TOWNSHIP OF

TOWNSHIP OF MELANCTHON

AGENDA

Thursday, March 16, 2017 - 5:00 p.m.

- 1. Call to Order
- 2. Announcements
- 3. Additions/Deletions/Approval of Agenda
- 4. Declaration of Pecuniary Interest and the General Nature Thereof
- 5. Approval of Draft Minutes March 2, 2017
- 6. Business Arising from Minutes
 - 1. Response from Dan Bernhard, DWP regarding Parking on Township Roads
 - 2. Information update on By-law Enforcement Services Town of Shelburne
- 7. Point of Privilege or Personal Privilege
- **8. Public Question Period** (Please visit our website under Agenda & Minutes for information on Public Question Period)
- 9. Road Business
 - 1. Recommendations from the Roads Sub-Committee Meeting held on March 14, 2017
 - 2. Other Road Business

10. Planning Matters

1. Applications to Permit

11. Police Services Board Matters

 Unfinished Business - Letter from Amanda Graham regarding Inclement Weather and Road Closures

Community Policing Meeting - Tuesday, June 6^{th} , 2017 at the Horning's Mills Community Hall - 7:00 - 9:00 p.m.

12. County Council Update

13. Correspondence

*Board & Committee Minutes

1. Shelburne Public Library Board Minutes - December 20, 2016

* Items for Information Purposes

- 1. Memo from Denise Holmes, CAO Highlights of Bill 68 Modernizing Municipal Legislation
- 2. Motion from the Town of Orangeville Securing Mechanisms for Wheelchairs in Vehicles
- 3. Letter from the Ministry of Education Impacts of Pupil Accommodations Review
- 4. MPAC News March 2017 (attached is the Industrial Turbines Study 2016 Base Year Study)
- 5. Letter from MPAC Assessing Properties in Proximity to Industrial Wind Turbines
- 6. Motion from the Township of Zorra Requesting the Premier and Minister of Education to develop policy that allows AED in all schools
- 7. Motion from the Township of Killaloe-Hagarty-Richards Proposed Amendments to Ontario Building Code Change #08-09-03
- 8. Motion from Thames Centre Requesting the Premier and Minister of Education to

- develop policy that allows AED in all schools
- 9. Information from the Ministry of Community Safety and Correctional Services Transportation of Radioactive Materials in Ontario
- 10. Motion from the Township of McNab/Braeside Proposed Amendments to Ontario Building Code Change #08-09-03
- 11. Email from Debra Robinson, Parent Volunteer Autism Ontario-Peel Chapter Information on Autism Ontario's Raise the Flag Campaign World Autism Awareness Day is Sunday, April 2, 2017
- 12. Motion from the Township of Amaranth Provincial Gas Tax Funds
- 13. Letter from MPAC 2017 Municipal Stakeholder Research
- 14. Letter from the Agriculture, Food and Rural Affairs Appeal Tribunal regarding the appeal of Evan Bearss McCue Drain Works, Repair and Improvement, 1989
- 15. Information from the Ministry of Agriculture, Food and Rural Affairs regarding the 2017 Premier's Award for Agri-Food Innovation Excellence Program
- Information from the Minister of Seniors Affairs regarding the 2017 Senior of the Year
 Award
- 17. Letter from the Wellington Dufferin Guelph Health Unit regarding Reduction and Restriction of Local Hookah Establishments
- 18. NVCA Board Meeting Highlights February 24, 2017
- 19. GRCA Current March 2017
- 20. Melancthon Township Development Charges Yearly Breakdown 2016
- 21. Semi Annual Groundwater Monitoring and Sampling Report 2016 for the Township Landfill Site (as this is a large Report, Appendix A, B & C are not included in the Agenda Package and are available on request)

* Items for Council Action

- 1. Request for Comments from the NEC D/R/2016-2017/361 (1392119 Ontario Ltd. Metz)
- 2. Source Water Protection Funding Agreement Amendment # 3
- 3. Request from the Dundalk and District Agricultural Society for financial support for the 2017 Fall Fair
- 4. 2017 Shelburne and District Fire Department Capital Budget
- 5. 2017 Shelburne and District Fire Department Operating Budget
- 6. Drainage Engineer's Tender Report on the Petervale Farms Drainage Works

14. General Business

- 1. 2017 Draft Operating and Capital Budget and Report from the Treasurer
- 2. Notice of Intent to Pass By-laws
 - By-law to adopt the estimates of all sums required during the year and to strike the rates of taxation and to further provide for penalty and interest in default of payment thereof for the year 2017
 - 2. Third Reading Petervale Farms Drainage Works By-law 6-2017
- 3. New/Other Business/Additions
 - 1. Connect to Innovate Program Packetworks is looking for a Letter of Support from Melancthon Council for this initiative
 - 2. NDCC Board of Management Mandate
- 4. Unfinished Business
 - 1. Motion to Support the motion of the United Township's of Head, Clara & Maria regarding Changes to the Building Code (regarding septic tank pumping)
 - 2. Legacy Project Corbetton Park County of Dufferin 150 Application

15. Delegations

16. Closed Session (if required)

- 1. Adoption of Draft Minutes March 2, 2017
- 2. Business Arising from Minutes
- 3. Personal matters about an identifiable individual, including municipal or local board employees Administration and Finance Assistant Position

17. Third Reading of By-laws

18. Notice of Motion

19. Confirmation By-law

20. Adjournment and Date of Next Meeting - Thursday, April 6, 2017 - 5:00 p.m.

Denise Holmes

From:

Dan Bernhard <dan.bernhard@clypq.ca>

Sent:

Friday, March 10, 2017 10:59 AM

To:

'Denise Holmes'

Subject:

RE: Letter - Parking on Township Roads

Denise,

We will do our best to accommodate your request. However, in the event that emergency work is required and it is not practicable to do otherwise, Dufferin Wind will be required park on the roadway, employing a safe traffic plan, including safety cones, signage, and flashing lights. We will most certainly cooperate with the local Provincial Police, township maintenance and snow removal equipment, and not impede their activities to the best of our ability.

Dan Bernhard

Wind Farm Site Manager 705357 County Road 21, Melancthon, Ontario L9V 2A3 w. 519-925-5599 dan.bernhard@clypg.ca www.dufferinwindpower.ca





A Please consider the environment before printing this email

From: Denise Holmes [mailto:dholmes@melancthontownship.ca]

Sent: March-08-17 11:03 AM

To: 'Dan Bernhard' <dan.bernhard@clypg.ca> Subject: Letter - Parking on Township Roads

Hi Dan,

Please see attached letter.

Should you have any questions, please don't hesitate to contact me.

Thanks.

Regards,

Denise Holmes

Denise B. Holmes, AMCT | Chief Administrative Officer/Clerk | Township of Melancthon |

dholmes@melancthontownship.ca PH: 519-925-5525 ext 101 | FX: 519-925-1110 | www.melancthontownship.ca

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APPLICATIONS TO PERMIT FOR APPROVAL MARCH 16, 2017 COUNCIL MEETING

PROPERTY OWNER	PROPERTY DESCRIPTION	TYPE OF STRUCTURE	DOLLAR VALUE	D.C.'s	COMMENTS
2066390 Ontario Inc. (Bretton Estates)	Lot 21, Plan 7M-48	Single Family Dwelling	\$280,000.00	Yes	<u> </u>
Applicant: Greg Patton	16 Rutledge Heights	3,736 square feet			
Ken and Nancy Fryer	West Part of Lots 12 & 13, Concession 4 OS - RP7-R2779 Parts 1 & 3	1,747 square feet	\$452,220.73	No	No D.C.'s as this is a replacement dwelling. Mr. and Mrs. Fryer wish to remain living in the existing house while they are building the new one. An Agreement will be executed and a \$5,000.00 security deposit received before the approval is released.

On April 7, 2016, Council approved an application for a new dwelling for Steve Martin of the East Part of Lot 25, Concession 2 OS. Mr. Martin entered into an Agreement with the Township to allow the existing dwelling to remain on the property while he was building his new home. Mr. Martin has since been in contact with the Township about retaining the addition on the farmhouse to be used as a garage for storage. This has been forwarded to our Planning Consultant and he has no issues allowing part demolition so long as Mr. Martin enters into another agreement with the Township for this purpose.

Minutes for Shelburne Public Library Board Meeting Tuesday, December 20, 2016

Present:

Geoff Dunlop

Larry Haskell

Laurita Townsend

Erika Ulch Janet Horner Dave Besley Sharon Martin Gail Little Harry Allen

Also Present:

Rose Dotten, Head Librarian /CEO

Chair Dunlop called the meeting to order at 8:00 P.M.

Motion 51-16

S. Martin, G. Little

Be it resolved that we approve the agenda of the board meeting dated December 20, 2016.

Carried

Motion 52-16

G. Little, H. Allen

Be it resolved that we approve the minutes of the board meeting dated November 15, 2016.

Carried

Financial Reports:

Motion 53 -16

H. Allen, J. Horner

Be it resolved that we approve the Accounts Payable Register for November, 2016 with invoices and payments in the amount of \$21,948.47.

Carried

CEO/ Head Librarian's Report:

Statistics

You will see from the statistics for November that statistics are still higher than last year for the month. We are looking at new children's programs for the New Year and hope that will boost the circulation as that is one area where circulation will spike.

Pine River Book Club

The Pine River Book Club held their December 14, 2016, meeting here at the Library. Both Jade Noble and Emily Sedgwick made presentations about our Electronic resources and new resources that we have. The members had a social time as well as their meeting and loved the feeling of being surrounded by Books! We received a wonderful note of thanks and appreciation.

Library – Promotions

The Board suggested some adaptations or changes that we might look at with regard to our KOHA circulation system – emails such as "your library card is expiring; would you like to renew?" etc.

- E-blasts with a library newsletter or upcoming library events. Again this is a privacy
 issue which requires patrons' permission to send to them. We are addressing this with
 all our new patrons and updates/renewals to accounts.
- A suggestion was also made to look at a Strategic Planning session and we can follow up in the new year

Correspondence

- Township of Amaranth Sent copy of Council resolution supporting the 2017 Shelburne Public Library Draft Budget
- Town of Mono Sent copy of Council resolution accepting the 2017 Shelburne Public Library Budget
- Cechet family a thank you for the support the Senior receives in having books delivered to her home by our Outreach volunteer, Anne Crowder. They also donated \$20.00 in the Library name to plates for children. A very nice recognition for the hard work and caring of our volunteers.
- Pine River Book Club a very special thank you and appreciation as noted previously.

New Business

• Motion required for transfers from Reserves

Motion 54-16 S. Martin, H. Allen

Be it resolved that we transfer the following amounts as year-end motions:

- 1. To transfer all donations received up to December 31, 2016 to reserve funds as follows:
 - (a) To collections reserve:
 - a. donations for collections,
 - b. in memoriam unspecified donations,
 - c. silent auctions, proceeds
 - d. other donations
 - (b) To special projects reserve, \$2480 from special projects donations
 - (c) To building fund reserve, donations received for building project accounts
- 2. Transfer from Special Projects Reserve, \$3240.18 for
 - a. fireplace installation (\$760.18),
 - b. student wage subsidy (\$1280),
 - c. and web page (\$1000)
- 3. Transfer from collections reserve the amount in excess of the budgeted expenditure of \$45,000 as of December 31 2016.
- 4. Transfer from Building reserve fund \$1,039.09 for parking lot expenses and thermostat guards.
- 5. That the Board direct funds as follows:

- a. If there is a surplus that it be transferred into the Operating Reserve.
- b. If there is a deficit that it be transferred from Operating Reserve.

Carried

• Silent Auction and Book Sale held Saturday, November 26, 2016

Rose informed the Board that the annual fundraiser for the Library, the Silent Auction, together with the Book Sale that was held on Saturday, November 26, 2016, was a huge success with approximately \$3,864.00 received.

- Meeting with Amaranth Council at the request of Amaranth Council, Rose Dotten (CEO) and Gord Gallaugher, Treasurer, met with the Council. The two items under discussion were a quick review of the 2017 Budget and the question as to the implications for future funding now that Mulmur Township has withdrawn as a member of the Board. This is of concern to the Board as well and Council was reassured that for the next year, the budget would not be affected.
- Report re Auditors Consultations this was tabled for a future meeting with the hope that Carol Sweeney, Treasurer, Town of Shelburne might be present to give us some advice and thoughts on the matter.
- Year-end staff bonuses We have a very strong and dedicated team working to support the library and the community and the Board wanted to recognize their invaluable commitment through a year-end bonus.

Motion 55-16 D. Besley, E. Ulch

Be it resolved that the Board approves a year-end bonus of \$100 for regular staff and \$50 for other staff members at the discretion of the CEO.

In-Camera Session: Not required

Motion 56-16 L. Haskell, J. Horner

That we now adjourn at 8:52 p.m., to meet again January 17, 2016, at 7pm.

Carried



The Corporation of

THE TOWNSHIP OF MELANCTHON

157101 Hwy. 10, Melancthon, Ontario, L9V 2E6

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CORPORATION OF THE TOWNSHIP OF MELANCTHON

MEMORANDUM

TO:

MAYOR WHITE AND MEMBERS OF COUNCIL

FROM:

DENISE HOLMES, CAO/CLERK

SUBJECT: HIGHLIGHTS OF BILL 68 - MODERNIZING MUNICIPAL

LEGISLATION

DATE:

MARCH 8, 2017

At the meeting of Council held on February 16, 2017, Council reviewed a letter from Sylvia Jones, MPP regarding Bill 68, Modernizing Ontario's Municipal Legislation Act, 2016.

In her letter, MPP Jones advised that the second reading debate would be resuming in February when the Legislature returned and she was requesting input on this legislation to ensure that our concerns were heard at the Provincial level. As a result, Council requested further information on the impacts of Bill 68.

I am attaching to this memo, information that has come in from AMO summarizing the proposed changes to the Municipal Act, Municipal Conflict of Interest Act, Municipal Elections Act as well as several other Acts under this proposed legislation. I am also attaching a presentation deck received from the Township's Municipal Adviser from the Ministry of Municipal Affairs.





Sylvia Jones, MPP Dufferin-Caledon 244 Broadway Orangeville, Ontario L9W 1K5

12596 Regional Road 50 Bolton, Ontario L7E 1T6

Tel. (519) 941-7751 Fax (519) 941-3246 Tel. (905) 951-9382 Fax (905) 951-1807

1-800-265-1603 E-mail: sylvia.jonesco@pc.ola.org

January 26th, 2016

Mayor Darren White and Council Township of Melancthon 157101 Highway 10 Melancthon, ON L9V 2E6

Dear Mayor White and Council,

I am contacting you because I want your input on Bill 68, *Modernizing Ontario's Municipal Legislation Act*, 2016. You are no doubt aware that the Ontario government introduced legislation in November 2016 which proposed a variety of changes to the municipal government including: changing the contribution limits for candidates and third party advertisers; electronic participation in council meetings; requiring municipalities to have an integrity commissioner and a registry of conflicts of interest. Second reading debate will resume in February when the Ontario legislature returns.

Hearing your input on this piece of legislation will help to ensure that your concerns and suggestions are heard at the provincial level as we debate and prepare amendments.

Sincerely,

Sylvia Jones, MPP Dufferin-Caledon

INFO 7 - FEB 1 6 2017



Denise Holmes

From:

AMO Communications <communicate@amo.on.ca>

Sent: To: Wednesday, March 08, 2017 4:05 PM dholmes@melancthontownship.ca

Subject:

AMO Policy Update - Highlights of Bill 68: Modernizing Municipal Legislation

March 8, 2017

Highlights of Bill 68 - Modernizing Municipal Legislation

Proposed Changes to Municipal Act (MA), Municipal Conflict of Interest Act (MCIA), Municipal Elections Act (MEA) and several other Acts.

Bill 68 Status:

With the legislature back in session, the House debate on the Bill has resumed. Timing for the Standing Committee hearing could be this month, earlier than previously anticipated. AMO will complete its request for amendments shortly. Some proposed changes are welcome and others are problematic from a policy or implementation lens. We will be asking legislators to make certain that any changes are clear, fair, and do not generate unintended consequences.

Bill 68 Content: Some highlights follow:

Proposed Integrity Commissioner (IC) Regime:

The most significant proposal is to the authority and related provisions of a new and greatly expanded municipal Integrity Commissioner (IC) regime. It is to apply to all municipal councils and local boards in Ontario. This part of the Bill provides the most significant challenges.

The Bill's IC accountability framework treats municipal governments and its local boards in a manner that is in stark contrast to the provincial government's own integrity regime. The latter is narrower – limited to MPP complaints of another MPP, current and former public servants, and staff in MPP offices. Like that regime, members of council and local boards can seek advice on a matter from a municipal IC for matters related to the *Municipal Conflict of Interest Act* (MCIA) and municipal code of conduct. Codes of Conduct for all councils and local boards will be mandatory across Ontario.

AMO believes that the intent of providing other recourses besides the courts is worthy. However, the proposed IC regime goes too far, too fast. It brings an untried complexity that could result in unintended consequences and costs that will be difficult to determine let alone manage.

In making the IC regime mandatory for all municipal governments and local boards, the following are some of the key challenges identified with the Bill:

- Its application to members of all local boards (even those without decision-making authority and those without a council representative on them) may dampen the interest of citizens willing to join local boards, which would be an unfortunate outcome. Educating and training these boards is no small task based on the experience of the introduction of closed meeting investigators.
- Any "person" anywhere can make a code of conduct or MCIA complaint whether they are an
 elector or not and whether or not they are doing business with the municipal government or
 its boards which makes the administration such as Municipal Freedom of Information and
 Protection of Privacy Act (MFIPPA) and budgeting extremely unpredictable;
- MCIA sets out principles of the duties of members' councils and local boards but it is silent on the duties of complainant nor is there any real onus on complainants;
- Where there are joint service boards, it is unclear which municipal IC has jurisdiction or how it is to be determined and other rules applied;
- Are ICs in effect 'officers' of the municipal government similar to provision that a municipal clerk is a designated position in the *Municipal Act*;
- It is unclear whether the authority to impose penalties could be delegated by council or local board to the IC and should there be a greater range of penalties at this stage of the process in light of the greater range of penalties available to a judge should a matter end up in the courts; and
- Determining how to have an IC (e.g., own, shared, functional relationships; budget requirements; administration set up; managing MFIPPA, etc.) is more complex than the mandatory closed meeting investigator system and will require at least 18 months before proclamation.

Meetings:

- The proposed definition of a meeting is welcome and should put to end the inconsistency that has been used by office of the Ontario Ombudsman and other closed meeting investigators;
- Three new exceptions to resolve some of the difficulties of the original framework but will
 require amendment. For example, the Province or agencies of the Crown may supply
 confidential information and, municipal governments and municipal share corporations
 should be added to that list as they can supply another municipal government or entity with
 confidential information;
- Proposed authority for each council to decide locally whether or not it wants to adopt a
 policy on electronic meetings and the related rules except that a person joining electronically
 cannot be counted for quorum; and
- Temporary replacement at an upper tier meeting where a lower tier councillor is to be absent is helpful but could benefit from the alternate being designated for a period of time rather than sporadically so there is some knowledge of the upper tier's procedures and other policies.

A few other matters:

- Working with the Municipal Finance Officers Association (MFOA), we want to see that all
 municipal governments can benefit from improved investment authority offered by a prudent
 investor standard approach, done in a way that doesn't create new internal administration for
 municipal governments;
- Proposal to move council start of term to November 15 to help manage some of the unintended consequences of a longer period between the now earlier election date of October and term of council;
- Proposal to put a limit on 'self funding' election campaigns;
- Clarify that municipal bylaws can have effect in areas under conservation authorities and clear authority to regulate advertising devices; and
- All councils to develop policies related to council-employee relationships; also pregnancy and parental leave of council members.

This is the link to <u>Bill 68</u>, <u>Modernizing Ontario's Municipal Legislation Act</u>, <u>2017</u> and to a chart, <u>Bill 68</u>: <u>Summary of Key Provincial Proposals</u>, that summarizes the Bill's proposed changes.

AMO Contact: Pat Vanini, Executive Director, E-Mail: pvanini@amo.on.ca, 416-971-9856 ext. 316.

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Denise Holmes

From:

Fahey, Sean (MMA/MHO) <Sean.Fahey@ontario.ca>

Sent:

Wednesday, March 08, 2017 4:20 PM

To:

Undisclosed recipients:

Subject:

Bill 68 (MOMLA) Deck & Election Dates

Attachments:

2017-02-17 MOMLA Overview.pdf

As promised in previous meetings, please find attached the province's presentation deck on Bill 68 (MOMLA). Additionally, with the approach of the 2018 municipal elections and the recent amendments to the Municipal Elections Act, 1996 and the Municipal Act, 2001, I thought a few reminders might not go amiss.

If your municipality wishes to consider the <u>ranked ballot option</u> you will need to ensure that you have the appropriate by-law in place by May 1st, 2017. That requires an <u>open house and public meeting</u> before the by-law is passed, so if you want to explore the ranked ballot option, time is of the essence.

If you are using or planning to use <u>alternative voting and vote counting</u> (such as internet, telephone, vote-by-mail, tabulators etc.), you need to ensure that your enabling by-law is effective for the 2018 municipal election and is passed not later than May 1st, 2017. Clerk's policies for the use of alternative voting and vote counting will need to be in place not later than December 31st, 2017.

Other changes, such as <u>ward boundary adjustments</u> and <u>council composition</u> will need to be completed by December 31st, 2017 to have effect for the 2018 municipal election. Remember that in the case of ward boundary adjustments, there is a possibility of an appeal to the Ontario Municipal Board, therefore an Ontario Municipal Board hearing and a decision on an appeal will need to be completed by the OMB prior to December 31, 2017.

If you have any questions, please feel free to contact me.

Thank you,

Sean Fahey

Municipal Advisor

Municipal Services Office - Central Ontario | Municipal Services Division

Ministry of Municipal Affairs (MMA) | Ministry of Housing (MHO)

777 Bay St., 13th Floor | Toronto ON | M5G 2E5

T: 416.585.6352

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Bill 68 – The Proposed *Modernizing Ontario's Municipal Legislation Act, 2016* (MOMLA)

Scope of Presentation

- The proposed Modernizing Ontario's Municipal Legislation Act, 2016 (Bill 68) is subject to the approval of the legislature.
- This presentation is intended serve as a summary and be a general aid to understanding the key proposals in Bill 68. It does not include all the details of the Bill.
- For more information about Bill 68, please refer to the proposed legislation at <a href="https://original.com/original.c



Review

- MOMLA proposes amendments to the Municipal Act, 2001, City of Toronto Act, 2006 and Municipal Conflict of Interest Act, to (1) enhance municipal accountability and transparency, (2) promote municipal financial sustainability; and (3) help ensure responsive and flexible municipal governments.
- Amendments are also proposed to other acts, such as the Building Code Act, 1992 and Planning
 Act.
- There is a legislative requirement to initiate a review of the *Municipal Act, 2001* and *City of Toronto Act, 2006* within five years of the previous review.
- Regular review helps to ensure municipalities have the powers and flexibility they need to
 effectively and creatively provide services to their communities.
- There is no legislative review requirement for Municipal Conflict of Interest Act, which was last substantially amended in 1983.



