA-A	10	Organic Solvent

7. Legislated Annual Reporting Requirements as per section 81 Clean Water Act, 2006 and section 65 O.Reg 287/07

7.1. Risk Management Plans Agreed to Under Section 58(5) of CWA

#	Township	WHPA or IPZ	SDWT Activity
1	Cannington	WHPA-B	Waste disposal site, DNAPL, Organic solvent
2	Uxbridge	WHPA-A	DNAPL, Organic solvent

7.2. Risk Management Plans Established by Order Under Section 58(10) Of CWA

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

7.3. Risk Management Plans Established by Order Under Section 58(12) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Reason for Refusal
N/A	-	-	-	-

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7.4. Risk Management Plans RMO Refused to Agree to or Establish Under Section 58(16) or Section 58(15) of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
N/A	-	-	-	-

7.5. Orders Issued by RMO Under Part IV of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
N/A	-	-	-	-

7.6. Notices Received From a Person Engaged in an Activity, Notifying RMO of Their Possession/Intent to Obtain Prescribed Instrument Under Section 61(2) & (7) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
N/A	-	-	-	-

7.7. Notices Issued by RMO Under Section 61(6) & (8) of CWA Notifying a Person Engaged in a SDWT Activity of the Termination of an Exemption Under Section 61(1)

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
N/A	-	-	-	-

7.8. Section 61 (1) Exemptions Granted

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
N/A	-	-	-	-

7.9. Inspections Carried Out Under a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
1	Cannington	WHPA-B	Waste Disposal Site, DNAPL, Organic Solvent

7.10. Inspections Resulting In Non-Compliance with a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

7.11. Inspections Conducted on Prohibited Activities

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

7.12. Cases Where Prohibited Activities Were Being Engaged in During Inspections

Description of Circumstances
N/A

7.13. Risk Assessments Submitted, Accepted And Not Accepted Under Section 60

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

7.14. Instances Where RMO Caused a Thing to be Done Under Section 64 of CWA

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

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7.15. Prosecutions Made Under Section 106 of CWA

Description
N/A

7.16. Prosecutions Made Under Section 106 of CWA Resulting in Conviction

Description
N/A

8. Septic Re-Inspection Program

Item	Description
Required Inspections	Uxbridge (1) Sunderland (1) Cannington (18)
Lead Authority	Environmental Health, Chief Building Official.
Inspection Protocol	A visual inspection is conducted on the property and the site is recorded by GPS then entered into a database. If a potential malfunction is detected then further inspection is conducted.
Inspection Progress	All required properties have been inspected.

9. New, Altered, or Decommissioned Drinking Water Systems

Location	Description
Cannington	Two new wells drilled in Cannington. Preliminary readings showed that the combined capacity of the two wells produced approximately 150 gpm (9.5 L/s).
Sunderland	Drilled a new well near the standpipe. A satisfactory pump test has been performed. Water quality results are pending.

10. Source Protection Plan Policy Reporting Requirements

10.1. RMO Policy Reporting Requirements

SDWT	Policy Number	Status	Details
Waste Disposal Site	WAST(b)- 1	Complete	One RMP negotiated to deal with disposal of waste oil and lubricants. Best management practices in place prior to RMP included safe handling, spill prevention and response and staff training. Property owner provided with source water overview in order to include in on site staff training.
	WAST(b)- 2	Not Applicable	No future threats seen through planning/building permit application.
Sewage	SEWG(b) -1	Not Applicable	No SDWTs requiring RMP in 2017.
Agricultural Source Material	ASM(App)-1	In Progress	Verification efforts still underway. RMPs to be negotiated in 2018.
	ASM(App)-2	Not Applicable	No future threats found in 2017.
	ASM(Store)-1	Not Applicable	No existing storage threats.

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	ASM(Store)-2	Not Applicable	No future storage threats.
Non-agricultural Source Material	NASM(App)-1	Not Applicable	No NASM threats.
	NASM(App)-2	Not Applicable	
	NASM(H&S)-1	Not Applicable	
	NASM(H&S)-2	Not Applicable	
Fertilizer	FERT(App)-1	Not Applicable	Fertilizer threats previously thought to exist are not significant in accordance with the table of circumstances.
	FERT(H&S)-1	Not Applicable	No handling and storage threats.
	FERT(H&S)-2	Not Applicable	
Pesticide	PEST(App)-1	In Progress	Verification efforts still underway. RMPs to be negotiated in 2018. RMP dependent on type of pesticide being applied.
	PEST(H&S)-1	Not Applicable	No handling and storage threats.
	PEST(H&S)-2	Not Applicable	
Road Salt	SALT(App)-1	Not Applicable	No application threats in vulnerable areas.
	SALT(H&S)-1	Not Applicable	No handling and storage threats.
Snow Storage	SNOW-1	Not Applicable	No snow threats.
	SNOW-2	Not Applicable	
Fuel	FUEL-1	In Progress	RMP to be negotiated in 2018 pending threat verification.
	FUEL-2	Not Applicable	No threats found in 2017.
Dense Non-Aqueous Phase Liquids	DNAPL-1	In Progress	Two RMPs negotiated to date. Best management practices in place prior to RMP included safe handling, spill prevention and response and staff training. Property owners provided with source water overview in order to include in on site staff training.
	DNAPL-2	Not Applicable	No threats found in 2017.
Organic Solvents	SOLV-1	In Progress	Two RMPs negotiated to date. Best management practices in place prior to RMP included safe handling, spill prevention and response and staff training. Property owners provided with source water overview in order to include in on site staff training.
Livestock Grazing	LSTOCK-1	In Progress	Verification efforts complete. RMP dependent on livestock density on three properties.
	LSTOCK-2	Not Applicable	No outdoor confinement areas or farm animal yard threats.
	LSTOCK-3	Not Applicable	
Restricted Land Use	RLU-1	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been

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			initiated and will be completed as part of the Municipal Comprehensive Review.
--	--	--	--

10.2. Municipality Policy Reporting Requirements

SDWT	Policy Number	Status	Details
Waste Disposal Site	WAST(b)- 5	Complete	The Region owns and operates municipal hazardous waste drop-off locations include the waste management facilities in Oshawa, Port Perry and Brock. Staff attended a Region Municipal Hazardous Waste drop-off event to promote source water protection.
Sewage	SEWG(b) -5	Complete	Durham Region sewer use by-law #55-2013 does not permit cross connections. Durham also has no combined sewer overflows.
	SEWG(c)- 3	Complete	Region council passed amendment to by-law #89-2003 requiring mandatory connection on December 16, 2015.
	SEWG(c)- 4	Not Applicable	Area municipality responsibility.
Road Salt	SALT(H&S)- 2	Not Applicable	No handling and storage threats.
Fuel	FUEL-4	Not Applicable	Area municipality responsibility through property standards by-law.
Organic Solvents	SOLV-2	Complete	No threats found in 2017.
Demand	DEMD-3	In Progress	Began working with consultant in 2017 to update previous draft of conservation plan.
E&O	EDU-11	Complete	Signage installed prior to plan approval.
Incentive	INCENT- 3	Not Applicable	Area municipality responsibility.
	INCENT- 4	Not Applicable	Area municipality responsibility.

10.3. Planning Approval Authority Policy Reporting Requirements

SDWT	Policy Number	Status	Details
Land Use Planning	LUP-1	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-2	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-3	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-4	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and

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			will be completed as part of the Municipal Comprehensive Review.
	LUP-5	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-6	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-7	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-8	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-10	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-11	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-12	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-13	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-15	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.

Appendix A

Significant Drinking Water Threats	A	B	C	D	Remaining SDWTs to be Addressed (A+B-C-D)
The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	1			1	0
The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	21	2	3	20	0
The application of agricultural source material to land.	11		3		8
The storage of agricultural source material					
The management of agricultural source material					
The application of non-agricultural source material to land					
The handling and storage of non-agricultural source material					
The application of commercial fertilizer to land		2	2		0
The handling and storage of commercial fertilizer					
The application of pesticide to land	9		5		4
The handling and storage of pesticide					
The application of road salt					
The handling and storage of road salt					
The storage of snow					
The handling and storage of fuel	27	1	1	24	3
The handling and storage of a dense non-aqueous phase liquid	15		11	2	2
The handling and storage of an organic solvent	1	2		2	1
The management of runoff that contains chemicals used in the de-icing of aircraft					
The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, section 3.		3			3
Water taking from an aquifer without returning the water to the same aquifer or surface water body					
Reducing recharge of an aquifer					
Total	85	10	25	49	21

A = Original estimate of SDWT in the Approved Assessment Report

B = Additional SDWT identified after SPP approved as a result of field verification

C = SDWT included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was **not** actually engaged in at a particular location after all OR (ii) it was **no longer** engaged in at the location

D = SDWT addressed because policy is implemented

The Regional Municipality of Durham
Risk Management Official Annual Report
Trent Conservation Coalition Source Protection Region
January 1 2017 – December 31 2017

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1. List of Abbreviations and Acronyms

AR	Assessment Report
BMP	Best Management Practices
CA	Conservation Authority
CWA	Clean Water Act, 2006
DNAPL	Dense Non-Aqueous Phase Liquid
E&O	Education and Outreach
ID	Identification
IPZ	Intake Protection Zone
MOECC	Ministry of the Environment and Climate Change
OFEC	Ontario Farm Environmental Coalition
OMAFRA	Ontario Ministry of Agriculture, Food and Rural Affairs
PI	Prescribed Instrument
RMI	Risk Management Inspector
RMM	Risk Management Measures
RMO	Risk Management Official
RMP	Risk Management Plan
SDWT	Significant Drinking Water Threat
SPA	Source Protection Authority
WHPA	Wellhead Protection Area

2. Report Information

Name of Municipality	The Regional Municipality of Durham
Source Protection Authority	Trent Conservation Coalition Source Protection Region
Water Systems	Blackstock, Greenbank, Port Perry, Orono, Newcastle
SPA Staff Contact	Jenna Stephens / Kelly Gibson
Submitted By	Greg Lymer
Date Submitted	January 15, 2018

3. Annual Report

This annual report is provided in accordance with Section 81 of the *Clean Water Act, 2006*. It outlines the activities undertaken by the Regional Municipality of Durham in 2017 that were required by legislation as well as a summary of progress to date in implementing the Source Protection Plan.

4. Risk Management Officials, Inspectors and Training

RMO/RMI require renewal course every five years.

Name	Title	RMO/RMI Training Date	Property Entry Training Date
Greg Lymer	Risk Management Official	May 2016	May 2016
Beata Golas	Risk Management Official	October 2016	October 2016
Tavis Nimmo	Risk Management Inspector	December 2016	November 2017
Colin Hall	Risk Management Inspector	November 2017	November 2017

5. Risk Management Office

5.1. Provide an overview of work planned for 2018

Item	Description
Threat Verification	Continue threat verification.
RMPs	Continue RMP negotiation with property owners in vulnerable areas that have verified agricultural SDWTs.
E&O	Development of source water booklet is complete and has been distributed amongst the area municipalities. Booklet includes high level overview of source water protection. Fact sheets outlining specific BMPs regarding fuel, road salt application, DNAPLs, organic solvents, waste oil disposal are in development. Staff are planning on attending area community events to promote source water protection.
Application Review and Section 59 Notices	Continue to review Planning Act/Building Permit applications.
Incentives	Reviewed and determined there is no need for incentives in this period.

6. Annual Progress Report as per Section 46(1) Clean Water Act, 2006 and Section 52(1) O.Reg 287/07

6.1. Provide an update for applicable policy implementation

SDWT Type	Policy ID	Status	Existing Percent Complete
Sewage Systems	S-9; S-10	Complete	100
Agriculture	A-1(1-3); A-4(1-3)	In Progress	40
Fuel	F-1; F-2(1-2)	In Progress	100

6.2. Provide an explanation for SDWT listed as no progress made in section 4.1.

SDWT	Comments
N/A	N/A

6.3. Provide the number of RMPs required and completed to address SDWTs

SDWT	RMPs Required	RMPs Agreed to or Established	Properties Subject to RMPs	SDWT Managed Through RMPs
Agriculture	8	2	8	20
Fuel	2	2	2	2

6.4. Additional risk management measures required by Durham to be implemented in risk management plans

SDWT	Additional Risk Management Measures
Fuel	Some (<50%)

6.5. Provide the number and type of Section 59 notices issued. The risk management office reviews planning/building applications in vulnerable areas to determine if potential land use activities pose a threat to the quality or quantity of municipal drinking water sources.

Number of Section 59 Notices Where No Prohibition or No RMP Required	Number of Section 59 Notices Where RMP Required
0	0

6.6. Provide the number and type of prescribed instrument the RMO received in order to conform to a SDWT policy.

SDWT	Prescribed Instrument
N/A	N/A

6.7. Provide the number of inspections that have been conducted to date.

Properties Inspected	Inspections for Prohibited Activities	Inspections Indicating that Prohibited Activities were Taking Place	Inspections for Activities that Require an RMP	Inspections Where RMI Found a SDWT Activity Taking Place Without an RMP	Inspections Where RMI Found Non-Compliance with RMP
33	0	0	8	0	0

6.8. Describe how any cases of non-compliance were resolved.

Case	Resolution
0	No non-compliance cases were discovered.

6.9. Describe the amount of new or additional source protection information the RMO/RMI learned through their duties.

New Information	Comments
Some New Information	N/A

6.10. Describe any incentive programs that assisted with policy implementation.

Type of Incentive	Source of Incentive	SDWT	Degree to Which the Incentive Assisted With the Implementation	Comments
Drip Tray and Alarm	Durham Region	Fuel	Significant (100%)	Will continue to monitor.
Septic Inspection	Durham Region	Septic	Significant (100%)	Durham covered the cost of the septic inspections for all properties identified as a SDWT.

6.11. RMO tools and resources evaluation

Tool / Resource		Comments and Suggestions
Source protection Interactive Mapping Tool	<input checked="" type="checkbox"/>	Assists both Durham and area municipality in locating properties impacted by source water protection.
Risk Management Official Forum	<input type="checkbox"/>	
Resource Catalogue / Campaign in a Box toolkit	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.
Education & Outreach webinar	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.
Education & Outreach community of practice	<input type="checkbox"/>	
Guidance Materials (fact sheets, information bulletins)	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.

MOECC Training (e.g. RMO Certification, property entry)	<input checked="" type="checkbox"/>	Reference Material
OMAFRA/OFEC information sessions	<input checked="" type="checkbox"/>	Assisting with development of agricultural materials and establishing dialogue.
Other: Please Specify:	<input checked="" type="checkbox"/>	Source Water Protection table of threats and circumstances tool aids in threat verification.

6.12. Provide a list of SDWT listed in negotiated RMPs. See appendix A for a detailed summary of SDWT by type.

Township	Zone	Score	Threat Type
Port Perry	WHPA-A	10	Fuel
Port Perry	WHPA-A	10	Livestock Grazing
Newcastle	IPZ-2		Fuel
Greenbank	WHPA-A	10	ASM Application
			Fertilizer Application

7. Legislated Annual Reporting Requirements as per section 81 Clean Water Act, 2006 and section 65 O.Reg 287/07

7.1. Risk Management Plans Agreed to Under Section 58(5) of CWA

#	Township	WHPA or IPZ	SDWT Activity
1	Port Perry	WHPA-A	Fuel
2	Port Perry	WHPA-A	Livestock Grazing
3	Newcastle	IPZ-2	Fuel
4	Greenbank	WHPA-A	ASM Application, Fertilizer Application

7.2. Risk Management Plans Established by Order Under Section 58(10) Of CWA

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

7.3. Risk Management Plans Established by Order Under Section 58(12) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Reason for Refusal
N/A	-	-	-	-

7.4. Risk Management Plans RMO Refused to Agree to or Establish Under Section 58(16) or Section 58(15) of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
N/A	-	-	-	-

7.5. Orders Issued by RMO Under Part IV of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
N/A	-	-	-	-

7.6. Notices Received From a Person Engaged in an Activity, Notifying RMO of Their Possession/Intent to Obtain Prescribed Instrument Under Section 61(2) & (7) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
N/A	-	-	-	-

7.7. Notices Issued by RMO Under Section 61(6) & (8) of CWA Notifying a Person Engaged in a SDWT Activity of the Termination of an Exemption Under Section 61(1)

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
N/A	-	-	-	-

7.8. Section 61 (1) Exemptions Granted

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
N/A	-	-	-	-

7.9. Inspections Carried Out Under a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
1	Port Perry	WHPA-A	Fuel

7.10. Inspections Resulting In Non-Compliance with a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

7.11. Inspections Conducted on Prohibited Activities

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

7.12. Cases Where Prohibited Activities Were Being Engaged in During Inspections

Description of Circumstances
N/A

7.13. Risk Assessments Submitted, Accepted And Not Accepted Under Section 60

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

7.14. Instances Where RMO Caused a Thing to be Done Under Section 64 of CWA

#	Township	WHPA or IPZ	SDWT Activity
N/A	-	-	-

7.15. Prosecutions Made Under Section 106 of CWA

Description
N/A

7.16. Prosecutions Made Under Section 106 of CWA Resulting in Conviction

Description
N/A

8. Septic Re-Inspection Program

Item	Description
Required Inspections	Blackstock (5) Greenbank (17) Port Perry (3)
Lead Authority	Environmental Health, Chief Building Official
Inspection Protocol	A visual inspection is conducted on the property and the site is recorded by GPS then entered into a database. If a potential malfunction of the septic system is detected then further inspection is conducted.
Inspection Progress	All required properties have been inspected.

9. New, Altered, or Decommissioned Drinking Water Systems

Township	Description
Port Perry	Test well drilled just north of existing supply well MW6. Pump test Feb 28-March 1 and then well was decommissioned. There are plans in the future to drill a new large diameter well. Currently there is no schedule for drilling.

10. Source Protection Plan Reporting Requirements

10.1. RMO Reporting Requirements

Type	Policy No.	Status	Details
General	G-8(1)	In Progress	Implementation of source protection plan and RMPs underway.
	G-8(2)	In Progress	Agricultural threats are the only remaining RMPs that require establishment. RMPs to address agricultural threats.
	G-8(3)	In Progress	Miscellaneous provisions being established in the RMP and application for RMP.
Sewage	S-9	Complete	Septic inspections completed in 2015.
	S-10	Not Applicable	No future threats in 2017. Section 59 screening tool will be used for future threat verification.
Agriculture	A-1(1)	In Progress	Threat verification almost complete. Only 2 properties required SDWT verification. Two agricultural RMPs established in 2017. RMPs will continue to be negotiated and established in 2018.
	A-1(2)	In Progress	Applicable prescribed instruments will be considered, as appropriate.
	A-1(3)	Not Applicable	No handling and storage of pesticide threats present.
	A-4(1)	Not Applicable	No future threats requiring prohibition found in 2017.
	A-4(2)	Not Applicable	No future threats requiring RMP found in 2017.

	A-4(3)	Not Applicable	No future threats requiring a prescribed instrument found in 2017.
Fuel	F-1	Not Applicable	No futures threats requiring prohibition found in 2017.
	F-2(1)	Complete	One RMP for fuel negotiated in 2017. One existing RMP from 2016.
	F-2(2)	Complete	Annual inspection required as part of negotiated RMP.
Road Salt	R-1(1)	Not Applicable	No road salt threats.
	R-1(2)	Not Applicable	No road salt application threats.
	R-5	Not Applicable	No road salt storage threats.
	R-6	Not Applicable	No road salt storage threats.
Waste Disposal Site	W-3	Not Applicable	No waste disposal site threats.
	W-4(1)	Not Applicable	No waste disposal site threats.
	W-4(2)	Not Applicable	No waste disposal site threats.
DNAPL	D-1	Not Applicable	No DNAPL threats.
	D-2	Not Applicable	No DNAPL threats.
	D-3(1)	Not Applicable	No DNAPL threats.
	D-3(2)	Not Applicable	No DNAPL threats.
Non-Agricultural Source Material	N-2	Not Applicable	No NASM application, storage or handling threats.
	N-3	Not Applicable	No NASM application, storage or handling threats.
Snow Storage	O-1(3)	Not Applicable	No snow storage threats.
	O-2	Not Applicable	No snow storage threats.
Aquaculture	Q-1	Not Applicable	No aquaculture threats.
	Q-2	Not Applicable	No aquaculture threats.
Aircraft De-icing	P-1(1)	Not Applicable	No De-icing threats.
	P-1(4)	Not Applicable	No De-icing threats.
Monitoring for Nitrate	I-1	Not Applicable	Blackstock Well 1 decommissioned to eliminate nitrate issue. Groundwater from MW8 continues to be monitored for nitrates, results are listed in the annual water quality report.

10.2. Municipality Reporting Requirements

Type	Policy No.	Status	Details
General	G-3(1)	Not Applicable	No properties purchased in 2017
	G-5(1)	In Progress	E&O materials developed in collaboration with area municipalities.
	G-5(2)	In Progress	E&O materials developed in collaboration with area municipalities.
	G-5(3)	In Progress	Durham taking lead role in E&O
	G-5(4)	In Progress	Durham taking lead role in E&O
	G-5(5)	In Progress	E&O program continues to be developed,

			materials include fact sheets and BMPs to eliminate threats to drinking water, this includes existing and future fuel threats.
	G-5(6)	In Progress	E&O program continues to be developed. Materials include fact sheets and BMPs to eliminate threats to drinking water; this includes existing and future fuel threats.
	G-6(3)	Complete	Signs installed prior to plan approval.
	G-11(1)	Complete	All emergency response plans updated.
Sewage	S-1(1)	Complete	Septic inspections completed in 2015.
	S-4(1)	Complete	By-law requiring mandatory connection approved by council in 2015.
	S-6(1)	Complete	Emergency response plan updated.
	S-8(2)	Not Applicable	Area municipality responsible for stormwater management.
Snow Storage	O-1(1)	Not Applicable	No snow storage threats.
	O-1(2)	Not Applicable	No snow storage threats.
Transportation Corridors	OT-1(1)	Complete	Spill response plan updated.
	OT-1(2)	Complete	Response plan reviewed and updated as needed annually.
Transport Pathways	OT-2(1)	In Progress	Currently in development.
	OT-2(2)	Complete	By-law requiring elimination of transport pathways approved by council in 2015.
Pipeline	L-2(8)	Complete	Spills response plan located at all plants and maintenance depots. Also available online in the Regions Integrated Management System. Includes notification of all applicable parties in the event of a spill.
	L-2(9)	Complete	Spills response for pipeline rupture updated to include source water protection.
	L-2(10)	Complete	No activation of emergency response plan in 2017.
	L-2(11)	Complete	Emergency response plans reviewed annually and updated as needed.

10.3. Planning Approval Authority Reporting Requirements

Type	Policy No.	Status	Details
Sewage	S-3(2)	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	S-4(3)	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.

	S-5(1)	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	S-7(1)	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Road Salt	R-4(3)	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Waste	W-2(2)	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.

Appendix A

Significant Drinking Water Threats	A	B	C	D	Remaining SDWTs to be Addressed (A+B-C=D)
The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .					
The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	88	1	64	25	0
The application of agricultural source material to land.	8		2	1	5
The storage of agricultural source material	1				1
The management of agricultural source material					
The application of non-agricultural source material to land	1		1		0
The handling and storage of non-agricultural source material					
The application of commercial fertilizer to land	63		59	1	3
The handling and storage of commercial fertilizer	1		1		0
The application of pesticide to land	7		1	1	5
The handling and storage of pesticide	1		1		0
The application of road salt					
The handling and storage of road salt					
The storage of snow					
The handling and storage of fuel	34	2	33	3	0
The handling and storage of a dense non-aqueous phase liquid	2		2		0
The handling and storage of an organic solvent					
The management of runoff that contains chemicals used in the de-icing of aircraft					
The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, section 3.	1	1	1		1
Water taking from an aquifer without returning the water to the same aquifer or surface water body					
Reducing recharge of an aquifer					
Total	207	5	163	34	15

A = Original estimate of SDWT in the Approved Assessment Report

B = Additional SDWT identified after SPP approved as a result of field verification

C = SDWT included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was **not** actually engaged in at a particular location after all OR (ii) it was **no longer** engaged in at the location

D = SDWT addressed because policy is implemented

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



The Regional Municipality of Durham Information Report

From: Commissioner of Works
Report: #2018-INFO-12
Date: January 26, 2018

Subject:

Gibb-Olive Corridor Improvement Project, in the City of Oshawa

Recommendation:

Receive for information.

Report:

1. Purpose and Background

- 1.1 The purpose of this report is to provide an update on the proposed Gibb-Olive priority corridor project in the 2018 Transportation Servicing and Financing (S&F) Study (Report COW-2017-241). The widening (from 2/3 to 4/5 lane section) of Gibb Street from Stevenson Road to Simcoe Street (2021 construction), followed by 2024 construction of a new roadway (4/5 lane section) between Simcoe Street and Ritson Road will result in a continuous Gibb-Olive connection. The attached schematic map illustrates the project concept, status and timeline (Attachment #1).
- 1.2 The total estimated cost for the capital project is \$42.5 million (\$13.6 million in prior years, \$2.9 million proposed in 2018, remainder in future years). To date, the Environmental Assessment (EA) has been completed (2011) and property acquisition is in progress. The proposed 2018 financing is to advance property acquisition and detailed design.

2. Report

- 2.1 Further to recent inquiries and discussions at Committee of the Whole and Regional Municipality of Durham (Region) Council concerning the Gibb-Olive corridor improvement project and its priority as a strategic link in the Region's

transportation network, staff have reviewed the corridor and project with respect to its ultimate function and role with the Region's future transportation network, including through the lens of the recent Transportation Master Plan (TMP). As such, the following rationale continues to provide compelling reasons for the proposed project:

- The Gibb-Olive corridor is the only east-west mid-block arterial road through the City of Oshawa (Oshawa) between King Street/Bond Street and Highway 401, a distance of approximately 2.5 kilometres (km) which is substantial in a downtown core. As such, it will play a significant role in moving east/west traffic flows, and as well play an important role for transit services. This role is expected to evolve further as the City's future intensification plans unfold.
- The proposed continuous Gibb-Olive connection would span from Townline Road at the Oshawa/Clarington Boundary to Thickson Road in the Town of Whitby (Whitby), and will ultimately extend into western Whitby with the planned future extension (by Whitby) of Burns Street between Thickson Road and Hopkins Street. This would effectively place the road within the functions typical of a Type "B" arterial road, particularly supporting inter-municipal travel by all modes of transportation across three area municipalities, including Active Transportation, given its designation as a Primary Cycling Network route in the Regional Cycling Plan.
- The Gibb-Olive corridor will serve in the future as the primary east/west arterial road for access to the new Central Oshawa GO Station. The current functional design plan for the station shows that primary access for transit will be north of the CP Rail Corridor, which will make the Gibb-Olive corridor a primary route for Durham Regional Transit (DRT) and GO bus access to the station. Passenger pick-up/drop-off, accessible parking, bike parking and reserved parking are also planned for the north part of the station, all of which would be accessed largely via the Gibb-Olive corridor.
- The corridor is located in a Regional Centre, which is one of only two Urban Growth Centres in the Region designated by the Province. The area is planned for extensive intensification, and given the existing limited and discontinuous road network in the area, it is important to preserve a primary east/west corridor to serve future intensification options, while also allowing traffic from other areas to penetrate this area for future access to the GO station and the planned high density, mixed use development

around the station.

- The Gibb-Olive project has been in the Region's plans for many years to support the redevelopment and intensification of downtown Oshawa, as noted above, and it is currently planned to be completed by 2024 to ensure support/access to the Central Oshawa GO Station which is expected to open in the same timeframe.
- With the planned future easterly extension of Bus Rapid Transit (BRT) on Highway 2, the Gibb-Olive corridor will also serve as an alternate route for any east/west auto traffic seeking relief capacity on the Highway 2 corridor. Both the Gibb-Olive corridor as well as the Manning-Adelaide corridor (further to the north) will take on supportive roles in the network by providing options for relief routes and emergency vehicle routing.

3. Conclusion

- 3.1 This report provides a summary of the proposed Gibb-Olive corridor improvement project and its significance in the Regional road network. Based on the rationale outlined above, it is recommended that the project continue to be advanced as a priority amongst others outlined in the Region's road capital program.

4. Attachment

Attachment #1: Schematic Map of the Gibb-Olive Corridor Improvement Project

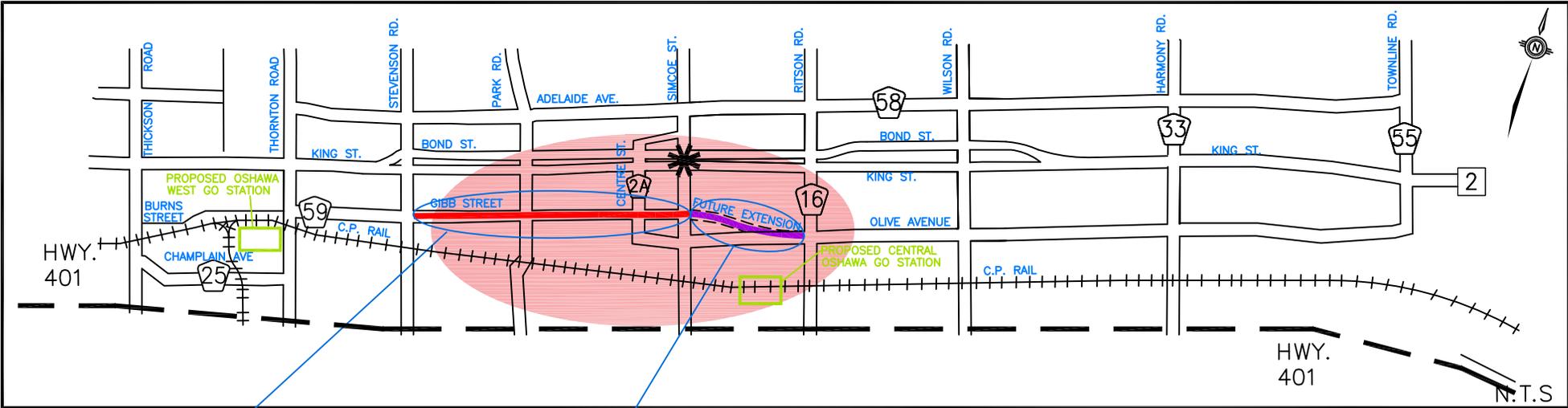
Respectfully submitted,

Original signed by

Susan Siopis, P.Eng.
Commissioner of Works

LEGEND

- PROPOSED FOUR/FIVE (4/5) LANE SECTION – EXISTING TWO/THREE (2/3) LANE SECTION
- PROPOSED FOUR/FIVE (4/5) LANE SECTION – FUTURE EXTENSION
- ✱ URBAN GROWTH AREA
- REGIONAL CENTRE



CLASS EA 100% COMPLETE
 DESIGN 0% COMPLETE
 LAND 55% COMPLETE
 UTILITIES 0% COMPLETE
 PROPOSED CONSTRUCTION – 2021
 \$ 22.0 MILLION

CLASS EA 100% COMPLETE
 DESIGN 0% COMPLETE
 LAND 65% COMPLETE
 UTILITIES 0% COMPLETE
 PROPOSED CONSTRUCTION – 2024
 \$ 20.5 MILLION

GIBB STREET/OLIVE AVENUE
 ROAD IMPROVEMENT STATUS AND TIMELINE
 (N.T.S.)

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



The Regional Municipality of Durham Information Report

From: Commissioner of Works
Report: #2018-INFO-13
Date: January 26, 2018

Subject:

Lead Water Service Connections

Recommendation:

Receive for information.

Report:

1. Purpose

1.1 This report addresses the issues raised by Ms. Amanda Rose in her delegation made at the Committee of the Whole meeting of January 10, 2018, related to lead water service connections at 16 Queen Street in the Town of Ajax (Ajax).

2. Background

2.1 Prior to the mid-1950s, most water service connections were constructed of lead or galvanized iron. Detailed records and information for older developments are not available and may have not existed prior to 1974 when the Regional Municipality of Durham (Region) was formed.

2.2 In 2017, the Region established a lead service replacement program in order to address lead water connections found within the existing water distribution system. The 2017 approved Water Supply Capital Budget included an allowance of \$0.8 million in funding for lead water services connections.

- 2.3 When a lead water service connection is discovered on public property as a result of a leak, infrastructure maintenance or rehabilitation, notification is provided to the property owner of the lead water service connection. The notification includes instructions for replacing the lead service pipe, an offer for a free lead test, a reference to the Region's Health Department publication, "Facts About: Lead in Drinking Water" and contact information for additional details or questions. If the property owner chooses to replace the privately owned portion of the lead service pipe, the Region will replace the portion on public property.
- 2.4 Following all lead water service replacements, a pitcher and filters are provided to the property owner. The filter is NSF 53 certified to remove lead and is to be used for six months following the replacement of the water service connection. Flushing instruction and an additional offer for lead testing are offered in a follow up letter after the water service replacement.
- 2.5 Regional staff have identified locations in the Region that have the potential of lead water services on both the public and private side of the property line. In order to estimate the total number of potential lead water services across the Region criteria was developed based on the age of structures as well as the age of watermain (established prior to mid-1950s). The Region's Asset Management Program for watermain replacement has been prioritized to target areas with known lead service connections. The budgets for these watermain replacement projects will include funding for the replacement of any lead water service connections on public property.
- 2.6 At the time of construction, residents and homeowners are being advised of the plan to replace the public portion of their service connection to give them an opportunity to replace the private section within a similar timeframe to minimize the disruption to their property.
- 2.7 Staff have also provided notification to property owners having a lead or galvanized iron water service connection identified through water meter replacement. In 2017, approximately 700 notification letters were distributed to property owners.

3. 16 Queen Street - Ajax

- 3.1 In October of 2017, Ms. Rose contacted the Works Department to notify staff that she was replacing the lead water service pipe at 16 Queen Street, in Ajax. Staff responded by providing the lead water service connection notification describing the replacement process as well as a pitcher and filters for immediate use. Works Department staff began to prepare for the installation of a new water service connection.

-
- 3.2 In most instances, the curbstop (water service shut off valve) is located at the property line. At 16 Queen Street, however, the curbstop is located on private property beside the house within the driveway. The Region's standard practice in cases such as this is to re-locate the curbstop to property line and replace the lead service from property line to the watermain, located within the public right of way. An illustration of a typical water service can be found in the Water Supply Systems By-Law (By-Law 89-2003) (Attachment #1). The remaining lead service pipe on private property would be the homeowner's responsibility.
- 3.3 The water service at 16 Queen Street is a "Y" type connection shared with the adjacent house at 14 Queen Street (Attachment #2). The curbstop for 14 Queen Street is located in an unpaved area approximately the same distance onto the property as the curbstop at 16 Queen Street. Since the water service is constructed from lead, it cannot be traced to determine where the "Y" is located.
- 3.4 A lead water service connection notification was provided to 14 Queen Street. The notification also included information regarding the scheduled replacement of the lead service connection to 16 Queen Street.
- 3.5 In late October, Works Department staff installed new water service connections from the watermain to the property line at 14 and 16 Queen Street. Due to the "Y" type connection shared between 14 and 16 Queen Street, the lead water service was left in place to service 14 Queen Street.
- 3.6 To date, the owner of 14 Queen Street has decided to maintain the existing water service for the property.
- 3.7 Following the installation of new service connections to 14 and 16 Queen Street, staff sent potential lead service notifications to 46 properties in the area identified on Attachment #3.
- 3.8 Ms. Amanda Rose has requested that the Region reimburse her cost for replacing the "service pipe" for her home at 16 Queen Street. Regional staff have advised her that based on the existing water system by-law, the consumer is responsible for the replacement of the service pipe on private property.

4. Conclusion

- 4.1 The Regional Municipality of Durham's Lead Service Replacement Program is designed to address the potential issue of lead in the water distribution system. The program has been developed in consultation with other municipalities and using the findings and recommendations of recent research and US EPA reporting. The Regional Municipality of Durham has received approximately 58 responses from notifications.

5. Attachments

Attachment #1: Illustration of a typical water service described within the Water Supply Systems By-Law (By-Law 89-2003)

Attachment #2: Drawing of Water Service shared between 14 and 16 Queen Street

Attachment #3: Location Map of Potential Lead Service Notifications

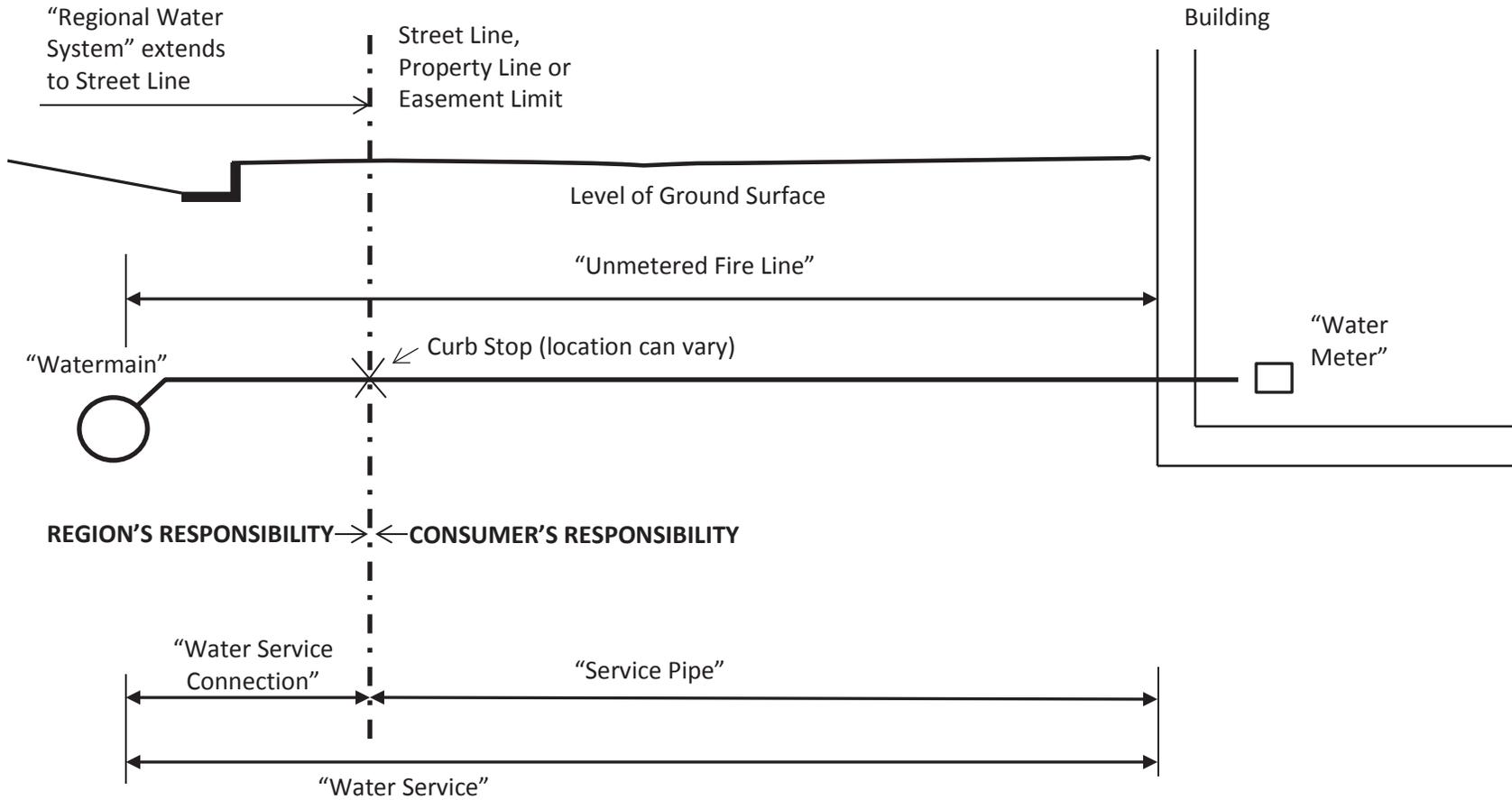
Respectfully submitted,

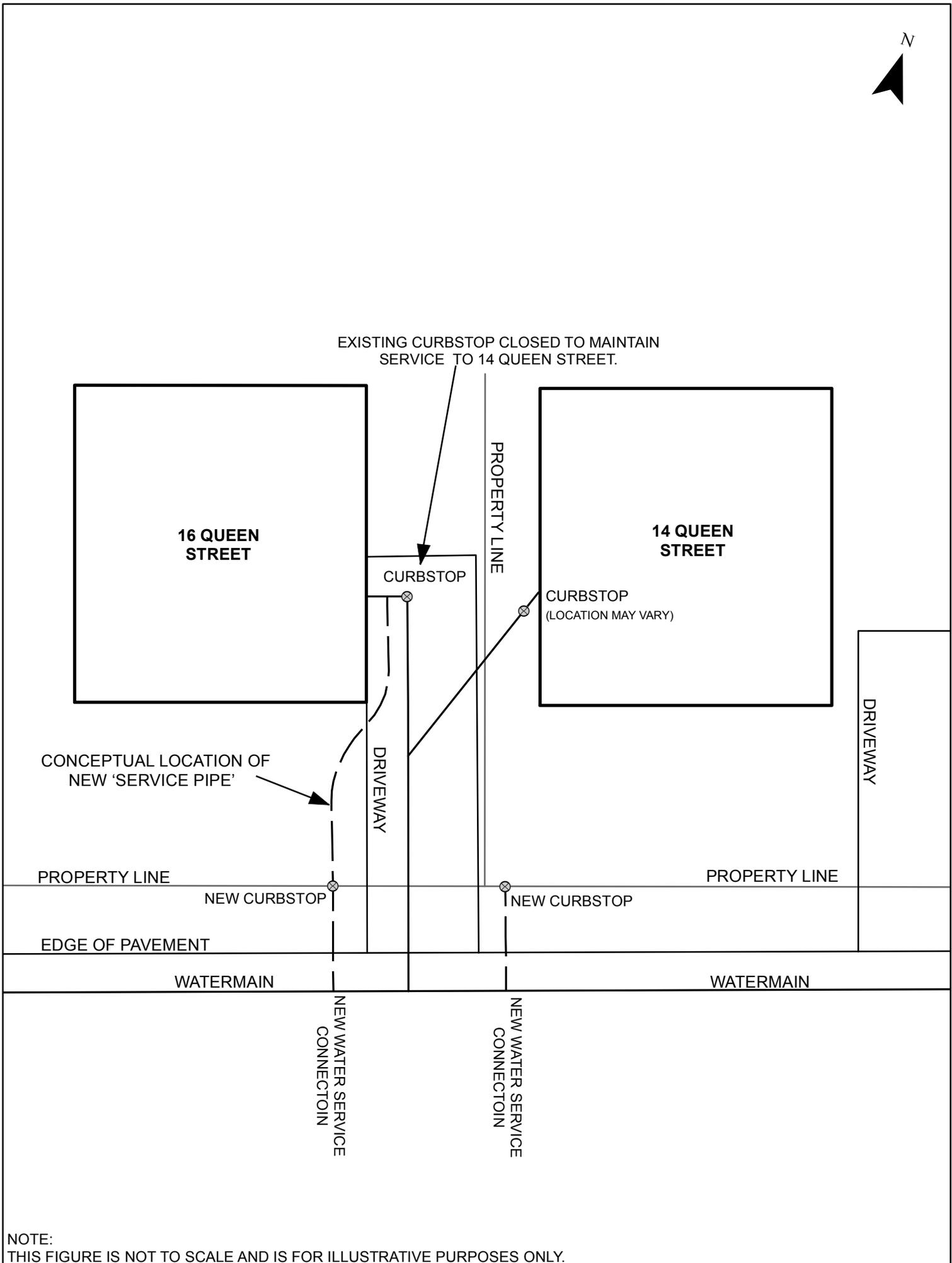
Original signed by

Susan Siopis, P.Eng.
Commissioner of Works

REGIONAL MUNICIPALITY OF DURHAM

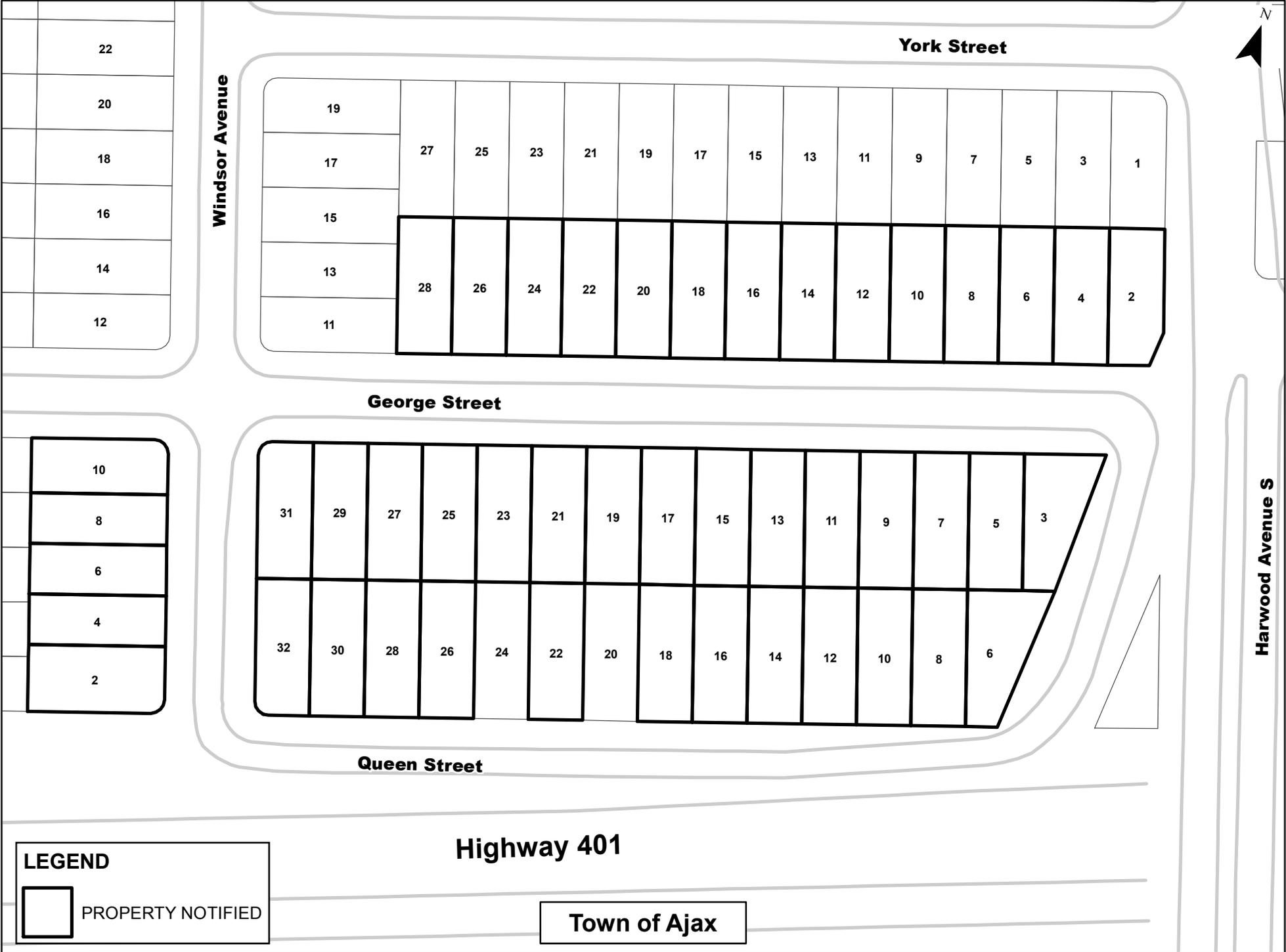
ILLUSTRATION OF WATER SYSTEM BYLAW DEFINITIONS





NOTE:
THIS FIGURE IS NOT TO SCALE AND IS FOR ILLUSTRATIVE PURPOSES ONLY.