Consultation

- The government launched a consultation on the review, which ran for 149 days from June 5, 2015 until October 31, 2015. The review received approximately 360 responses from the online consultation, including councils, clerks, municipal stakeholders and members of the public.
- In person consultations were held with municipal administrators and some public groups. MMA
 consulted with key stakeholders.
- The Ministry held regular meetings with the Association of Municipalities of Ontario (AMO) and the City of Toronto as part of the Memorandum of Understanding process.
- Other key stakeholders consulted include the Association of Municipal Managers, Clerks and Treasurers of Ontario (AMCTO), Ontario Municipal Tax and Revenue Association (OMTRA) and the Municipal Finance Officers' Association of Ontario (MFOA).
- All feedback received has been considered as part of the review.

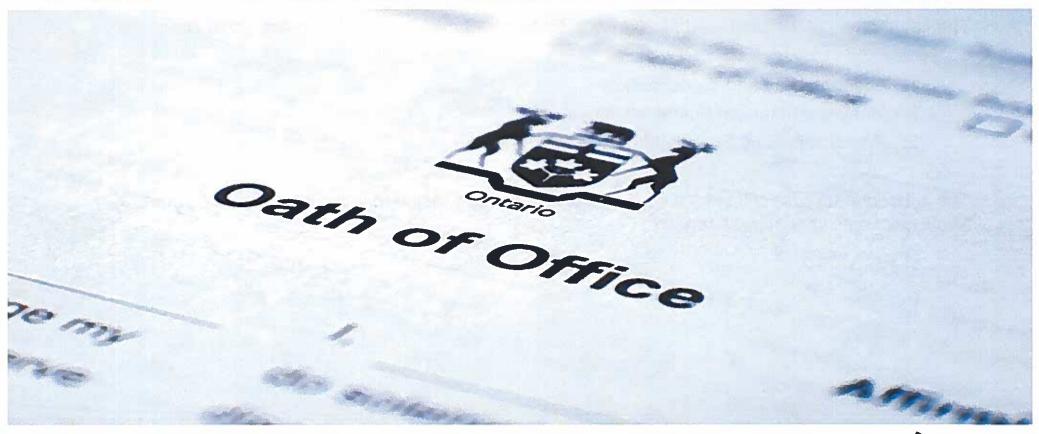


Key Themes

The key themes of the proposed Modernizing Ontario's Municipal Legislation Act, 2016 are:

- 1. Accountability and Transparency
- 2. Municipal Financial Sustainability
- 3. Responsible and Flexible Municipal Government

The subsequent slides will set out key legislative proposals included in the *Modernizing Ontario's Municipal Legislation Act*, 2016.



Ministry of Municipal Affairs

6 Ontario

Codes of Conduct

- Would require municipalities to establish codes of conduct for members of council and local boards.
- Would provide the Minister of Municipal Affairs with authority to make regulations setting out one
 or more subject matters required to be included in a code of conduct.

Integrity Commissioners

- Would require that municipalities provide access to an integrity commissioner
- Would require every municipality to ensure that all integrity commissioner responsibilities be provided by an integrity commissioner
 - Municipalities would have flexibility, including appointing an integrity commissioner, making arrangements for integrity commissioner responsibilities to be provided by an integrity commissioner of another municipality, or a combination.



Integrity Commissioner - Mandatory Range of Responsibilities

Each municipality would be required to make arrangements to provide for integrity commissioner coverage for all of the following responsibilities:

- The application to members of council and members of local boards of the municipality of:
 - o the local codes of conduct
 - o local rules governing the ethical behavior of the members
 - o key sections of the Municipal Conflict of Interest Act (MCIA)
- Conducting inquiries on his or her own initiative for MCIA and code of conduct matters (in addition to responding to complaints)
- Providing advice to members of councils and local boards respecting their obligations under
 1) the local code of conduct applicable to the members, 2) the local ethical behavior procedures, rules or policies governing the members, and 3) the MCIA
- o Providing educational information to the public, the municipality and members of council and local boards about local codes of conduct and MCIA.



Integrity Commissioner - Powers: Municipal Conflict of Interest Act Matters

- An integrity commissioner would have new powers regarding MCIA matters, including to:
 - investigate a complaint from any person concerning an alleged contravention of certain sections of the MCIA
 - o conduct his or her own investigation of whether a member has contravened the MCIA
- After completing an investigation, an integrity commissioner might apply to a judge under the MCIA if he or she considers it appropriate, for a determination as to whether the member has contravened the MCIA.
- If after investigating an MCIA complaint an integrity commissioner decided not to apply to a judge, the person making the complaint might do so.

Note

 A complainant might choose to pursue an MCIA complaint directly through the courts rather than through an integrity commissioner.



Municipal Conflict of Interest Act

- Principles
 - Proposed amendments would set out in the MCIA a list of principles endorsed by the
 Province of Ontario in relation to the duties of members of councils and of local boards.
- Influence
 - Prohibit a member from using his or her office to attempt to influence any decision or recommendation being considered by municipal or local board employees and persons who are acting on delegated authority from council, if the member has a pecuniary interest in the matter (subject to the exceptions set out in the Act).
- Consideration of Code of Conduct Penalty
 - Generally, a member may participate in a meeting (but could not vote) where the matter under consideration is whether to impose a potential code of conduct penalty of suspending the member's pay.

Municipal Conflict of Interest Act

- Written Disclosure of Interest
 - At a meeting at which a member discloses a pecuniary interest, amendments would require the member to file a written statement of the member's interest at the meeting, or as soon as possible afterwards.
- Registry
 - Amendments would require that municipalities and local boards establish and maintain a registry of statements and declarations of interests of members. The registry would be made available for public inspection.

Municipal Conflict of Interest Act (cont.)

- Flexible Penalties
 - Proposed amendments would provide that if a judge determines that a contravention occurred, the judge may do any or all of the following:
 - Reprimand the member or former member;
 - Suspend the member's remuneration for a period up to 90 days;
 - Declare the member's seat vacant;
 - Disqualify the member or former member during a period of not more than seven years;
 and/or
 - Require the member or former member to make restitution.

Open Meetings

- Definition of Meeting
 - Open meeting provisions would apply to meetings where a quorum of members is present and where members discuss or otherwise deal with a matter in a way that materially advances the business or decision-making of the relevant council, local board or committee.
- Provide Additional Discretionary Open Meeting Exceptions
 - Information explicitly supplied in confidence to a municipality or local board by Canada, a province or territory or a Crown agency;
 - Certain third party information supplied in confidence to a municipality or local board;
 - Trade secret or financial, commercial, scientific or technical information that belongs to the municipality or local board and has monetary value or potential monetary value; or
 - A position, plan, procedure, criteria or instruction to be applied to any negotiations by or on behalf of the municipality or local board.

Open Meetings (cont.)

- Electronic Meetings
 - Municipal Act: Allow municipal councils and certain local boards to provide for electronic participation by members at council, local board and committee meetings that are open to the public, provided that electronic participants are not counted for quorum purposes.
 - City of Toronto Act: Proposed amendment to existing electronic participation framework respecting council meetings, would allow council and certain local boards to also provide for electronic participation by members at local board and committee meetings
- Report Publicly Regarding Meeting Investigations
 - Require a municipality or local board to pass a resolution stating how it intends to address a report provided by a meeting investigator, where the investigator reports his or her opinion that a meeting has been closed contrary to the open meetings provisions of the relevant Act.

Municipal Financial Sustainability Proposals



Ministry of Municipal Affairs



Municipal Financial Sustainability Proposals

Prudent Investor Standard

- Enable a municipality that meets certain requirements to invest money that it does not require immediately in any security in accordance with a prudent investor standard and a regulation.
- Require a municipality investing money under this standard to exercise the care, skill, diligence and judgement that a prudent investor would exercise in making such an investment.
- Require an eligible municipality to pass a by-law to opt into prudent investing.
- Once a municipality has opted into prudent investing, it would not be able to opt out unless a regulation is passed permitting it to invest again only in accordance with the prescribed list of securities.
- Provide the Lieutenant Governor in Council with authority to make regulations governing the investment of
 money by a municipality under the prudent investor standard, including with respect to transitional matters and
 in relation to the investment of money by two or more municipalities, acting as a group.

Small Business Programs

• Remove the requirement to obtain approval from the Minister of Municipal Affairs before a municipality establishes a small business program, and replace that provision with a regulation making power.

Municipal Financial Sustainability Proposals

Forfeited Corporate Property

 Would provide municipalities with authority to initiate an expedited tax sale of properties that have vested in the Crown because of the dissolution of a corporation, to facilitate bringing such lands into productive use more quickly.

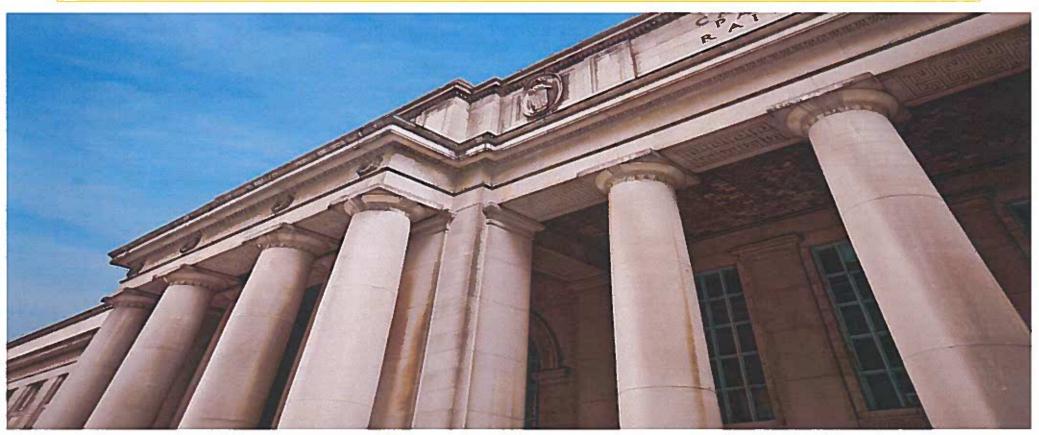
Municipal Tax Sales

- Would reduce the time that property taxes have to be owing before a municipality can start a tax sale
 of the property, from 3 years to 2 years.
- Would allow municipalities to enter into an extension with any of the owners of the property.

Property Tax Collection and Administration

 Various amendments to improve property tax collection and administration provisions generally. For example, the proposed amendments address electronic delivery of property tax bills and broadening the range of fees and charges that can be added to the tax roll.

Responsive and Flexible Municipal Government Proposals



March 8, 2017

Ministry of Municipal Affairs

Responsive and Flexible Municipal Government Proposals

Climate Change

- Clarify that existing broad powers include the power to pass by-laws respecting climate change.
- Provide municipalities with additional powers to pass by-laws respecting the protection and conservation of the
 environment in accordance with regulations, including powers to require green roofs or alternative roof surfaces
 in circumstances specified by the Building Code and once standards have been established in the Building
 Code.
- Require municipalities to adopt a policy with respect to the manner in which the municipality will protect and enhance the tree canopy and natural vegetation in the municipality.
- Clarify that municipalities may provide for or participate in long-term planning for energy use in the municipality.

Integrated Planning for Service Delivery

- Give the Minister regulation-making authority to prescribe actions that municipalities must take to support local integrated planning.
- This proposed amendment aligns with the government's commitment to implement the Community Hubs Strategic Framework & Action Plan's recommendation to "require integrated planning to ensure client-focused service delivery regardless of jurisdictional boundaries."

Responsive and Flexible Municipal Government Proposals

Regional Council Composition

- Repeal the requirement for a Minister's regulation under the *Municipal Act, 2001* to authorize a regional municipality to pass a by-law to change its council composition.
- Require that regional municipalities review the number of members of their council that represent their lower-tier municipalities following every second municipal election, starting after the 2018 municipal election.
- Provide the Minister of Municipal Affairs with the power to make a regulation changing a regional
 municipality's council composition if a regional municipality is unable to come to a local decision
 within two years following every second municipal election starting after the 2018 election.

Temporary Replacements on Upper-tier Council

Allow a lower-tier council to appoint an alternate member of lower-tier council to temporarily
replace a person who is a member of both the lower-tier and upper-tier council if the member is
unable to attend an upper-tier council meeting.

Other General Amendment Proposals

Council-Municipal Staff Relationship Policies

 Require all municipalities to have a policy on the relationship between members of council and the officers and employees of the municipality.

Administrative Penalties

 Provide municipalities with the authority to require a person to pay an administrative penalty if the person has failed to comply with a municipal by-law passed under the Municipal Act or the City of Toronto Act.

Pregnancy and Parental Leave

- Require that municipalities have a policy for pregnancy leaves and parental leaves for council members.
- Prevent a council members' seat from becoming vacant due to absences as a result of pregnancy, or the birth or the adoption of the member's child for a period of 20 consecutive weeks or less

Advertising Devices (Signs)

• Repeal a provision that limits a municipality's ability to pass bylaws regulating existing advertising devices, such as signs, and provide for transition respecting existing municipal by-laws.

Other General Amendment Proposals

Power of Entry

 Provide municipalities with the ability to enter private property adjoining municipal property for purposes of carrying out maintenance on the municipal property, subject to certain conditions and limits.

Site Alteration

 Repeal a provision that provides that municipal by-laws have no effect in areas under jurisdiction of conservation authorities.

Rental Housing

 Provide municipalities with the ability to register on title an agreement that is required as a condition of a permit respecting the demolition or conversion of residential rental properties, and to enforce the agreement against the owner and any subsequent owners of the land.

Proposals to Other Acts

Amendments to the Planning Act

Add mitigation of greenhouse gas emissions and adaptation to a changing climate as a matter of provincial
interest under the Planning Act so that decision-makers carrying out their responsibilities under the Planning Act
shall have regard to it.

Amendments to the Municipal Elections Act, 1996

- Term of Office
 - Change the start of the term of office for council and school board members from December 1 to November
 15, in the year of a regular election
- Contribution Limits
 - Raise the limit for contributions to a single candidate or third party advertiser from \$750 to \$1,200, consistent with the provincial limit.
- Self-funding Limit
 - o Impose a self-funding limit for municipal council candidates based on the number of electors voting for the office, to a maximum of \$25,000 per candidate. The formula for calculating the limit would be \$7500 + \$0.20 per elector for head of council, and \$5,000 + \$0.20 per elector for other council offices.

Concluding Comments

- The proposed *Modernizing Ontario's Municipal Legislation Act, 2016* includes other technical and general amendments not mentioned here.
- Proposed changes would come into force in phases, with some provisions coming into force on Royal Assent and some changes on proclamation.
- The Ministry of Municipal Affairs will also prepare guidance materials to assist municipalities through implementation of the proposed changes.



Town of Orangeville 87 Broadway, Orangeville, Ontario L9W 1K1 Tel. 519-941-0440 Fax 519-941-9033 Toll Free 1-866-941-0440 www.orangeville.ca

March 8, 2017

Transport Canada 330 Sparks Street Ottawa ON K1A 0N5 Ministry of Transportation Queen's Park/Minister's Office 77 Wellesley Street West Ferguson Block, 3rd Floor Toronto ON M7A 1Z8

Canadian Transportation Agency Ottawa ON K1A 0N9

Accessibility Directorate of Ontario 601A-777 Bay Street Toronto ON M7A 2J4

Federation of Canadian Municipalities 24 Clarence Street Ottawa ON K1N 5P3 Association of Municipalities of Ontario 200 University Ave., Suite 801 Toronto ON M5H 3C6

David Tilson, MP, Dufferin-Caledon 229 Broadway, Unit 2 Orangeville ON L9W 1K4 Sylvia Jones, MPP, Dufferin-Caledon 244 Broadway Orangeville ON L9W 1K5,

Re: Securing Mechanisms for Wheelchairs in Vehicles

At its meeting on Monday, March 6, 2017, the Council of The Corporation of the Town of Orangeville approved the following resolution:

Whereas a significant segment of the population will have some kind of mobility impairment at any point in time, particularly given our progressively aging population;

And whereas the issue of accessibility for people with mobility handicaps is becoming increasingly important;

And whereas currently there are voluntary standards for wheelchairs used as seats in motor vehicles in Canada, but there are no federal regulations regarding the attachment of wheelchairs in vehicles to ensure the safety of users:

And whereas Transport Canada establishes safety requirements for certain classes of newly manufactured/imported motor vehicles and motor vehicle equipment pursuant to the Motor Vehicle Safety Act;

And whereas provincial/territorial requirements would apply to all vehicles operating in their jurisdictions, not just new or imported vehicles;

Therefore be it resolved that:

- Orangeville Town Council request the Provincial and Federal governments to consider implementation of regulations requiring a universal securing mechanism for wheelchairs in vehicles;
- 2. and that a copy of this resolution be sent to Transport Canada, Ontario Ministry of Transportation, the Canadian Transportation Agency, the Accessibility Directorate of Ontario, the Federation of Canadian Municipalities, the Association of Municipalities of Ontario, the local area municipalities, and the local Members of Parliament and Provincial Parliament.

Susan Greatrix | Clerk

ours truly,

Town of Orangeville | 87 Broadway | Orangeville, ON L9W 1K1 519-941-0440 Ext. 2242 | Toll Free 1-866-941-0440 Ext 2242 | Cell 519-278-4948 sgreatrix@orangeville.ca | www.orangeville.ca

cc: Pam Hillock, Clerk/Director of Corporate Services County of Dufferin 55 Zina Street Orangeville ON L9W 1E5

> Jane M. Wilson, CAO/Clerk-Treasurer Town of Grand Valley 5 Main St. N. Grand Valley ON L9W 5S6

Susan M. Stone, CAO/Clerk-Treasurer Township of Amaranth Township of East Garafraxa 374028 6th Line Amaranth ON L9W 0M6

Denise B. Holmes, CAO/Clerk Township of Melancthon 157101 Highway 10 Melancthon On L9V 2E6 Mark Early, CAO and Clerk Town of Mono 347209 Mono Centre Road Mono ON L9W 6S3

John Telfer, CAO / Clerk Town of Shelburne 203 Main Street East Shelburne ON L9V 3K7 Terry Horner, CAO/Clerk Township of Mulmur 758070 2nd Line E Mulmur ON L9V 0G8

Ministry of Education

Minister

Mowat Block Queen's Park Toronto ON M7A 1L2

Ministère de l'Éducation

Ministre

Édifice Mowat Queen's Park Toronto ON M7A 1L2



March 6, 2017

Dear Colleagues,

It will come as no surprise that, over the past several months, our government has been hearing from many parts of Ontario about the impacts of recent pupil accommodation reviews, particularly in Ontario's rural and remote communities. Our government supports and values all communities in Ontario, and our school boards and municipalities must make every effort to work together to ultimately support positive experiences for our students and the communities they live in.

As you know, school closures and consolidations are among the most difficult decisions that school boards have to make. This is especially true in our rural and remote communities. Ontario entrusts school boards with the responsibility to review their school accommodation needs and for ensuring that student achievement and well-being are supported by all accommodation decisions that are made.

However, we also know that some parts of Ontario face demographic challenges, while others are seeing considerable growth. We want to assure all of our community partners that our government is committed to finding solutions to meet both local needs and the educational needs of Ontario's students.

Starting this spring, our government will launch an engagement on new approaches to supporting education in rural and remote communities. Three Parliamentary Assistants, MPPs Granville Anderson, Grant Crack, and Lou Rinaldi, will gather feedback on how our province can further strengthen the future of rural education. We are also pleased to provide you with an update on how our government will further support local decision-making and complete communities moving forward.

Pursuing Joint-Use Opportunities between School Boards

Communities and the province expect Ontario's four school systems to maximize the opportunities of co-location. Prior to commencing with student accommodation changes through closures, it is our government's strong preference that school boards fully explore joint accommodation arrangements with coterminous boards, particularly to maintain a school presence in a rural or isolated community. Of the 4,900 schools in Ontario, only 37 are currently joint-use arrangements in which pupils from one or more boards share a facility.

.../2

In July 2013, prior to the launch of the Ministry of Education's 2014 Capital Priorities program, the Ministry stated a preference for these joint-use projects, committing to review these proposals before any others. Additionally, the Ministry of Education has committed \$600,000 to assist school boards in pursuing joint-use school opportunities between school boards. This funding is being allocated to support school boards with facilitation and joint planning towards the potential development of joint-use school proposals, as well as on studies being commissioned by the Ministry of Education to highlight joint-use experiences and develop a joint-use school toolkit that can be used to assist school boards in developing joint-use schools.

Moving forward, the Ministry of Education will be reviewing all capital proposals submitted by school boards for ministry funding for new schools, additions or consolidation projects to ensure joint-use opportunities between boards have been fully explored before funding is granted.

Importance of School Board and Municipal Partnerships

We have recently had the pleasure of speaking with many of our municipal and school board partners. These conversations have highlighted many positive examples of collaboration and joint local planning between school boards and municipalities. But we have also heard about potential inconsistencies and difficulties in current community collaboration, including instances where municipalities and communities have not felt meaningfully engaged in pupil accommodation reviews. These difficulties can arise for many reasons, but we would like to remind school boards and municipalities of the tools we have provided to facilitate an effective process and provincial expectations with respect to engagement by involved parties:

• Annual Community Consultation: Reforms to Ontario's Planning Act and Development Charges Act were made in 2015 to help create more complete communities and to provide citizens a greater, more meaningful say in how their neighbourhoods grow. The Ministry of Education's Community Planning and Partnerships Guideline was also introduced in 2015 to ensure that each school board hosted at least one meeting each year to discuss their capital plans and opportunities for joint planning and facility partnerships with relevant communities and stakeholders. We have heard from some boards that these meetings are not well attended, and from some communities that they were not aware of them. It is imperative that these meetings involve all relevant stakeholders, and facilitate real dialogue between boards and the involved communities. Further, board policies must reflect this guideline prior to the commencement of new accommodation reviews. To be effective, these meetings require community engagement and attendance and a spirit of real partnership from all parties.

.../3

• Pupil Accommodation Review Guideline: Updates to the Pupil Accommodation review guideline in 2015 were introduced following consultations with school boards, municipalities and other community partners to enable a more effective review process. This included a new requirement that impacted municipalities and community partners are consulted regarding the potential accommodation changes. It is our expectation that this is a meaningful engagement from both boards and municipalities, and that full input and feedback from the municipalities, including local economic and community impacts where relevant are reflected in the final staff report and advice to trustees. The new process also requires boards to put forward concrete proposals in the form of initial staff recommendations. These should not be interpreted as pre-determined outcomes, but rather as a means to ensure focused engagement.

Our government expects school boards and communities to be making active and continual efforts to facilitate positive, inclusive relationships with each-other.

The changes made in 2015 to the Pupil Accommodation Review Guideline also changed the minimum requirement for the school information profiles shared at the commencement of an accommodation review to no longer require information outlining the value of the school to the local economy. This change was made to reflect input from school boards that this information was not readily available or in their area of expertise and could be better reflected in the input from municipal and community partners.

While accommodation decisions must support student achievement and well-being as a primary goal, this change was not intended to discount the importance of engagement with communities to understand the impact of accommodation changes or to disallow boards from considering the impacts on communities and local economies from their final reports or deliberations.

Going forward, our government will be considering how community impact could be included in the pupil accommodation process, included with anticipated impacts on student achievement, transportation and outcomes. We will work with municipalities and school boards to explore how the government can best support this type of analysis in the pupil accommodation review process.

Enabling Community Hubs in Schools

Through the Premier's special advisor Karen Pitre, our government has been considering how we can use public property in a manner that takes into account the best interests of local communities. A community hub can be a school, neighbourhood centre or other public space that offers co-ordinated services such as education, early years support, health care and social services.

Many schools have some space that is or could be used by community organizations through lease or other arrangements when the space is not required for school use. The province has encouraged school boards to work with local communities and in 2015 released the Ministry of Education's Community Planning Partnership Guideline to help facilitate these opportunities.