LOCATION PLAN





The Regional Municipality of Durham Information Report

From: Commissioner of Planning and Economic Development
Report: #2018-INFO-14
Date: January 24, 2018

Subject:

Source Water Protection Screening Procedures, File No. D07 46

Recommendation:

Receive for information

Report:

1. Purpose

1.1 The purpose of this report is to inform Council of the process being undertaken by Regional staff to ensure that land use planning decisions implement the requirements of the *Clean Water Act, 2006* and the applicable Source Protection Plans.

2. Background

2.1 The *Clean Water Act, 2006* was enacted to protect Ontario's existing and future surface and ground sources of municipal drinking water. The Act establishes the boundaries of Source Protection Regions and mandates the corresponding Source Protection Committees to develop Source Protection Plans. There are four Source Protection Plans that apply to Durham Region:

- a. The Trent Source Protection Plan, effective January 1, 2015;
- b. The Ganaraska Source Protection Plan, effective January 1, 2015;
- c. The South Georgian Bay Lake Simcoe (SGBLS) Source Protection Plan, effective July 1, 2015; and
- d. The Credit Valley, Toronto and Region and Central Lake Ontario (CTC) Source Protection Plan, effective December 31, 2015.

2.2 In accordance with Section 39 (1) of the *Clean Water Act, 2006* decisions made under the *Planning Act* or the *Condominium Act* must conform to the significant threat policies set out in the applicable Source Protection Plan.

3. Source Protection Screening Procedures

3.1 Planning staff, in consultation with the Risk Management Official (RMO) of the Works Department, have developed screening procedures in order to ensure the requirements of the *Clean Water Act, 2006* and the policies of the Source Protection Plans are met. The Source Water Protection Plan Screening Procedures are included as Attachment #1.

3.2 Both the Region and Area Municipalities are responsible to ensure that, where they are the approval authority, applications are appropriately reviewed and processed in accordance with the applicable Source Protection Plans. The Regional screening procedures were developed in consultation with RMO staff in late 2016, and have been implemented on an ongoing basis.

3.3 In order for the Region to fulfill its obligations, Regional Planning staff review all pre-consultation requests and planning applications that are circulated to the Region in accordance with the steps outlined in the Screening Procedure.

4. Other Requirements related to Source Water Protection

4.1 The Durham Regional Official Plan (ROP) contains policies related to Wellhead Protection and Areas of High Aquifer Vulnerability. These policies implement the requirements of the 2002 Oak Ridges Moraine Conservation Plan. Planning staff, as part of the upcoming Municipal Comprehensive Review of the Durham Regional Official Plan will be assessing relevant policy implications and updates related to source water protection and water resources as contained in the Provincial Policy Statement (2014), Greenbelt Plan (2017), Oak Ridges Moraine Conservation Plan (2017), and Growth Plan (2017). It is anticipated that the Region will be required to develop new mapping and enhanced policies for a comprehensive water resources system. Also included will be the requirement to include policies to implement the *Clean Water Act, 2006* and the applicable Source Protection Plans.

4.2 The Trent Source Protection Plan policy G-10(1), Ganaraska Source Protection Plan policy G-10(1), and SGBLS Source Protection Plan policy Time-7 require the necessary updates to the Region's Official Plan be completed as part of the next Official Plan update, in accordance with Section 26 of the *Planning Act*. CTC Source Protection Plan policy T-8 requires the necessary policy updates to be

completed as part of the next Official Plan update, or within 5 years of the effective date of the Source Protection Plan, whichever occurs first (effectively December 31, 2020). This may create a timing issue with the overall completion of the Regional Official Plan Review. Further discussion with CTC Source Protection staff has been initiated with respect to the implementation date.

5. Conclusions

- 5.1 Staff will continue to administer the Source Water Protection Plan Screening Procedures in cooperation with the Regional Works Department. Regional Planning will advise Council of any significant changes to the screening procedures or requirements under the *Clean Water Act, 2006* or the Source Protection Plans.
- 5.2 This report was prepared in collaboration with the Works Department.
- 5.3 A copy of this report will be forwarded to Durham's Area Municipalities and Conservation Authorities.

6. Attachments

Attachment #1: Source Water Protection Plan Screening Procedures

Respectfully submitted,

Original signed by

B.E. Bridgeman, MCIP, RPP
Commissioner of Planning and
Economic Development

Source Water Protection Plan Screening Procedure

Background

The Clean Water Act, 2006 was enacted to protect Ontario's existing and future surface and ground sources of municipal drinking water. The Act establishes the boundaries of Source Protection Regions and mandates the corresponding Source Protection Committees to develop Source Protection Plans. There are four Source Protection Plans that apply to Durham Region:

- a) The Trent Source Protection Plan (TCC), effective January 1, 2015;
- b) The Ganaraska Source Protection Plan, effective January 1, 2015;
- c) The South Georgian Bay Lake Simcoe (SGBLS) Source Protection Plan, effective July 1, 2015; and,
- d) The Credit Valley, Toronto and Region and Central Lake Ontario (CTC) Source Protection Plan, effective December 31, 2015.

Source Protection Plans identify and mitigate threats to the quality and quantity of municipal drinking water supplies and the vulnerable areas that surround them. This is achieved through the protection of *wellhead protection areas*, *intake protection zones*, *significant groundwater recharge areas* and *highly vulnerable aquifers*. Within these areas, land uses that include a *prescribed drinking water threat* may be restricted or prohibited as outlined in the applicable Source Protection Plan.

Planning Act and building permit applications must now comply with the policies and provisions of the applicable Source Protection Plan(s). Both the Region and Area Municipalities are responsible to ensure that where they are the approval authority, that applications are appropriately reviewed and processed. In order for the Region to fulfill its obligations, all pre-consultation requests and planning applications must be screened for Source Water Protection in accordance with the following procedure.

*The existing policies related to wellhead protection contained in the Durham Regional Official Plan and Oak Ridges Moraine Conservation Plan continue to apply. In the case of a conflict between the policies, the most restrictive shall apply.

Review Process

Pre-consultation Screening Stage:

Upon receipt of a pre-consultation request, the Planner utilizes screening tools (<https://www.gisapplication.lrc.gov.on.ca/SourceWaterProtection/Index.html?site=SourceWaterProtection&viewer=SWPViewer&locale=en-US>) to determine if the proposal is within a vulnerable area.

The policies of the Regional Official Plan continue to apply. Proposals within a Wellhead Protection Area continue to be subject to the prohibitions and restrictions outlined in Table E5 and E6

For proposals within:

Wellhead Protection Areas A, B, C, D & E – Planner advises Risk Management Official (RMO) staff of the proposal. The RMO will require the proponent to complete a Vulnerable Area Screening Application form (attachment 1). RMO staff will review the submission and issue one of the following notices:

- *Section 57 Notice* advising that the proposal includes a prohibited activity and is not permitted;
- *Section 58 Notice* advising that the proposal requires a Risk Management Plan as a condition of approval;
- *Section 59 Notice* advising that the proposal may proceed.

Inclusion of the appropriate notice is required as part of a complete application.

Planner provides a copy of the circulation to the Policy Section. A policy planner will consult to determine if any other land use policies apply.

Wellhead Protection Area Quantity 1 / 2 – Planner advises RMO staff of the proposal for information purposes only. Where the Area Municipality is the approval authority, the Planner advises Area Municipal and RMO staff that compliance with the appropriate Source Protection Plan is required.

Wellhead Protection Area Quantity 1 (Demand)

Where the proposal includes a new or amended Permit to Take Water (PTTW), the Planner will advise the proponent that final approval will not be granted until such time that the Ministry of the Environment and Climate Change (MOECC) has provided comments indicating that the proposal will not become a significant water quantity threat.

Wellhead Protection Area Quantity 2 (Recharge)

Where the Region is the Approval Authority, the Planner will consult with the appropriate Conservation Authority to determine if a Water Balance Report will be required where *Major Development* is proposed. The Water Balance Report shall be reviewed to the satisfaction of the Region. This may be accomplished in consultation with the appropriate Conservation Authority or through the Hydrogeological peer review process.

Intake protection zone 1 - Planner advises RMO staff of the proposal. The RMO will require the proponent to complete a Vulnerable Area Screening Application form (attached). RMO staff will review the submission and issue one of the following notices:

- *Section 57 Notice* advising that the proposal includes a prohibited activity and is not permitted;
- *Section 58 Notice* advising that the proposal requires a Risk Management Plan as a condition of approval;
- *Section 59 Notice* advising that the proposal may proceed.

RMO staff may also advise in writing that the proposal does not require any of the Notices outlined above.

Inclusion of the appropriate Notice is a requirement of a complete application.

Planner provides a copy of the circulation to the Policy Section. A policy planner will consult to determine if any other land use policies apply.

Intake protection zone 2 or 3 – where the proposal includes a *Modelled Threat*, review by RMO staff is required. Accordingly, follow the steps outlined above for proposals within Intake protection zone 1.

Significant Groundwater Recharge Areas & Highly Vulnerable Aquifers – to be developed in accordance with the requirements of the Greenbelt Plan, 2017.

Receipt of Application / Circulation Stage:

Upon receipt of a planning application, the Planner reviews the submission to ensure that any complete application requirements identified as part of the pre-consultation process, including the appropriate Notice and/or Water Balance report, have been included. The application is circulated to the Risk Management Official, Policy Section staff and/or the Conservation Authority as appropriate.

Where a Permit to Take Water is being requested as part of an application within the WHPA Q1/Q2 area, the Planner will advise the applicant that final approval will not be granted until such time as the MOECC has issued approval for the PTTW.

Comments / Approvals Stage:

For proposals within Wellhead Protection Areas A, B, C, D, & E and Intake Protection Zones 1, 2 and 3, the Planner receives comments and/or conditions from Risk Management Official staff. The Planner consults with the RMO and Policy Section to determine if any other land use policies apply. Where Regional Planning is providing one-window agency comments, the Planner incorporates any relevant comments and/or conditions into the Region's consolidated letter. Where the Region is the approval authority, the comments and/or conditions from the Risk Management Official will be addressed and incorporated as conditions of approval, where appropriate.

For proposals Within Wellhead Protection Area Quantity 1/2, the Planner receives any comments and/or conditions from the Conservation Authority and/or Hydrogeological peer reviewer, including confirmation that the Water Balance Report (where necessary) is acceptable. Alternatively, the Water Balance Report may be reviewed through the hydrogeological peer review process. Any issues or conditions will be addressed and incorporated as conditions of approval, where appropriate. Where the proposal includes an amended or new Permission to Take Water, ensure that supportive comments have been received from the MOECC prior to granting final approval.

Terms and Definitions

Highly vulnerable aquifer: means an aquifer that is particularly susceptible to contamination due to its location near the ground's surface or where the types of materials in the ground around it are highly permeable.

Intake protection zones: means the area on the water and land surrounding a municipal surface water intake that may be vulnerable to significant threats. The delineation of Intake Protection Zones is based on the amount of time it takes for water to reach the intake, as outlined below:

- a) Intake protection zone 1: The one kilometre circle around the drinking water intake.
- b) Intake protection zone 2: The area within a 2 hour time of travel to the drinking water intake.
- c) Intake protection zone 3: The area that may contribute contaminants to an intake during an extreme event and is based on modeling contaminants released during the extreme event.

Major Development: For the purposes of this screening procedure, Major Development within the WHPA Q2 Area means:

Within the CTC and TCC Plan Areas, all Site Plan (excluding an application for a single family dwelling) or Subdivision applications for commercial, industrial, institutional and multi-residential uses.

Within the SGBLS Plan Area, the construction of a building or building lot with the ground floor area cumulatively equal to 500 sq. m. and any other impervious surface. Applications for a single detached dwelling are exempt.

Modelled Threats: means activities that are identified through event based modelling as significant threats to Lake Ontario drinking water intakes. The model demonstrates that a spill has the potential to reach surface water intake(s) at a sufficient concentration to cause deterioration in water quality. See Attachment #2 for a list of Modelled Threats applicable to Durham Region.

Prescribed drinking water threats: means activities prescribed to be drinking water threats under the Clean Water Act, 2006 and the associated Regulation, as outlined below:

- a) The establishment, operation, or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act;
- b) The establishment, operation or maintenance of a system that collects, stores, transmits or disposes of sewage;
- c) The application of agricultural source material to land;
- d) The storage of agricultural source material;
- e) The management of agricultural source material;
- f) The application of non-agricultural source material to land;
- g) The handling and storage of non-agricultural source material;
- h) The application of commercial fertilizer to land;
- i) The handling and storage of commercial fertilizer;
- j) The application of pesticide to land;

- k) The handling and storage of pesticide;
- l) The application of road salt;
- m) The handling and storage of road salt;
- n) The storage of snow;
- o) The handling and storage of fuel;
- p) The handling and storage of a dense non-aqueous phase liquid;
- q) The handling and storage of an organic solvent;
- r) The management of runoff that contains chemicals used in the de-icing of aircraft;
- s) An activity that takes water from an aquifer or surface water body without returning the water taken to the same aquifer or surface water body;
- t) An activity that reduces the recharge of an aquifer; and
- u) The use of land as livestock grazing or pasturing land, an outdoor confinement area, or a farm animal yard.

Risk Management Official (RMO): means the official appointment under Part IV of the *Clean Water Act, 2006*. The Risk Management Official is responsible for making decisions about risk management plans and risk assessments and must meet the prescribed criteria in the regulations under the *Clean Water Act, 2006*. For Durham Region, contact:

Greg Lymer
Risk Management Official
Manager – Technical Support
Regional Headquarters Works Department – 5th Floor
Extension 3500
greg.lymer@durham.ca

Section 57 Notice: means a notice of prohibition issued by the Risk Management Official under the Clean Water Act.

Section 58 Notice: means a notice requiring a Risk Management Plan issued by the Risk Management Official under the Clean Water Act.

Section 59 Notice: means a notice to proceed issued by the Risk Management Official under the Clean Water Act.

Significant groundwater recharge areas: means areas identified in Assessment Reports that are characterized by porous soils which allow water to seep easily into the ground and flow to an aquifer. A recharge area is considered significant when it helps maintain the water level in an aquifer that supplies a community with drinking water.

Water Balance Report: means a report undertaken by a qualified professional that examines changes in the infiltration of water into the ground (i.e. recharge) that will occur due to proposed development.

Wellhead protection areas (WHPA): means the area around a municipal drinking water well that may be vulnerable to significant threats. More specifically:

- a) For water quality threats, the size and delineation of the wellhead protection areas are determined by how quickly water travels underground to the well, measured in years, as outlined below:
 - i. Wellhead protection area - A: The area within a 100-metre radius of the wellhead.
 - ii. Wellhead protection area - B: The area subject to a 2 year travel period to the well.
 - iii. Wellhead protection area - C: The area subject to a 5 year travel period to the well.
 - iv. Wellhead protection area - D: The area subject to a 25 year travel period to the well
 - v. Wellhead protection area - E: The area where a well is influenced by surface water.
- b) For water quantity threats, the delineation of the wellhead protection area is based on a tiered water budget analysis that determined locations where there was a moderate or significant threat to water quantity. These areas are classified as:

- i. Wellhead protection area - quantity 1: The area where activities that take water without returning it to the same aquifer may be a threat.
- ii. Wellhead protection area – quantity 2: The area where activities that reduce recharge may be a threat.

Pre-consultation Stage: Request for Pre-consultation

Regional Approval Authority

Screening: is property within a Vulnerable Area?

Within: WHPA
A,B,C,D,E

Within:
IPZ 1

Within: IPZ 2 or 3 (for
modelled threats only)

Within: WHPA
Q1/Q2

Proposal for
Major Dev.

Proposal
includes PTTW

Advise / Consult with
RMO. Determine if
S. 57, 58 or 59 Notice
is required.
Consult with Policy
Section. Determine if
any other land use
policies apply

Consult w/ CA. and
the SPP to
determine if Water
Balance req.

Advise proponent: Final
approval will not be
granted until MOECC has
approved the PTTW

Application / Circulation Stage

Review application
for inclusion of
appropriate Notice.
Circulate RMO.

Review application for inclusion of
Water Balance. Circulate CA. and/or
Hydrogeological Peer Reviewer

Approval Stage

RMO provides Notice /
comments indicating whether
proposal may proceed. Any
conditions are included as part
of Final Approval.

CA or Peer Reviewer
provides comments
indicating the Water Balance
is satisfactory. Any
conditions are included as
part of Final Approval

Proponent provides copy of
a successful PTTW prior to
Final Regional Approval.

Pre-consultation Stage: Request for Pre-consultation

Area Municipal
Approval Authority

Screening: is property within a Vulnerable Area?

Within: WHPA
A,B,C,D,E

Within:
IPZ 1

Within: IPZ 2 or 3 (for
modelled threats only)

Within: WHPA
Q1/Q2

Advise / Consult with RMO
and Policy Section staff.
Advise Area Municipal Staff
if S. 57, 58 or 59 Notice is
required. Advise of any
other land use policies that
may apply.

Proposal for
Major Dev.

Proposal
includes PTTW

Advise Area Municipal Staff and
proponent that Water Balance
may be required and to consult
with CA and RMO staff regarding
Water Balance requirement.

Advise Area Municipal
Staff and proponent that
final approval should not
be provided until MOECC
has approved the PTTW.

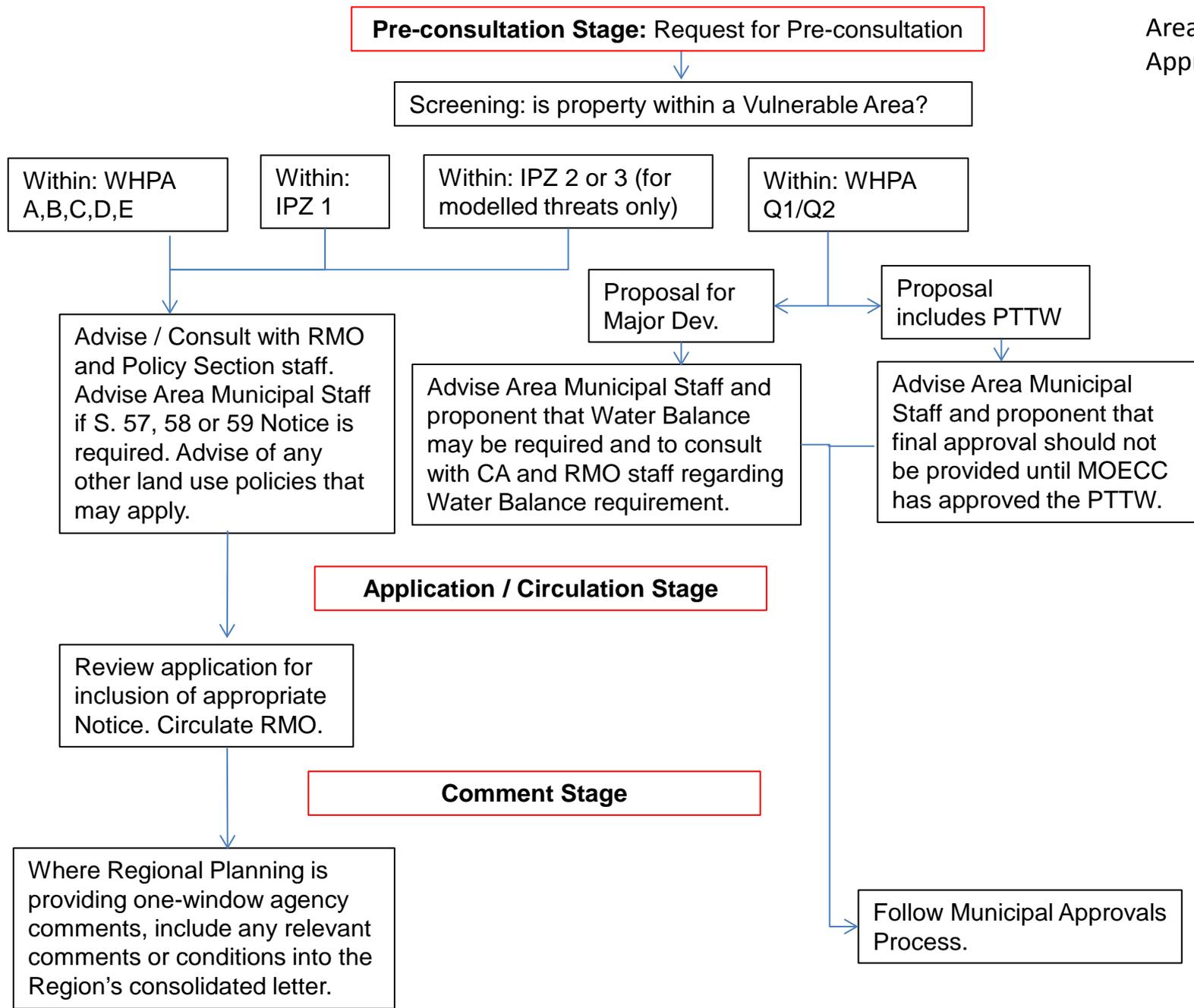
Application / Circulation Stage

Review application for
inclusion of appropriate
Notice. Circulate RMO.

Comment Stage

Where Regional Planning is
providing one-window agency
comments, include any relevant
comments or conditions into the
Region's consolidated letter.

Follow Municipal Approvals
Process.



Modelled Threats Applicable to Durham Region

- All Wastewater Pollution Control Plants
- Darlington and Pickering Nuclear Generating Stations
- Petroleum Pipelines (in the event of a failure)
- Underground fuel storage associated with the Newcastle Marina
- Sanitary Trunk Sewers



The Regional Municipality of Durham Information Report

From: Commissioner and Medical Officer of Health
Report: #2018-INFO-15
Date: January 26, 2018

Subject:

Program Reports

Recommendation:

Receive for information

Report:

1. Purpose

- 1.1 To provide an update on Durham Region Health Department (DRHD) programs and services.

2. Background

- 2.1 In 2017, the province communicated many policy changes including the release of the modernized *Ontario Public Health Standards: Requirements for Programs, Services, and Accountability* (OPHS), which came into effect January 1, 2018.
- 2.2 DRHD has re-named a number of its programs to better align with the new OPHS, streamline reporting, better reflect its scope of work and ensure that program names are more meaningful to the public.

3. Highlights

- 3.1 DRHD reports for November – December 2017 reflect revised program names and include the following key highlights:
- a. Health Analytics, Policy & Research – Health Analytics Information Products and Ethics updates;
 - b. Health Protection – Food Safety, Emergency Management and Safe Water updates;
 - c. Healthy Families program updates;
 - d. Healthy Living – School Health and Healthy Living program updates;

- e. Infectious Diseases – Immunization and Infectious Diseases Prevention and Control updates; and
- f. Paramedic Services – Administration, Operations, Logistics and Quality Development updates.

3.2 Boards of health are required to “superintend, provide or ensure the provision of the health programs and services required by the [Health Protection and Promotion] Act and the regulations to the persons who reside in the health unit served by the board” (section 4, clause a, HPPA). In addition, medical officers of health are required to “[report] directly to the board of health on issues relating to public health concerns and to public health programs and services under this or any other Act” (sub-section 67.(1), HPPA). Accordingly, the Health Information Update is a component of the Health Department’s ‘Accountability Framework’, which also may include program and other reports, Health Plans, Quality Enhancement Plans, Durham Health Check-Ups, Performance Reports, business plans and budgets; provincial performance indicators and targets, monitoring, compliance audits and assessments; RDPS certification; and accreditation by Accreditation Canada.

Respectfully submitted,

Original signed by

R.J. Kyle, BSc, MD, MHSc, CCFP, FRCPC, FACPM
Commissioner & Medical Officer of Health

Abbreviations

- ACP – Advanced Care Paramedic
- ASIST – Applied Suicide Intervention Training
- ASRT – Ambulance Service Review Team
- AWQI – Adverse Water Quality Incident
- BBI – Blood-Borne Infection
- BHV – Blended Home Visiting
- CAS – Children’s Aid Society
- CCEYA – Child Care and Early Years Act, 2014
- CCHS – Canadian Community Health Survey
- DEMO – Durham Emergency Management Office
- DHCL – Durham Health Connection Line
- DNGS – Darlington Nuclear Generating Station
- DRHD – Durham Region Health Department
- DRT – Durham Region Transit
- ECDC – Early Childhood Development Coalition
- ED – Emergency Department
- EDI – Early Development Instrument
- EOFC – EarlyON Child and Family Centre
- ERC – Ethics Review Committee
- FSP – Family Service Plan
- FV – Family Visitor
- HBHC – Healthy Babies Healthy Children
- HCF – Health Care Facility
- HIV – Human Immunodeficiency Virus
- HMCA – Healthy Menu Choices Act, 2015
- HOC – Health Operations Centre
- HP – Health Protection Division
- HPPA – Health Protection and Promotion Act
- HPV – Human Papillomavirus
- HQ – Headquarters

- HRI – Human Resource Inventory
- IDA – In-Depth Assessment
- IPAC – Infection Prevention and Control
- ISPA – Immunization of School Pupils Act
- KI – Potassium Iodide
- LGA – Large-For-Gestational Age
- LTCH – Long-Term Care Home
- MCI – Mass Casualty Incident
- MCYS – Ontario Ministry of Children and Youth Services
- MOE – Ontario Ministry of Education
- MOECC – Ontario Ministry of the Environment and Climate Change
- MOHLTC – Ontario Ministry of Health and Long-Term Care
- OHIP – Ontario Health Insurance Plan
- OPHS – Ontario Public Health Standards
- OPG – Ontario Power Generation
- OSDUHS – Ontario Student Drug Use and Health Survey
- PCP – Primary Care Paramedic
- PH – Population Health Division
- PHI – Public Health Inspector
- PHN – Public Health Nurse
- PHU – Public Health Unit
- PMD – Perinatal Mood Disorder
- PNGS – Pickering Nuclear Generating Station
- POC – Point of Care
- PSS – Personal Services Settings
- RDPS – Region of Durham Paramedic Services
- REOC – Regional Emergency Operations Centre
- RSV – Respiratory Syncytial Virus
- SDWS – Small Drinking Water Systems
- SGA – Small-For-Gestational Age
- SHC – Sexual Health Clinic
- STI – Sexually Transmitted Infection

- VPD – Vaccine Preventable Disease
- WNV – West Nile Virus
- YPCC – Young Parents Community Coalition
- YSPAG – Youth Suicide Prevention Action Group

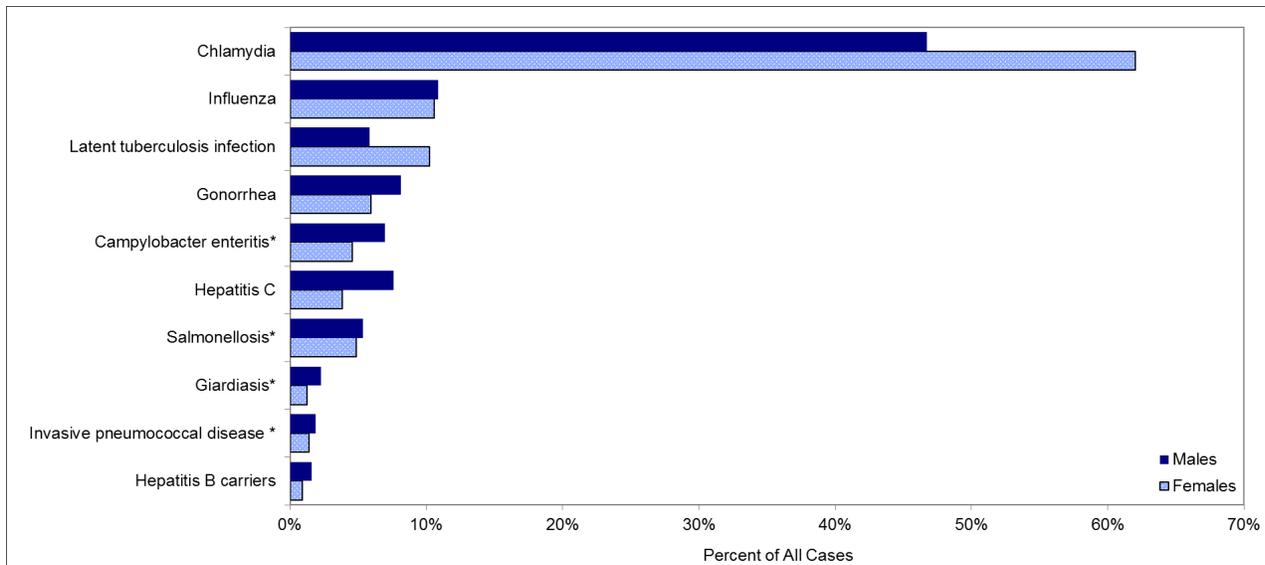


Health Analytics Information Products

Infectious Diseases At A Glance

Rates for all reportable infectious diseases included in the report are either similar or lower in Durham Region compared to Ontario with the exception of legionellosis. Chlamydia was the most commonly reported infectious disease in Durham Region males and females. Although chlamydia rates decreased between 2011 and 2013 among both Durham Region and Ontario females and levelled off among Durham Region males, rates increased again between 2014 and 2016. Incidence rates of gonorrhoea have been increasing since 2009 in both Durham Region and Ontario, especially among males. There were more cases than expected in 2016 for adverse events following immunization, cyclosporiasis, gonorrhoea, invasive group A streptococcal disease, hepatitis A, influenza, Lyme disease, salmonellosis, shigellosis, and infectious syphilis. There were fewer cases than expected for hepatitis C.

Ten most common reportable infectious diseases in Durham Region, 2012 to 2016 combined



Falls at a Glance

Since 2007, the rates of injuries from falls in older adults and in preschoolers have been generally stable. There is an increasing trend over the past 10 years in the rates of injuries from falls from playground equipment in early school-aged children (5-9).

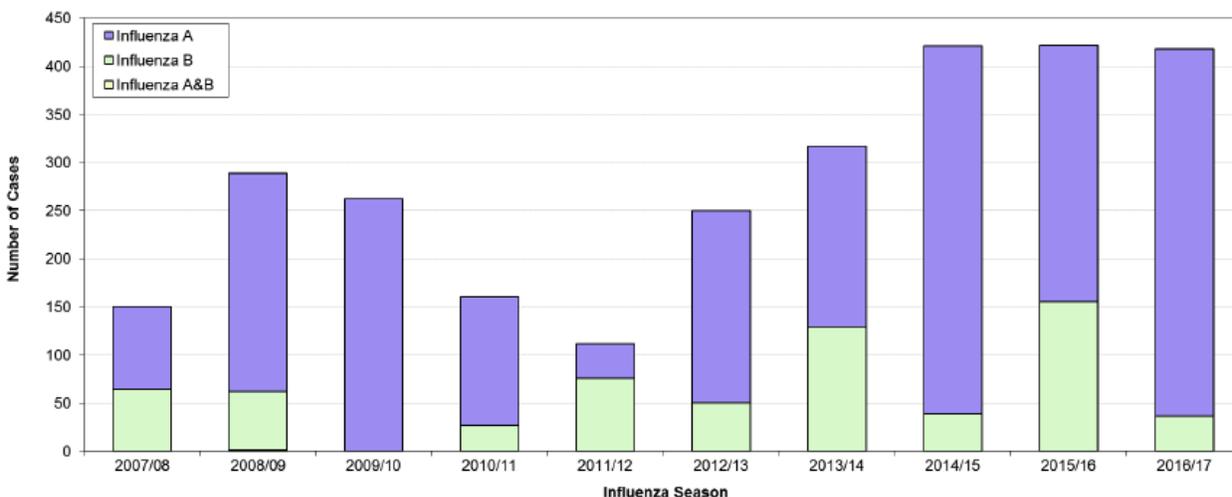
Alcohol-Related Hospitalizations and ED Visits at a Glance

Alcohol-related hospitalizations and ED visits demonstrate the burden of alcohol consumption on the health system. In 2016, there were over 800 hospitalizations and almost 1,500 ED visits for alcohol-related acute or chronic conditions. The rates in males are higher than for females.

Summary of the 2016/17 Influenza Season

There were 418 lab confirmed cases of influenza in the 2016/17 influenza season, which was similar to the two previous seasons (422 in 2015/16 and 421 in 2014/15). Of the influenza cases, 382 cases were influenza A and 36 cases were influenza B. Influenza rates were highest among Durham Region older adults and among children, but rates remained lower than Ontario. There were 148 hospitalizations among lab confirmed cases and 69 respiratory outbreaks in institutions, which were both higher compared to previous seasons.

Confirmed influenza cases in Durham Region by type by influenza season, 2007/08 to 2016/17



Health Neighbourhoods Release 3

Release 3 of Health Neighbourhoods was launched with the new durham.ca website in December 2017. **Eleven** indicators were updated with comparisons of two time points to see changes in Health Neighbourhoods and **seven** new indicators were produced. There

are now **88** indicators for Durham Region's **50** Health Neighbourhoods and eight municipalities. All of the information is available at durham.ca/neighbourhoods.

Seven new indicators:

- School-required immunizations, age 7-8
- School-required immunizations, age 16-17
- Immunization rates for hepatitis B in Grade 7 students
- Immunization rates for meningococcal disease in Grade 7 students
- Immunization rates for HPV in Grade 7 students
- Rate of police-reported domestic incidents
- Rate of police-reported domestic incidents with children present

11 updated indicators (two time points):

- Six indicators on school readiness from the EDI
- Well-baby visit rate
- Preterm birth rate in singletons
- SGA rate
- LGA rate
- Dental decay by school

Highlights

Immunization in Children

Children aged 16 – 17 have higher immunization rates for school-required vaccines (90.7%) than children aged 7 – 8 (75.4%). School-required vaccination rates examine whether children are fully immunized (receiving the recommended number of doses at the appropriate ages and sequence) for the six diseases of diphtheria, tetanus, polio, measles, mumps and rubella.

Immunization rates in Grade 7 students are highest for meningococcal disease (90.2%), followed by hepatitis B (74.4%). Rates are lowest for HPV (66.4%).

Immunization rates tend to be higher in Ajax and Pickering.

Children living in the seven priority neighbourhoods have lower immunization rates for school-required vaccines, but rates for meningococcal disease, hepatitis B and HPV in Grade 7 students are similar to Durham Region. These Grade 7 vaccines are given in school by DRHD nurses.

The Neighbourhoods of Brock and Clarke (Clarington) have lower rates for all three Grade 7 vaccines.

Police-Reported Domestic Incidents

Domestic incidents are incidents reported to police whereby intimate partners were involved. The rates underestimate the extent of the problem because people may not report domestic incidents to the police. Rates of domestic incidents were very low in most neighbourhoods with the highest rates in the seven priority neighbourhoods.

Rates of police-reported domestic incidents where children were physically present were highest in four of the seven priority neighbourhoods, particularly Downtown Oshawa and Lakeview, along with some Neighbourhoods in Ajax and Pickering. Rates were lowest in Whitby and Clarington. Witnessing family violence can be as harmful as experiencing it directly.

Highlights from Updated Indicators

The enhanced well-baby visit is a physical check-up with a doctor or nurse practitioner at 18 months to see how well a child is developing and reaching key milestones. The well-baby visit rate either significantly improved or stayed the same in all neighbourhoods, with no decreases. Four of the seven priority neighbourhoods improved, specifically Central Park, Downtown Oshawa, Downtown Ajax and Downtown Whitby.

The EDI measures school readiness in senior kindergarten children on five domains. Some noteworthy findings:

- The priority neighbourhood of Downtown Oshawa improved on almost all of the EDI indicators, as well as on the well-baby visit rate. The overall percentage of vulnerable children in Downtown Oshawa fell from 65% to 35%, the best improvement of all Health Neighbourhoods, but still remains higher than Durham Region.
- Riverside-Hermitage in Ajax improved on all six EDI indicators and on well-baby visit rate. Frenchman's Bay in Pickering improved on five of the EDI indicators and on well-baby visit rate. Likewise, Pickering improved on five of the EDI indicators and on well-baby visit rate.
- While some changes could be by chance or from changing demographics in the neighbourhoods as new people move in, some improvements may be due to various initiatives to improve services and programs. For example, DRHD, Social Services, school boards and many community partners are working to improve school readiness in the priority neighbourhoods. As well, the Ajax-Pickering ECDC was created precisely because of poor EDI scores and low well-baby visits in Ajax and Pickering, and has been working with parents and doctors in the community. It is likely that there are combinations of factors affecting the results and different explanations in each neighbourhood.

Ethics

In the period of November 2017 – December 2017, the ERC approved **one** study, titled:
STOP On The Road Workshop

Principal Investigator/Research Lead: Shelley Simic, PHN, DRHD

Co-Principal Investigators/DRHD Leads/Co-Investigators: Becky Wall, PH Manager,
Expected Completion Date: December 31, 2018

Respectfully submitted,

Original signed by

R.J. Kyle, BSc, MD, MHSc, CCFP, FRCPC, FACPM
Commissioner & Medical Officer of Health



Health Protection

Report for November – December 2017

Food Safety

One hundred percent of the required routine food premises inspections have been completed as per the OPHS and associated protocols.

On January 1, 2017, the HMCA required all regulated food service premises to be in compliance with the Act. The HMCA requires owners/operators of food service establishments with **20** or more locations in Ontario to post calories for their standard food items.

PHIs began HMCA compliance inspections in April 2017 of all regulated food services premises and completed approximately **90% (691 of 767)** of required inspections. Several additional re-inspections were also completed in an effort to improve compliance with the requirements. The overall compliance rate with the Act remains at approximately **47%**. PHIs identified approximately **664** infractions up to December 2017. The infractions are primarily related to how the calories are being displayed and absence of the required contextual statements. DRHD will be working collaboratively with other PHUs, MOHLTC and the head offices of these establishments to improve compliance rates in a consistent manner.

DRHD plans to complete the balance of these initial inspections in the first quarter of 2018. Additional inspections may be required to ensure compliance with the new 2018 prescribed contextual statement that came into effect January 1, 2018. PHIs will also need to conduct re-inspections of those establishments that are not in compliance with the Act. These inspections will be completed in conjunction with the routine food premises inspections in 2018.

DRHD received less than one-third of the one-time funding request submitted to the MOHLTC (**\$54,000**) for this program. A response from MOHLTC has not been received regarding DRHD's submission for additional in-year funding.

On December 21, at the request of the City of Oshawa's recreational programs, PHIs provided and delivered a food handler training course at the South Oshawa Community

Centre at no cost for **20** Grade 12 students from GL Roberts CVI and several adult members from the surrounding community. These individuals assist in the daily food preparation (lunch) for youth and assisted in the traditional Christmas youth room dinner that served over **80** youth ages 8 – 17. The students from GL Roberts CVI often visit the youth room during lunch time as many may not have eaten since lunch the previous day. This was a great example of excellent community engagement and collaboration with our municipal partners to meet the needs of our priority populations.

Emergency Management

Exercise Unified Control 2017

After a year of planning, on December 6 and 7, over **200** Regional employees participated in Exercise Unified Control, a simulated nuclear emergency at the PNGS. Hosted by OPG, this exercise was planned in coordination with DEMO and other regional departments. DRHD participated on day two of the exercise with representatives in the REOC and fully activated the back-up HOC at RDPS HQ.

The objectives of the exercise included: testing the preparedness of DRHD as well as other organizations to respond to a nuclear emergency; and assessing interoperability and communications with other Regional Departments and external organizations such as MOHLTC, LHINs and HCFs. The back-up HOC facilities and equipment were fully tested and HOC members were able to practice their roles and responsibilities as defined in the DRHD Master Plan.

Throughout the day, HOC members simulated scenarios that included: a potential release of radioactive material; an evacuation order; the opening of evacuation and reception centres; administration of KI tablets; contaminated food and water concerns; and requests for assistance and guidance from LTCHs and other health care organizations.

Debriefing sessions were held at both the REOC and HOC to capture participant feedback, lessons learned and recommendations for improvement to ensure all agencies including DRHD are well prepared to deal with emergency situations, including nuclear incidents. Lessons learned and recommendations will be captured in an “After Action Report” to be completed in early 2018.

Potassium Iodide (KI) Tablets

On behalf of Durham Region, DRHD is responsible for the pre-distribution of KI tablets to institutions (e.g. LTCHs, HCFs, school boards, child care centres, youth detention centres) and first responders located within the primary zone (10 km radius) of both the PNGS and DNGS. The tablets distributed to these facilities and agencies will be expiring in April 2019. In early 2018, DRHD will begin planning to ensure the timely collection of expired KI tablets and re-distribution of new tablets. DRHD will collaborate with key

stakeholders to coordinate the collection of over 240,000 KI tablets from these institutions and first responders and re-distribute new tablets in 2018.

The distribution and collection noted above is in addition to the pre-distribution program in partnership with OPG on the preparetobesafe.ca website for residents and businesses within the primary (10 km) and secondary (50 km) zones. The KI tablets mailed to residents and businesses within the primary zones in the fall of 2015 have an expiry date of 2027 and are not included in 2018 collection and redistribution program.

Safe Water

Adverse Water Quality Incident Reports

As per the OPHS and the *Drinking Water Protocol*, boards of health are required to receive reports and respond to adverse events such as reports of AWQI on drinking water systems governed under the HPPA.

In 2017, DRHD received and responded to **127** AWQI reports resulting in the issuing of **34** Boil Water Advisories/Boil Water Orders and Drinking Water Advisories. Additionally, DRHD received and responded to **49** lead AWQI reports from school boards. Amendments to Regulation 243/07 require that all schools with a primary division sample at least one third of drinking water fixtures each in 2017, 2018 and 2019. These regulatory amendments resulted in an increase in the number of drinking water fixtures sampled in 2017 and an increase in the number of AWQI reports for lead.