We have also made a number of investments to support this goal, including:

- Capital Funding for Community Hub School Retrofits: The Ministry of Education announced \$50 million in November 2016 to support retrofits of available school space for use by new community partners, or improve accessibility for schools to enable community use.
- Capital Funding for Community Replacement Space: In the event that an
 original school location that housed community partnerships is closed or sold,
 capital funding will be available for replacement space for eligible community
 partners in new schools, additions or retrofits to existing schools. Details
 regarding eligibility for this new program will be announced ahead of the Ministry
 of Education's 2017 Capital Priorities program request for submissions.

Surplus schools have also been identified as potential community hubs in some communities, and our government is serious about taking the next steps on this strategy:

- New Rules for Disposition or Lease of Surplus Property: Changes to O. Reg. 444/98 doubled the current minimum surplus school circulation period from 90 to 180 days, and expanded the list of organizations that can place an offer before surplus school property is placed on the open market. This is intended to enable potential community hub projects to reuse surplus school properties where there is a viable business plan and identified partnerships necessary to develop a community hub
- Disposition of Surplus School Board property: In 2017-18, we will also be
 proceeding with the recommendation in the Community Hubs Strategic
 <u>Framework and Action Plan</u> to consider supporting the sale of surplus schools at
 less than fair market value, where there is a provincial interest to enable viable
 community hubs, while keeping school boards whole.
- Community Hubs Summit: We are also pleased to announce that the Ontario Community Hubs Summit will be held from May 1-3, 2017, which will feature keynote speakers, hands-on workshops and opportunities to interact with and learn from others.

Recognizing that planning for strategic partnerships cannot be developed quickly or easily, in instances where communities and school boards see innovative solutions to local needs with opportunities for potential community hubs in school properties involved in accommodation reviews, we are requesting that school boards and municipalities with opportunities advise the Ministry of Education's Capital Policy and Programs Branch and the Ministry of Infrastructure's Community Hubs Division at community.hubs@ontario.ca preferably before the Community Hubs Summit. We will endeavor to work with the partners to ensure that these opportunities are considered within existing resources. In some cases, this could include providing facilitation services that would help community organizations, municipalities, and school boards develop their proposals for community hubs.

Enhancing Education in Rural and Remote Communities

Ontario's rural and remote communities have been impacted by a diversity of socioeconomic trends. We also know that the future will not look like the past. For our rural communities to thrive, our government knows that students must be supported by highquality education, strong local community programming, and innovative local economic strategies. That's why we've taken the following actions to support our rural and remote schools:

- Supporting Broadband Expansion: Our government is moving forward with its
 commitment in the 2016 Ontario Budget to provide secure, affordable broadband
 access to all of Ontario's students and educators, especially in northern and
 remote parts of Ontario, to enable equitable access to rich and innovative
 learning opportunities.
- Supporting E-Learning Opportunities: Our government provides secure
 access to the provincial Virtual Learning Environment which supports delivery of
 eLearning courses that otherwise might not be available close to a student's
 home. Additionally, we are investing over \$6 million for distance learning delivery
 by the Independent Learning Centre of TVO that helps students from a variety of
 backgrounds gain necessary education credentials. Together these support
 equitable and timely access to credit courses.
- Remote & Rural Funding Support for School Boards: We have made the
 education funding formula less dependent on enrolment. Since 2012-13, annual
 GSN funding for rural boards has increased by nearly \$200 million or 5.7 per
 cent. In addition, we have made the following changes the funding formula to
 meet the unique needs of rural and remote communities:
 - Increased funding to support the higher cost of purchasing goods and services for small and rural school boards;

- o Investments in top-up supports for rural schools to fund the heating, lighting and maintenance costs of excess spaces in schools that are a considerable distance from the next closest school:
- o Introduced new factors that reflect distance and dispersion of schools in the distribution of special education funding;
- Funding for additional principals in schools that combine elementary and secondary students, depending on enrolment levels; and
- o Funding to support a minimum number of teachers and early childhood educators for remote schools with small enrolment.

It is our hope that our engagement this coming spring will allow us to highlight further opportunities that will proactively enhance the quality and delivery of education in rural and remote communities in Ontario. We will work with our partners to finalize the details of this engagement process and share these in the coming weeks.

Conclusion

There are a number of initiatives across government that are working to ensure that we have complete communities – whether they are urban, rural, northern or remote. Each community has different needs and together we need to make sure we are working together.

We welcome your thoughts and suggestions as we continue to evolve to meet the changing demographics and needs of our communities.

Sincerely,

[Original Signed by]

[Original Signed by]

Hon. Mitzie Hunter

Hon, Bob Chiarelli

cc: Hon. Bill Mauro, Ontario Ministry of Municipal Affairs

Hon. Jeff Leal, Ontario Ministry of Agriculture Food and Rural Affairs

Association of Municipalities of Ontario

Rural Ontario Municipal Association

Ontario Catholic School Trustees' Association (OCSTA)

Ontario Public School Boards' Association (OPSBA)

L'Association des conseils scolaires des écoles publiques de l'Ontario (ACÉPO),

L'Association franco-ontarienne des conseils scolaires catholiques (AFOCSC);



Denise Holmes

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MPAC News - March 2017

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Industrial Wind Turbines Study Published

In advance of the 2016 Assessment Update, MPAC completed a 2016 Base Year Study on the impact the proximity to an industrial wind turbines (IWT) has on the assessments of residential properties. The study was conducted in response to the growing number of industrial wind turbines in Ontario and requests for information from stakeholders.

Our findings concluded that 2016 Current Value Assessments of properties within proximity of an industrial wind turbine are assessed at their current value and are equitably assessed in relation to homes at greater distances.

Further, by analyzing sales prices, our findings concluded that there is no statistically significant impact on sale prices of residential properties in these market areas resulting from proximity to an industrial wind turbine.

The <u>full study</u> is available on mpac.ca. For more information or to attend one of our webinar sessions please <u>contact your local account manager</u>.

Home Depot Appeals Resolution

Since resolving the Canadian Tire Corporation (CTC) appeals in November 2016, MPAC has been working closely with Home Denot to resolve 76 outstanding appeals for the 2008 and 2012

base years in a consistent fashion. Utilizing the CTC settlement framework as the basis, MPAC and Home Depot have collaboratively resolved the three core issues raised at appeal.

Based on the newly agreed upon framework, a Memorandum of Understanding (MOU) for the settlement has been signed between MPAC and Home Depot, effectively binding these parties to the settlement reached.

A property assessment bulletin with additional details was distributed on February 10. If you did not receive the bulletin or would like additional information please contact your local account manager.

Changes to the Property Assessment Change Notice schedule

Effective May 1, 2017, MPAC will begin delivering Property Assessment Change Notices (PACN) to property owners and omitted and supplementary assessment listings/tax files to municipalities on a monthly basis, with the last extract occurring on November 1.

The monthly extracts support MPAC's transparency and accountability initiatives under the Service Level Agreement with municipalities and it provides opportunities for MPAC's valuation staff to add assessment changes for all property types on a more predictable timeframe, resulting in a more equal distribution of growth.

Municipal Webinar Series: What's on the Horizon for 2017

MPAC is launching a three-part webinar series to provide a forum for municipalities to learn about key factors affecting the assessment and property landscape in 2017 including:

- Assessment base management practices
- The new two-way
 Service Level
 Agreement between
 MPAC and
 municipalities
- Changes to the appeal process

Beginning in March, the webinars will feature Carla Y. Nell and MPAC subject matter experts as well as a facilitator

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Industrial Wind Turbines

Impact of Industrial Wind Turbines on Residential Property Assessment In Ontario

The Municipal Property Assessment Corporation (MPAC) undertook a study to ensure that the assessments of properties in proximity to industrial wind turbines (IWTs) are fair and accurate. Over the last few years, the subject of IWTs has been the subject of numerous reports and studies — both in Canada and worldwide. Past and current studies undertaken by academics, real estate and health professionals have focused on the potential impacts of IWTs on property value and the health of those residing on the property. Given MPAC's legislated mandate, this report studies whether properties within five kilometres of an IWT are assessed at current value, and whether their assessment is equitable to those situated more than five kilometres from an IWT.

MPAC's study concludes that 2016 Current Value Assessments (CVAs) of properties located within proximity to an IWT are assessed at their current value and are equitably assessed in relation to homes at greater distances. This finding is consistent with MPAC's 2008 and 2012 CVA reports. The study underwent a rigorous independent third-party peer review (conducted by Robert J. Gloudemans) and includes appendices describing the study parameters and documenting the analyses.

2016 Base Year Study

Report - Impact of Industrial Wind Turbines on Residential Property Assessment in Ontario - 2016 Assessment Base Year Study [1]

- Appendix A [2]
- Appendix B [3]
- Appendix C [4]
- Appendix D [5]

2012 Base Year Study

Report - Impact of Industrial Wind Turbines on Residential Property Assessment In Ontario - 2012 Assessment Base Year Study [6]

- Appendix A [7]
- Appendix B [8]
- Appendix C [9]
- Appendix D1 [10]
- Appendix D2 [11]
- Appendix D3 [12]
- Appendix D4 [13]
- Appendix D5 [14]

- Appendix D6 [15]
- Appendix E [16]
- Appendix F [17]
- Appendix G [18]

Information on this page may not be fully accessible. Please contact us at 1 866 296-6722 or 1 877 889-6722 TTY to determine how we can best accommodate you.

Source URL: https://www.mpac.ca/PropertyOwners/IndustrialWindTurbines

Links

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IMPACT OF INDUSTRIAL WIND TURBINES ON RESIDENTIAL PROPERTY ASSESSMENT IN ONTARIO

2016 ASSESSMENT BASE YEAR STUDY

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Abstract

The Municipal Property Assessment Corporation (MPAC) undertook a study to ensure that the assessments of properties in proximity to industrial wind turbines (IWTs) are fair and accurate. Over the last few years, the subject of IWTs has been the subject of numerous reports and studies – both in Canada and worldwide. Past and current studies undertaken by academics, real estate and health professionals have focused on the potential impacts of IWTs on property value and the health of those residing on the property. Given MPAC's legislated mandate, this report studies whether properties within five kilometres of an IWT are assessed at current value, and whether their assessment is equitable to those situated more than five kilometres from an IWT.

MPAC's study concludes that 2016 Current Value Assessments (CVAs) of properties located within proximity to an IWT are assessed at their current value and are equitably assessed in relation to homes at greater distances. This finding is consistent with MPAC's 2008 and 2012 CVA reports. The study underwent a rigorous independent third-party peer review (conducted by Robert J. Gloudemans) and includes appendices describing the study parameters and documenting the analyses.

Authors of This Report

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Executive Summary

This report provides the results of the Municipal Property Assessment Corporation's study of the impact of industrial wind turbines (IWTs) on residential property assessment in Ontario (2016 Assessment Base Year Study).

Background

MPAC is responsible for accurately assessing and classifying property in Ontario in compliance with the *Assessment Act* and regulations set by the Government of Ontario. Our assessors are trained experts in the field of valuation and apply appraisal industry standards and best practices. Every four years, we conduct a province-wide Assessment Update and mail Property Assessment Notices to every property owner in Ontario. The most recent Assessment Update was in 2016 when we updated the assessed values of every property in Ontario. All properties were assessed as of the legislated valuation date of January 1, 2016. These updated values and classifications are used by municipalities and taxing authorities to calculate property taxes and are in effect for the 2017-2020 tax years.

When assessing any property, MPAC relies on the real estate market to indicate what influence a factor, such as IWTs, may have on a property's value. MPAC does this through the ongoing study and analysis of the market including the investigation of sales transactions.

Over the last few years, IWTs have been the subject of a number of reports and studies – both in Canada and worldwide. Studies undertaken by academics, real estate and health professionals have focused on the potential impacts of IWTs on property value and the health of those residing on the property. Given MPAC's legislative mandate, this report studies whether properties within five kilometres of an IWT are accurately assessed at their current value, and whether those properties are assessed equitably with properties that are further than five kilometres from an IWT.

To date, MPAC has completed three reviews of the impact of IWTs: 2008, 2012 and 2016 base year studies.

2008 Base Year Study

MPAC undertook a study looking at the impact of IWTs on residential assessments using the 2008 base year CVAs. The 2008 study concluded that the presence of IWTs that are either abutting or in proximity to a property had neither a positive nor negative impact on assessed values.

2012 Base Year Study

With much more sales data available, MPAC was able to conduct a more thorough review using 2012 assessment base year information. The study considered proximity and whether the wind turbine was visible (full, partial or not visible at all). A statistically significant difference was found between homes within one kilometre of an IWT and those farther away but the difference was well within international standards for equity between groups of property. All other tests showed equity between property groups. For more information about the 2012 base year review, see the introduction section of this report (which includes a link to the full report).

2016 Base Year Study

MPAC has continued to monitor the influence of proximity to IWTs over the current values of residential properties and has completed an analysis similar in scope to the 2012 Base Year Study.

To conduct this study, MPAC considered 25 market areas with sufficient sales to allow for analysis and applied industry standard mass appraisal techniques and internationally accepted ratio study standards to current value assessments for these market areas.

MPAC conducted an assessment-to-sale ratio study to determine whether assessments are equitable regardless of whether a property is within close proximity to an IWT. An individual assessment-to-sale ratio study is calculated by dividing the assessed value of each property by its time adjusted sale price. A ratio study is conducted to first establish the level of appraisal for a group of properties and equity is determined by comparing the level of appraisal with other groups of properties. If a group of properties is assessed at market value, the median assessment-to-sale ratio will lie between 0.90-1.10. By definition, equity is said to exist if the difference between the property categories is five per cent or less. This definition follows the International Association of Assessing Officers (IAAO) ratio study standards.

MPAC found that the level of appraisal for properties within one kilometre of an IWT is 1.007. The level of appraisal for properties within one to two kilometres of an IWT is 0.995. These numbers are within 3.3% and 2.1% of the level of assessment of properties more than five kilometres from an IWT (0.974) and are below the 5% noted above.

Conclusions

Following its review, MPAC concluded that 2016 Current Value Assessments of properties located within proximity of an IWT are assessed at their current value and are equitably assessed when compared to the assessments of properties that are not in proximity to IWTs.

Therefore, no adjustments are required for 2016 CVAs. This finding is consistent with MPAC's 2008 and 2012 base year IWT reports.

In addition to the results shared in this report, MPAC also commissioned an internationally recognized expert in the field of mass appraisal and ratio studies to review the report and its findings. This expert has confirmed the findings in this report (Appendix A – Independent Review of Report – Industrial Wind Turbine Ratio Study - R.J. Gloudemans, November 22, 2016).

Introduction

The topic of wind energy has been front and centre in the minds of many Ontarians, particularly those living in rural areas. Much has been written about how industrial wind turbines impact those who live in proximity to them. There has been extensive reporting on the numerous aspects of this subject, including reports of health effects, the approval process for siting IWTs and the potential for property devaluation due to the perceived stigma attached to these developments.

Several studies, based on both scientific and non-empirical methods, have been completed by academics and real estate professionals to determine whether or not the presence of an IWT has an effect on the sale price of a property. A study released by the Berkeley National Laboratory and prepared for the U.S. Department of Energy¹, found minimal impact on property values as a result of being in close proximity to IWTs. A study by the University of Guelph using Ontario data reached a similar conclusion². However, one Ontario case study³ released in 2013, argues that properties in Ontario in proximity to an IWT are devalued by as much as 30 to 35 per cent.

Also, Health Canada produced a study on the health effects of living near IWTs.4

2008 Base Year Study

MPAC conducted a study using 2008 base year Current Value Assessments, to determine whether residential properties located near IWTs were equitably assessed when compared to properties at a greater distance. The study was based on very limited sales information as there were few IWTs in the province at that time. As a result, it was difficult to draw meaningful conclusions with the 2008 study. Based on the available sale information, no adjustment to value was required for the 2008 Current Value Assessments.

2012 Base Year Study

In response to the growing presence of IWTs in Ontario as well as requests for information from stakeholders, MPAC undertook a new study using the 2012 base year CVAs to provide a thorough examination of the impact of IWTs on residential property assessment.

¹ Ben Hoen et al, "A Spatial Hedonic Analysis of the Effects of Wind Energy Facilities on Surrounding Property Values in the United States", Berkeley National Laboratory, August 2013

² Vyn, R. J., and R. M. McCullough. (2014). The effects of wind turbines on property values in Ontario: Does public perception match empirical evidence? *Canadian Journal of Agricultural Economics* 62 (3): 365-392.

Ben Lansink, "Case Studies: Diminution / Change in Price Melancthon and Clear Creek Wind Turbine Analyses, Municipal Property Assessment Corporation (MPAC) Current Value Changes," Lansink Appraisals and Consulting, February 2013
http://www.hc-sc.gc.ca/ewh-semt/noise-bruit/turbine-eoliennes/summary-resume-eng.php

Specifically, the study sought to examine the following two statements:

- Determine if residential properties in close proximity to IWTs are assessed equitably in relation to residential properties located at a greater distance. This was referred to as Study 1 – Equity of Residential Assessments in Proximity to Industrial Wind Turbines.
- 2. Determine if sale prices of residential properties are affected by the presence of an IWT in close proximity. This was referred to as Study 2 Effect of Industrial Wind Turbines on Residential Sale Prices.

Study 2 was added to the original scope of the review to respond to enquiries MPAC received from stakeholders and interested parties.

To conduct these studies, MPAC considered 15 market areas with sufficient sales to allow for analysis and applied industry standard mass appraisal techniques and internationally accepted ratio study standards.

To determine the equity of assessments of properties within close proximity to an IWT, MPAC conducted an assessment-to-sale ratio (ASR) study. An individual ASR is calculated by dividing the assessed value of each property by its time-adjusted sale price. A ratio study is conducted to first establish the level of appraisal for a group of properties and equity is determined by comparing the level of appraisal with other groups of properties. If a group of properties is assessed at market value, the median ASR will lie between 0.90-1.10⁵. By definition, equity is said to exist if there is 5% or less difference between property categories (or groups of properties) as per International Association of Assessing Officers (IAAO) ratio study standards.

The level of appraisal for properties within one kilometre of an IWT was 1.034. The level of appraisal for properties at greater distance (one to two kilometres, two to five kilometres and over five kilometres) ranged from 0.989 to 0.992, a 4.2 to 4.5% differential, which is below the 5% noted above.

Following its review, MPAC concluded that 2012 CVAs of properties located within proximity of an IWT were assessed at their current value and were equitably assessed in relation to homes at greater distances from the IWTs. No adjustments were required for 2012 CVAs. This finding is consistent with MPAC's 2008 CVA report.

MPAC's findings also concluded that there was no statistically significant impact on sale prices of

⁵ MPAC adopted the IAAO Ratio Study standards for the 2016 assessment update. Therefore, the Target Level of Assessment (LOA) changed between 2012 and 2016 from 0.95 – 1.05 to 0.90 – 1,10. See International Association of Assessing Officers, Standard on Ratio Studies, April 2013, pp. 17-19

residential properties in these market areas resulting from proximity to an IWT, when including distance to an IWT in its regression analysis for areas with adequate sales.

In addition to the results shared in this report, MPAC also commissioned an internationally recognized expert in the field of mass appraisal and ratio studies to review the report and its findings. This expert confirmed MPAC's findings in his report.

To see the full 2012 base year study <u>click here</u>.

Purpose of This Report

This 2016 base year report has been undertaken to ensure that the assessments on residential properties in proximity to IWTs are accurate and equitable. Specifically, the report examines whether residential properties in close proximity to IWTs are assessed equitably in relation to residential properties located at a greater distance.

Legislation

Sections of the Assessment Act relevant to this study include the following:

Section 1 (1): "current value" means, in relation to land, the amount of money the fee simple, if unencumbered, would realize if sold at arm's length by a willing seller to a willing buyer; ("valeur actuelle").

Section 19 (1): The assessment of land shall be based on its current value.

Section 44 (3): For 2009 and subsequent taxation years, in determining the value at which any land shall be assessed, the Board shall,

- determine the current value of the land; and
- have reference to the value at which similar lands in the vicinity are assessed and adjust
 the assessment of the land to make it equitable with that of similar lands in the vicinity
 if such an adjustment would result in a reduction of the assessment of the land. 2008,
 c. 7, Sched. A, s. 13.

Under the Assessment Act and associated regulations, (Ontario Regulation 282/98, Section 42.5), IWTs are valued at a prescribed rate per taxation year (Table 1). The value of the IWT, plus the value of the associated land, is placed in the industrial tax class.

Table 1 - IWT Valuation

Property Tax Year	IWT Value Per MW
2013 and earlier	\$40,000
2014	\$42,658
2015	\$43,542
2016	\$43,986
2017	\$50,460
2018	\$50,460
2019	\$50,460
2020	\$50,460

Valuation of Residential Properties

To estimate value of residential properties, MPAC applies the direct comparison approach through mass appraisals. The direct comparison approach estimates the current value of a subject property by comparing it to similar properties and adjusting the result to account for differences between the two properties. Mass appraisal uses standardized processes and common data to allow for the valuation of a group of properties and the statistical testing of the results. For more information on how residential properties are assessed, go to <u>mpac.ca</u>.

Multiple Regression Analysis

MPAC uses industry standard computer-assisted mass appraisal techniques to apply the direct comparison approach to value through a statistical tool known as multiple regression analysis.

Regression analysis is a statistical technique used to analyze data in order to predict the value of one variable, such as market value, based on known data (e.g., living area, lot size, quality, location, etc.). If only one variable is used, such as living area, the procedure is called simple regression analysis. When two or more variables are used in the analysis, the procedure is called multiple regression analysis.

Multiple regression analysis estimates the value of one variable (i.e., the dependent variable) based on the information from the available data (i.e., the independent variables). Assessing authorities, such as MPAC, develop an equation that estimates current value based on the sale prices and property characteristics of sold properties. The equation, or valuation model, provides the best estimate of current value in statistical terms since it reduces the overall error between sale price and predicted value (estimated current value) to the lowest possible amount in dollar terms.

Market Areas

In Ontario, MPAC has approximately 130 residential market areas. Market areas are geographic areas subject to the same economic influences. One valuation model is built for each market area. A market area could be a section of a large city, like Toronto, a medium sized city like Niagara Falls or a cluster of smaller towns. Also, it could be the rural residential properties within a county or a group of lakes in a recreational waterfront area such as Muskoka or Kawartha Lakes.

Key Factors Affecting Value

Approximately 85% of the current value of a property can be attributed to the following five property characteristics: location, building area, construction quality, lot size and age of the home adjusted for renovations and additions. Other features that may be adjusted for include;

water frontage, building amenities (e.g., basement area, basement finish, bathrooms, fireplaces, heating, air conditioning), secondary structures (e.g., garages, in-ground pools), site features (e.g., abutting green space, abutting a ravine, abutting a commercial property, topography, corner lot, traffic pattern). Value influences differ across the province and therefore will not have the same impact on every market model.

Legislated Valuation Date

All estimates of current value represent market conditions as of January 1, 2016, which is the legislated valuation date for the 2017-2020 property tax years. As a result, part of MPAC's analysis is to determine the amount of inflation or deflation in each market area and adjust sale prices for time in relation to the legislated valuation date.

Assessment-to-Sale Ratio Study

Once each valuation model has been developed, it is tested to ensure it is producing accurate and uniform estimates of value using a sale ratio study, which compares value estimates to actual sale prices. This study ensures that the overall level of assessment for the market area is within international standards for accuracy and uniformity. The second aspect of the ratio study is to ensure that equity has been achieved across all major property characteristics.

Application of Valuation Model

Once the statistical testing has been completed and the valuation model for each market area has been deemed appropriate, it is applied to all the applicable properties in the market area and qualified valuation staff commence individual value review. The purpose of this exercise is to reconcile the value estimates to ensure that an accurate and equitable assessment has been placed on each property. These efforts tend to focus on areas with few sales and properties with features that cannot be captured within mass appraisal models. This review work continues up until the Assessment Roll is provided to each municipality and will include sales before and after the valuation date.

Industrial Wind Turbines

2016 Base Year Analysis

Between 2008 and 2016, Ontario has seen a proliferation of wind turbine projects with the introduction of the *Green Energy Act* in 2009 and the Feed-in-Tariff (FIT) program. This has resulted in a large set of available sales data for properties in proximity to these projects.

For the purposes of the 2016 base year study, MPAC has adopted a definition of an IWT to be one with a capacity of at least 1.5 megawatts. MPAC analyzed sales located within five kilometres of any IWT with this generating capacity. This is consistent with the definition currently being used by Health Canada⁶ and was used for the 2008 and 2012 MPAC studies.

Data Collection

To ensure MPAC's inventory of IWTs was as complete as possible, MPAC obtained NAV Canada's entire flight obstacle inventory, which included the geographic coordinates of every self-reported IWT in Ontario. NAV Canada's inventory is subject to voluntary reporting compliance and thus does not include every IWT/flight obstacle. Any IWTs identified by NAV Canada that had not yet been field inspected by MPAC, were inspected by local staff and all relevant data was keyed into MPAC's database. Any IWTs identified in MPAC's database that were not included on NAV Canada's database were either inspected by local MPAC staff and the geographic coordinates were collected, or determined through the use of satellite digital imagery. To track the inventory, MPAC assigns a structure code of 567 to represent IWTs.

To ensure the database inventory was accurate, MPAC staff then conducted quality checks of all IWT data, including its generating capacity and geographic coordinates to ensure accuracy (e.g., co-ordinates not placing the IWTs on the correct property). Of the 2,321 IWTs in MPAC's database after this exercise, 48 were removed for having a capacity below 1.5 MW and two were removed for other reasons, leaving 2,271 IWTs for review. The distribution across MPAC's market areas is as follows:

⁶ http://www.hc-sc.gc.ca/ewh-semt/consult/_2013/wind_turbine-eoliennes/comments_part1-commentaires_partie1-eng.php#a16

Table 2 – Count of IWTs by MPAC Region

MPAC Region Region Description		IWT Count	Property Count	
01 - Cornwall	Prescott & Russell County, Stormont Dundas & Glengarry County	10	9	
05 – Kingston	Frontenac County, Lennox & Addington County	91	68	
18 – St. Catharines	The Region of Niagara	10	7	
20 – Brantford	Brantford City, Brant, Haldimand and Norfolk Counties	234	192	
22 – Kitchener	Regional Municipality of Waterloo, Dufferin and Wellington County, City of Guelph	220	153	
23 – London	Elgin, Middlesex & Oxford Counties	137	123	
24 – Goderich	Huron & Perth Counties	284	217	
25 – Owen Sound	Grey & Bruce Counties	280	222	
26 – Chatham	Chatham-Kent, Lambton County	602	510	
27 – Windsor	Windsor/Essex	173	148	
Regional Municipality of Sudbury, Territorial 30 - Sudbury District of Sudbury, Territorial District of Manitoulin		25	24	
31 – Sault Ste. Territorial District of Algoma		162	46	
32 – Thunder Bay	Territorial District of Kenora, Territorial District of Rainy River, Territorial District of Thunder Bay	43	43	
Overall		2,271	1,762	

As some properties had more than one IWT erected on them, the property count does not match the count of IWTs.

Virtually all IWTs are erected on vacant lots or farm properties, with almost 95% located on farms and most of the remainder on vacant lots.

The year of construction of IWTs in the database ranges from 2002 to 2016, with a breakdown as follows:

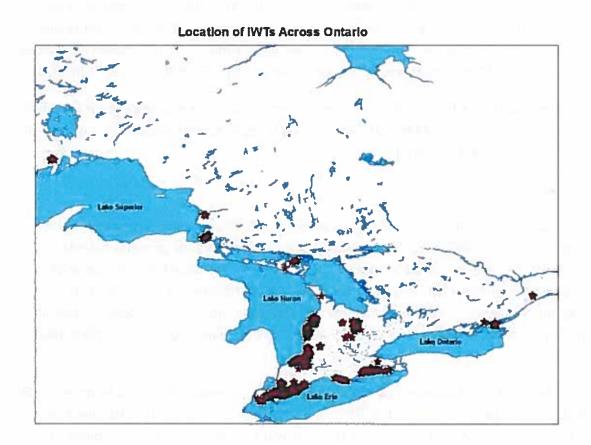
Table 3 - Typical Physical Characteristics of IWTs Across Ontario

MPAC Region	Median Year of Construction	Earliest Year of Construction	Latest Year of Construction	Median Generating Capacity	Minimum Generating Capacity	Maximum Generating Capacity
01 - Cornwall	2014	2014	2014	3.00	3.00	3.00
05 - Kingston	2008	2008	2014	2.30	1.65	2.30
18 – St. Catharines	2014	2014	2014	1.80	1.80	1.80
20 - Brantford	2013	2007	2014	2.20	1.50	2.30
22 - Kitchener	2008	2006	2014	1.50	1.50	2.75
23 - London	2014	2006	2015	1.62	1.50	2.22
24 - Goderich	2015	2006	2016	1.80	1.50	2.30
25 – Owen Sound	2008	2002	2015	1.80	1.60	2.30
26 – Chatham	2012	2008	2015	2.03	1.50	2.50

Overall	2012	2002	2016	1.80	1.50	3.00
32 – Thunder Bay	2010	2010	2010	2.30	2.30	2.30
31 – Sault Ste. Marie	2006	2006	2015	1.50	1.50	1.62
30 - Sudbury	2014	2004	2014	2.50	1.80	2.50
27 – Windsor	2010	2010	2013	2.30	1.65	2.30

The following map shows the locations of the IWTs used in the analysis.

Figure 1



Equity of Residential Assessments in Proximity to Industrial Wind Turbines

For this study, MPAC analyzed open market sales of improved residential properties from January 2012 through October 2016 in the market areas surrounding IWTs. A market area is defined as a geographic area, usually contiguous, subject to the same economic influences, where properties tend to increase or decrease in value together. Improved residential properties would include single detached houses, semi-detached houses, townhouses, and multiplex properties with up to six self-contained units. Farms, commercial and industrial properties were not included in this analysis.

Comparison to the 2012 Base Year Study

This study is similar to the one conducted for the 2012 base year. To provide clarity to readers who are familiar with the 2012 study, a summary of similarities and differences is provided below.

Similarities

The methodology is the same. Both reports contain a sale ratio study which compares the median level of assessment between different groups of properties. The details of the sale ratio study are provided below. The number of sales in proximity to an IWT has increased due to the increase in IWT construction over the past four years (1157 in 2012 vs. 2271 in 2016).

IWTs with a capacity less than 1.5MW have been removed when measuring distance to an IWT: 28 were removed in 2012 vs. 48 in 2016 (note one IWT was removed in 2016 that was situated on a nuclear power plant property).

Differences

For the 2012 study distance from an IWT to a property was measured from the corner of the dwelling to the closest IWT. For 2016, distance was measured from the property boundary nearest the IWT. It was found to be too time-consuming to collect data from the corner of the dwelling as this required a field inspection to obtain the coordinates for the corner of the dwelling, and would require field visits as new IWTs are constructed in the future. As mapping information becomes more sophisticated, MPAC will look for ways to collect this information electronically.

In 2012, MPAC collected data on how much of an IWT was in view (full, partial or none) for all residences within two kilometres of an IWT. This data was not collected for 2016 because it didn't impact the assessment in 2012 and this data was too time-consuming to collect. It

required a physical inspection and photos taken at each property whenever a new IWT was constructed and required significant resources to keep the database up to date. MPAC will look to published research and studies and if an efficient method surfaces, we will consider implementing it.

A new measure for the 2016 study is the concentration of IWTs around residential properties. This was measured using Geographical Information Systems (GIS) to determine the number of IWTs within the distance grouping for each sale (i.e. number of IWTs within one kilometre, two kilometres or five kilometres of a sale). This allows MPAC to test if the number of IWTs in proximity to a residence affects the level of assessment.

2016 Base Year Study

Sales

For this study, sales in proximity to IWTs were found in 25 market areas.

Table 4 – MPAC Market Area Descriptions

Market Area	MPAC Region	Description		
01RR010	01 - Cornwall	City of Cornwall and the Counties of Prescott & Russell, Stormont, Dundas and Glengarry		
05RR030	05 – Kingston	Napanee, Loyalist Township, Frontenac/Lenno Addington Counties South Rural/Waterfront		
16RR030	16 - Barrie	Simcoe West		
18RR010	18 – St. Catharines	Niagara Rural		
18WF010	18 – St. Catharines	Niagara/Lake Erie Waterfront		
19RR010	19 – Hamilton	Hamilton Rural		
20RR010	20 - Brantford	Brant, Haldimand, Norfolk Counties - Rural/Waterfront		
22RR010	22 – Kitchener	Dufferin & Wellington Counties - Rural		
22UR020	22 – Kitchener	Dufferin County Villages		

22UR030	22 – Kitchener	Wellington County Villages
23RR010	23 – London	Elgin, Middlesex & Oxford Counties - Rural
23UR030	23 – London	Towns of Tillsonburg, Ingersoll, Woodstock, Aylmer, St. Thomas and Strathroy
24RR010	24 – Goderich	Huron & Perth Counties - Rural
25RR010	25 – Owen Sound	Grey & Bruce Counties - Rural and Inland Lakes
25UR010	25 – Owen Sound	Grey & Bruce Counties - Urban
26RR010	26 – Chatham	Chatham-Kent - Rural/Wallaceburg
26RR030	26 – Chatham	Lambton County - Rural/Waterfront
26UR010	26 – Chatham	City of Chatham
27RR010	27 – Windsor	Essex County Rural and Towns
27UR070	27 – Windsor	Lasalle, Tecumseh, Lakeshore Urban & Essex Urban
30RR010	30 - Sudbury	District of Sudbury
31RR010	31 – Sault Ste Marie	District of Algoma
31UR010	31 – Sault Ste Marie	Sault Ste. Marie/Prince Township
45WF050	24 – Goderich 25 – Owen Sound 26 - Chatham	Lake Huron
78WF040	16 – Barrie 17 – Bracebridge 25 – Owen Sound 28 – North Bay	Georgian Bay

Adjustments for being in proximity to IWTs were not included when establishing CVAs for the 2008, 2012 or 2016 base years in any of these market areas.

Sales Filters

To account for typical minimum sale amounts, any sale below \$10,000 was removed in Southwestern or Eastern Ontario, and any sale below \$5,000 was removed in Northern Ontario. Any sale of a property on which an IWT sits was removed from analysis to avoid the potential influence that the income stream associated with such properties may exert. As concerns about noise and vibration have been raised by IWT opponents, sales of vacant land were removed (i.e. only properties with a residence were included). There were two market areas with five or fewer sales and these were excluded from the analysis (Goderich urban area and Kingston urban area). Sales that were not open market transactions or suspected to not be arms-length open market transactions were removed from the analysis. Finally, those with extreme ratios of CVA to sale price as defined by the International Association of Assessing Officers (IAAO) Standard on Ratio Studies were also removed from analysis.

Assessment-to-Sale Ratio Study

To establish the level of assessment and test for equity, MPAC conducts an assessment-to-sale ratio study. The assessment-to-sale ratio study is determined for each sold property by dividing the assessed value by its sale price or time adjusted sale price.

International standards state that a group of properties is assessed at current value if the level of assessment lies between 0.90 - 1.10. The preferred measurement of the level of assessment is the median ASR for the group of properties being studied.⁸

The level of assessment (LoA) for different categories of properties can be compared against one another to ensure that they align and if so, the properties between each group are said to be equitably assessed. Groups of properties would be said to be inequitably assessed if there was a statistically significant difference between their respective levels of assessment (at least 5%).

Median ASRs and their 95% confidence intervals were calculated for groups of distance variables. The median always divides the data into two equal parts and is less affected by extreme ratios than other measures of central tendency. Because of these characteristics, the median is generally the preferred measure of central tendency and is used to determine LoA in this report.

⁷ International Association of Assessing Officers, Standard on Ratio Studies, April 2013, pp. 53-54

⁸ International Association of Assessing Officers, Standard on Ratio Studies, April 2013, pp. 13

When the calculated median is based on sample data, the result is called a point estimate, which is accurate for the sample but is only one indicator of the level of assessment in the population. Confidence intervals around the point estimate provide indicators of the reliability of the sample statistics as predictors of the overall level of appraisal of the population. Note that noncompliance with appraisal level standards cannot be determined without the use of confidence intervals or hypothesis tests9. A confidence interval consists of two numbers (upper and lower limits) that bracket a calculated measure of central tendency for the sample; there is a specified degree of confidence that the calculated upper and lower limits bracket the true measure of central tendency for the population.

MPAC looked at three different data elements in determining if equity exists:

- 1. Abutting a property with an IWT
- 2. Distance to closest IWT
- 3. Number of IWTs within each distance range
- 1. Abutting a Property with an IWT

Table 5 - Abutting an IWT Sale Ratio Study

Assessment Update Year	Sales Count	LoA	95% LCL	95% UCL	Target LoA ¹⁹	LoA within Target LoA	Confidence Intervals Overlap Target LoA	Corrective Action Required
2012	32	1.002	0.929	1.121	0.95 - 1.05	Yes	Yes	No
2016	166	0.997	0.970	1.025	0.90 - 1.10	Yes	Yes	No

There are 166 sales of properties that abut an IWT. The level of assessment is 0.997. There is no inequity with regard to properties that abut an IWT.

2. Distance to Closest IWT

A breakdown of the 110,338 sales used in the analysis, by distance, follows:

⁹ International Association of Assessing Officers, Standard on Ratio Studies, April 2013, p. 13

¹⁰ MPAC adopted the IAAO Ratio Study standards for the 2016 assessment update, hence why the Target Level of Assessment (LOA) changed between 2012 and 2016

Table 6 – Distance Grouping by Market Area

Market Area	MPAC Region	< 1 km	1-2 km	2-5 km	> 5 km	Total
01RR010	01 - Cornwall	9	4	36	11,914	11,963
05RR030	05 – Kingston	30	13	335	3,748	4,126
16RR030	16 - Barrie	0	0	6	6,482	6,488
18RR010	18 – St. Catharines	11	45	95	2,262	2,413
18WF010	18 – St. Catharines	0	18	31	186	235
19RR010	19 – Hamilton	0	8	38	1,742	1,788
20RR010	20 - Brantford	247	351	1,230	6,961	8,789
22RR010	22 – Kitchener	83	67	217	2,570	2,937
22UR020	22 – Kitchener	0	0	689	3,149	3,838
22UR030	22 – Kitchener	0	135	38	3,610	3,783
23RR010	23 – London	13	89	284	7,156	7,542
23UR030	23 – London	0	0	353	9,567	9,920
24RR010	24 – Goderich	23	55	268	3,731	4,077
25RR010	25 – Owen Sound	32	37	250	3,473	3,792
25UR010	25 – Owen Sound	0	24	279	6,130	6,433
26RR010	26 – Chatham	298	920	1,109	847	3,174
26RR030	26 Chatham	18	152	557	2,530	3,257
26UR010	26 – Chatham	0	0	559	2,125	2,684
27RR010	27 – Windsor	216	483	1,436	3,915	6,050

27UR070	27 – Windsor	4	265	250	4,762	5,281
30RR010	30 - Sudbury	0	4	17	1,883	1,904
31RR010	31 – Sault Ste Marie	0	7	25	2,527	2,559
31UR010	31 – Sault Ste Marie	0	12	31	4,180	4,223
45WF050	24 – Goderich 25 – Owen Sound 26 – Chatham	0	2	596	1,162	1,760
78WF040	16 – Barrie 17 – Bracebridge 25 – Owen Sound 28 – North Bay	0	0	22	1,300	1,322
TOTAL		984	2,691	8,751	97,912	110,338

Refer to Table 1 for market area descriptions.

Comparing the median assessed value to the median time adjusted sale amount by the distance categories shows that the figures are very similar. Consider Figure 2 below. To make this comparison, one must consider the height of the blue and green bars for each of the distance groupings. Similar heights indicate that the median sale price (adjusted to January 1, 2016) and the median assessed value are similar. Comparisons between the different distance groupings should not be made because this chart does not control for differences in the housing stock of each grouping. These differences could be physical (building size or age) or differences due to location (e.g., homes further than 5km from an IWT being closer to urban centers). The results for all sales are provided in Figure 2.

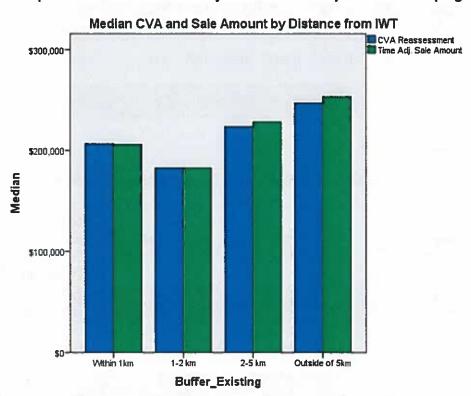


Figure 2 – Comparison of CVA and Time Adjusted Sale Price by Distance Groupings

Appendix B – Current Value Assessment and Sale Amount Bar Charts contains a similar bar chart for each market area.

The following tables compare the 2012 results to the 2016 results.

2. Distance to Closest IWT All Sales

2012 Assessment Update

Table 7 - Distance Grouping Sale Ratio Study 2012 Current Value Assessment

Distance Grouping	Sales Count	LoA	95% LCL	95% UCL	Target LoA	LoA within Target LoA	Confidence Intervals Overlap Target LoA	Corrective Action Required
Within 1 km	279	1.034	1.011	1.057	0.95 - 1.05	Yes	Yes	No
1 km to 2 km	989	0.989	0.979	1.000	0.95 - 1.05	Yes	Yes	No

2 km to 5 km	3,063	0.992	0.988	0.997	0.95 - 1.05	Yes	Yes	No
Outside 5 km	37,093	0.992	0.991	0.993	0.95 – 1.05	Yes	Yes	No
OVERALL	41,424	0.992	0.991	0.994	0.95 - 1.05	Yes	Yes	No

2016 Assessment Update

Table 8 - Distance Grouping Sale Ratio Study 2016 Current Value Assessment

Distance Grouping	Sales Count	LoA	95% LCL	95% UCL	Target LoA	LoA within Target LoA	Confidence Intervals Overlap Target LoA	Corrective Action Required
Within 1 km	984	1.007	0.993	1.019	0.90 - 1.10	Yes	Yes	No
1 km to 2 km	2,691	0.995	0.989	1.003	0.90 - 1.10	Yes	Yes	No
2 km to 5 km	8,751	0.977	0.974	0.980	0.90 - 1.10	Yes	Yes	No
Outside 5 km	97,912	0.974	0.973	0.974	0.90 - 1.10	Yes	Yes	No
OVERALL	110,338	0.974	0.974	0.975	0.90 - 1.10	Yes	Yes	No

The level of appraisal for properties within one kilometre of an IWT has fallen while it has increased slightly for properties with IWTs one to two kilometres away. The difference between both groups and properties outside five kilometres of an IWT is statistically significant (the confidence intervals don't overlap). The difference between sales within one kilometre and sales outside five kilometres is 3.3% (the confidence intervals are 1.9% apart). The difference between sales one to two kilometres from an IWT and outside five kilometres is 2.1% (the confidence intervals are 1.5% apart). Both these differences are well within IAAO standards for equity between groups of properties.

Appendix C – Distance Grouping 2016 Sale Ratio Study by Market Area contains assessment-to-sale ratio data for each Market Area.

Distance to Closest IWT - Rural Properties Only

2012 Assessment Update

Table 9 – Distance Groupings – Rural Market Sale Ratio Study 2012 Current Value Assessment

Distance Grouping	Sales Count	LoA	95% LCL	95% UCL	Target LoA	LoA within Target LoA	Confidence Intervals Overlap Target LoA	Corrective Action Required
Within 1 km	278	1.034	1.011	1.055	0.95 - 1.05	Yes	Yes	No
1 km to 2 km	715	0.996	0.982	1.008	0.95 - 1.05	Yes	Yes	No
2 km to 5 km	2,284	0.999	0.993	1.005	0.95 - 1.05	Yes	Yes	No
Outside 5 km	23,135	0.995	0.993	0.997	0.95 – 1.05	Yes	Yes	No
OVERALL	26,412	0.996	0.994	0.997	0.95 - 1.05	Yes	Yes	No

2016 Assessment Update

Table 10 - Distance Grouping - Rural Market Sale Ratio Study 2016 Current Value Assessment

Distance Grouping	Sales Count	LoA	95% LCL	95% UCL	Target LoA	LoA Within Target LoA	Confidence Intervals Overlap Target LoA	Corrective Action Required
Within 1 km	980	1.007	0.992	1.019	0.90 - 1.10	Yes	Yes	No
1 km to 2 km	2,235	0.999	0.992	1.007	0.90 - 1.10	Yes	Yes	No
2 km to 5 km	5,903	0.986	0.982	0.990	0.90 - 1.10	Yes	Yes	No
Outside 5 km	61,741	0.976	0.974	0.977	0.90 - 1.10	Yes	Yes	No
OVERALL	70,859	0.977	0.976	0.978	0.90 - 1.10	Yes	Yes	No

The 2016 results for rural properties are similar to the results using all sales. The statistics are virtually unchanged.

3. Number of IWTs within each Distance Range

For the 2016 study, MPAC examined how the level of assessment changed when the number of IWTs within each grouping changed to determine whether the concentration of IWTs around a residence impacts the level of assessment. The results are provided below.