The goal of responding to AWQIs is to enhance the level of awareness and knowledge of drinking water safety with owners/operators of drinking water systems and to ensure a safe and healthy environment for the users of these drinking water systems.

Small Drinking Water Systems

SDWS include public facilities with a non-municipal water supply such as; food service establishments, trailer parks/campgrounds, marinas, recreational camps, places of worship and any place where the general public has access to a washroom. There are approximately **245** SDWS in Durham Region. All **245** have been inspected, assigned a risk category and re-inspected according to the assigned risk category by PHIs who have received specialized training. After the initial inspection and assignment of a risk category, each SDWS is issued a site-specific directive which identifies the water sampling and testing frequency, the types of samples to be taken and the need for treatment and treatment equipment, among other items.

DRHD monitors all SDWS' compliance with the directives in accordance with the OPHS and protocols. During 2017, DRHD issued **six** warning notices to SDWS owners that were not in compliance with the directive. When compliance is not achieved following the issuance of a notice, legal action is taken and owners are charged under Ontario

Regulation 319 (Small Drinking Water Systems). In 2017, **three** convictions were registered for offenses under the HPPA, Regulation 319/08.

Respectfully submitted,

Original signed by

Ken Gorman
Director, Health Protection Division



Healthy Families

Report for November – December 2017

Basic Connections Program

Early childhood is a sensitive period in human development. During this time, genetics and early experiences interact to shape brain development that affects emotional regulation, stress response and attention. The experiences in the early years of a child's life can heavily predict their developmental, mental and cognitive health into adulthood. Related to this is attachment, which is the deep and lasting connection that children form with their main caregivers, usually their parents. Healthy attachment occurs gradually over time through day to day interactions between parent and child. A crucial element of attachment is the ability of a caregiver to read and be responsive to an infant's cues (Mustard, McCuaig & McCain 2011).

Basic Connections is an eight week attachment-based interactive parenting program. The target audience is young parents involved with Durham CAS who have babies 0 – 12 months of age. The program is facilitated by a PHN and Rose of Durham counsellor. Weekly sessions involve interactive circle time and parent education sessions. Facilitators encourage parents to read their baby's cues during circle time and reflect on their reactions, teaching them how to be responsive to cues and build attachment. Parent sessions involve discussions, education and activities that foster understanding of infant cues and ways to establish healthy connections. Pre-session conferences are held with clients to identify their strengths and areas for growth, and post-session conferences are held to celebrate achievements.

Last Fall, **one** Basic Connections program was held at the Rose of Durham and attended by **six** parents. Participant evaluations showed that **100%** of attendees:

- Found the program helpful to achieve their parenting goals;
- Learned new parenting skills to support healthy attachment; and
- Increased their awareness of parenting supports in their community.

As the referring agency, Durham CAS case workers also completed an evaluation of the Basic Connections program as it related to their clients. These evaluations indicated:

- The pre and post session conferences were beneficial to their case management planning for clients;
- A noticeable improvement in their client's utilization of community services;
- The clients were more confident with approaches to building healthy attachment; and
- They would refer future clients to this program due to the positive outcomes.

Basic Connections continues to be available upon request and through referral from Durham CAS.

Eat Play Love Support Group

In 2016, the YPCC released the research report entitled My Life My Voice, exploring the lived experiences of young parents in Durham Region. A key finding from the report revealed that young parents appreciate support services that are friendly, welcoming and easy-to-access, with skilled and compassionate providers. Equally important to young parents is accessing services with similar aged individuals, supporting the development of social networks. Identified barriers to accessing services include anxiety and fear of being judged, as well as lack of transportation and program restrictions. The availability of food, grocery vouchers and bus tickets were identified as incentives for accessing services among limited income young parents (My Life My Voice, 2016).

As a result of the My Life My Voice report, four agencies involved with the YPCC launched a 12-week support group called Eat Play Love. Carea Oshawa, Family and Community Action Program, Rose of Durham and DRHD collaborated to support vulnerable parents of any age, with children under the age of 6. The program runs Thursday evenings at an EOCFC in downtown Oshawa, which is a priority neighbourhood with high vulnerability in EDI domains. Clients are provided with a welcoming, safe environment where a hot meal is consumed together as a family. A PHN attends the program monthly to provide health teaching and programming on a variety of topics such as positive parenting, attachment, breastfeeding, and community referrals.

From September 28 to December 14, a total of **16** parents and **19** children attended Eat Play Love. Evaluation results indicated that clients:

- Felt welcomed;
- Enjoyed eating together as family;
- Liked connecting with other parents;
- Appreciated the support from knowledgeable and helpful service providers; and
- Enjoyed learning about health topics in an informal and comfortable environment.

With this positive preliminary feedback from participants, the four involved agencies have committed to continuing the program until June 2018.

Healthy Babies Healthy Children Program

The HBHC program is a program administered by PHUs across Ontario and consists of universal screening with targeted assessments and interventions for families and children from the prenatal period until their transition to school. As part of the HBHC program in Durham Region, PHNs and lay FVs provide supportive intervention to willing families identified with risk through a blended model of home visiting. PHNs and FVs work in partnership with identified families to develop and address goals related to healthy child development and effective parenting.

There are a number of factors that may put families at risk and present challenges for children to achieve their potential. Some of these include poverty, housing instability, social isolation, mental health concerns, substance misuse, family violence, low educational status and single parenthood. Screening is the first step in identifying families that may be at risk and who would benefit from a more in depth assessment. The screen consists of a series of 36 questions designed to identify a family's supports and challenges. Screening can be completed prenatally, postpartum and/or any time in early childhood up to the child's transition to school. Families can be referred to the HBHC program by a healthcare provider or can self-refer by calling the DHCL. Once a family is referred, they are screened by a PHN. Screening is also completed by hospital nurses and midwives for consenting families. In 2017, **5,151** HBHC screens were completed and of those **2,538 (49%)** were identified "with risk".

Once a family is identified with risk through the HBHC screen it is referred for an IDA with a PHN. In 2017, nurses were able to reach **1,557** of the families on the telephone that screened with risk and of those, **604** agreed to a home visit and had a completed IDA. The IDA consists of 23 standard questions. The aim of the IDA is to confirm risk and identify vulnerable families who would benefit from additional support through the blended home visiting program. A total of **409 (69%)** families were confirmed with risk on the IDA and referred to the BHV program. If a family declines the BHV program or is not confirmed with risk following the IDA it is offered health education and referrals as appropriate.

Families that enter the BHV program work with their PHN to identify specific goals of focus. There are 17 standard goals available for families to choose as well as an option to add unique goals as necessary. These goals make up the FSP. The five most commonly chosen goals among families in 2017 were:

1. Optimal Growth and Development (**69%**)
2. Healthy Attachment (**37%**)
3. Optimal Parental Health (**36%**)
4. Effective Breastfeeding Maintenance (**28%**)
5. Positive Parenting (**22%**)

FSP goals may be added or changed at any time and progress is monitored on a regular basis. A goal is closed upon discharge or when there is a need to change focus. At any

given time families will be working on 1 – 5 goals in their FSP. When goals are closed, goal completion status and level of achievement is documented using criteria set out by MCYS. Of the closed goals in 2017, **92%** were achieved or partially achieved and **8%** were not achieved or withdrawn.

Length of involvement in the HBHC program and frequency of visits is dependent upon individual family needs. In total there were **2,530** home visits completed by PHNs and **2,971** home visits completed by FVs in 2017.

Perinatal Mood Disorders Peer Support Group

PMDs are a common complication of the perinatal period. Prevalence of PMD is up to **20%** among pregnant women and those within the first year postpartum (Lee, Denison, Hor & Reynolds, 2016). Although PMD is not clinically different from mood disorders that occur during other life stages, it has significant ramifications for maternal and child health. Important psychological attachment between mother and infant is formed during the prenatal and postpartum period. Research indicates the absence of secure attachment and consistently responsive caregivers can negatively impact cognitive development (Lee et al., 2016; O'Hara, 2014).

Psychosocial interventions have been shown to be effective in treating PMD. Moreover, the availability of emotional and social support during the perinatal period has a significant role in the prevention of and recovery from PMD (Baumel & Schueller, 2016). To that end, DRHD conducts a weekly PMD peer support group at an EOCFC in Whitby with childcare available by EOCFC staff for children over the age of 12 months. In 2017, PHNs facilitated **49** PMD support groups with a total of **168** attendees. Evaluation results show that participants find the group helpful in their recovery journey and report increased knowledge and skills in coping with PMD.

In April 2017, a PMD support persons' session was conducted by PHNs as a means to provide information, resources and education for spouses, partners, family members and support persons. A partner's support may decrease the severity of PMD and accelerate a woman's recovery. Research suggests that **25 to 50%** of men whose partners suffer from PMD will experience a depressive episode of their own (Pacific Postpartum Society, 2015).

Respectfully submitted,

Original signed by

Jean Nesbitt
Director, Population Health Division
Chief Nursing Officer



Healthy Living

Report for November – December 2017

School Health

Schools are the ideal place to promote mental health in children and youth. DRHD continues to expand work with schools in promoting positive mental health and resilience using the comprehensive school health model. In 2017, PHNs supported **65** local schools in working towards creating a school environment supportive of mental health through collaboration with administrators, teachers, parents and students.

Stress can be beneficial for healthy functioning in small amounts, but it is well documented that too much stress and the inability to cope with stress can harm young people's physical and psychological well-being. In Durham Region, **37%** of secondary school students reported elevated psychological distress (OSDUHS, 2014/2015). PHNs continue to support schools by building educators' capacity to teach students how to recognize and manage stress in healthy ways using the Psychology Foundation of Canada's stress resources. In November and December 2017, a total of **26** educator workshops were delivered by PHNs to build educator capacity to teach stress management. A formal evaluation of this approach is ongoing and will continue through June 2018.

Healthy Living

Suicide Prevention

DRHD continues to address suicide prevention by working with community partners using a multi-faceted, strategic approach that includes mental health promotion, stakeholder collaboration, gatekeeper training and the promotion of help-seeking behaviours.

Through collaborative work with the YSPAG, **72** community members received SafeTALK gatekeeper training and **28** community members received ASIST in 2017. In addition to this, **30** DRHD PHNs received ASIST to support them in working with clients in the community. The YSPAG also developed the resource Media Guidelines for Reporting

Suicide to support safe reporting of suicide in Durham Region. The resource was disseminated to communication leads in organizations across the Region, including school boards, as well as to local media organizations.

A communication campaign was implemented December 12 – 31 to promote the Durham specific BeSafe App. The campaign set out to build awareness and educate youth and young adults about services available in the community, how to reach out for help and how to stay safe in a crisis. The App facilitates supportive steps to help youth and young adults be safe in a time of personal crisis and/or when suicidal. The Durham specific BeSafe App was promoted using DRT advertisements and Facebook/Instagram, reaching over **40,000** Facebook/Instagram users and resulting in over **2,000** link clicks on besafeapp.ca. An increase of **35** new BeSafe App users was noted during this time period.

Physical Activity Promotion

Many children, youth, and adults are not getting the recommended amount of daily physical activity for optimal health and well-being. Leisure time is often spent in sedentary pursuits such as TV watching, video games, or computer use. Currently only about half (**58%**) of Durham Region residents aged 12 and older report that they are active or moderately active during leisure-time (CCHS, 2013-2014). About half (**57%**) of Durham Region adults aged 18 and older and one quarter (23%) of Durham Region youth aged 12 – 17 are overweight or obese (CCHS, 2013-2014). In Durham Region, **60%** of secondary school students and **50%** of elementary school students exceed the recommended two hours of recreational screen time per day (OSDUHS, 2014-2015).

Physical activity is an important factor in preventing chronic disease such as high blood pressure, cardiovascular disease, various types of cancers, type 2 diabetes, osteoporosis, and obesity (Warburton et al., 2010). Even small amounts of physical activity can greatly improve health in those who are very inactive (Warburton et al., 2010). In children and youth, physical activity, including active play, is a key part of healthy growth and development. Getting enough physical activity is linked to better mental health, keeping a healthy body weight, improved academic performance, and physical literacy development (ParticipACTION, 2016). Active play, in particular, develops problem solving skills, enhances emotional well-being, and is linked to better social relationships (ParticipACTION, 2016).

As part of Canada's 150th anniversary, DRHD set a goal to support parents and children with simple ways to add more physical activity into their day and ultimately their year. Two social media campaigns were developed encouraging Durham Region residents to discover the fun of being active by trying outdoor activities in celebration of Canada's 150th birthday. The Canada 150 campaign messaging focused on providing residents with specific tips such as goal setting, tracking progress, trying new physical activities with friends, and linking residents to resources such as ParticipACTION's 150 playlist of activities. In both campaigns, exploring Durham Region trails was highlighted as a fun, low-cost activity that can be done in different seasons, at different intensities and with both friends and family.

During the Canada 150 summer campaign, social media messages were sent out on the Durham Healthy Families Facebook, Twitter, and Instagram platforms.

- Starting July 1, posts went out on Instagram for 10 consecutive days. Residents were invited to post why they enjoy being active outdoors and walking on Durham trails.
- A supporting post promoting walking on Durham trails was posted on Facebook and linked residents to the **10** day Instagram campaign.
- One promotional video promoting Durham Region trails was posted on the Facebook and Instagram platforms.
- A Canada 150 webpage was developed on the durham.ca/physicalactivity website and contained ideas for getting active as a family and links to activities happening in Durham Region.

The promotional video received **1,509** views on Facebook and **478** views on Instagram. The posts on Facebook reached **5,311** people, with **83** engagements, and were accessed **67** times. The Instagram posts received **1,156** likes. The result rate for the Instagram posts ranged from **25%** to over **35%** which is very positive.

A partnership was formed with Durham Tourism for the second campaign. The Rediscover Fall Photo Contest promoted the celebration of Canada 150 and trying new physical activities throughout the fall season. Residents were asked to share how they continue to stay active outdoors this season by posting photos on the DRHD social media pages. Winners of the contest will have their photo featured on the physical activity webpage.

- From October 20 to November 18, 17 messages were posted on each of the Durham Health social media platforms: Facebook, Twitter, and Instagram.
- During the campaign, **six** supporting posts to link users to the contest were featured on the Durham Healthy Families Facebook and Instagram pages.
- A new webpage on durham.ca/physicalactivity was created to promote the contest and provided links to physical activity tips, cycling maps, and the interactive trails map.

Highlights of the campaign included the reach on the Durham Health and Durham Healthy Families Facebook platforms which ranged from **356** to **4,451** people each day. Over the course of the campaign the Facebook posts received a total of **421** engagements. On the Durham Health Twitter platform, the number of impressions, or reach, totalled **11,934** and **128** engagements were received. The Instagram posts resulted in **272** likes. There were a total of **25** photos submitted by eight contestants and three winners were selected.

Respectfully submitted,

Original signed by

Jean Nesbitt
Director, Population Health Division
Chief Nursing Officer



Infectious Diseases

Report for November – December 2017

Immunization

Child Care and Early Years Act, 2014

In accordance with the CCEYA, operators of licensed child care centres are required to ensure that up-to-date immunization records are available for each child enrolled in their centres. Immunization records must be provided to DRHD, where they are assessed in accordance ISPA requirements.

Recent amendments to the CCEYA eliminated the option for parents to exempt their child from immunization requirements in writing. Instead, the MOE Statement of Conscience or Religious Belief affidavit and the MOE Statement of Medical Exemption form were introduced to strengthen the requirements for those who are not immunized. There was a **19%** decrease in exemptions submitted for conscience or religious reasons upon the introduction of the affidavit. The amount of children exempt from receiving routine mandatory vaccines may affect immunization coverage rates in the Region. Children with medical exemptions who cannot be vaccinated for medical reasons are at risk to be exposed to vaccine-preventable diseases if vaccine coverage rates are not high enough to prevent the spread of each disease.

Some parents of children attending child care centres have chosen to attend an in-person education session that is required for parents of school-aged children who are pursuing a philosophical exemption, in order to obtain additional information to guide their decision-making.

In Durham Region, vaccine coverage rates in the child care setting are assessed annually. In addition, annual meetings with child care operators are provided to review immunization recommendations and provide strategies and resources to promote vaccine coverage in their centres. Each child care centre has a PHN assigned to support immunization assessment and maintenance throughout the year.

In addition, child care operators are required to provide enrolment and immunization records monthly. This requirement supports DRHD to accurately maintain records on the

immunization status for children in child care centres throughout the Region. This information is used in the event of an outbreak to identify those who are risk for VPDs and to limit the spread of disease.

This past school year (2016/17) there were a total of **7,165** children enrolled in licensed child care centres. A total of **2,064** immunization notices were sent through child care centres to parents of children who were missing immunizations. The immunization compliance rate of these children in December 2016 prior to sending immunization notices was **64.9%**. This value represents the amount of children that are up-to-date on each of the required vaccines up-to-date or have a valid exemption on file. Upon completion of the immunization notice process and follow-up in June 2017, the compliance rate rose to **92.5%**.

The current immunization initiatives implemented in the child care population build the foundation for continued immunization throughout the lifespan. It is therefore important to ensure immunization compliance and coverage is maintained throughout child care centres in each neighbourhood.

Immunization in Priority Neighbourhoods

The introduction of immunization as a health indicator on DRHD's Health Neighbourhoods maps this past year has provided information about specific communities that may need additional immunization support to increase vaccine coverage. Planning is underway to explore additional interventions that could improve vaccine coverage in these priority neighbourhoods with lower vaccine coverage.

Current strategies to increase coverage rates include targeted community clinics such as flu clinics offered in EOCFCs in these neighbourhoods. Immunization clinics for priority populations were offered at Welcome Centres for newcomers in priority neighbourhoods and at secondary schools. Similarly, clinics were offered to students in alternative learning settings throughout the Durham Region. Other clinics offered by DRHD include catch-up clinics and school clinics for Grade 7 and 8 students. Residents without OHIP or access to a healthcare provider are offered publicly funded immunizations through DRHD clinics.

DRHD distributes vaccines to all healthcare provider clinics and walk-in clinics to maintain immunization access for residents throughout Durham Region and support community partners in providing immunizations to their clients.

Infectious Diseases Prevention and Control

Child Care Centres

Child care spaces and sites continue to grow with the additional provincial funding announced in 2017. It is anticipated that this will result in an additional 15 school-based sites in Durham Region that will need to be assessed and inspected this year.

IPAC Lapses

Ten complaints of IPAC lapses in PSS and health clinics resulted in **five** postings on the Region's website. The most common issue identified was improper cleaning and disinfection of implements and not properly discarding single-use items after use in accordance with provincial best practices.

The IPAC lapse reports for the dental clinics highlighted improper use and lack of required monitoring of the on-site sterilizers. PHIs issued HPPA Orders to both clinics to require proper policies and procedures to be in place and for staff to be trained on the proper use and monitoring of the sterilizers. These reports are posted on durham.ca.

Outbreak Summary

Between September to December, **39** outbreaks in institutions or community settings have occurred: **23** respiratory and **16** enteric. The causative agents include: no isolate (**29**), **four** each of influenza B and norovirus, and **one** RSV and **one** pending.

Personal Services Settings

HP is currently implementing a new database for all programs and inspections. The current *Know Before You Go* disclosure program results in a coloured sign (green, yellow or red) posted at the entrance to the establishment. The new OPHS require all inspection results to be posted on the Region's website similar to the established *DineSafe Durham*. Plans to post inspection results related to *Know Before You Go* will move forward in the first quarter of 2018 following implementation of an engagement and notification plan for owners and operators of these establishments.

Reportable Diseases

HP investigated **193** confirmed sporadic reportable diseases from September 1 to December 31. These include in descending order: campylobacter (**58**); **37** each of influenza and salmonellosis; giardiasis (**23**); Lyme disease (**19**); legionellosis (**five**); **three** each of hepatitis A and shigellosis; **two** each of amebiasis and typhoid fever; **one** each of cryptosporidiosis, malaria, WNV and yersiniosis.

Sexual Health Clinic Services

SHC services are offered to residents of Durham Region to promote healthy sexuality, and to prevent or reduce the burden of STIs and BBIs.

In 2017, SHC staff completed **12,569** in person and telephone interactions. This is an increase of **4%** from 2016 and **1,573** of these interactions were with clients residing in Durham Region priority neighborhoods. Services included STI counselling, testing and treatment, pregnancy testing, pregnancy options counselling, contraceptive counselling, contraceptive sales, pap testing, immunizations and referrals. A total of **2,777** new clients accessed services.

There was an increase in clients requesting STI and BBI testing in 2017 with **11,994** tests completed. This is an increase of **1,241** tests compared with 2016. Rates of chlamydia among SHC clients have remained steady over the past year with **420** cases compared to **410** cases in 2016. There was a slight increase in the number of gonorrhea cases in SHC clients up from **54** cases in 2016 to **61** cases in 2017. STI treatments were administered to **1,008** cases and contacts for both of these infections, a **9%** increase compared to 2016. Rates of syphilis have continued to climb in 2017. Among SHC clients, **50** cases were confirmed. A total of **91** syphilis treatments were administered compared to **42** in 2016.

PHNs utilized a number of strategies to increase awareness of SHC services available to clients, particularly those at risk and living in priority neighborhoods. Strategies included collaborating with community partners who service priority populations, attending community events, conducting health education sessions, utilizing social media, and providing SHC tours. One strategy was to provide on-site rapid HIV POC testing to priority populations. This year, POC testing was provided at the World Hepatitis Day event in a priority neighborhood, downtown Oshawa, in collaboration with Carea Community Health Centre. A total of **12** Durham Region residents took part in the testing. They agreed that having the on-site service available provided them with ease of access to testing and counselling. At DRHD SHC locations **260** POC tests were offered, representing **27%** of all HIV tests administered. Over **38,500** condoms were distributed to community partners/stakeholders to encourage safe sex practices for at risk clients.

Respectfully submitted,

Original signed by

Jean Nesbitt
Director, Population Health Division
Chief Nursing Officer

Original signed by

Ken Gorman
Director, Health Protection Division



Paramedic Services

Report for November – December 2017

Administration

Paramedic Services hosted the MOHLTC ASRT November 21 – 23. The review audited patient care activities, vehicle and equipment maintenance and certification as well as a review of HRI files to ensure compliance with MOHLTC standards and regulations. Positive feedback was received from the Team Lead on the review team during the exit interview. A final report is anticipated in March 2018.