Table 11 – Number of IWTs within 1 km Sale Ratio Study 2016 Current Value Assessment

IWT Count	Sales Count	LoA	95% LCL	95% UCL	Target LoA	LoA within Target LoA	Confidence Intervals Overlap Target LoA	Corrective Action Required
1-3 IWTs	900	1.003	0.990	1.016	0.90 - 1.10	Yes	Yes	No
4-6 IWTs	80	1.022	0.990	1.053	0.90 - 1.10	Yes	Yes	No
7-9 IWTs	4	1.002	0.934	1.034	0.90 - 1.10	Yes	Yes	No
OVERALL	984	1.007	0.993	1.019	0.90 - 1.10	Yes	Yes	No

The level of assessment is fairly consistent within one kilometre of an IWT. For properties with four to six IWTs within one kilometre, the ASR is 1.022. There are 80 sales in this grouping.

a. Number of IWTs within one to two kilometres of a Residence (properties within one kilometre of an IWT filtered)

Table 12 – Number of IWTs within 1 km to 2 km Range Sale Ratio Study 2016 Current Value Assessment

IWT Count	Sales Count	LoA	95% LCL	95% UCL	Target LoA	LoA within Target LoA	Confidence Intervals Overlap Target LoA	Corrective Action Required
1-3 IWTs	2,062	0.997	0.990	1.005	0.90 - 1.10	Yes	Yes	No
4-6 IWTs	529	0.983	0.968	1.011	0.90 - 1.10	Yes	Yes	No
7-9 IWTs	54	1.020	0.957	1.111	0.90 - 1.10	Yes	Yes	No
10-15 IWTs	39	0.971	0.937	1.057	0.90 - 1.10	Yes	Yes	No

16-20 IWTs	4	0.907	N/A11	N/A	0.90 - 1.10	Yes	Yes	No
21-30 IWTs	3	1.172	N/A	N/A	0.90 - 1.10	Yes	Yes	No
OVERALL	2,691	0.995	0.989	1.003	0.90 - 1.10	Yes	Yes	No

Any properties with IWTs within one kilometer are filtered for this table. There appears to be no pattern for properties that have IWTs within one to two kilometres. The median for properties with seven to nine IWTs is 1.020 but the lower confident limit is 0.957. There are a very small number of observations beyond 15 IWTs which has resulted in median levels of assessment diverging from 1.00. There are too few sales to calculate confidence intervals for these two groups of turbine counts.

b. Number of IWTs within two to five kilometres of a Residence (properties within two kilometres of an IWT filtered)

Table 13 – Number of IWTs within 2 km to 5 km Sale Ratio Study 2016 Current Value Assessment

IWT Count	Sales Count	LoA	95% LCL	95% UCL	Target LoA	LoA Within Target LoA	Confidence Intervals Overlap Target LoA	Corrective Action Required
1-3 IWTs	3,317	0.976	0.971	0.980	0.90 - 1.10	Yes	Yes	No
4-6 IWTs	2,264	0.975	0.969	0.980	0.90 - 1.10	Yes	Yes	No
7-9 IWTs	997	0.988	0.977	0.998	0.90 - 1.10	Yes	Yes	No
10-15 IWTs	1,795	0.976	0.969	0.983	0.90 – 1.10	Yes	Yes	No
16-20 IWTs	204	0.989	0.957	1.017	0.90 - 1.10	Yes	Yes	No
21-30 IWTs	145	0.992	0.961	1.040	0.90 - 1.10	Yes	Yes	No

[&]quot;When the sample size is five or fewer, the 95 percent confidence interval is nonexistent. When there are six to eight ratios, the lower and upper 95 percent confidence limits equal the lowest and highest ratios in the sample, and caution is advised." Gloudemans, Robert and Richard Almy, Fundamentals of Mass Appraisal, International Association of Assessing Officers, Kansas City, Missouri, 2011, p. 366.

31-40 IWTs	13	0.998	0.886	1.112	0.90 - 1.10	Yes	Yes	No
41+ IWTs	16	1.034	0.982	1.103	0.90 - 1.10	Yes	Yes	No
OVERALL	8,751	0.977	0.974	0.980	0.90 - 1.10	Yes	Yes	No

Any properties with IWTs within two kilometres are filtered for this table. The median for properties with more than 40 IWTs within five kilometres is 1.034 with 16 observations. All the lower confidence intervals are below 1.00.

c. Properties more than five kilometres from an IWT (Control Group)

Table 14 – Sale Ratio Study for Properties with no IWTs within 5km (Control Group) 2016 Current Value Assessment

IWT Count	Sales Count	LoA	95% LCL	95% UCL	Target LoA	LoA Within Target LoA	Confidence Intervals Overlap Target LoA	Corrective Action Required
No IWTs	No.			eli i su i su i				
within 5km	97,912	0.974	0.973	0.974	0.90 – 1.10	Yes	Yes	No

These are the properties with no IWTs within five kilometres. They are being shown for comparison purposes.

Appendix D – Number of IWTs by Distance Grouping 2016 Sale Ratio Study by Market Area contains assessment-to-sale ratio data for each market area.

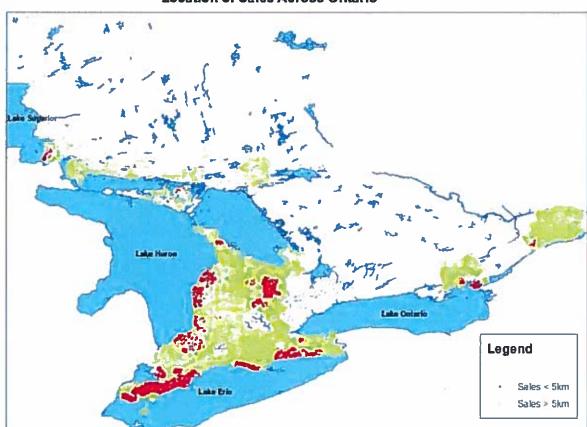
County Results

The statistics below were run at the county level to determine whether there were any patterns across the province. Overall, the results were very consistent with two exceptions: rural areas of Huron and Perth Counties and Grey and Bruce Counties. For properties in Huron/Perth within one kilometre of one or more IWTs the median sale ratio was low at 0.844. For properties in Grey/Bruce within one kilometre of one or more IWTs the median was high at 1.03. This was consistent regardless of the number of IWTs in both cases. Given the close geographical proximity of these counties, the results seem unusual and will require further review.

Table 15 – Sale Ratio Study for Properties within 1 km of IWTs - Regions 24 and 25 2016 Current Value Assessment

1.00								
County	Sales Count	LoA	95% LCL	95% UCL	Target LoA	LoA within Target LoA	Confidence Intervals Overlap Target LoA	Corrective Action Required
Huron/Perth	23	0.844	0.768	0.949	0.90 - 1.10	No	Yes	No
Grey/ Bruce	32	1.030	0.929	1.081	0.90 – 1.10	Yes	Yes	No

Figure 3 – Location of Sales Used in the Analysis (Red within 5 km of an IWT, Green outside 5 km of an IWT)



Location of Sales Across Ontario

Summary of Findings

Section 9.2.1 of the International Association of Assessing Officers (IAAO) Standard on Ratio Studies states:

"The level of appraisal of each stratum (class, neighborhood, age group, market areas, and the like) should be within 5 percent of the overall level of appraisal of the jurisdiction. For example, if the overall level of appraisal of the jurisdiction is 1.00, but the appraisal level for residential property is 0.93 and the appraisal level for commercial property is 1.06, the jurisdiction is not in compliance with this requirement. This test should be applied only to strata subject to compliance testing. It can be concluded that this standard has been met if 95 percent (two-tailed) confidence intervals about the chosen measures of central tendency for each of the strata fall within 5 percent of the overall level of appraisal calculated for the jurisdiction. Using the above example, if

the upper confidence limit for the level of residential property is 0.97 and the lower confidence limit for commercial property is 1.01, the two strata are within the acceptable range."

Sales within one kilometre of an IWT showed a level of appraisal that was higher than the median assessment-to-sale ratio of sales further away (median assessment-to-sale ratio of 1.007). The lower confidence level of sales within one kilometre of an IWT is 0.993. This is well within 5% of the overall level of appraisal (0.993 – 0.974 = 1.9%). Sales within one to two kilometres of an IWT showed a level of appraisal that was also higher than the median assessment-to-sale ratio of sales further away (median assessment-to-sale ratio of 0.995). The lower confidence level of sales within one to two kilometres of an IWT is 0.989. This is also well within 5% of the overall level of appraisal (0.989 – 0.974 = 1.5%). So, although sales within two kilometres of an IWT do have a level of assessment above the overall level, the difference is not great enough to require value adjustment according to IAAO guidelines. These findings are illustrated in the following box plot.

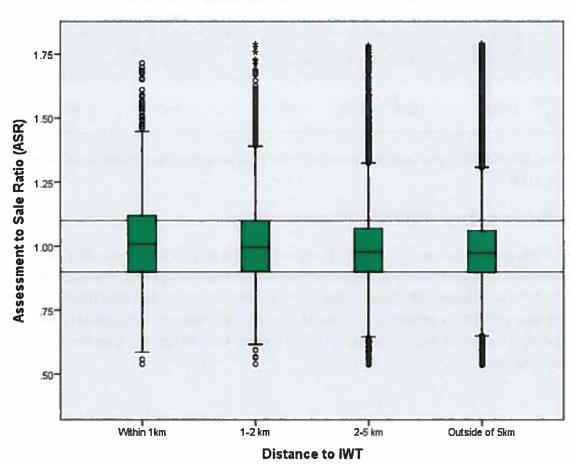


Figure 4 – Assessment-to-Sale Ratio by Distance Grouping

The dark line within each box represents the median ASR. The lower and upper ends of the box represent the 25th and 75th percentiles, respectively. This box plot illustrates that the median assessment-to-sale ratio for sales within one kilometre of an IWT is slightly higher than the other groups, but the boxes for all the groups overlap.

In the IAAO Standard on ratio studies from 2013¹², an equity decision-making matrix is provided to allow a jurisdiction to determine if equity exists between groups of properties. This matrix has been populated for the two scenarios described above. The performance standard range is 0.90 to 1.10. Note that if the point estimate is outside of the performance standard range but the confidence interval does overlap the range, action is not required.

Table 16 - Decision Making Matrix

Scenario	Point Estimate	Confidence Interval (CI) Width	CI Overlaps Performance Standard Range	Point Estimate in Performance Standard Range	Action Required
<1 km to IWT	1.007	0.993 to 1.019	Yes	Yes	No
1 km - 2 km to an IWT	0.995	0.989 to 1.003	Yes	Yes	No

Therefore, based on the results of this analysis, there is no inequity with regards to distance to the nearest IWT.

This finding is consistent with MPAC's 2008 and 2012 studies.

MPAC's findings are also consistent with a third party review of this study conduct by Robert J. Gloudemans. Mr. Gloudemans is an independent internationally-recognized mass appraisal consultant. MPAC provided Mr. Gloudemans with a dataset of all sales less than five kilometres from the nearest IWT to conduct his analysis. *Mr. Gloudemans' report is included as* Appendix A – Independent Review of Report – Industrial Wind Turbine Ratio Study - R.J. Gloudemans, November 22, 2016.

¹² International Association of Assessing Officers, Standard on Ratio Studies, April 2013, p. 35

List of Report Appendices

Appendix A – Independent Review of Report – Industrial Wind Turbine Ratio Study - R.J. Gloudemans, November 22, 2016

Appendix B – Current Value Assessment and Sale Amount Bar Charts

Appendix C – Distance Grouping 2016 Sale Ratio Study by Market Area

Appendix D – Number of industrial wind turbines by Distance Grouping 2016 Sale Ratio Study by Market Area

Glossary of Terms

assessment roll – An annual listing provided to each taxing authority in the Province of Ontario containing, among other things, the current value and tax classification of each property within the jurisdiction.

assessment-to-sale ratio (ASR) – The ratio obtained by dividing the assessed value of a property by the time-adjusted sale price of a property.

base year - The year that an estimate of a property's value is based on.

Current Value Assessment (CVA) - The estimated value of a property based on a specific date.

direct comparison approach (also known as Sales Comparison Approach) – An approach to valuing a property that estimates the current value of a subject property by adjusting the sale price of comparable properties for differences between the comparable properties and the subject property.

industrial wind turbine (IWT) - A wind turbine used to generate at least 1.5 MW of electricity.

geographic coordinates – A set of two numbers that reference the latitude and longitude of a point on the Earth.

market area – A market area is defined as a geographic area, usually contiguous, subject to the same economic influences, where properties tend to increase or decrease in value together.

market model – Geographic areas subject to the same economic influences.

mass appraisal – The valuation of a group of properties as of a given date using standardized processes, employing common data, and allowing for statistical testing.

median – The median of a group of numbers is the middle number after they have been sorted from lowest to highest. If you have an odd number of cases, the median is the middle value. If you have an even number of cases, the median is the value midway between the two middle values. The median, in comparison to the mean, is less sensitive to extreme values.

megawatt (MW) – A unit of measure in energy generation or consumption.

Municipal Property Assessment Corporation (MPAC) – A body responsible for determining the correct market value and tax classification for all properties in the Province of Ontario, based on current value assessment.

regression analysis – A statistical technique used to analyze data in order to predict the value of one variable, such as market value, based on known data (e.g., living area, lot size, quality, location, etc.).

For more information about MPAC and how MPAC assesses properties, visit <u>mpac.ca</u>.



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Robert J. Gloudemans November 22, 2016

At the request of the Municipal Property Assessment Corporation (MPAC), the author conducted an analysis of residential sales within 5 kilometers of industrial wind turbines. The objective of the project was to determine the impact of location near a wind turbine on residential property values.

The analysis used 110,143 improved residential sales in 14 regions and 25 market areas that occurred from January 2012 through October 206 (58 months). All the sales were adjusted to the assessment date, 1 January 2016. The table below shows the distribution of the sales by property type:

PropertyType

		Frequency	Percent
Valid	Attached residential	7319	6.6
	Improved residential not on water	93019	84.5
	Improved residential on water	7712	7.0
	Multi family residential	2093	1.9
	Total	110143	100.0

The dependent variable in the analysis was assessment-to-sales ratios in which 2016 values were divided by time-adjusted sales prices. The models that produced 2016 values did not contain variables related to proximity near wind turbines. Thus, the relevant question is to what extent ratios on those properties are too high because of the absence of such adjustments. Independent variables included the following:

- A binary variable for abutting a property with a wind turbine
- Binary variables for being within 1, 2, and 5km of a wind turbine
- The number of wind turbines within 1, 2, and 5km
- The combined capacity in kilowatts of wind turbines within 1, 2, and 5km

The table below shows the number of sales and median and mean sales ratio of properties abutting a wind turbine (165 sales), within 1km (1,016 sales), within 2km (3,058 sales), within 5km (10,622 sales), and more than 5 km from a wind turbine (95,282 sales). Although the medians for the first four groups are all higher than for those more than 5km away, the differences are all

modest: between less than 1% in the case of those within 5km and just over 3% for those within one kilometer. According to the IAAO Standard on Ratio Studies (2013), median ratios for various property groups should not be provably more than 5% from the overall median ratio (.9743 in this case). As can be seen, the median ratios for all five groups are well within this threshold.

Figure 1 – Sale Counts and Summary Ratios

RATIO

PROXIMITY_IWT	N	Median	Mean	Minimum	Maximum
0 Abuts	165	1.0006	1.0193	.63	1.72
1 1 km	1016	1.0077	1.0215	.54	1.74
2 2 km	3058	.9940	1.0134	.54	1.79
5 5 km	10622	.9770	.9958	.54	1.78
6 >5 km	95282	.9733	.9895	.54	1.79
Total	110143	.9743	.9911	.54	1.79

Figure 2, which presents the median ratios in the form of a bar chart, illustrates the closeness of the assessment levels.

Figure 2 – Bar Chart of Median Ratios

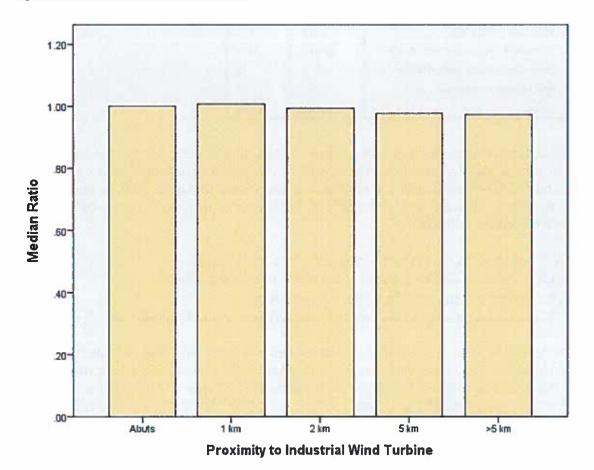
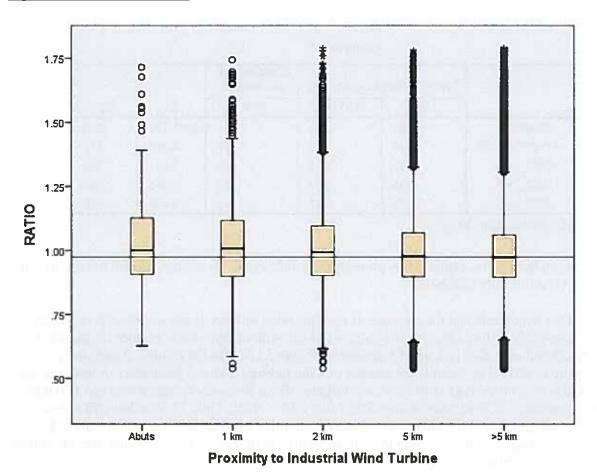


Figure 3 contains a box plot of the ratios. The boxes contain the middle 50% of observations and the black horizontal lines toward the middle of each box represent the median ratios. The boxes are closely aligned with only modest differences among the medians.

Figure 3 – Box Plot of Ratios



To further evaluate uniformity, a regression analysis was performed in which assessment ratios were regressed on binary variables (coded 0 or 1) for abutting a wind turbine and being within 1, 2, or 5 kilometers. Figure 4 presents the results. The Adjusted R-Square is .001, meaning that the four variables for proximity to a wind turbine together explain only 0.1% of the variation in assessment ratios. Consistent with the previous analyses, the variables for abutting or within 1 kilometer of a wind turbine indicate differences of about 3% with lesser differences for greater distances.

Figure 4 – Regression Analysis for Presence of Wind Turbines

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.034ª	.001	.001	.15575

a. Predictors: (Constant), DIST_5km, PropAbutsIWT, DIST_1km, DIST_2km

Coefficients^a

		Unstandardized Coefficients		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.990	.001		1961.172	.000
1	PropAbutsIWT	.030	.012	.007	2.450	.014
1	DIST_1km	.032	.005	.020	6.511	.000
1	DIST_2km	.024	.003	.025	8.345	.000
	DIST_5km	.006	.002	.012	3.960	.000

a. Dependent Variable: RATIO

Similar analyses were conducted by property type and region. In no instance did the results fail the IAAO uniformity threshold.

To test the hypothesis that the presence of multiple wind turbines is associated with relatively high assessment ratios, a regression analysis was run with independent variables for the number of wind turbines within 1, 2, and 5 kilometers. Figure 5 contains the results. Again, the adjusted R-Square is .001. The variable for number of wind turbines within 5 kilometers or less indicates that ratios rise, on average, .0012 for each turbine. Thus, for example, ratios average .060 higher for the presence of 50 turbines within 5km (.012 x 50 = .060). Only 72 sales have 50 or more turbines within 5km. The other two variables for number of wind turbines within 1 and 2 kilometers are insignificant, indicating there is no additional difference if the turbines are concentrated closer to a subject property.

Figure 5 – Regression Analysis for Number of Wind Turbines Within 1, 2, and 5km

Model Summary

Model: 3

R	R Square	Adjusted R Square	Std. Error of the Estimate
.038°	.001	.001	.15572

c. Predictors: (Constant), IWT_Count_5km_sum

Coefficients^a

Model: 3

	Unstandardize	d Coefficients	Standardized Coefficients		-
	В	Std. Error	Beta	t	Sig.
(Constant)	.989	.000		2031.071	.000
IWT_Count_5km_sum	.0012	.000	.038	12.739	.000

a. Dependent Variable: RATIO

Excluded Variables

Model: 3

	5.4			Partial	Collinearity Statistics
	Beta In	t	Sig.	Correlation	Tolerance
IWT_Count_1km_sum	002	611	.541	002	.770
IWT_Count_2km_sum	006	-1.362	.173	004	.474

A similar analysis was performed for the total capacity in kilowatts of turbines within 1, 2, and 5 kilometers. Figure 5 contains the results. The adjusted R-Square is slightly higher at .002 and, consistent with the prior analysis, the only variable significant in the model is the total capacity of wind turbines within 5km. The variable has a coefficient of .0006. Thus, if total capacity were 100kv, ratios would be .060 higher than if total capacity were 0 (no wind turbines). There are only 39 sales for which the total capacity of wind turbines within 5km or less is 100kv or more.

Figure 6 - Regression Analysis for Total Capacity of Wind Turbines Within 1, 2, and 5km

Model Summary

Model: 3

R	R Square	Adjusted R Square	Std. Error of the Estimate
.040°	.002	.002	.15571

c. Predictors: (Constant), Capacity_Total_5km_sum

Coefficients^a

Model: 3

	Unstandardize	d Coefficients	Standardized Coefficients		
	В	Std. Error	Beta	t	Sig.
(Constant)	.989	.000		2031.583	.000
Capacity_Total_5km_sum	.0006	.000	.040	13.248	.000

a. Dependent Variable: RATIO

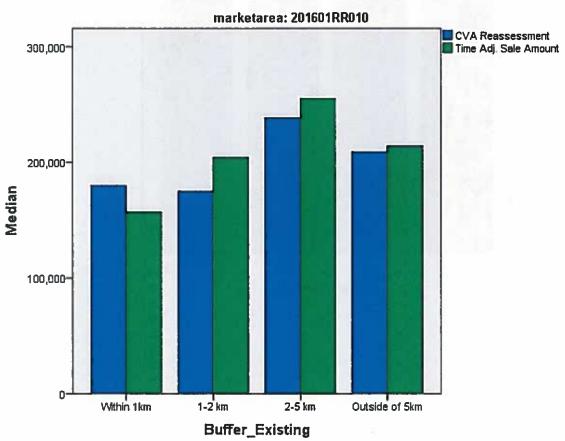
Excluded Variables

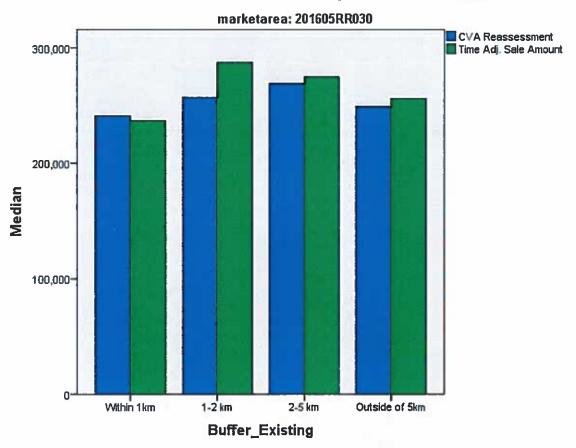
Model: 3

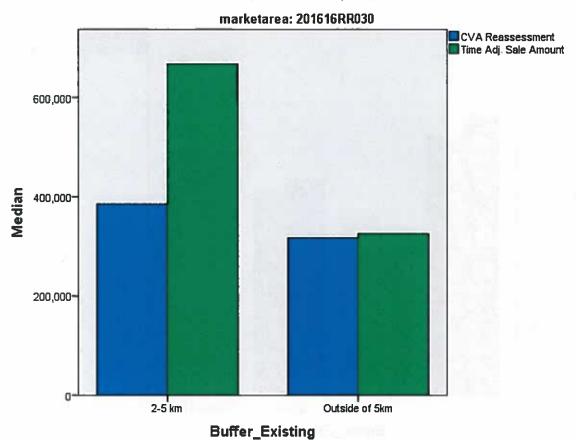
	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics Tolerance
Capacity_Total_1km_sum	002	578	.563	002	.775
Capacity_Total_2km_sum	006	-1.268	.205	004	.468

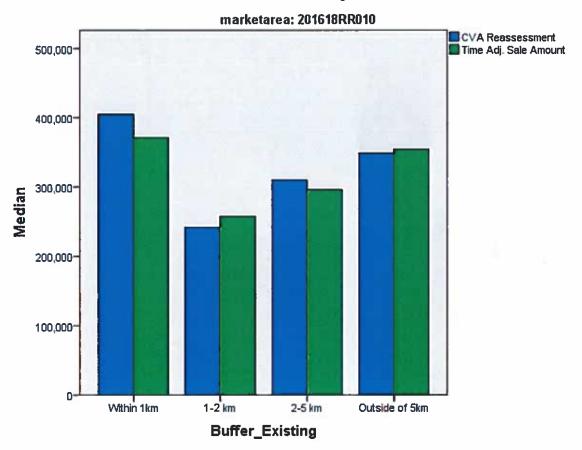
In conclusion, properties located near industrial wind turbines are, on average, assessed slightly higher than other properties of the same type in the same geographic area but the differences are minimal (3% or less) and well within IAAO standards. The differences are slightly higher (over 5%) for properties near heavy concentrations of turbines. However, such properties constitute no more than 1% of those within 5km of a wind turbine.

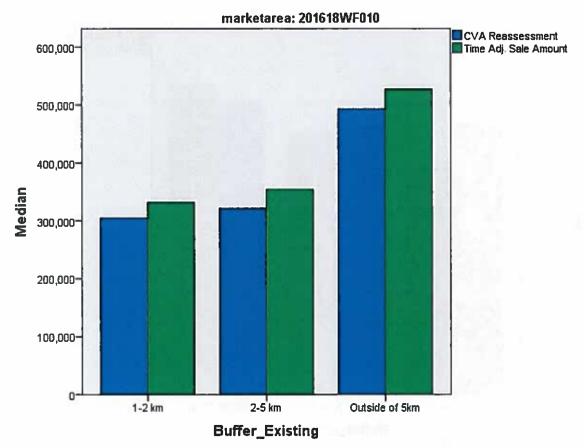
Appendix B - Current Value Assessment and Sale Amount Bar Charts

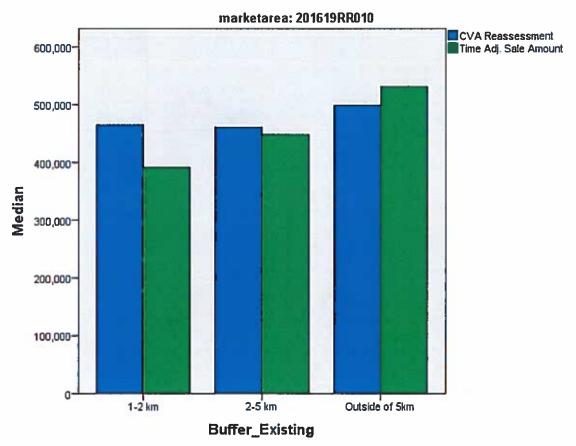


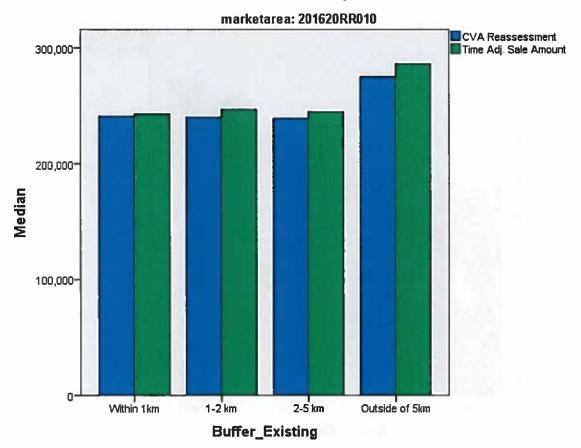


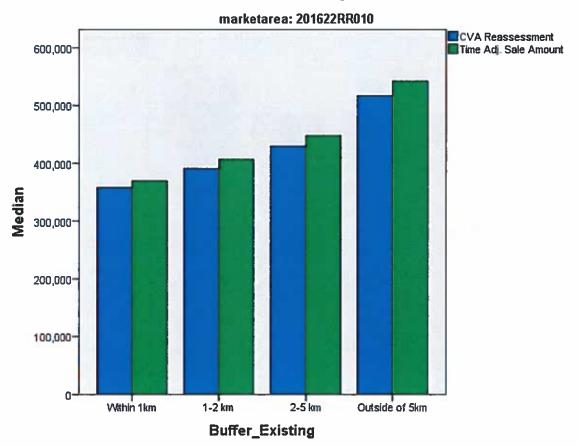


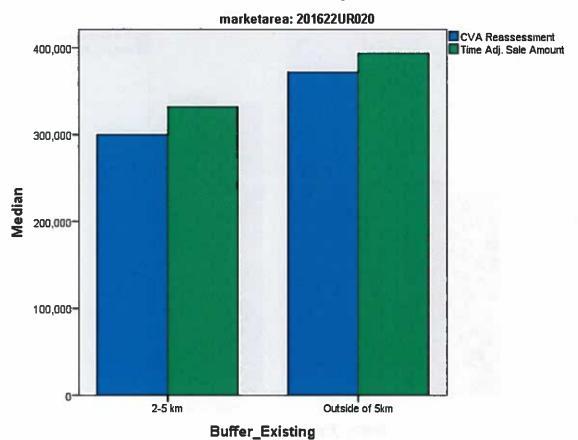


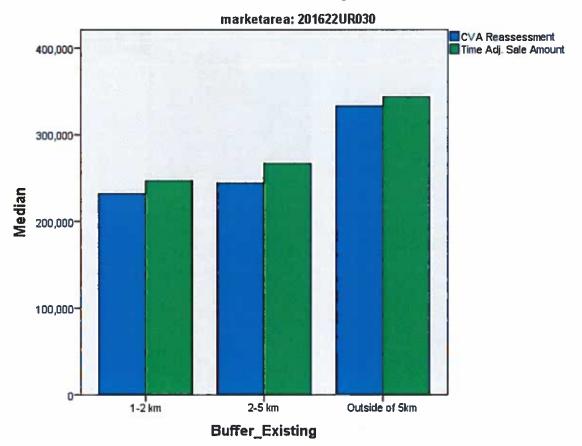


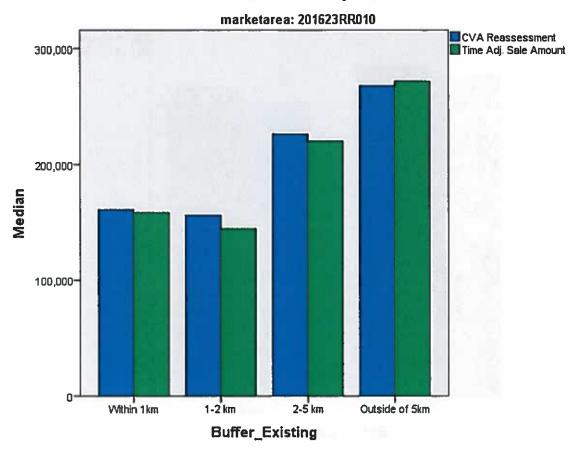


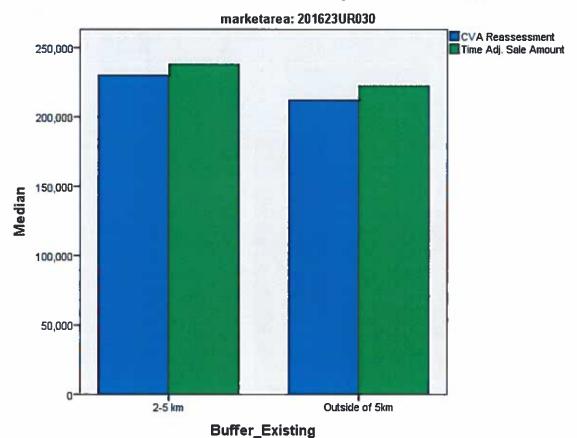


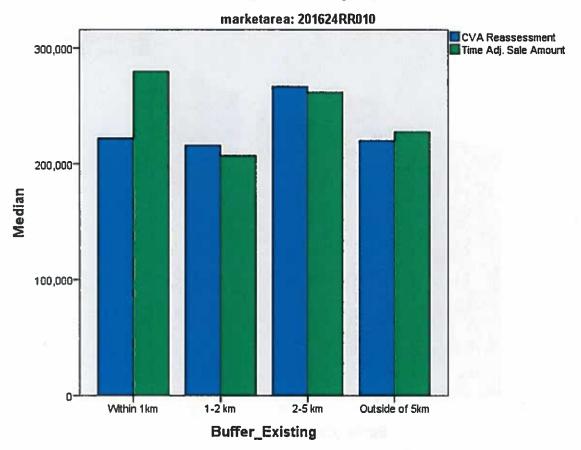


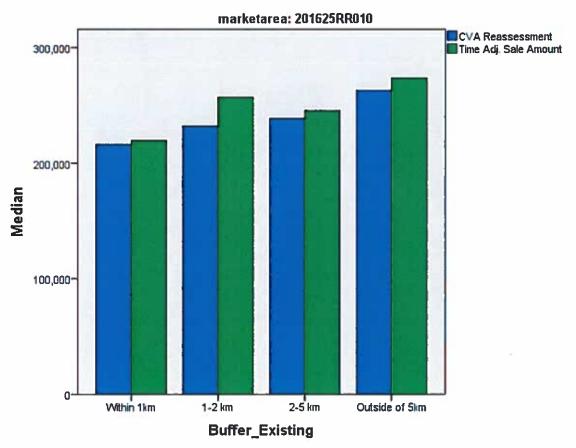


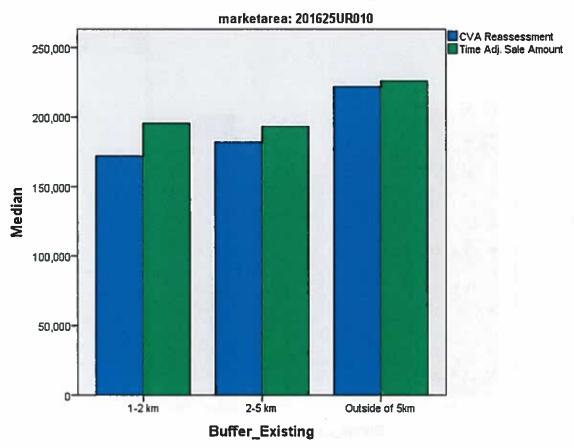


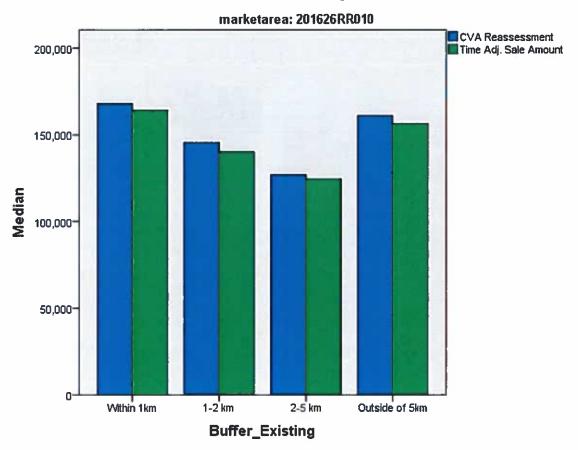


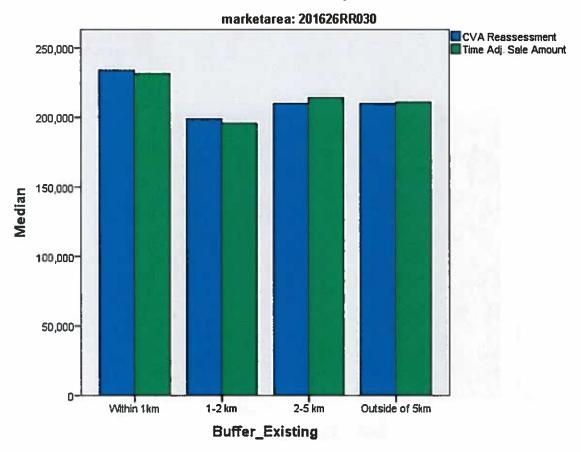


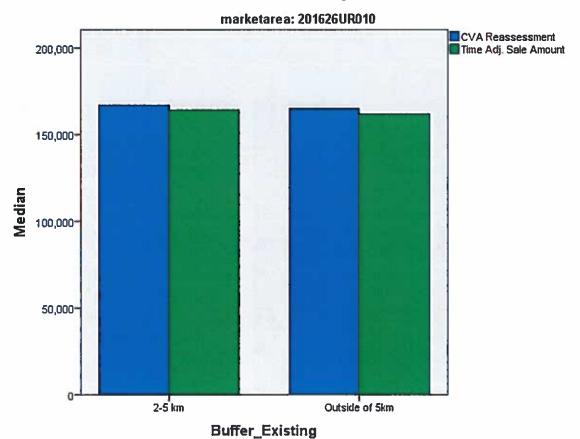


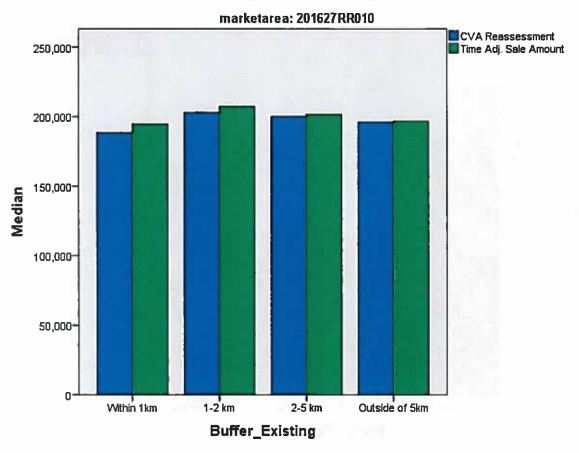


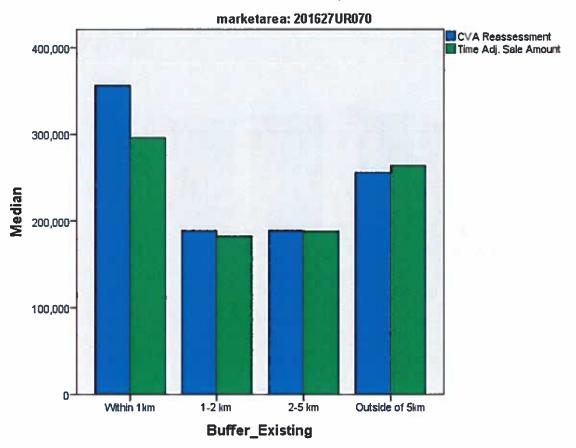


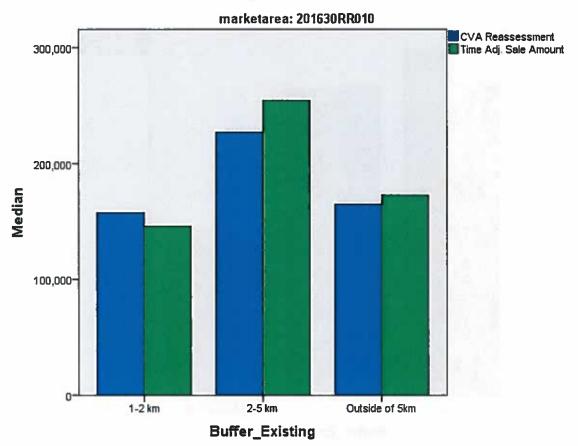


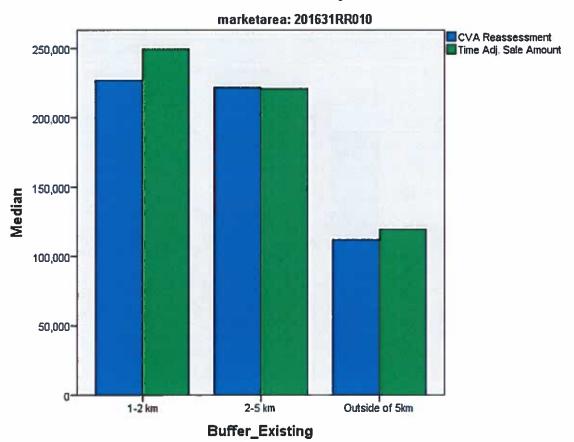


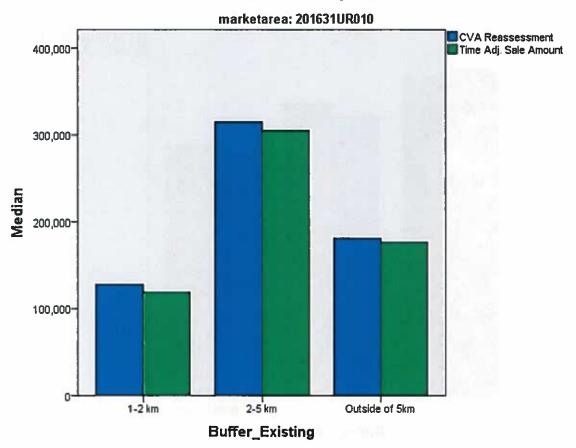


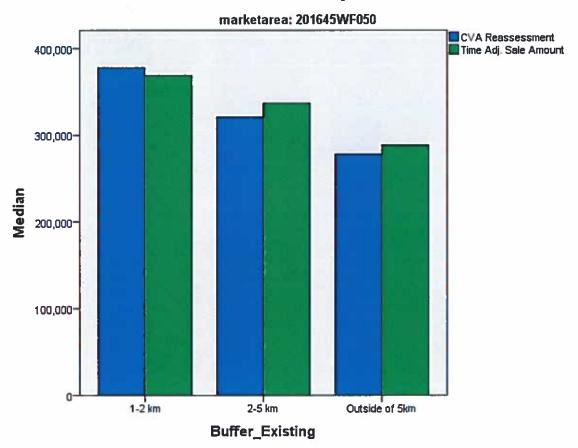


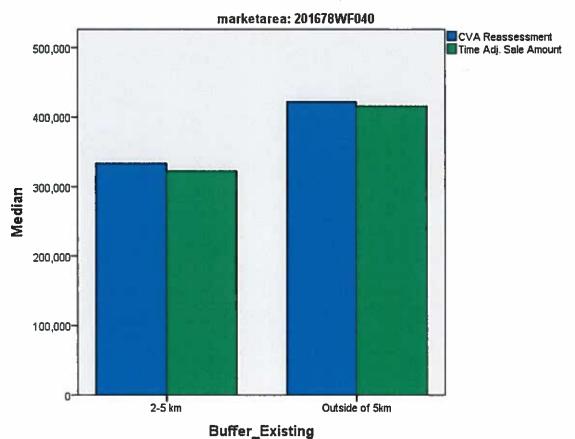












Appendix C – Distance Grouping 2016 Sales Ratio Study by Market area

Market Area	Distance	Sale Count	LoA	95% LCL	95% UCL
201601RR010	1,00 Within 1km	9	1.142	.987	1.327
	2.00 1-2 km	4	1.072		_1
	5.00 2-5 km	36	.965	.921	1.011
	6.00 Outside of 5km	11914	.990	.988	.993
1.4	Overall	11963	.990	.988	.993
201605RR030	1.00 Within 1km	30	.984	.929	1.071
	2.00 1-2 km	13	.938	.783	.996
	5.00 2-5 km	335	.949	.940	.959
	6.00 Outside of 5km	3748	.963	.959	.970
	Overall	4126	.961	.957	.967
201616RR030	5.00 2-5 km	6	.783	.577	1.313
	6.00 Outside of 5km	6482	.967	.964	.970
	Overall	6488	.967	.964	.970
201618RR010	1.00 Within 1km	11	.956	.929	1.233
1 2	2.00 1-2 km	45	.961	.884	1.020
	5.00 2-5 km	95	1.016	.968	1.043
	6.00 Outside of 5km	2262	.973	.966	.983
	Overall	2413	.974	.967	.984
201618WF010	2.00 1-2 km	18	.937	.877	1.010
	5.00 2-5 km	31	.899	.803	.983
100	6.00 Outside of 5km	186	.902	.880	.931
	Overall	235	.902	.881	.935
201619RR010	2.00 1-2 km	8	1.012	.685	1.559
1-0	5.00 2-5 km	38	.995	.954	1,097
100	6.00 Outside of 5km	1742	.954	.948	.961
	Overall	1788	.956	.949	.961
201620RR010	1.00 Within 1km	247	1.019	.978	1.041
	2.00 1-2 km	351	.976	.957	.996
]!! =	5.00 2-5 km	1230	.981	.972	.989
1	6.00 Outside of 5km	6961	.963	.960	.967
	Overall	8789	.967	.964	.970
201622RR010	1.00 Within 1km	83	.989	.924	1.038
100	2.00 1-2 km	67	.949	.927	1.001
	5.00 2-5 km	217	.938	.913	.972
	6.00 Outside of 5km	2570	.950	.944	.957
	Overall	2937	.950	.944	.956
201622UR020	5.00 2-5 km	689	.926	.922	.934
	6.00 Outside of 5km	3149	.936	.934	.940
	Overall	3838	.935	.932	.938

Market Area	Distance	Sale Count	LoA	95% LCL	95% UCL
201622UR030	2.00 1-2 km	135	.936	.911	,950
	5.00 2-5 km	38	.947	.882	1.001
	6.00 Outside of 5km	3610	.962	.958	.966
	Overall	3783	.961	.957	.964
201623RR010	1.00 Within 1km	13	1.013	.866	1.302
	2.00 1-2 km	89	1.032	.995	1.076
	5,00 2-5 km	284	.986	.971	1.008
	6.00 Outside of 5km	7156	.987	.984	.991
	Overall	7542	.988	.984	.991
201623UR030	5.00 2-5 km	353	.973	.959	.991
	6.00 Outside of 5km	9567	.964	.961	.966
	Overall	9920	.964	.962	.966
201624RR010	1.00 Within 1km	23	.844	.768	.949
	2.00 1-2 km	55	.994	.963	1.056
	5.00 2-5 km	268	.961	.946	.989
	6.00 Outside of 5km	3731	.969	.965	.974
[Overall	4077	.969	.965	.974
201625RR010	1.00 Within 1km	32	1.030	.929	1.081
	2.00 1-2 km	37	.938	.875	.989
	5.00 2-5 km	250	.988	.971	1,016
	6.00 Outside of 5km	3473	.970	.965	.976
	Overall	3792	.971	.966	.977
201625UR010	2,00 1-2 km	24	1.020	.925	1.085
	5,00 2-5 km	279	.947	.926	.971
	6.00 Outside of 5km	6130	.976	.972	.980
	Overall	6433	.975	.971	.979
201626RR010	1.00 Within 1km	298	1,025	1,007	1.048
	2.00 1-2 km	920	1.028	1.019	1.037
	5.00 2-5 km	1109	1.035	1.024	1.049
	6.00 Outside of 5km	847	1.016	1.004	1.028
	Overall	3174	1.027	1.021	1.033
201626RR030	1.00 Within 1km	18	1.045	.942	1.154
	2.00 1-2 km	152	1,017	.994	1.043
	5.00 2-5 km	557	.989	.975	1.009
1	6.00 Outside of 5km	2530	1.000	.993	1.005
	Overall	3257	1.000	.994	1.005
201626UR010	5.00 2-5 km	559	.999	.993	1.009
	6.00 Outside of 5km	2125	1.004	.999	1.010
	Overall	2684	1.004	.999	1.009
201627RR010	1.00 Within 1km	216	.971	.950	1,000
	2.00 1-2 km	483	.967	.951	.982
	5.00 2-5 km	1436	.978	.971	.984
	6,00 Outside of 5km	3915	.976	.970	.980
	Overall	6050	.976	.972	.979