Operations

RDPS has four new Superintendents that have joined the management team to replace those that have retired this past year.

Successful candidates to the positions are all certified ACPs and bring experience working in Operations, Quality and Development, Health and Safety and all have been educators at the College level in both Primary and Advanced Paramedic Programs.

Eleven PCPs that were selected to participate in the ACP training opportunity at Durham College this past year are all now fully certified ACPs and have been practicing unrestricted since October.

Logistics

Construction of the new Sunderland Paramedic Response Station will be delayed a further three weeks. It is anticipated that occupancy will take place by end of January.

The Stryker power cots have now been deployed to all front line paramedic transport units and have been well received by the paramedics.

Quality Development

All paramedics and members of the leadership team completed RDPS' in-house continuing education sessions which included an overview of public health competencies, a presentation on determinants of health, MOHLTC standards review and update as well as a table top 'live shooter' MCI exercise.

Respectfully submitted,

Original signed by

Troy Cheseboro
Chief/Director



The Regional Municipality of Durham Information Report

From: Commissioner of Finance
Report: #2018-INFO-16
Date: January 24, 2018

Subject:

Amendment to the Provincial Transit Expansion Funding Agreement for the Phase 1 Highway 2 Bus Rapid Transit Quick Win Project (PULSE)

Recommendation:

That Regional Council receive this report for information.

Report:

1. Purpose

1.1 The purpose of this report is to inform Regional Council of a second amendment to the Provincial Transit Expansion Funding Agreement for the Phase 1 Highway 2 Bus Rapid Transit (BRT) project (PULSE).

2. Background

- 2.1 In March 2008, the Province of Ontario approved \$82.3 million in grant funding for Durham's Region's Phase 1 Highway 2 BRT project. On January 27, 2010, Regional Council approved the execution of a funding agreement, which was subsequently executed in October 2010. The original executed funding agreement stipulated that all eligible project expenditures must be incurred by March 2016.
- 2.2 As project implementation progressed, it became apparent that additional Regional funding was required due to changes in project scope as well as a need to extend the project completion date from March 2016 to March 2018.
- 2.3 Subsequently, through previous Regional Council approvals, the Highway 2 BRT project currently has an approved total budget of approximately \$105.7 million (\$82.3 million in Provincial funding and \$23.4 million in Regional funding), an increase from \$94 million (2010). In addition, in February 2015, an amendment to the agreement was executed between the Region and the Province to extend the project completion date by two years, from March 2016 to March 2018.

3. Proposed Second Amendment to the Funding Agreement

3.1 To date, the following has been constructed and is operational:

- Highway 2 BRT lanes between Harwood Avenue to Salem Road (Ajax), Liverpool Road (Pickering), Brock Road (Pickering) and Westney Road (Ajax) have all been widened (including on road cycling lanes) and improved with traffic signal priority;
- Westney Facility and new Raleigh Maintenance Building at the Raleigh Facility site;
- All passenger amenities (shelters and pads) along the Highway 2 PULSE service;
- All Intelligent Transportation Systems (ITS) have been procured; and
- All 26 BRT buses were purchased and the PULSE service has been operating since July 2013.

3.2 Ongoing work includes:

- Whites Road along Highway 2 (Pickering) expected to be completed in Summer 2018; and
- Refurbishment of the existing Raleigh Facility as well as site work.

3.3 With all the Intelligent Transportation Systems having been procured, the Rapid Transit Office has identified there will be an estimated \$2.6 million in available remaining funding from this project sub component.

3.4 Regional staff through discussions with Provincial staff, have requested that the funding agreement be extended for one more year to March 2019 (from March 2018) to complete the work and that the remaining \$2.6 million from ITS be re-allocated to road improvements to expand the scope of work to include the following already approved PTIF projects:

- Construction of additional 650 metres of PULSE BRT lanes (with on road cycling lanes) between Westney and Harwood/Salem segments; and
- Completion of detailed design and utility relocations over a length of approximately 1.3 kilometres to enable the future expansion of PULSE BRT lanes between the Liverpool and Brock segments.

4. Conclusion and Next Steps

4.1 Regional staff will continue to work with the Province to finalize the draft amendment to the funding agreement. Once the amendment is satisfactory and is agreed to by the Region and the Province, the Regional Chair and Clerk will execute the amendment using previously approved authority.

4.2 A similar information report was provided to Transit Executive Committee on February 1, 2018.

Respectfully submitted,

Original Signed by

R.J Clapp, CPA, CA
Commissioner of Finance



Interoffice Memorandum

The Regional
Municipality of Durham
Health Department

605 ROSSLAND RD. E.
LEVEL 2
PO BOX 623
WHITBY, ON L1N 6A3
CANADA

905-668-7711
1-800-372-1102

durham.ca

Dr. Robert Kyle
Commissioner & Medical
Officer of Health

Date: January 26, 2018
To: Committee of the Whole
From: Dr. Robert Kyle
Subject: *Smoke-Free Ontario Act, 2017*

The Smoke-Free Ontario Act, 2017 (SFOA) – Schedule 3 to Bill 174 – received Royal Assent on December 12, 2017 and will come into force on a day to be proclaimed by the Lieutenant Governor. When the SFOA comes into force, it will repeal and replace the existing *Smoke-Free Ontario Act* and *Electronic Cigarettes Act, 2015*. The SFOA will regulate the sale, supply, use, display, and promotion of tobacco and vapour products and the smoking and vaping of medical cannabis.

The [proposed regulation](#) is posted on [Ontario's Regulatory Registry](#). In summary, the proposed regulation addresses:

- Places of use and exemptions for places of use;
- Places of sale;
- Flavoured tobacco and vapour products;
- Sale and supply to minors;
- Signs, display, promotion, packaging, health warnings;
- Procedures for employees;
- Home health-care workers; and
- Evidentiary presumptions for medical cannabis.

The Ministry of Health and Long-Term Care is soliciting feedback on the proposed regulation until March 3, 2018. The Durham Region Health Department is currently reviewing the proposed regulation to identify gaps and opportunities for input.

Respectfully submitted,

Original signed by

R.J. Kyle, BSc, MD, MHSc, CCFP, FRCPC, FACPM
Commissioner & Medical Officer of Health



TOWN OF LAKESHORE

419 Notre Dame St.
Belle River, ON N0R 1A0

January 16, 2018

All Ontario Municipalities

VIA EMAIL

To Whom It May Concern:

**RE: ALLOCATE INFRASTRUCTURE FUNDING DEDICATED TO
MUNICIPALITIES FOR STORM WATER MANAGEMENT AND
DRAINAGE IMPROVEMENTS**

At their meeting of November 7, 2017 the Council of the Town of Lakeshore duly passed the following resolution.

Councillor Wilder moved and Deputy Mayor Fazio seconded:

WHEREAS weather patterns seem to have changed, in that excessive and prolonged precipitation is now becoming more frequent and regular;

WHEREAS there is an increased chance of flooding, as result of excessive and prolonged precipitation;

WHEREAS municipalities are now faced with the reality that significant storm water management and drainage infrastructure improvements are required to mitigate against flooding, which will come at a significant cost;

WHEREAS it is not feasible for municipalities to pass along the costs of all storm water management and drainage improvements onto property owners through property tax increases or drainage assessments;

WHEREAS municipalities are almost entirely reliant upon property taxes for their funding needs; and

WHEREAS the Government of Canada and the Government of Ontario have recognized the need for infrastructure investments and have promised funding for these investments.

NOW THEREFORE BE IT RESOLVED that the Government of Canada and the Government of Ontario be urged to immediately allocate infrastructure funding dedicated to municipalities for storm water management and drainage improvements;

BE IT FURTHER RESOLVED that the Government of Canada and the Government of Ontario prioritize funding allocations according to the recent propensity of specific regions to flood, with a specific focus on regions that have flooded multiple times, within a 1 year period;

BE IT FURTHER RESOLVED that a copy of this motion be sent to the Right Honourable Justin Trudeau, Prime Minister of Canada, Mr. Andrew Scheer, Leader of the Conservative Party of Canada, Mr. Jagmeet Singh, Leader of the New Democratic Party of Canada, Ms. Elizabeth May, Leader of the Green Party of Canada, all Members of Parliament, the Honourable Kathleen Wynne, Premier of Ontario, Mr. Patrick Brown, Leader of the Progressive Conservative Party of Ontario, Ms. Andrea Horwath, Leader of the New Democratic Party of Ontario, and all Members of Provincial Parliament in Ontario; and

BE IT FURTHER RESOLVED THAT a copy of this Motion be sent to the Federation of Canadian Municipalities (FCM), the Association of Municipalities of Ontario (AMO) and all Ontario municipalities for their consideration.

Motion Carried Unanimously

Should you require any additional information with respect to the above matter, please contact the undersigned.

Yours truly,



Mary Masse
Clerk

/km

cc: Right Honourable Justin Trudeau, Prime Minister of Canada
cc: Honourable Kathleen Wynne, Premier
cc: Mr. Andrew Scheer, Leader of the Conservative Party of Canada
cc: Mr. Jagmeet Singh, Leader of the New Democratic Party of Canada
cc: Ms. Elizabeth May, Leader of the Green Party of Canada
cc: Hon. Patrick Brown, Leader of Progressive Conservative Party
cc: Hon. Andrea Horwath, Leader of New Democratic Party
cc: Members of Provincial Parliament in Ontario
cc: Federation of Canadian Municipalities (FCM)
cc: Association of Municipalities of Ontario (AMO)
cc: Via Email - All Ontario Municipalities



TOWN OF LAKESHORE

419 Notre Dame St.
Belle River, ON N0R 1A0

January 22, 2018

Right Honourable Justin Trudeau,
Prime Minister of Canada
Office of the Prime Minister
80 Wellington Street
Ottawa, ON K1A 0A2

Dear Prime Minister Trudeau:

RE: MARIJUANA TAX REVENUE

At their meeting of January 16, 2018 the Council of the Town of Lakeshore duly passed the following resolution.

577-01-2018 Councillor Wilder moved and Councillor McKinlay seconded:

It is recommended that:

WHEREAS marijuana will soon be available for purchase through retail outlets in Canada;

WHEREAS the sale of marijuana will generate new tax revenues;

WHEREAS the Government of Canada and the Government of Ontario have been actively discussing how to distribute the new tax revenues generated by the sale of marijuana;

WHEREAS the Government of Canada and the Government of Ontario have thus far not agreed to distribute any of the new tax revenues generated by the sale of marijuana to municipalities directly;

WHEREAS municipalities are responsible for critical infrastructure projects, such as roads, bridges, water treatment and delivery of potable water;

WHEREAS municipalities face a significant challenge in funding critical infrastructure projects and have limited options for increasing revenues, aside from raising property taxes, which negatively impacts all taxpayers; and

WHEREAS the new tax revenues generated from the sale of marijuana, could be used to help offset infrastructure costs for municipalities.

NOW THEREFORE BE IT RESOLVED that the Government of Canada and the Government of Ontario be urged to allocate a proportionate share of the new tax revenues generated from the sale of marijuana, to municipalities directly;

BE IT FURTHER RESOLVED that the Government of Canada and the Government of Ontario be urged to create a fund, similar to the Gas Tax Fund and the Clean Water and Wastewater Fund, from the new tax revenues generated by the sale of marijuana, to provide funding to municipalities for infrastructure projects;

BE IT FURTHER RESOLVED that a copy of this motion be sent to the Right Honourable Justin Trudeau, Prime Minister of Canada, Mr. Andrew Scheer, Leader of the Conservative Party of Canada, Mr. Jagmeet Singh, Leader of the New Democratic Party of Canada, Ms. Elizabeth May, Leader of the Green Party of Canada, all Members of Parliament, the Honourable Kathleen Wynne, Premier of Ontario, Mr. Patrick Brown, Leader of the Progressive Conservative Party of Ontario, Ms. Andrea Horwath, Leader of the New Democratic Party of Ontario, and all Members of Provincial Parliament in Ontario; and

BE IT FURTHER RESOLVED THAT a copy of this Motion be sent to the Federation of Canadian Municipalities (FCM), and the Association of Municipalities of Ontario (AMO) for their consideration.

Motion Carried Unanimously

Should you require any additional information with respect to the above matter, please contact the undersigned.

Yours truly,



Mary Masse
Clerk

/cl

cc: Honourable Kathleen Wynne, Premier of Ontario
cc: Mr. Andrew Scheer, Leader of the Conservative Party of Canada
cc: Mr. Jagmeet Singh, Leader of the New Democratic Party of Canada
cc: Ms. Elizabeth May, Leader of the Green Party of Canada
cc: Hon. Patrick Brown, Leader of Progressive Conservative Party
cc: Hon. Andrea Horwath, Leader of New Democratic Party
cc: Members of Provincial Parliament in Ontario
cc: Federation of Canadian Municipalities (FCM)
cc: Association of Municipalities Ontario (AMO)
cc: Via Email - All Ontario Municipalities



TOWN OF LAKESHORE

419 Notre Dame St.
Belle River, ON N0R 1A0

January 22, 2018

Honourable Kathleen Wynne, Premier
Legislative Building, Room 281
Queen's Park
Toronto, ON M7A 1A1

Dear Premier Wynne:

RE: POPULATION GROWTH PROJECTIONS

At their meeting of January 16, 2018 the Council of the Town of Lakeshore duly passed the following resolution.

576-01-2018 Councillor Wilder moved and Deputy Mayor Fazio seconded:

That:

WHEREAS municipalities are required to create and implement master plans and asset management plans, as part of prudent financial planning;

WHEREAS population growth projections and estimates are a key foundational component, relied upon in creating master plans and asset management plans, as part of prudent financial planning;

WHEREAS population growth projections and estimates are simply estimates of future events, often several years into the future, and are highly susceptible to ultimately being inaccurate, due to changes in circumstances, such as economic conditions and housing patterns;

WHEREAS both upper-tier municipalities and lower-tier municipalities often prepare their own growth projections and estimates, which can result in a significant discrepancy between their respective, anticipated population numbers in future years;

WHEREAS lower-tier municipalities are essentially forced to accept and rely upon upper-tier municipalities growth projections and estimates, regardless of whether those projections and estimates reflect reality; and

WHEREAS inaccurate growth projections and estimates, negatively impacts municipal financial planning, resulting in significant financial difficulties for municipalities.

NOW THEREFORE BE IT RESOLVED that the Government of Ontario be urged to grant more autonomy to lower-tier municipalities, to adopt and rely upon their own growth projections and estimates, especially for financial planning purposes;

BE IT FURTHER RESOLVED that the Government of Ontario be urged to create a mechanism, whereby lower-tier municipalities can more easily dispute growth projections and estimates of upper-tier municipalities;

BE IT FURTHER RESOLVED that the Government of Ontario be urged to require upper-tier municipalities to update growth projections and estimates, when reality indicates that the previous projections and estimates are inaccurate and unreliable;

BE IT FURTHER RESOLVED that a copy of this motion be sent to the Honourable Kathleen Wynne, Premier of Ontario, the Honourable Patrick Brown, Leader of the Progressive Conservative Party, the Honourable Andrea Horwath, Leader of the New Democratic Party, and all MPPs in the Province of Ontario; and

BE IT FURTHER RESOLVED THAT a copy of this Motion be sent to the Association of Municipalities of Ontario (AMO) and all Ontario municipalities for their consideration.

Motion Carried Unanimously

Should you require any additional information with respect to the above matter, please contact the undersigned.

Yours truly,



Mary Masse
Clerk

/cl

cc: Hon. Patrick Brown, Leader of Progressive Conservative Party
cc: Hon. Andrea Horwath, Leader of New Democratic Party
cc: Members of Provincial Parliament in Ontario
cc: Association of Municipalities Ontario (AMO)
cc: Via Email - All Ontario Municipalities

Afreen Raza

From: Scott Butler <scott@ogra.org>
Sent: January-17-18 4:08 PM
To: Clerks
Subject: OGRA Requests Support for MCEA Process Reform



ONTARIO GOOD ROADS ASSOCIATION
 1525 Cornwall Road, Unit 22
 Oakville, Ontario L6J 0B2
 Telephone 289-291-6472
 Fax 289-291-6477

C.S. - LEGISLATIVE SERVICES

Original	To: CIP
Copy	To: S.S. emailed on Jan 18, 18
C.C. S.C.C. File	
Take Appr. Action	

Wednesday, January 17, 2018

Patricia M. Madill
Regional Clerk
Regional Municipality of Durham

Good afternoon Patricia M.:

The following correspondence was sent to your Head of Council earlier this afternoon. OGRA respectfully requests that you please it on your next Council agenda for information.

Regards,

Scott R. Butler
OGRA, Policy and Research
22 - 1525 Cornwall Road, Oakville, Ontario L6J 0B2
T: 289-291-6472 Ext. 24 C: 416-564-4319 www.ogra.org

The Ontario Good Roads Association is seeking reforms to the Municipal Class Environmental Assessment (MCEA) process. In its current form the MCEA process has made municipal infrastructure projects longer in duration and more costly. The OGRA Board of Directors encourages all municipalities in Ontario to adopt the following resolution that calls on the Minister of the Environment and Climate Change to accelerate the Application for Review of the MCEA process.

Links to further background information about the Municipal Class Environmental Assessment process can be found below the resolution.

DRAFT RESOLUTION

Whereas a coalition of the Municipal Engineers Association (MEA) and the Residential and Civil Construction Alliance of Ontario have successfully applied to have a review of the Municipal Class Environmental Assessment process conducted under Part IV (Section 61) of the *Environmental Bill of Rights Act, 1993* (EBR Act);

And whereas impact studies and public meetings required by the MCEA process often take two years or more to complete before construction can commence;

And whereas the MCEA requirements to evaluate alternatives are often not well aligned with prior or municipal land use planning decisions;

And whereas analysis by the Residential and Civil Construction Alliance of Ontario (RCCAO) has demonstrated that the time to complete an EA rose from 19 months to 26.7 months and costs went from an average of \$113,300 to \$386,500;

And whereas the Auditor General of Ontario has tabled recommendations for modernizing the MCEA process;

And whereas in spite of written commitments made by the Ministry of the Environment between 2013-2015, no action has been taken;

And whereas local projects that do not have the necessary approvals could lose out on the next intake of Build Canada funding;

Therefore be it resolved that Regional Municipality of Durham requests that the Minister of the Environment and Climate Change take immediate steps to expedite the response process for Part II Orders or Bump-Up requests, as part of the s.61 review to improve MCEA process times and reduce study costs;

And further that the Minister of the Environment and Climate Change support changes to better integrate and harmonize the MCEA process with processes defined under the *Planning Act*;

And further that the Minister of the Environment and Climate Change amend the scope of MCEA reports and studies to reduce duplication with existing public processes and decisions made under municipal Official Plans and provincial legislation.

BACKGROUND INFORMATION

The following links provide a comprehensive background of the work that the Municipal Engineers Association and the Residential and Civil Construction Alliance of Ontario have done to advance this issue of MCEA reform.

- [October 2017 Correspondence from the Municipal Engineers Association and the Residential and Civil Construction Alliance of Ontario to the Hon. Chris Ballard, Minister of the Environment and Climate Change.](#)
- [ReNew Magazine editorial examining the need to review the Municipal Class Environmental Assessment process](#)

- The Development Approval Roundtable Action Plan, November 2017
- Meeting Notes from the November 29, 2017 Evolution of the MCEA Workshop.
- The MEA Companion Guide for the Municipal Class Environmental Assessment Manual
- Are Ontario's Municipal Class Environmental Assessments Worth the Added Time and Costs? The 2014 Edition

If you have any questions or concerns, please contact Scott Butler, OGRA's Manager of Policy and Research at 289-291-6472 ext. 24 or via email at scott@ogra.org.

Regards,



Scott R. Butler
OGRA, Policy and Research
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Scott Butler

The Regional Municipality of Durham

Minutes

Durham Trail Co-ordinating Committee

December 7, 2017

A meeting of the Durham Trail Co-ordinating Committee was held on Thursday, December 7, 2017, in Meeting Room 1-B, Main Level, Regional Headquarters, 605 Rossland Road East, Whitby, at 7:04 PM.

Present: T. Clayton, Chair, Brock
K. Jones, Vice Chair, Oshawa
J. Ballinger, Regional Councillor, Uxbridge
G. Lodwick, Local Councillor, Brock
I. McDougall, Scugog
A. Mujeeb, Pickering
D. Pickles, Regional Councillor, Pickering
C. Slaughter, Whitby
M. Weist, Ajax

Absent: J. Back, Local Councillor, Scugog
D. Carter, Regional Councillor, Oshawa
S. Collier, Regional Councillor, Ajax
P. Davidson, Clarington
Joe Neal, Regional Councillor, Clarington
E. Roy, Regional Councillor, Whitby
D. Taylor, Uxbridge

Staff

Present: S. McEleney, Planner, Planning and Economic Development
Department
C. Tennisco, Committee Clerk, Corporate Services – Legislative
Services

1. Adoption of Minutes

Moved by Councillor Ballinger, Seconded by C. Slaughter,
That the minutes of the regular meeting of the Durham Trail Co-
ordinating Committee held on September 7, 2017, be adopted.
CARRIED

2. Declarations of Interest

There were no declarations of interest.

3. Presentations

A) Regional Councillor David Pickles, re: The Great Trail Signage Program – City of Pickering

Councillor Pickles provided a PowerPoint presentation update on the signage and trail Improvement Project on the Great Trail. A copy of his presentation was provided as a handout.

Highlights of the presentation included:

- The Great Trail signage locations installed by the City of Pickering
 - Entrances into the Greenwood Conservation Lands at the Fifth Concession Road and Pickering Museum Village
 - Entrances into Claremont Conservation Area on Sideline 12 and at the Eighth Concession Road
 - Directional signs at road intersections including Paddock Road under the Highway 407
 - Directional signs Mid-block where deemed appropriate
- The Great Trail at Highway 407
 - Recent repairs by the Toronto and Region Conservation Authority (TRCA) and the Ministry of Transportation (MTO) heading north under the highway
 - Implementation of a switchback heading south under the highway

Discussion ensued regarding who made the trail signs for the City of Pickering Trails; and the reasons for the usage of various colours on the signs.

S. McEleney advised that the TRCA is currently seeking funding support from the Trillium Foundation which would contribute to completing a trail strategy to address some of the trail issues, including those in the Claremont Conservation Area addressed by Councillor Pickles.