Market Area	Distance	Sale Count	LoA	95% LCL	95% UCL
201627UR070	1.00 Within 1km	4	1.040		
	2.00 1-2 km	265	1.013	.988	1.029
	5.00 2-5 km	250	.979	.964	.994
	6.00 Outside of 5km	4762	.970	.967	.973
	Overall	5281	.972	.969	.975
201630RR010	2.00 1-2 km	4	1.099		
	5,00 2-5 km	17	.819	.729	1.003
	6.00 Outside of 5km	1883	.967	.957	.976
	Overali	1904	.966	.957	.976
201631RR010	2.00 1-2 km	7	.951	.878	1,477
	5.00 2-5 km	25	1.022	.942	1.049
	6.00 Outside of 5km	2527	.968	.960	.976
	Overall	2559	.968	.960	.976
201631UR010	2.00 1-2 km	12	1.138	.919	1,277
	5.00 2-5 km	31	1.068	1.013	1.132
	6.00 Outside of 5km	4180	1.009	1.004	1.014
	Overall	4223	1,009	1.005	1.015
201645WF050	2.00 1-2 km	2	1.057		
	5.00 2-5 km	596	.956	.946	.967
	6.00 Outside of 5km	1162	.974	.964	.984
	Overall	1760	.966	.959	.974
201678WF040	5.00 2-5 km	22	.985	.884	1.063
	6.00 Outside of 5km	1300	.998	.989	1,007
	Overall	1322	.998	.989	1,006

Appendix D - Number of Turbines by Distance Grouping 2016 Sales Ratio Study by Market area

Market Area	Distance	Density	Sale Count	LoA	95% LCL	95% UCL
201601RR010	Within 1km	1.00 1km: 1 to 3 IWTS	9	1,142	.987	1,327
		Overall	9	1,142	.987	1.327
	1km to 2km	1.00 2km: 1 to 3 IWTS	2	1.072		11
		2.00 2km: 4 to 6 IWTs	2	1.169		
		Overall	4	1.072		
	2km to 5km	1.00 5km: 1 to 3 IWTS	29	.960	.892	.985
		2.00 5km: 4 to 6 IWTs	5	1.099		
		3.00 5km: 7 to 9 IWTs	2	1.004		П
		Overall	36	.965	.921	1,011
	Outside 5km	Overall	11914	.990	.988	.993
201605RR030	Within 1km	1.00 1km: 1 to 3 IWTS	27	.978	.873	1,071
		2.00 1km: 4 to 6 IWTs	3	1,110		
		Overall	30	.984	.929	1.071
	1km to 2km	1.00 2km: 1 to 3 IWTS	9	.968	.805	1.194
	11.16	2.00 2km: 4 to 6 IWTs	2	.790	~	
		3,00 2km: 7 to 9 IWTs	2	.851		
		Overall	13	.938	.783	.996
	2km to 5km	1.00 5km: 1 to 3 IWTS	265	.950	.939	.961
1.0		2.00 5km: 4 to 6 IWTs	65	.944	.922	.971
		3.00 5km: 7 to 9 IWTs	1	.944		
		4.00 5km: 10 to 15 IWTs	1	1.046		
		5.00 5km: 16 to 20 IWTs	1	.873		
		6.00 5km: 21 to 30 IWTs	2	1.129		' '
		Overall	335	.949	.940	.959
	Outside 5km	Overall	3748	.963	.959	.970
201616RR030	2km to 5km	1.00 5km: 1 to 3 IWTS	6	.783	.577	1.313
		Overall	6	.783	.577	1.313
	Outside 5km	Overall	6482	.967	.964	.970
201618RR010	Within 1km	1.00 1km: 1 to 3 IWTS	11	.956	.929	1.233
		Overall	11	.956	.929	1.233
	1km to 2km	1.00 2km: 1 to 3 IWTS	45	.961	.884	1,020
		Overall	45	.961	.884	1.020
	2km to 5km	1.00 5km: 1 to 3 IWTS	43	1.017	.926	1.059
		2.00 5km: 4 to 6 IWTs	51	1.016	.914	1.064
		3,00 5km: 7 to 9 IWTs	1	.999		5400
		Overall	95	1.016	.968	1.043
	Outside 5km	Overall	2262	.973	.966	.983
201618WF010	1km to 2km	1,00 2km: 1 to 3 IWTS	18	.937	.877	1.010
	Till Till Till Till Till Till Till Till	Overall	18	.937	.877	1.010
	2km to 5km	1.00 5km: 1 to 3 IWTS	18	.860	.733	-
		2.00 5km: 4 to 6 IWTs	10	.952	.779	ı
		3.00 5km: 7 to 9 IWTs	3	.998		
		Overall	31	.899	.803	.983
	Outside 5km	Overall	186	.902	.880	

	1		_			
Market Area	Distance	Density	Sale Count	LoA	95% LCL	95% UCL
201619RR010	1km to 2km	1.00 2km: 1 to 3 IWTS	8	1.012	.685	1.559
		Overall	8	1.012	.685	1.559
	2km to 5km	1.00 5km: 1 to 3 IWTS	22	,963	.935	1.121
		2,00 5km: 4 to 6 IWTs	16	1.059	.958	1,133
		Overall	38	.995	.954	1.097
	Outside 5km	Overall	1742	.954	.948	.961
201620RR010	Within 1km	1.00 1km: 1 to 3 IWTS	234	1.002	.968	1.038
		2.00 1km: 4 to 6 IWTs	13	1.136	1.010	1.315
		Overall	247	1,019	.978	1,041
	1km to 2km	1,00 2km: 1 to 3 IWTS	272	.984	.966	1,005
		2,00 2km: 4 to 6 IWTs	68	.938	.896	.980
		3,00 2km: 7 to 9 IWTs	11	1.016	.858	1.211
		Overall	351	.976	.957	.996
	2km to 5km	1.00 5km: 1 to 3 IWTS	146	.964	.940	.979
		2.00 5km: 4 to 6 IWTs	234	.982	.961	1.005
		3.00 5km: 7 to 9 IWTs	156	.986	.964	1.009
		4.00 5km: 10 to 15 IWTs	615	.986	.970	.995
		5,00 5km: 16 to 20 IWTs	67.	.989	.944	1.017
		6,00 5km: 21 to 30 IWTs	12	.994	.764	1.314
		Overall	1230	.981	.972	.989
	Outside 5km	Overall	6961	.963	.960	.967
201622RR010	Within 1km	1.00 1km: 1 to 3 IWTS	51	.978	.879	1.045
		2,00 1km: 4 to 6 IWTs	30	.975	.914	1.089
		3,00 1km; 7 to 9 IWTs	2	1.023		
		Overall	83	.989	.924	1.038
	1km to 2km	1.00 2km: 1 to 3 IWTS	57	.946	.899	1.010
		2.00 2km: 4 to 6 IWTs	8	.999	.874	1.338
		4.00 2km: 10 to 15 IWTs	2	.875		
		Overall	67	.949	.927	1.001
	2km to 5km	1.00 5km: 1 to 3 IWTS	88	.952	.920	.994
		2.00 5km: 4 to 6 IWTs	62	.899	.860	.972
		3.00 5km: 7 to 9 IWTs	25	.896	.853	17.00
		4.00 5km: 10 to 15 IWTs	17	1.023		100
		5.00 5km: 16 to 20 IWTs	14	.938	.866	203
		6.00 5km: 21 to 30 tWTs	11	.986	.828	
		Overall	217	.938	.913	100
	Outside 5km	Overall	2570	.950	.944	.957
201622UR020	2km to 5km	1.00 5km; 1 to 3 IWTS	136	.924	.915	25
		2.00 5km: 4 to 6 IWTs	329	.923	.916	187
		3.00 5km: 7 to 9 IWTs	75	.950	1.00	
		4.00 5km: 10 to 15 IWTs	142	.931	.918	
		5,00 5km: 16 to 20 IWTs	7	.879	2,000,000	
		Overall	689	.926	.922	.934
	Outside 5km	Overall	3149	.936	.934	.940

Market Area	Distance	Density	Sale Count	LoA	95% LCL	95% UCL
201622UR030	1km to 2km	1.00 2km: 1 to 3 IWTS	94	.924	.889	.951
		2.00 2km: 4 to 6 IWTs	41	.939	.908	.955
		Overall	135	.936	.911	.950
	2km to 5km	2.00 5km: 4 to 6 IWTs	36	.941	.879	1.001
		3.00 5km: 7 to 9 IWTs	2	1.016		
		Overall	38	.947	.882	1.001
	Outside 5km	Overall	3610	.962	.958	.966
201623RR010	Within 1km	1.00 1km: 1 to 3 IWTS	13	1.013	.866	1.302
		Overall	13	1,013	.866	1.302
	1km to 2km	1,00 2km: 1 to 3 IWTS	83	1.047	1.004	1.076
		2.00 2km: 4 to 6 IWTs	5	.935		
		3.00 2km: 7 to 9 IWTs	1	.936		
		Overall	89	1,032	.995	1,076
	2km to 5km	1.00 5km: 1 to 3 IWTS	46	1.027	.931	1.109
	-	2.00 5km: 4 to 6 IWTs	86	.980	.955	1.018
		3.00 5km: 7 to 9 IWTs	70	.956	.925	1.007
		4.00 5km; 10 to 15 lWTs	68	.997	.973	1.067
		5.00 5km: 16 to 20 IWTs	13	1.091	.800	1.217
		6.00 5km: 21 to 30 IWTs	1	1.041		
		Overall	284	.986	.971	1.008
	Outside 5km	Overall	7156	.987	.984	.991
201623UR030	2km to 5km	1.00 5km: 1 to 3 IWTS	107	.977	.935	1.021
		2.00 5km: 4 to 6 IWTs	184	.982	.963	1.010
		3.00 5km; 7 to 9 IWTs	38	.964	.931	1.005
		4.00 5km: 10 to 15 IWTs	24	.949	.911	1,067
		Overall	353	.973	.959	.991
	Outside 5km	Overall	9567	.964	.961	.966
201624RR010	Within 1km	1.00 1km: 1 to 3 IWTS	22	.827	.750	.979
		2,00 1km: 4 to 6 IWTs	1	.850		
		Overall	23	.844	.768	.949
	1km to 2km	1.00 2km: 1 to 3 IWTS	47	.986	.963	1.037
		2.00 2km: 4 to 6 IWTs	6	1.076	.908	1,285
		3.00 2km: 7 to 9 IWTs	1	.564		
		4.00 2km: 10 to 15 IWTs	1	,828,		
		Overall	55	.994	.963	1.056
	2km to 5km	1,00 5km: 1 to 3 IWTS	137	.958	.936	.988
		2.00 5km: 4 to 6 IWTs	47	.946	.886	
	1 1	3.00 5km: 7 to 9 IWTs	16	1.076	.859	1.146
		4.00 5km: 10 to 15 IWTs	54	1,009	.923	1,043
		5.00 5km: 16 to 20 IWTs	2	1.214		
		6.00 5km: 21 to 30 IWTs	12	.950	.888	1.194
		Overall	268	.961	.946	.989
	Outside 5km	Overall	3731	.969	.965	.974

Market Area	Distance	Density	Sale Count	LoA	95% LCL	95% UCL
201625RR010	Within 1km	1,00 1km: 1 to 3 IWTS	20	1.056	.901	1.147
	1	2.00 1km; 4 to 6 IWTs	10	1.018	.900	1.080
		3,00 1km; 7 to 9 IWTs	2	.963		
		Overall	32	1,030	.929	1.081
	1km to 2km	1,00 2km; 1 to 3 IWTS	24	.937	.796	1,067
		2,00 2km; 4 to 6 IWTs	9	.944	.835	1.260
		3.00 2km; 7 to 9 IWTs	2	1,053	257	
		5,00 2km; 16 to 20 IWTs	2	.923		
		Overall	37	.938	.875	.989
	2km to 5km	1.00 5km: 1 to 3 IWTS	104	.980	.936	1.033
		2.00 5km; 4 to 6 IWTs	31	.988	.918	1.078
		3,00 5km: 7 to 9 IWTs	22	1.009	.892	1.121
		4.00 5km: 10 to 15 IWTs	39	.989	.937	1.055
		5.00 5km: 16 to 20 IWTs	29	.988	.921	1.093
		6,00 5km: 21 to 30 IWTs	20	1,043	.925	1,079
		7,00 5km; 31 to 40 IWTs	5	.993		2.0
		Overall	250	.988	.971	1,016
	Outside 5km	Overall	3473	.970	.965	.976
201625UR010	1km to 2km	1,00 2km: 1 to 3 IWTS	24	1.020	.925	1.085
		Overall	24	1.020	.925	1.085
	2km to 5km	1.00 5km: 1 to 3 IWTS	238	.947	.926	
		2.00 5km; 4 to 6 IWTs	18	.972		326
		3.00 5km: 7 to 9 IWTs	13	.980	.888	1978
		4.00 5km: 10 to 15 IWTs	10	.897	.759	36
i		Overall	279	.947	.926	
	Outside 5km	Overall	6130	.976	.972	
201626RR010	Within 1km	1.00 1km: 1 to 3 IWTS	286	1.025	1.004	1.050
		2.00 1km; 4 to 6 lWTs	12	1.023	.985	l
		Overall	298	1.025	1.007	1.048
	1km to 2km	1.00 2km: 1 to 3 IWTS	654	1.028	1.017	1,039
	TAIN to Earn	2.00 2km: 4 to 6 IWTs	234	1.026	1.009	
		3.00 2km: 7 to 9 IWTs	22	1.055	i e	1,280
		4.00 2km: 10 to 15 lWTs	10	200	.949	
		Overall	920	1.028		
	21mm to Elim	1.00 5km: 1 to 3 IWTS	471	1.028		
	2km to 5km	2.00 5km: 4 to 6 IWTs			ſ	
		3.00 5km: 7 to 9 IWTs	316 175	1.048	1	l
		4,00 5km: 10 to 15 IWTs	175	1.055 1.010	ľ	1
	1	5,00 5km; 16 to 20 IWTs	107		ŀ	
		6.00 5km; 21 to 30 IWTs	13	1.025		1,145
		7.00 5km; 31 to 40 IWTs	22	.987	.938	1,068
		48 60 00	5	1.032		4
	n	Overall	1109	1.035	1.024	1.049
	Outside 5km	Overall	847	1.016	1.004	1.028

Market Area	Distance	Density	Sale Count	LoA	95% LCL	95% UCL
201626RR030	Within 1km	1.00 1km: 1 to 3 IWTS	17	1.037	.942	1.112
		2.00 1km: 4 to 6 IWTs	1	1.154		
		Overall	[∐] 18	1.045	.942	1,154
	1km to 2km	1,00 2km: 1 to 3 IWTS	110	1.028	1.004	1.076
		2.00 2km; 4 to 6 IWTs	39	.981	.921	1.035
		3.00 2km: 7 to 9 IWTs	3	1.024	:	
		Overall	152	1.017	.994	1,043
	2km to 5km	1.00 5km: 1 to 3 IWTS	83	1.002	.981	1.035
		2.00 5km; 4 to 6 IWTs	300	.985	.972	1.012
		3.00 5km: 7 to 9 IWTs	63	1.009	.961	1.047
	The state of the s	4.00 5km: 10 to 15 IWTs	53	.896	.846	.958
		5.00 5km: 16 to 20 IWTs	111 6	1,075	.890	1,484
		6.00 5km: 21 to 30 IWTs	52	1.066	.976	1.133
		Overall	557	.989	.975	1.009
	Outside 5km	Overall	2530	1.000	.993	1.005
201626UR010	2km to 5km	1.00 5km: 1 to 3 IWTS	511	.999	.993	1.009
		2.00 5km; 4 to 6 IWTs	27	1.026	.974	1.086
		3.00 5km; 7 to 9 IWTs	18	.982	.903	1.038
		4.00 5km: 10 to 15 IWTs	3	.921		
		Overall	559	.999	.993	1.009
	Outside 5km	Overall	2125	1,004	.999	1.010
201627RR010	Within 1km	1.00 1km: 1 to 3 IWTS	206	.963	.942	1.000
		2.00 1km; 4 to 6 IWTs	10	1.002	.962	1.176
		Overall	216	.971	.950	1.000
	1km to 2km	1.00 2km: 1 to 3 IWTS	374	.970	.953	.983
		2.00 2km: 4 to 6 IWTs	75	.948	.911	1.010
		3.00 2km: 7 to 9 IWTs	<u> </u>	1.079	.873	1.284
		4.00 2km: 10 to 15 IWTs	25	.954	.857	1.038
		Overall	483	.967	.951	.982
	2km to 5km	1.00 5km: 1 to 3 IWTS	536	.978	.968	.992
		2,00 5km; 4 to 6 IWTs	259	.981	.968	.993
		3.00 5km: 7 to 9 IWTs	216	.977	.948	1.006
		4.00 5km: 10 to 15 IWTs	382	.975	.956	.987
		5.00 5km: 16 to 20 IWTs	37	.982	.903	1.019
		6.00 5km: 21 to 30 IWTs	6	.877	.752	.987
		Overall	1436	.978	.971	.984
	Outside 5km	Overall	3915	.976	.970	.980
201627UR070	Within 1km	1.00 1km: 1 to 3 IWTS	4	1.040		
		Overall	4	1.040		
	1km to 2km	1.00 2km: 1 to 3 IWTS	234	1.008		1.023
	TI .	2.00 2km: 4 to 6 IWTs	31	1.052	l	1.137
	11	Overall	265	1.013	ı	1.029
	2km to 5km	1.00 5km: 1 to 3 IWTS	19	.934		1.015
		2,00 5km: 4 to 6 IWTs	4	.996	ı	
	T. Comments	3.00 5km: 7 to 9 IWTs	5	1.007		
		4.00 5km: 10 to 15 IWTs	222	.981	.965	.995
		Overall	250	.979		.994
	Outside 5km	Overall	4762	.970		

Market Area	Distance	Density	Sale Count	LoA	95% LCL	95% UCL
201630RR010	1km to 2km	1.00 2km; 1 to 3 IWTS	3	1.053		
		2.00 2km; 4 to 6 IWTs	1	1.242		
		Overall	4	1.099		
•	2km to 5km	1.00 5km: 1 to 3 IWTS	5	1,018		
		2.00 5km: 4 to 6 IWTs	9	.899	.729	1.003
		3.00 5km: 7 to 9 IWTs	2	.574		ļ
		4.00 5km: 10 to 15 IWTs	1	.707		
		Overall	17	.819	.729	1.003
	Outside 5km	Overall	1883	.967	.957	.976
201631RR010	1km to 2km	1.00 2km: 1 to 3 IWTS	1	1.477		
		2.00 2km: 4 to 6 IWTs	5	.944		
		3.00 2km: 7 to 9 IWTs	1	1.278		
		Overall	7	.951	.878	1,477
	2km to 5km	1,00 5km: 1 to 3 IWTS	4	.928		
		2.00 5km; 4 to 6 IWTs	1	.730		
		3.00 5km: 7 to 9 IWTs	1	.691		
		4.00 5km: 10 to 15 IWTs	2	1.094		
		7.00 5km: 31 to 40 IWTs	2	.919		
		8.00 5km: 41 + IWTs	15	1.034	.982	1,103
		Overall	25	1.022	.942	1.049
	Outside 5km	Overall	2527	.968	.960	.976
201631UR010	1km to 2km	1.00 2km: 1 to 3 IWTS	1	1,724		
		2.00 2km: 4 to 6 IWTs	3	1.195		
		3.00 2km: 7 to 9 IWTs	2	.989		
		4.00 2km: 10 to 15 IWTs	S 1	1.277		
		5.00 2km: 16 to 20 IWTs	2	.772		
		6,00 2km; 21 to 30 IWTs	3	1,172		
		Overall	12	1,138	.919	1.277
	2km to 5km	1,00 5km; 1 to 3 IWTS	6	.901	.791	1.068
	ZKII (O JKIII	2.00 5km; 4 to 6 IWTs	4	1,148		
		3.00 5km: 7 to 9 IWTs	2	.871		
		4.00 5km; 10 to 15 IWTs	16	1.108	1.018	1.247
		5.00 5km: 16 to 20 IWTs	2	1.288		
		8.00 5km: 41 + IWTs	1	1.002		
		Overall	31	1.068	1.013	1.132
	Outside 5km	Overall	4180	1,009	1,004	1,014
201645WF050	1km to 2km	1.00 2km; 1 to 3 IWTS	2	1.057	7,007	1,017
		Overall	2	1.057		
	2km to 5km	1.00 5km; 1 to 3 IWTS	275	.940	.922	.957
	ZKIII to SKIII	2.00 5km: 4 to 6 IWTs	170	.968	.942	.984
		3.00 5km; 7 to 9 IWTs	91	.971	.943	1.021
		4.00 5km: 10 to 15 IWTs	39	.964	.861	.994
		5.00 5km: 16 to 20 IWTs	13	.991	.896	1.147
		6,00 5km; 21 to 30 IWTs	7			
		7.00 5km; 21 to 40 IWTs		.877	.774	1.014
			506	.787	040	0.07
	0.4:11:51	Overall	596	.956	.946	.967
	Outside 5km	Overall	1162	.974	.964	.984

Market Area	Distance	Density	Sale Count	LoA	95% LCL	95% UCL
201678WF040	2km to 5km	1.00 5km: 1 to 3 IWTS	22	.985	.884	1.063
l .		Overall	22	.985	.884	1.063
	Outside 5km	Overall	1300	.998	.989	1.007



MUNICIPAL PROPERTY ASSESSMENT CORPORATION

March 7, 2017

To:

Heads of Council, Chief Administrative Officers.

Finance Officers, Treasurers and Tax Collectors

From:

Carla Y. Nell

Vice President, Municipal & Stakeholder Relations

Subject:

Assessing Properties in Proximity to Industrial Wind Turbines

I would like to take this opportunity to share an update on a recent study published by the Municipal Property Assessment Corporation (MPAC).

We heard from Ontarians that they wanted more information about the impact of Industrial Wind Turbines (IWT) on property values. Given MPAC's legislative mandate to assess properties in Ontario, our assessors continually monitor influences on property value and recently conducted a comprehensive study to ensure that the assessments of properties in proximity to IWTs are fair and accurate.

Our findings concluded that the 2016 Current Value Assessments (CVA) of properties within five kilometres of an IWT are assessed at their current value and are equitably assessed in relation to homes at greater distances.

Our findings are consistent with the 2008 and 2012 CVA reports from MPAC and have been confirmed by Robert J. Gloudemans, an internationally recognized expert in the field of mass appraisal and ratio studies. The full report is available on mpac.ca under Property Types, Industrial Wind Turbines.

If you are interested in learning more about the 2016 base year study, I encourage you to join one of our information webinars. The agenda will include a review of the study and key findings.

To register for this event, simply select your preferred date below, click on it and send it. Shortly thereafter, you will receive an appointment for the respective date including the webinar details. Capacity for each call is limited so we encourage you to RSVP as soon as possible so that we can effectively manage demand.

Monday, April 3rd: 2:00 p.m. – 3:00 p.m. Thursday, April 6th: 11:00 a.m. – 12:00 p.m.

If you have any questions, please contact your local Municipal & Stakeholder Relations Account Manager.

Yours truly,

Carla Y. Nell

Vice-President, Municipal and Stakeholder Relations

Copy Regional and Account Managers, Municipal and Stakeholder Relations



TOWNSHIP OF ZORRA

274620 27th Line, PO Box 306, Ingersoll, ON, N5C 3K5 Ph. (519) 485-2490 · 1-888-699-3868 · Fax: (519) 485-2520

March 1, 2017

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

Dear Premier Wynne:

Please be advised the Council of the Township of Zorra passed the following resolution at its February 14, 2017 regular meeting:

"WHEREAS, Automated External Defibrillators are used to treat sudden cardiac arrest and have been proven to be life-saving during the waiting time period for emergency services;

AND WHEREAS, for every minute a person in cardiac arrest goes without being successfully treated by defibrillation, the chance of survival decreases by 7 percent in the first, and decreases by 10 percent per minute as time advances past 3 minutes;

AND WHEREAS, Andrew Stoddart, a 15 year old boy, passed away while playing soccer in Kintore, Ontario, an AED on site may have increased his odds of survival. Andrew's Legacy foundation has currently purchased 22 AEDs for across Oxford County, including all three elementary schools in Zorra Township;

AND WHEREAS, Thames Valley District School Board has yet to put together a policy for having AED's in place in all, or any, of their public elementary and secondary schools;

THEREFORE BE IT RESOLVED THAT the Township of Zorra requests that the Premier, and Minister of Education, develop a policy that enables all schools and school boards in Ontario, including the Thames Valley District School Board, that allows individual elementary and secondary schools to have an AED installed in their schools;

AND THAT the Township of Zorra request that the Thames Vailey District School Board and all other schools in Ontario develop a policy to install AEDs in all schools in Ontario as soon as possible for the safety of our children.