Further discussion ensued and the following questions and comments were provided by the Committee on future trail projects:

- paved shoulders along the Fifth Concession Road in the Greenwood Conservation Area
- trail upgrades along Church Street, north of Taunton Road (Concession Road 3)
- trail sign, in the Town of Ajax, at Taunton Road heading to the Fifth Concession
- sign for the trail head entrance to the Trans Canada Trail at Highway 7 and Paddock Road
- expansion of Trail from the Pickering Museum to Westney Road, and, north to the 7th Concession Road

Councillor Pickles responded to questions from the Committee.

B) Bruce MacDonald, Chair, Whitby Active Transportation and Safe Roads Advisory Committee, re: Durham Region Cycling Coalition – Post Way-Finding

B. MacDonald provided a PowerPoint presentation on the Whitby Active Transportation and Safe Roads Advisory Committee. A copy of his presentation was provided as a handout.

B. MacDonald provided a hands-on demonstration of the Strava Global heatmap phone app. He advised the Strava mapping defines active transportation corridors, forest areas and trail details including post wayfinding markings.

B. MacDonald provided an overview of the Green Durham Association mapping and the post markings utilized by this Association. He advised that the angle side of the post always marks “north”, providing trails users with a reference point in the event of an emergency, and a wayfinding reference while enjoying the trails.

B. MacDonald displayed a list of the “done” and “outstanding” post markings within Durham Region.

Discussion ensued regarding the marked signs along the Joseph Kolodzie Oshawa Creek Bike Path; the regulatory standards and guidelines to identify post marking by Parks Canada and the conservation authorities; and the potential usage of URL codes to provide the public with additional local information such as restaurants.

Councillor Pickles advised that a meeting has been arranged with Central Lake Ontario Conservation Authority in regards to Whitby specific trail matters. It was suggested a copy of the presentation also be provided to the local municipalities and conservation authorities within the Region.

B. MacDonald responded to questions regarding how the trails users can comfortably cross the Durham / York Road boundary (Wagg Road / Durham Road 30); Pickering being the east / west trail gateway; and the resurfacing of Zephyr Road at the train tracks.

Discussion ensued regarding whether a municipality can utilize the Strava Global heatmap dataset to download past collected data, and as a new tool for future route planning as part of the active transportation plan; the active transportation data collected by the Town of Whitby since 2015; and the potential for wayfinding signage initiatives at established key locations in Scugog.

S. McEleney advised that the Region has been approached regarding the downloading of data and is currently in the early stages of discussions regarding entering into an agreement with a local area municipality.

4. Discussion Items

A) Draft 2018 Durham Trail Co-ordinating Committee Workplan – Scope of Activities

A copy of the 2018 DTCC Workplan was received as Attachment #2 to the agenda. S. McEleney advised that the draft 2018 Workplan outlines the scope of activities to reflect the direction of the Region of Durham and to provide guidance for the transition of the Committee.

K. Jones and I. McDougall provided an overview of the changes to the draft 2018 Durham Trail Co-ordinating Committee (DTCC) Workplan.

K. Jones reviewed the on-going transformation of the Committee's mandate to re-identify the DTCC as the Durham Active Transportation Committee (DATC); and changing the wording of the Workplan to reflect broadening the Committees' domain and goals to focus on, and promote all means of active transportation, including the trails.

I. McDougall updated the Committee on the transitional opportunities and target initiatives to achieve the Bronze level status; the continued implementation of the existing trail networks; support for active and safe routes to schools; and the need to conduct an annual review of the future DTCC / DATC Workplans to guide the Committee's activities.

Discussion ensued regarding the collaborative role and effort the DTCC has played in assisting in the planning of trails and trail connections with the area municipalities in Durham Region; shifting the focus to encompass all active modes of transportation, including transit, while keeping pedestrian and cycling trails active; and ensuring that the Committee members selected recognize the differing needs of all active transportation users within the urban and rural areas.

Moved by G. Lodwick, Seconded by C. Slaughter,
That we recommend to the Committee of the Whole for approval
and subsequent recommendation to Regional Council:

That the 2018 Durham Trail Co-ordinating Committee Workplan, as amended, be approved.

CARRIED

5. Information Items

A) Transportation Master Plan Update Study – Final Transportation Master Plan (2017-COW-268)

A copy of Report #2017-COW-268 of the Commissioners of Planning and Economic Development and Works was received as Attachment #3 to the agenda.

B) Transit Advisory Committee Minutes September 19, 2017

A copy of the Transit Advisory Committee minutes of June 6, 2017 was received as Attachment #4 to the agenda.

C) Accessibility Advisory Committee Minutes, November 28, 2017

S. McEleney advised that a copy of the Accessibility Advisory Committee minutes were unavailable for the agenda print timeline.

Moved by C. Slaughter, Seconded by G. Lodwick,
That Information Items A) and B) be received for information.
CARRIED

6. Other Business

A) Proposed 2018 DTCC Meeting Schedule

S. McEleney provided an overview of the proposed 2018 DTCC Meeting schedule. Discussion followed on the proposed meeting dates and the upcoming Municipal Elections being held on October 22, 2018.

It was the consensus of the Committee that first meeting in 2018 be held on February 1, 2018; that the March meeting be rescheduled to May 3, 2018; and that the proposed June 14, 2018 meeting be cancelled.

S. McEleney advised that staff will review these dates with Legislative Services.

B) Ontario Municipal Commuter Cycling (OMCC) Program: Grants Ontario

S. McEleney provided an update on the OMCC program available to municipalities.

I. McDougall advised that OMCC is supported by monies from the Ontario cap and trade program; and that municipalities may receive funding of up to 80% of their costs for the implementation of eligible commuter cycling projects. Discussion followed on the opportunities available for municipalities to reach out and work collaboratively on joint projects.

S. McEleney advised that staff will report back at the next meeting on the outcome of the Province's pending announcement on which projects will be supported for OMCC funding.

C) Availability of Phones on the Trail Networks

A. Mujeeb suggested that the Committee review options for alternate communication initiatives along the trail networks, particularly in cell phone dead zones, in the event of an emergency.

The Chair reviewed the associated risk factors involved when a person decides to partake in outdoor adventures such as snowmobiling, all-terrain vehicles (ATV), skiing, trails and water sports.

S. McEleney advised that she will follow up with area municipal staff on any potential initiatives to assist with communications along the trail network in Durham Region.

D) Carol Slaughter – Resignation

C. Slaughter announced that she is resigning from the Durham Trail Coordinating Committee.

Chair Clayton thanked C. Slaughter for all her work on the Committee.

7. Next Meeting

The next regularly scheduled meeting of the Durham Trail Coordinating Committee will be held on Thursday, February 1, 2018, in Room 1-B, Regional Headquarters Building, 605 Rossland Road East, Whitby, at 7:00 PM.

8. Adjournment

Moved by Councillor Ballinger, Seconded by C. Slaughter,
That the meeting be adjourned.

CARRIED

The meeting adjourned at 8:49 PM.

T. Clayton, Chair,
Durham Trail Coordinating Committee

C. Tennisco, Committee Clerk

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2097.

The Regional Municipality of Durham

MINUTES

DURHAM AGRICULTURAL ADVISORY COMMITTEE

January 16, 2018

A regular meeting of the Durham Agricultural Advisory Committee was held on Tuesday, January 16, 2018 in Boardroom 1-B, Regional Municipality of Durham Headquarters, 605 Rossland Road East, Whitby at 7:30 PM

Present: E. Bowman, Clarington
Z. Cohoon, Federation of Agriculture, Chair
J. Henderson, Oshawa
B. Howsam, Member at Large
K. Kemp, Scugog, attended the meeting at 7:32 PM
K. Kennedy, Member at Large
G. O'Connor, Regional Councillor
F. Puterbough, Member at Large, Vice-Chair
D. Risebrough, Member at Large
H. Schillings, Whitby
B. Smith, Uxbridge
G. Taylor, Pickering, attended the meeting at 8:20 PM
T. Watpool, Brock, Vice-Chair

Absent: I. Bacon, Member at Large
D. Bath, Member at Large
B. Winter, Ajax

Staff

Present: K. Kilbourne, Project Planner, Department of Planning and Economic Development
N. Prasad, Committee Clerk, Corporate Services – Legislative Services

1. Election of Officers for 2018

K. Kilbourne called for nominations for the position of Chair of the Durham Agricultural Advisory Committee.

Moved by Councillor O'Connor, Seconded by E. Bowman,
That Z. Cohoon be nominated for the position of Chair of the Durham Agricultural Advisory Committee.

Moved by E. Bowman, Seconded by F. Puterbough,
That nominations be closed.

CARRIED

K. Kilbourne asked if Z. Cohoon wished to stand. Z. Cohoon indicated he would stand.

Z. Cohoon was acclaimed as the Chair of the Durham Agricultural Advisory Committee.

K. Kilbourne called for nominations for the two Vice-Chair positions of the Durham Agricultural Advisory Committee.

Moved by Councillor O'Connor, Seconded by H. Schillings,
That F. Puterbough and T. Watpool be nominated for the positions of first and second Vice-Chairs, respectively, of the Durham Agricultural Advisory Committee.

Moved by D. Risebrough, Seconded by K. Kemp,
That nominations be closed.

CARRIED

K. Kilbourne asked if F. Puterbough and T. Watpool wished to stand. F. Puterbough and T. Watpool indicated they would stand.

F. Puterbough and T. Watpool were acclaimed as the first and second Vice-Chairs, respectively, of the Durham Agricultural Advisory Committee.

Z. Cohoon, Chair, assumed the Chair for the remainder of the meeting.

2. Adoption of Minutes

Moved by F. Puterbough, Seconded by K. Kennedy,
That the minutes of the Durham Agricultural Advisory Committee meeting held on December 5, 2017 be adopted.

CARRIED

3. Declarations of Interest

There were no declarations of interest.

4. Presentation

A) Heather McMillan, Durham Workforce Authority, Local Employment Planning Council (LEPC) Update

H. McMillan provided a PowerPoint Presentation regarding the Durham Workforce Authority.

H. McMillan provided an overview of the mandate of the Durham Workforce Authority. She stated that the Durham Workforce Authority connects employers, industry associations, sector groups and other employer groups with employment and training services. She advised that they undertake research on local employment trends, participate in business retention and expansion projects, lead and participate in other local employment projects or programs, and are continuously expanding their scope. She also advised that the following surveys were undertaken in 2017:

- Durham Region Workforce Survey
- Durham Region Employer Survey
- North Durham Employer Survey
- North Durham Community Survey
- Durham Under 30 Survey

H. McMillan also stated that the Durham Workforce Authority recently launched its software app as well as a data portal in November 2017 which provides the community with easy to understand local labour market information. She stated that the portal will have information on unemployment, education, employers and custom data created by the surveys.

H. McMillan responded to questions with regards to the high unemployment rate for people under 30; the possibility of providing assistance to guidance counsellors to better steer school kids towards employment in the agricultural sector, not just limited to traditional farming; promotion of the Durham Workforce Authority data portal; education in the agriculture sector; and obstacles involved in retaining high school co-op students to work on farms.

5. Discussion Items

A) Scan of Municipal Sign By-laws – Provisions for Agricultural Operations

K. Kilbourne advised that staff is continuing to look into options with regards to pursuing this matter and will provide an update at a later meeting.

B) Climate Change Agricultural Task Force Update

K. Kilbourne advised that there was no update to provide at this time. She advised that the first meeting will likely be scheduled for late February of early March 2018.

C) Joint Workshop with DEAC Update

Z. Cohoon advised that a subcommittee meeting was held on January 16, 2018. He advised that invitations and agendas for the Agriculture-Environment Climate Change Symposium have been sent out and that the meeting is being held at the Scugog Community Recreation Centre in Port Perry, on February 9, 2018.

D) 2018 DAAC Farm Tour

It was the consensus of the committee that Z. Cohoon, D. Risebrough, K. Kemp, F. Puterbough, and B. Smith form a subcommittee to discuss further details regarding the Tour. Discussion ensued with regards to the 2018 DAAC Farm Tour and possible locations, themes, and inclusion of all aspects of the agricultural service and supporting industries. Possible dates were discussed and it was the consensus of the committee that September 13, 2018 should be tentatively booked as the date for the Farm Tour.

E) Rural and Agricultural Economic Development Update

K. Kilbourne provided the following update on behalf of N. Rutherford, Manager, Agriculture and Rural Affairs, Department of Planning and Economic Development:

- The official media release announcing the Local Food Business Retention and Expansion Project was released on January 15, 2018. Volunteers are needed to conduct business interviews which are scheduled to start the week of February 26, 2018 as well as participants.
- Farms at Work is hosting a Farmland: Using it, Losing it & Protecting it workshop on February 1, 2018 in Millbrook. Speakers include: W. Caldwell, University of Guelph; P. Learmonth, Farms at Work; K. Enders, Ontario Farmland Trust; and OMAFRA representatives.
- There are two Ontario Soil and Crop Workshops being held at Region of Durham headquarters as follows: Growing Your Farm Profits (January 31, February 8 and 14, 2018) and Food Safety (February 21 and 28, 2018). K. Kilbourne will provide the registration link.
- The City of Kawartha Lakes is hosting an Unraveling the Red Tape: Food Regulations and On-Farm Building/Planning By-laws Workshop on January 26, 2018 in Little Britain. K. Kilbourne will provide the registration link.

- The Agri-Food Management Institute's Bon Appetite – Food Business Conference is scheduled for February 8 to 10, 2018 at the Best Western Plus Cobourg Inn and Convention Centre. K. Kilbourne will provide the registration link.

6. Information Items

A) Durham Agricultural Advisory Committee 2017 Annual Report and 2018 Workplan (2018-COW-7)

A copy of Report #2018-COW-7 of the Commissioner of Planning and Economic Development regarding Durham Agricultural Advisory Committee 2017 Annual Report and 2018 Workplan was provided as Attachment #2 to the Agenda. Councillor O'Connor thanked Z. Cohoon for his knowledge and expertise as demonstrated at his annual update at the January 10, 2018 Committee of the Whole meeting.

B) Solid Waste Management Servicing and Financing Study, Re: Bale Wrap (2018-COW-11)

A copy of Report #2018-COW-11 of the Commissioners of Finance and Works regarding the 2018 Solid Waste Management Servicing and Financing Study was provided as Attachment #3 to the Agenda. K. Kilbourne stated that Report #2018-COW-11 speaks to changes related to the collection of bale wrap at municipal waste disposal facilities. She advised that there will be a staff member from the Works Department at the next meeting to provide further information.

7. Other Business

A) Declarations of Interest Forms

Councillor O'Connor advised that there is a new Declarations of Interest Form that was approved at the December 13, 2018 Regional Council meeting. It was discussed that the form has to be submitted when a declaration of interest is made at a meeting.

B) DEAC Environmental Achievement Awards

K. Kilbourne advised that nominations for the DEAC Environmental Achievement Awards are due by March 2, 2018 and that copies of the nomination form will be provided by email.

8. Date of Next Meeting

The next regular meeting of the Durham Agricultural Advisory Committee will be held on Tuesday, February 13, 2018 starting at 7:30 PM in Boardroom 1-B, Level 1, 605 Rossland Road East, Whitby.

9. Adjourment

Moved by D. Risebrough, Seconded by G. Taylor,
That the meeting be adjourned.

CARRIED

The meeting adjourned at 8:50 PM

Z. Cohoon, Chair, Durham
Agricultural Advisory Committee

N. Prasad, Committee Clerk

The Regional Municipality of Durham

MINUTES

DURHAM ENVIRONMENTAL ADVISORY COMMITTEE

January 18, 2018

A regular meeting of the Durham Environmental Advisory Committee was held on Thursday, January 18, 2018 in Boardroom 1-B, Regional Municipality of Durham Headquarters, 605 Rossland Road East, Whitby at 7:03 PM.

Present: S. Clearwater, Whitby, Member at Large
C. Duffy, Post-Secondary Member
J. Henry, Regional Councillor, City of Oshawa
C. Junop, Youth Member
G. Layton, Uxbridge, Member at Large
W. Moss-Newman, Oshawa, Member at Large
C. Pettingill, Second Vice-Chair, Brock
E. Porter, Youth Member
K. Sellers, First Vice-Chair, Ajax
D. Stathopoulos, Member at Large

Absent: H. Manns, Chair, Clarington
G. Carpentier, Scugog
O. Chaudhry, Pickering
K. McDonald, Uxbridge
K. Murray, Clarington, Member at Large
M. Thompson, Ajax, Member at Large

Staff

Present: A. Bathe, Project Planner, Planning & Economic Development Department
S. McEleney, Planner, Planning & Economic Development
S. Penak, Committee Clerk, Corporate Services – Legislative Services
C. Tennisco, Committee Clerk, Corporate Services – Legislative Services

In the absence of the Chair, K. Sellers, First Vice-Chair, assumed the Chair.

1. Approval of Agenda

Moved by Councillor Henry, Seconded by C. Pettingill,
That the agenda for the January 18, 2018, DEAC meeting, as
presented, be approved.

CARRIED

2. Declarations of Interest

There were no declarations of interest.

3. Adoption of Minutes

Moved by Councillor Henry, Seconded by S. Clearwater,
That the minutes of the regular DEAC meeting held on Thursday,
November 23, 2017 be adopted.
CARRIED

4. Presentations

A) Ian McDougall, Durham Trail Co-ordinating Committee (DTCC) Member and Sandra McEleney, Planner, Planning & Economic Development and Staff Liaison to the Durham Trail Co-ordinating Committee (DTCC), re: Durham Active Transportation Committee Update

I. McDougall and S. McEleney provided a presentation titled 2018: A Year in Transition, Durham Active Transportation Committee (DATC).

Highlights from the presentation included:

- What is active transportation?
- What is a trail?
- What do we have in common?
 - DEAC & DATC
- Fitting into the greater Region
 - Metrolinx, the GTHA's regional transportation authority
 - Recently completed Draft Regional Transportation Plan (RTP)
- DATC- A brief history of progress
- Trails & Cycling: together at last
- Continued partnerships
- DEAC & DATC discussion
- Closing

I. McDougall advised that the Durham Trail Co-ordinating Committees' new mandate reflects the transition to a committee focused on active transportation and being renamed the Durham Active Transportation Committee. He explained active transportation to be all human-powered forms of travel such as: walking, cycling, inline skating, skateboarding, skiing, and canoeing. He stated it also includes manual and power assisted mobility devices.

I. McDougall noted that there needed to be a definition for what a trail is. He stated as per Ontario Trails Council, a trail is defined as a trail route on land or water with protected status and public access for recreation or transportation purposes. Activities that are typically performed along a trail can include: walking; jogging; motorcycling; hiking; bicycling; horseback riding; mountain biking; canoeing; kayaking; snowmobile or ATV driving; bird watching; nature observation; or backpacking.

Discussion ensued regarding the Ontario Municipal Commuter Cycling (OMCC) Program available to municipalities. Councillor Henry advised that OMCC funding is supported by the Ontario cap and trade program and that municipalities may receive funding of up to 80% of their costs for the implementation of eligible commuter cycling projects. Further discussion followed on the potential 2018 OMCC funding opportunities still available to the municipalities.

I. McDougall responded to questions from the Committee regarding multi-modal transportation; emerging transit trends when planning future trails; municipalities that have applied for and received cap and trade funding; additional improvements to the Bayly street corridor; and vehicle congestion during drop-off and pick-up at schools and possible solutions.

The Committee was asked to email A. Bathe with any further comments on active transportation initiatives.

5. Items for Action

A) DEAC Introductions for new Student Members

A. Bathe introduced the new Youth and Post-Secondary members to the Committee; Eden Porter and Connor Duffy. At the request of the Chair, the Committee members provided a brief summary of their background and interests.

B) Update on 2018 DEAC Awards Nomination Form

A. Bathe provided an update regarding the 2018 DEAC awards. She informed the Committee that the call for nominations has been issued and the forms are available on the Regional website and can be forwarded on. She noted the Awards Reception will be held May 30, 2018 at 6:30 PM.

C) Establish Subcommittee to review 2018 DEAC Awards Nominations

A. Bathe advised that an Environmental Achievement Awards sub-committee is required to assess the nominations received and recommend recipients for the 2018 Environmental Achievement Awards categories. A. Bathe clarified that a nomination can be made for a non-Durham resident as long as the project was completed in Durham.

Moved by Councillor Henry, Seconded by D. Stathopoulos,
That K. McDonald, C. Pettingill, C. Duffy, and C. Junop be
appointed to the sub-committee to review the nominations
received for the Environmental Achievement Awards.

CARRIED

D) 2018 Presentations Update

A. Bathe advised the Committee that she has followed up with management staff regarding a presentation on anaerobic digestion at a future DEAC meeting.

A. Bathe noted that the June DEAC meeting is expected to be held off-site at the Centre for Food – Durham College and that more details are to come.

Councillor Henry suggested that staff from the Works Department present to the Committee on the new Recycling Program and rules.

6. Items for Information

A) Commissioner's Report #2017-INFO-140 – Durham Region Roundtable on Climate Change 2017 Annual Report

A copy of Report #2017-INFO-140 of the Director of Corporate Policy and Strategic Initiative was received as Attachment #2 to the agenda.

Discussion ensued regarding Forest Ontario's 5 Million Tree Program in Durham; the challenges faced in meeting the 5 million tree goal; and the benefits of using lighter colour roofing materials.

B) Commissioner's Report 2017-INFO-141 – Durham York Energy Centre Compliance Source Test Update

A copy of Report #2017-INFO-141 of the Commissioner of Works was received as Attachment #3 to the agenda.

Councillor Henry informed the Committee that at the Regional Council meeting held January 17, 2018, Council adopted the resolution from the Energy from Waste-Waste Management Advisory Committee that their meetings be live streamed.

C) Commissioner's Report #2017-INFO-142 – Lake Simcoe Region Conservation Authority Lake Simcoe Phosphorus Offset Program

A copy of Report #2017-INFO-142 of the Commissioner of Planning and Economic Development was received as Attachment #4 to the agenda.

D) Commissioner's Report #2017-INFO-146 – Monitoring of Land Division Committee Decisions of the November 6, 2017 meeting

A copy of Report #2017-INFO-146 of the Commissioner of Planning and Economic Development was received as Attachment #5 to the agenda.

Discussion ensued regarding the local Committee of Adjustment meetings and the significance of the pre-consultation process.

E) Commissioner's Report #2017-INFO-148 – AgRural Newsletter December 2017

A copy of Report #2017-INFO-148 of the Commissioner of Planning and Economic Development was received as Attachment #6 to the agenda.

7. Other Business

A) Bee City Canada Application

A. Bathe noted that Whitby recently submitted an application to Bee City Canada to become a Bee City that pledges to protect pollinators and their habitats.

Councillor Henry noted that the City of Oshawa is doing its part to bring back monarch butterflies with the planting of milkweed and complementary native pollinator flowers and shrubs.

B) Durham Climate Change Symposium

A. Bathe updated the Committee about the Durham Climate Change Symposium being held at the Scugog Community Recreation Centre in Port Perry. She advised that they are accepting registrations for interested individuals until February 2, 2018. She noted that they have received 60 registrations to date that include Garry Cubitt, Chief Administrative Officer, and numerous Regional Councillors, local Councillors, and provincial staff among others.

C) Port Granby Project Citizen Liaison Group (CLG)

S. Clearwater advised the Committee that she has submitted her application to be a volunteer for the Port Hope Area Initiative, an environmental clean-up project.

D) Forests Ontario Annual Conference

K. Sellers informed the Committee that she will be attending the Forests Ontario Annual Conference on February 9, 2018 at the Nottawasaga Inn in Alliston, Ontario, and therefore sends her regrets for the Durham Climate Change Symposium on February 9, 2018.

8. Next Meeting

The next regular meeting of the Durham Environmental Advisory Committee will be held on Thursday, February 15, 2018 starting at 7:00 PM in Boardroom 1-B, Level 1, 605 Rossland Road East, Whitby.

9. Adjournment

Moved by Councillor Henry, Seconded by D. Stathopoulos,
That the meeting be adjourned.

CARRIED

The meeting adjourned at 8:33 PM

K. Sellers, First Vice Chair, Durham
Environmental Advisory Committee

S. Penak, Committee Clerk

DURHAM NUCLEAR HEALTH COMMITTEE (DNHC) MINUTES

Location Durham Regional Headquarters
605 Rossland Road East, Whitby
Meeting Room LL-C

Date January 19, 2018

Time 1:00 PM

Host Durham Region Health Department (DRHD)

Members

Dr. Robert Kyle, DRHD (Chair)
Ms. Mary-Anne Pietrusiak, DRHD
Mr. Ken Gorman, DRHD
Dr. Tony Waker, University of Ontario Institute of Technology
Mr. Raphael McCalla, Ontario Power Generation (OPG)
Mr. Phil Dunn, Ontario Ministry of the Environment and Climate Change
Dr. David Gorman, Public Member
Dr. Lubna Nazneen, Public Member
Mr. Marc Landry, Public Member
Mr. Hardev Bains, Public Member
Dr. Barry Neil, Public Member

Presenters/Observers

Mr. Brian Devitt (Secretary)
Ms. Carrie-Anne Atkins, OPG (Presenter)
Mr. Ian Azevedo, OPG (Presenter)
Mr. Adrian Nalasco, Ontario Ministry of Energy (Presenter)
Mr. Warren Leonard, Durham Emergency Management Office (DEMO)
(Presenter)
Ms. Amy Burke, Municipality of Clarington
Ms. Janet McNeill, Durham Nuclear Awareness (DNA)
Ms. Lynn Jacklin, DNA
Ms. Lydia Skirko, Whitby Resident
Ms. Linda Gasser, Whitby Resident
Ms. Libby Racansky, Clarington Resident
Ms. Sharon Gawtreay, Parkcrest Tenants, Toronto Resident
Mr. Robert Dixon, Ajax Resident
Mr. A.J. Kehoe, Durham Region Resident

Regrets

Ms. Janice Dusek, Public Member
Ms. Veena Lalman, Public Member

Dr. John Hicks, Public Member

Robert Kyle opened the meeting and welcomed everyone.

1. Approval of Agenda

The Revised Agenda was adopted.

2. Approval of Minutes

The Minutes of November 17, 2017 were adopted as written.

3. Correspondence

- 3.1.** Robert Kyle's office received Minutes of the Pickering Nuclear Generating Station (NGS) Community Advisory Council meeting held on October 17, 2017.
- 3.2.** Robert Kyle's office received an information release by the Ontario Government concerning the release of its *2017 Long-Term Energy Plan* dated October 26, 2017.
- 3.3.** Robert Kyle's office received a media release by OPG concerning its launch of the *Exercise United Control*, a multi-jurisdictional nuclear emergency preparedness exercise, scheduled for December 6 and 7, 2017 at the Pickering NGS dated November 14, 2017.
- 3.4.** Robert Kyle's office received a letter of resignation from Chris Weigel, Public Member for Whitby, due to his recent career change that required him to move from his home in Durham Region dated November 17, 2017.
- 3.5.** Robert Kyle's office received a media release by the Financial Accountability Office of Ontario announcing its report *An Assessment of the Financial Risks of Nuclear Refurbishment* dated November 21, 2017.
- 3.6.** Robert Kyle's office received a media release from the Canadian Nuclear Safety Commission (CNSC) concerning their decision to amend the nuclear power reactor operating licences for the Darlington and Pickering NGSs to include the import and export of nuclear substances in contaminated laundry, packaging, shielding and equipment dated November 21, 2017.

- 3.7. Robert Kyle's office received a newsletter from OPG concerning the progress of the Darlington Refurbishment Project dated November 28, 2017.
- 3.8. Robert Kyle's office received a media release by CNSC concerning their participation in the full scale, multi-jurisdictional nuclear exercise, *Exercise Unified Control*, to be led by OPG and the exercise will be conducted in a lead-up to the relicensing of the Pickering NGS in 2018 dated December 5, 2017.
- 3.9. Robert Kyle's office received a media release by the Ministry of Community Safety and Correctional Services, Office of the Fire Marshal and Emergency Management (OFMEM), concerning the release of their updated Provincial Nuclear Emergency Response Plan dated December 21, 2017.

4. Presentations

4.1. **Progress report by the Ontario Ministry of Energy concerning their 2017 Long-Term Energy Plan and expectations for the Darlington and Pickering NGSs**

Adrian Nalasco, Director, Nuclear Supply, Ontario Ministry of Energy, provided a detailed presentation concerning Ontario's Nuclear Sector of the 2017 Long-Term Energy Plan (LTEP).

Adrian provided an overview of Ontario's 2016 energy supply mix that included:

- Nuclear 53.5%
- Water 21.3%
- Natural Gas 7.5%
- Wind 6.2%
- Solar 2.0%
- Biomass 0.4%
- Other 0.4%
- Conservation 8.6%

Adrian provided an overview of the current and long-term commitment to nuclear energy in Ontario that included:

- There are 18 operational reactor units at Darlington, Pickering and Bruce NGSs with a capacity of approximately 13,000 MW.

- Ontario has committed to retain approximately 10,000 MW of nuclear capacity over the long-term considering Pickering NGS is targeted for shutdown by 2024.
- The provincial government has deferred its decision on building any new nuclear reactors due to Ontario's strong supply situation.
- The 2013 LTEP renewed the government's commitment to maintain nuclear as the single largest generation source providing approximately 50% of Ontario's electricity generation long-term.
- The 2017 LTEP re-affirmed that nuclear refurbishment is the most cost-effective option for baseload generation and Ontario is moving forward with the refurbishment of 10 reactor units at Darlington and Bruce NGSs as laid out in the 2013 LTEP.
- Ontario will continue to have a flexible electricity system and to accommodate and benefit from emerging technologies at the lowest cost to ratepayers.
- Nuclear refurbishments will help achieve emissions projections as established in the 2017 LTEP.
- Key government policy challenges for nuclear refurbishment projects are risks of cost overruns and schedule delays as well as locking-in a significant long-term capacity commitment.
- To address the policy risks of refurbishment projects, the 2013 LTEP established several principles to:
 - Minimize commercial risks on the part of the government and ratepayers;
 - Mitigate reliability risks by developing contingency plans that include alternative supply options;
 - Entrench appropriate off-ramps and scoping;
 - Hold private sector operators accountable to the nuclear refurbishment schedule and price;
 - Require OPG to hold its contractors accountable to the nuclear refurbishment schedule and price;
 - Ensure site project management, regulatory requirements and supply chain considerations, and cost and risk containment, are the primary factors in developing the refurbishment implementation plan; and
 - Take smaller initial steps to ensure there is opportunity to incorporate lessons learned from other refurbishments including collaboration with operators.

Adrian provided a summary of the Darlington and Bruce nuclear refurbishment projects that included:

- In January 2016, the government announced approval for OPG to proceed with unit 2 at Darlington NGS and refurbishment began on October 15, 2016 while the 2017 LTEP re-affirmed the government's commitment to refurbish all 4 units at Darlington.
- The Ministry of Energy and an Independent Oversight Advisor are ensuring continued government oversight as the refurbishment of Darlington has shifted from the planning phase to the execution phase.
- OPG provides the government with regular updates on the progress of the project and monthly progress reports to update the public on its performance and major milestones achieved.
- In December 2015, the Independent Electricity System Operator (IESO) and Bruce Power signed an agreement to refurbish 6 reactors at the Bruce NGS beginning in 2020 and the 2017 LTEP re-affirmed the government's commitment to refurbish 6 units at Bruce.
- The IESO will ensure strict oversight of the Bruce refurbishment project and provide timely reporting to the government on the progress of the project.
- On November 21, 2017, the Financial Accountability Officer of Ontario (FAO) released its report on the financial risks of Ontario's nuclear refurbishment plan.
- The FAO re-affirmed the long-term benefits of Ontario's nuclear refurbishment projects and noted the robust oversight and projections have been put in place to mitigate risks of refurbishment.
- The Ministry of Energy has facilitated an agreement between OPG and Bruce Power to collaborate and share lessons learned on refurbishment.

Adrian provided a summary of the proposed Continued Operation of the Pickering NGS until 2024 that included:

- In January 2016, the government announced approval for OPG's plan to complete confirmatory work and to seek regulatory approvals from the Ontario Energy Board (OEB) and CNSC for ongoing operations of the Pickering NGS to 2024.
- In December 2017, the OEB approved OPG's planned expenditure to enable ongoing operation of the Pickering NGS to 2024.
- In August 2018, the CNSC is expected to decide whether Pickering will be safe to operate to 2024 as part of its licence renewal application that is underway.

- The 2017 LTEP re-affirmed the government's support for Pickering to continue operations to 2024.
- OPG will seek final government approval to proceed when the regulatory reviews are completed.

Adrian mentioned Ontario's nuclear sector is a source of considerable research and innovation that includes:

- Medical isotopes are produced by nuclear reactors and provide 70% of the global supply of the Cobalt-60 isotope.
- Deep space exploration needs Plutonium-238 and Darlington NGS may help supply the global demand for this material.
- Ontario is interested in collaborating with the federal government, universities and industry partners and will continue its support of the nuclear industry for both its energy and non-energy research applications such as:
 - Small Modular Reactor Technology for smaller footprints and economies of scale compared to conventional nuclear reactors;
 - Nuclear Fuel Research could lead to reprocessing or recycling used nuclear fuel; and
 - Hydrogen Production on a large scale that could be used to replace gasoline for transportation and natural gas for heating buildings.

Adrian Nalasco or his associates will continue to update the DNHC on any significant updates to the 2017 LTEP as it may affect the Darlington and Pickering NGSs. For more information on the LTEP, contact Adrian at adrian.nalasco@ontario.ca or access the Ministry of Energy website at <http://www.energy.gov.on.ca>.

4.2. Progress Report by OPG concerning the Unified Control Emergency Exercise held on December 6 and 7, 2017 and Plans for 2018

Ian Azevedo, Senior Manager, Emergency Preparedness Security and Emergency Services, OPG, provided a presentation on nuclear preparedness at Pickering and Darlington NGSs.

Ian provided an overview of the responsibilities of the Emergency Preparedness Department that included:

- Implement and maintain emergency response capabilities within OPG Nuclear.
- Maintain OPG's Nuclear Emergency Response Organization facilities as well as equipment at off-site facilities.
- Conduct drills and exercises to confirm effectiveness of OPG's nuclear emergency plans at Pickering and Darlington NGSs.

- Oversee the Emergency Response Organization's qualification program.
- Liaise with off-site authorities and key stakeholders such as CNSC, OFMEM, DEMO, City of Toronto etc.
- Conduct assessments to demonstrate the emergency response program is performing as designed and continuing to improve with self assessments and benchmarking including CNSC, World Association of Nuclear Operators (WANO), Operational Safety Review Team (OSART) etc.

Ian provided a list of completed activities from OPG's 2017 Work Program that included:

- Enhanced Assembly Areas related to the Darlington Refurbishment Project.
- Update to the Emergency Preparedness Program for RegDoc 2.10.1 and lessons learned from OSART.
- Prepared for the relicensing application of Pickering NGS.
- Conducted drills at Pickering and Darlington to confirm effectiveness of emergency plans.
- Hosted the multi-jurisdictional Pickering Exercise United Control held in December.
- Tested the new data uplink to off-site authorities to be used during emergencies including the Province and CNSC.
- Upgraded to a new Dose Projection Software known as URI/Rascal.
- Applied industry benchmarking and Pickering WANO Peer Evaluation learnings to their plans.

Ian provided highlights of the Pickering Exercise United Control (ExUC) a large-scale, multi-jurisdictional nuclear exercise that included:

- The two-day nuclear emergency was conducted at Pickering NGS on December 6 and 7, 2017.
- The objective was to test key elements of OPG's emergency response plans.
- The Scenario was a severe accident at Pickering NGS leading to a significant radiation release.
- More than 30 local, municipal, provincial and federal agencies participated in the exercise.

Ian reported that ExUC successfully exercised key aspects of their nuclear emergency plans including:

- Accident mitigation and notification to authorities.
- Automated data transfer from OPG to off-site authorities.
- Use of updated dose projection software.
- Decision making related to public protective action.
- Deployment of Emergency Mitigation Equipment independent diesel pump.
- Tested P-25 radio system interoperability with Durham Region.
- Tested public communications and social media response.
- Tested the contaminated casualty process at Lakeridge Health in Ajax.

Ian referred to several reports that are being prepared after the exercise and listing lessons learned that included:

- International Safety Research (ISR) is facilitating a Joint Exercise Planning Team report for OPG with key findings and recommendations to be released in approximately two months.
- Each organization/agency that participated in the exercise is reviewing their own plans and listing lessons learned.
- OPG will prepare an exercise summary report that will list opportunities for improvement and any corrective actions to be taken and it will be submitted to the CNSC for their review and comment.
- OPG has identified some preliminary lessons learned that included:
 - Common understanding is needed for technical communications;
 - Emergency organization briefings can be improved to be more efficient;
 - Social media capacity is a challenge with the volume of information needed;
 - Efficient use of emergency support personnel is required to make better use their technical skills;
 - Notification through updated technologies and systems is needed to improve efficiencies; and
 - Effective drill management is required to improve plans.
- INES ratings for real events are the jurisdiction of the CNSC. If this had been a real event, it would have been a high rating as it was a severe accident with offsite radiological release.

Ian reviewed the list of highlights planned for the 2018 Work Program that included:

- Update OPG emergency plans to comply with the revisions in the Provincial Nuclear Emergency Response Plan (PNERP).

- Follow-up on the lessons learned from the 2017 Pickering ExUC.
- Participate in the CNSC Public Hearings to be held in Ottawa and City of Pickering for the relicensing of Pickering NGS.
- Review and update as needed the Pickering and Darlington Evacuation Time Estimates Studies making use of the latest census data.
- Conduct drills and exercises at Pickering and Darlington to confirm effectiveness of emergency plans.
- June 2018, participate with DEMO in the planned Reception Centre exercise.
- Enhance the Hostile Action Based response plan for OPG staff.

Ian Azevedo or his associates will continue to update the DNHC on the progress of nuclear emergency preparedness at Darlington and Pickering NGSs. More information is available by contacting Ian at ian.azevedo@opg.com or accessing the OPG website at opg.com.

4.3. Progress Report by Durham Emergency Management Office concerning Nuclear Emergency Preparedness and Plans for 2018

Warren Leonard, Director, DEMO, Regional Municipality of Durham, provided a progress report concerning its nuclear emergency preparedness activities in 2017 and plans for 2018.

Warren provided some basic information about DEMO that included:

- DEMO is responsible for effective mitigation, preparedness, response and recovery of any emergency in Durham Region.
- Nuclear emergency planning is a part of its overall emergency preparedness responsibilities.
- DEMO's activities include developing plans, training staff, conducting exercises, testing public alerting systems and providing public education.
- Local municipalities in Durham Region have their own emergency response plans but are coordinated and conform to the Durham Nuclear Emergency Response Plan (DNERP).

Warren reviewed DEMO's 2017 Communications Plan that was developed in close partnership with the Corporate Communications Office and the activities included:

- 5,958 visits on website
- 11,869 pages viewed on website
- 9 targeted social media campaigns and 122 original posts

- 5 PSA's resulting in 11 media stories
- Media spots and media ads
- Community events
- Emergency Preparedness Week
- Brochure distribution

Warren provided a list of activities planned for 2018 that will include:

- Plans and Operations
 - Review the Durham Region Emergency Master Plan
 - Review the DNERP
 - Review hazard identification and risk assessment
 - Review critical infrastructure in collaboration with the Finance Department for business continuity and the asset management project
 - On-going development of a cross-department information management tool for situational awareness and common operating picture at the Regional Emergency Operations Centre
 - Annual review and audit of DEMO's program for compliance with the Emergency Management and Civil Protection Act
 - Implement changes required by the updated PNERP into the DNERP
- Nuclear Preparedness
 - July 2017, public consultation with the Province for the Planning Basis through the Environmental Bill of Rights Registry with Durham Region Council's approved recommendations forwarded to the Province for its consideration
 - December 2017, Cabinet approved the updated PNERP that will result in many nuclear emergency response plans being updated including the plans for Pickering and Darlington NGSs and the DNERP that will include updated 2016 census data
 - June 2018, the CNSC will be holding a public hearing in the City of Pickering concerning the relicensing of Pickering NGS.
 - Review the Ontario Ministry of Transportation evacuation planning project
- PNERP 2017 revisions are more standardized with international nuclear emergency response plans and are based on the following:
 - Canadian Standards Association N1600
 - International Atomic Energy Agency GSR-Part 7
 - Health Canada draft Guidelines for Protective Actions
 - Lessons learned during nuclear exercises
 - Post Fukushima analysis by United Nations and CNSC

- PNERP 2017 uses new names for zones that includes:
 - Automatic Action Zones (AAZ) 3km
 - Detailed Planning Zone (DPZ) 3-10km
 - Contingency Planning Zone (CPZ) 10-20km
 - Ingestion Planning Zone (IPZ) 20-50km
- Public Alerting
 - Rapid Notify is a Region-wide expansion that includes collaboration with 8 municipalities and the launch of self-registration for cell phone users in 2018
 - Spring and fall testing of the public alerting equipment
 - Tender a contract for a maintenance provider
 - May 2018, the province will launch its cell broadcast capability as part of its provincial alert system to coincide with the Emergency Preparedness Week and it will form the backbone of the national alert system
- Training Delivery for Regional staff will include:
 - Basic Emergency Management
 - Incident Management System
 - Emergency Operations Centre
 - Note taking during emergencies
 - Develop 'Radiation '101' from Health Canada material
 - September 2018, Public-Private Partnership Symposium
 - Regional Control Group training

Warren Leonard or his associates will provide the DNHC with DEMO's progress reports next year concerning Nuclear Emergency Preparedness in Durham Region. More information is available at the DEMO website at durham.ca/demo.

5. Communications

5.1. Community Issues at Pickering Nuclear

Carrie-Anne Atkins, Senior Communications Advisor, Corporate Relations and Communications, OPG, provided an update on Community Issues at Pickering Nuclear and the highlights were:

- Pickering Units 1, 4, 5, 7 and 8 are operating at or close to full power.
- Pickering Unit 6 is in a planned maintenance outage.

- In August 2017, OPG requested a 10-year licence renewal for the Pickering NGS and the CNSC has scheduled Hearings for April 4, 2018 in Ottawa and June 26 to 28, 2018 in the City of Pickering with the location to be announced by CNSC.
- DNHC participants and members of the public interested in commenting on OPG's licence renewal application and to request to intervene must file their request with the CNSC by May 7, 2018. For more information, visit the OPG website at OPG.com.

Analiese St. Aubin, Manager, Corporate Relations and Communications, Pickering Nuclear, OPG, can be reached at (905) 839-1151 extension 7919 or by e-mail at analiese.staubin@opg.com for more information.

5.2. Community Issues at Darlington Nuclear

Carrie-Anne Atkins, Senior Communications Advisor, Corporate Relations and Communications, OPG, provided an update on the Community Issues at Darlington Nuclear and the highlights were:

- Darlington Units 1, 3 and 4 are operating at close to full power.
- Darlington Unit 2 is undergoing refurbishment.

Jennifer Knox, Manager, Corporate Relations and Communications, Darlington Nuclear, OPG, can be reached at (905) 697-7443 or by e-mail at jennifer.knox@opg.com for more information.

5.3. Corporate Community Issues for OPG

Carrie-Anne Atkins, Corporate Relations and Communications, OPG, provided an update on corporate community issues and the highlights were:

- February 2018, OPG will be participating at the annual Canadian Nuclear Association conference to held in Ottawa.
- March 2018, the next edition of the *Neighbours Newsletter* will be distributed.
- Pickering and Darlington staff are currently planning and partnering with many community organizations in preparation for their annual March Break program which will include educational and environmental programs for families across the Region.

6. Other Business

6.1. Topics Inventory Update

Robert Kyle indicated the Topics Inventory will be revised to include the presentations made today.

6.2. Future Topics for the DNHC to Consider

Robert Kyle indicated the theme of the next DNHC meeting scheduled for April 20, 2018 will be *Revisions to the PNERP and the Management of Nuclear Waste* that may include:

- Progress report by the OFMEM concerning their recent updates to the PNERP.
- Progress report by the Nuclear Waste Management Organization concerning their Site Selection Process.
- Progress report by OPG concerning the safe management of nuclear waste at the Darlington and Pickering NGSs.
- Progress report by OPG on their After-Action Report of the Unified Control Exercise held at Pickering NGS December 6 and 7, 2017.

7. Next Meeting

Location Durham Region Headquarters

605 Rossland Road East, Whitby

Meeting Room LL-C

Date April 20, 2018

Time 12:00 PM Lunch served, 1:00 PM Meeting begins

Host DRHD

8. Adjournment 4:20 PM.