Email: zorra@zorra.on.ca

INFO 6 MAR 1 6 2017 AND THAT this resolution be sent to the Premier, Minister of Education, AMO, Thames Valley District School Board; and all Ontario Municipalities for consideration and support."

Disposition: Carried

If you have any questions, please do not hesitate to contact me.

Yours truly,

Karen Martin

Clerk

cc: Minister of Education

Association of Municipalities of Ontario (AMO)

Thames Valley District School Board

All Ontario Municipalities

17-011



1 John Street, P.O. Box 39
Killaloe, ON K0J 2A0
Telephone: (613)757-2300 - Fax: (613)757-3634
Email: info@khrtownship.ca
Web Site: killaloe-hagarty-richards.ca

March 1, 2017

Honourable Kathleen Wynne Premler of Ontarlo Legislative Bullding, Queen's Park Toronto, ON M7A 1A1

Dear Premier Wynne:

Re: Proposed Amendments to Ontario Building Code - Change #08-09-03

In regard to the above noted issue, attached please find a resolution from the Township of Killaloe, Hagarty and Richards. As outlined in the resolution, our Council is vehemently opposed to the additional cost and responsibility that will result from this unnecessary amendment to the Ontario Building Code.

Your attention to the concerns outlined in our resolution would be greatly appreciated, and we look forward to your reconsideration of this legislation which, if passed in its present state, will result in an additional financial and service delivery burden to municipal governments. Thank you.

Sincerely

orna Hudder, CMO, Dipl.M.M.

CÁO/Clerk-Treasurer

LMH

Attachment



TOWNSHIP OF KILLALOE, HAGARTY AND RICHARDS

Date: February 21, 2017

Resolution

vo.:<u>(7)</u>

Moved By:

Seconded By:

WHEREAS: The MMAH has proposed a change to the building code, 8-08-09-03, requiring mandatory five year septic tank pump out and records retention by the owner; and

WHEREAS: That same change requires Municipalities to administer and enforce this change; and

WHEREAS: The change document fails to identify the administrative costs to Municipalities; and

WHEREAS: The change document falls to identify any transfer of Provincial funding to offset these downloaded costs; and

WHEREAS: Many Municipalities already have bylaws to regulate septic systems especially near waterways; and

WHEREAS: The majority of homeowners pump out their septic tanks on a regular basis whether regulated to or not; and

WHEREAS: There are many more important issues on which to spend taxpayer's money than "enhancing" maintenance on existing functioning systems; and

WHEREAS: Adequate legislation aiready exists to correct malfunctioning systems; and

WHEREAS: Premier Wynne stated on Monday, January 30th, 2017 at the ROMA conference that the Province recognizes that "one size fits all" solutions do not always work in rural Ontario;

THEREFORE BE IT RESOLVED THAT the Township of Killaloe, Hagarty and Richards request the Honorable Bill Mauro, Minister of Municipal Affairs, to rescind proposed building code change B-08-09-03;

AND THAT a copy of this resolution is sent to the Honourable Kathleen Wynne, Premier of Ontarlo, the Honourable Bill Mauro, Minister of Municipal Affairs, Mr. Patrick Brown, Leader of the Progressive Conservative Party, Ms. Andrea Horwath, Leader of the New Democratic Party, and all Members of Provincial Parliament in the Province of Ontario;

AND THAT a copy of this resolution is sent to the Association of Municipalities of Ontario (AMO), the Rural Ontario Municipal Association (ROMA), the Federation of Northern Ontario Municipalities (FONOM), and to all Ontario Municipal Mayors for consideration.

Carried:	Not Carried:
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Corporation of the Municipality of Thames Centre

4305 Hamilton Road, Dorchester, Ontario NOL 1G3 - Phone 519-268-7334 - Fax 519-268-3928 - www.thamescentre on ca = inquiries@thamescentre on ca

February 28, 2017

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

Dear Premier Wynne:

At its last regular meeting held on February 22, 2017, the Council of The Corporation of the Municipality of Thames Centre enacted the following resolution:

"WHEREAS, Automated External Defibrillators are used to treat sudden cardiac arrest and have been proven to be life-saving during the waiting time period for emergency services;

AND WHEREAS, for every minute a person in cardiac arrest goes without being successfully treated by defibrillation, the chance of survival decreases by 7 percent in the first, and decreases by 10 percent per minute as time advances past 3 minutes;

AND WHEREAS, Andrew Stoddart, a 15 year old boy, passed away while playing soccer in Kintore, Ontario, an AED on site may have increased his odds of survival. Andrew's Legacy Foundation has currently purchased 22 AEDs for across Oxford County, including all three elementary schools in Zorra Township;

AND WHEREAS, Thames Valley District School Board has yet to put together a policy for having AED's in place in all, or any, of their public elementary and secondary schools;

THEREFORE BE IT RESOLVED THAT the Municipality of Thames Centre requests that the Premier, and Minister of Education, develop a policy that enables all schools and school boards in Ontario, including the Thames Valley District School Board, that allows individual elementary and secondary schools to have an AED installed in their schools:

AND THAT the Municipality of Thames Centre request that the Thames Valley District School Board and all other schools in Ontario develop a policy to install AEDs in all schools as soon as possible for the safety of our children.

AND THAT this resolution be sent to the Premier, Minister of Education, AMO, Thames Valley District School Board; Middlesex County; and all Ontario Municipalities for consideration and support."

Letter – Premier Wynne February 28, 2017 Page 2

The Council is very concerned with this issue and respectfully requests that further consideration be given to ensure a policy is developed that enables all schools and school boards in Ontario, including the Thames Valley District School Board, and that allows individual elementary and secondary schools to have an AED installed in their schools.

Thank you.

Sincerely,

The Corporation of the Municipality of Thames Centre

Jim Maudsley

Mayor

CC:

Minister Mitzie Hunter, Education

Association of Municipalities of Ontario (AMO)

Laura Elliott, Director, Thames Valley District School Board

Kathy Bunting, Clerk, Middlesex County

All Ontario Municipalities

Kerby Waud, Principal, River Heights Public School

Catherine Zeisner, Principal, Northdale Central Public School

Suzanne Terpstra, Principal, St. David Catholic School

Cathy Johnston, Principal, West Nissouri Public School

Christine Vitsentzatos, Principal, Lord Dorchester Secondary School

Ministry of Community Safety and Correctional Services

Office of the Fire Marshal and Emergency Management

25 Morton Shulman Avenue Toronto ON M3M 0B1 Tel: 647-329-1100 Fax: 647-329-1143 Ministère de la Sécurité communautaire et des Services correctionnels

Bureau du commissaire des incendies et de la gestion des situations d'urgence

25, avenue Morton Shulman Toronto ON M3M 0B1 Tél: 647-329-1100 Téléc: 647-329-1143



Date:

March 6, 2017

To:

Emergency Management Officials

From:

Ross Nichols

Fire Marshal and Chief, Emergency Management

Office of the Fire Marshal and Emergency Management Ministry of Community Safety and Correctional Services

Shelley Tapp

Assistant Deputy Minister and Chief Administrative Officer

Corporate Services Division Ministry of Transportation

Re:

Transportation of Radioactive Materials in Ontario

We are pleased to announce the release of new awareness materials to support emergency preparedness and response activities related to transportation incidents involving radioactive materials.

As you are likely aware, a variety of radioactive materials are routinely transported on Ontario roads. In general these shipments pose a minimal risk to public health and safety due to strict packaging and safety standards (outlined in Transport Canada's *Transportation of Dangerous Goods Regulation* and by the Canadian Nuclear Safety Commission's *Packaging and Transport of Nuclear Substances Regulation*). Despite this low risk, both the Ministry of Transportation and the Office of the Fire Marshal and Emergency Management recognize the importance of ensuring that communities know how to prepare for - and respond appropriately to - these incidents.

The attached slide deck provides background information on types of radiation, the materials being transported in Ontario, and appropriate response actions. Also attached is a fact sheet on Highly Enriched Uranium/Highly Enriched Uranyl Nitrate (HEU/HEUNL). As indicated in recent media reports, HEUNL will be repatriated from Chalk River to the United States under the Global Threat Reduction Initiative. The first

shipments are expected to begin this Spring. It is our understanding that the routes will not be publicized by the federal government.

If you have any questions or require further information on these new products please contact Stephanie Maragna of the Ministry of Transportation at stephanie.maragna@ontario.ca or Jonathan Stone of the Ministry of Community Safety and Correctional Services at jonathan.stone@ontario.ca.

We appreciate your ongoing emergency management and transportation safety efforts.

Sincerely,

Ross Nichols

Fire Marshal and Chief, Emergency Management Office of the Fire Marshal and Emergency Management Ministry of Community Safety and Correctional Services

Shelley Tapp

Assistant Deputy Minister and Chief Administrative Officer

Corporate Services Division Ministry of Transportation



Fact Sheet / Frequently Asked Questions: Highly Enriched Uranium

What is Highly Enriched Uranium?

- Highly Enriched Uranium (HEU) is natural uranium that has been enriched to raise the proportion of Uranium-235 to exceed 20%. This is in contrast to natural uranium which has a proportion of Uranium-235 of less than 1%.
- In Canada, HEU was used as fuel in research reactors and as target for the production of medical isotopes.

What is Highly Enriched Uranyl Nitrate Liquid (HEUNL)?

 Highly Enriched Uranyl Nitrate Liquid or HEUNL is Highly Enriched Uranium (HEU) in liquid solution. HEUNL is a liquid by-product of medical isotope production from the <u>Canadian Nuclear Laboratories (CNL)</u> in Chalk River, Ontario.

Why is HEU/HEUNL moving from Canada to the United States?

- As a part of the Global Threat Reduction Initiative the Federal Government is shipping HEU/HEUNL, from CNL Chalk River facility by road to the Savannah River site in South Carolina.
- Under this initiative the Federal Government of Canada has agreed to complete all shipments by the end of 2018.

How will HEU/HEUNL be transported?

- HEU/HEUNL is transported via roadway in packages that are specifically
 designed and certified by both the Canadian Nuclear Safety Commission (CNSC)
 and its U.S. counterpart, the Nuclear Regulatory Commission, to meet
 international safety requirements.
- Packages used for the transportation of HEU/HEUNL are designed to withstand
 potential accidents and undergo stringent testing for worst case scenarios that
 are based on international standards. The testing includes a 9-metre free drop
 test, a puncture or penetration test, a thermal or fire-engulfing test, and a water
 immersion test.

How is the transportation of HEU/HEUNL and other radioactive materials regulated in Canada?

- The responsibility for ensuring safe transport of radioactive materials is jointly shared between the CNSC and Transport Canada.
- Consignors and carriers of radioactive materials must comply with both the Packaging and Transport of Nuclear Substances Regulations, 2015 (PTNSR) and the Transportation of Dangerous Goods Regulations (TDGR).
- Radioactive materials are transported using packages that meet CNSC regulatory requirements and in some cases (e.g. packages used to transport HEU) the package designs have been certified by the CNSC.
- The transportation of HEU/HEUNL requires a Transport Licence issued by the CNSC prior to shipment. Detailed security plans for each shipment are a licensing requirement.
- Under the Transportation of Dangerous Goods Act transporters are required to report any actual or anticipated releases.
- Pursuant to the TDGR, prior to the transport of certain dangerous goods that exceed a specified value, a Transport Canada approved Emergency Response Assistance Plan (ERAP) is required.

What security and safety measures are in place in anticipation of the shipments of HEU/HEUNL?

- Shipments of HEU/HEUNL must have a security plan in place that is approved by the CNSC. The approved security plan must include a threat assessment, proposed security measures in place during transport, communication agreements between the carrier and response forces, and primary and alternate transportation routes.
- A Transport Canada approved ERAP is required for the transport of HEU/HEUNL. An ERAP is intended to assist local emergency responders by providing them with access to technical experts and specially trained/equipped emergency response personnel at the scene of a transportation incident.
- Transport Canada regulations also require a 24-hour emergency telephone number on all shipping documents that accompany each shipment.

Additional Resources:

- Provincial Resources for Hazmat/CBRNE Incident Response and HUSAR
 http://www.mcscs.jus.gov.on.ca/english/FireMarshal/FireServiceResources/Communiques/OFM Com 2016-05.html
- Transport Canada CANUTEC
 www.tc.gc.ca/eng/canutec/menu.htm
- Canadian Nuclear Safety Commission Highly Enriched U ranium in Canada http://nuclearsafety.gc.ca/eng/reactors/research-reactors/nuclear-facilities/chalk-river/highly-enriched-uranium-in-canada.cfm
- Ministry of Health and Long-Term Care Radiation Health Response Plan http://www.health.gov.on.ca/en/pro/programs/emb/rhrp/
- Canadian Nuclear Safety Commission The Safe Transport of Highly Enriched Uranium
 http://www.nuclearsafety.gc.ca/cnsconline/fl/index-eng.cfm
- Canadian Nuclear Laboratories "A commitment to global safety and security"
 http://www.cnl.ca/en/home/environmental-stewardship/repatriation/default.aspx



Transportation of Radioactive Materials in Ontario Information Package

Prepared by the Ministry of Transportation and Ministry of Community Safety and Correctional Services

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- Conclusion



Introduction

- The Ministry of Transportation (MTO) and the Ministry of Community Safety and Correctional Services (MCSCS) have developed this *Transportation of Radioactive Materials in Ontario* Information Package to enhance first responder and emergency management stakeholders' preparedness for an incident involving the transportation of radioactive materials.
- This information package aims to raise general awareness about the transportation of radioactive materials in Ontario, including <u>Highly Enriched Uranium (HEU)/Highly Enriched Uranyl Nitrate (HEUNL)</u>.



Background

- Approximately 1 million packages containing radioactive materials are safely transported in Canada every year.
- Radioactive materials come in a variety of types, and when transported, are subject to stringent safety regulations to protect the public in the event of a transportation incident.
- The transportation of radioactive materials in Ontario poses minimal risk to public health and safety.



Objectives

The objective of this Information Package is to provide first responders and emergency management stakeholders with information on:

- 1) The regulatory requirements for the transportation of radioactive materials;
- 2) Basics of radiation and potential health consequences;
- What types of radioactive materials are being transported in Ontario;
- 4) Available resources to inform first responders and emergency management stakeholders in the event of a transportation incident involving radioactive materials; and
- 5) Where to access additional resources.



Section 1: Regulatory Framework





Regulatory Framework

Overview

- Canada is one of many countries that regularly transport radioactive materials. As such, all regulations are based on international standards and best practices as defined by the International Atomic Energy Agency (IAEA).
- The federal government regulates the shipment of radioactive materials; the provincial and municipal governments have responsibilities regarding the response to a transportation incident and would receive support from the consignor and federal agencies.
- The regulatory framework for the transportation of radioactive material and the emergency response to a potential incident involving such transportation involves multiple stakeholders.

Federal Regulatory Framework

Transportation of radioactive material is jointly regulated by:

Transport Canada

- Transportation of Dangerous Goods Regulations (TDG).
- Sets transportation requirements for all nine classes of dangerous goods.

Canadian Nuclear Safety Commission (CNSC)

- Packaging and Transport of Nuclear Substances Regulations, 2015 (PTNSR).
- Based on International Atomic Energy Agency (IAEA) Standards.
- Sets transportation packaging and classification requirements.



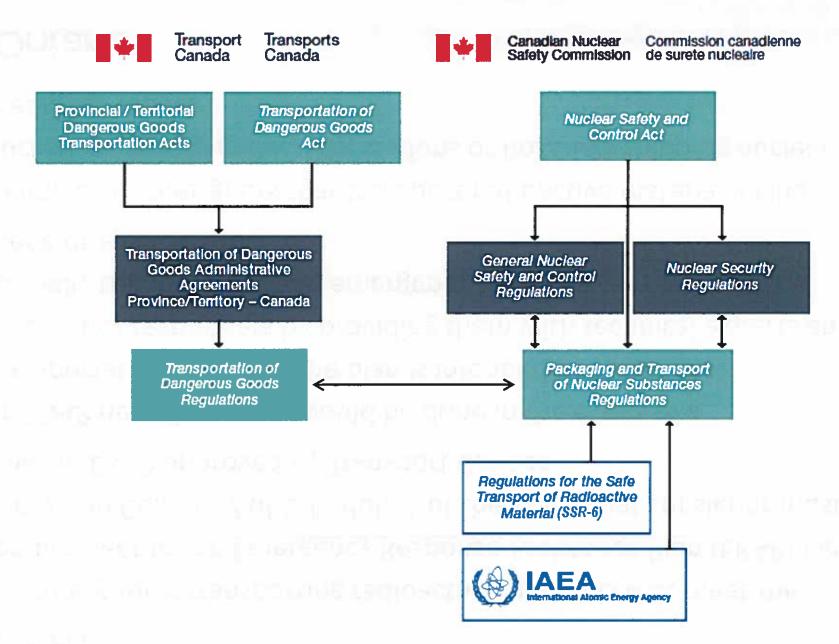


Chart illustrates International and Federal Regulatory Frameworks



Consignors' Roles and Responsibilities

Consignors

- If a consignor is transporting radioactive materials that meet the requirement for an Emergency Response Assistance Plan (ERAP) (see Part 7 and Column 7 of Schedule 1 of the TDG), that consignor must have an ERAP approved by Transport Canada.
- An ERAP describes what would be done in the event of a transportation incident. The plan is intended to assist local emergency responders by providing them with technical experts and specially trained/equipped emergency response personnel at the scene of an incident.
- Examples of consignors that transport radioactive material include nuclear electricity generating stations or hospitals shipping nuclear medicinal waste.



Municipal and Provincial Roles and Responsibilities

Municipalities

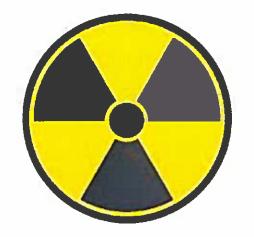
 Responsible for taking appropriate measures to protect public health and safety within their jurisdiction

Province of Ontario

- The <u>Provincial Nuclear Emergency Response Plan</u> provides the framework for the overarching nuclear emergency response for the Government of Ontario and governs the response to nuclear and radiological emergencies in the province.
- The Province can provide coordination and support for the emergency response to a transportation incident involving radioactive material.
- Various provincial ministries have responsibilities under Order in Council 1157/2009 to respond to radiological and/or transportation incidents.



Section 2: Radiation Basics





Radiation Basics

Overview

 There are some radioactive materials that pose minimal threat to public health and safety, while others should be handled with extreme caution.

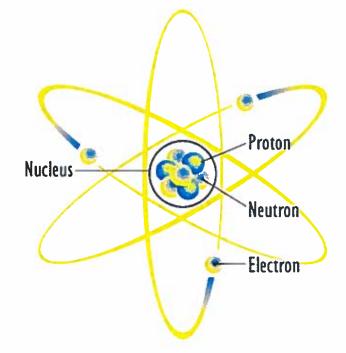
 This section will identify what radiation is and identify methods to reduce the potential health consequences of radiation exposure or contamination.



Radiation Basics

What is Radiation?

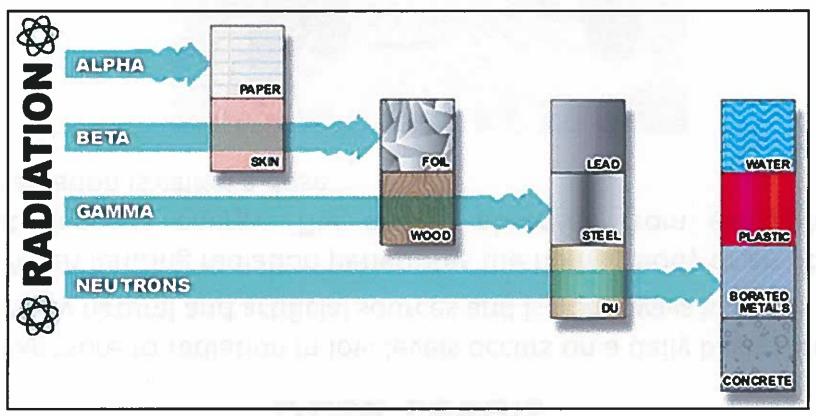
- Radiation is energy in the form of high speed particles and electromagnetic waves that can be found everywhere (e.g. visible light, radio and television waves, microwaves, and cosmic rays).
- Non-lonizing Radiation: Does not have enough energy to ionize* molecules but can damage cells and tissue. It represents a low risk to human health (e.g. sunlight, microwaves).
- Ionizing Radiation: Is radiation that carries enough energy to free electrons from atoms and molecules, thereby ionizing them. A potentially high risk to human health (e.g. x-rays, gamma radiation).



*Ionization refers to the action of creating ions by ejecting an electron from an atom or molecule.

Radiation Basics Ionizing Radiation Types

The most common types of ionizing radiation are alpha (α), beta (β), and gamma (γ); neutrons are a fourth type. The image below shows the different types of radiation and the level of shielding required to reduce or eliminate the dose rate.



Source: Ministry of Health and Long Term Care, Radiation Health Response Plan

Ontario

Radiation Basics

Dose Levels

- Exposure to radiation in low levels occurs on a daily basis through many natural and artificial sources and is not always harmful.
- When ionizing radiation penetrates the human body or an object, it deposits energy. The energy absorbed from exposure to radiation is called a dose.





Source: Canadian Nuclear Safety Commission

Radiation Basics **Exposure vs. Contamination**

It is important to know the difference between radiation exposure and contamination.

Exposure

- The act or condition of being subject to irradiation (the process by which an organism or object is exposed to radiation) either externally or internally.
- The significance of radiation exposure to individuals depends on its duration, the nature of the source, the proximity to the source and the availability and nature of shielding.
- It is possible for a person to be exposed to radiation yet not be contaminated. People who have been exposed do not pose a risk to others interacting with them.
- Exposure takes place as long as radioactive atoms stay near, on, or in the body.

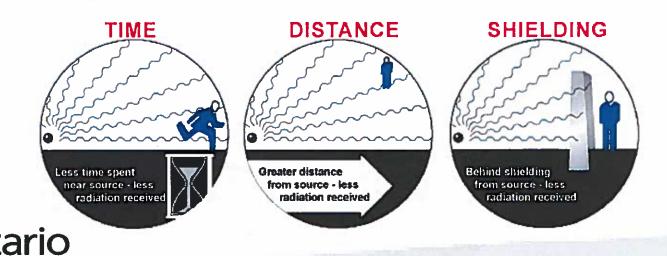




Radiation Basics Reducing External Exposure

Reducing exposure to an <u>external</u> dose of radiation can be achieved by using the following principles:

- 1. <u>Time:</u> Minimize time spent in a radiation field. The dose received is directly proportional to time spent at that location.
- **Distance:** Increase the distance from a radioactive source in order to decrease the dose rate.
- **Shielding:** Provide a shield between the person and the radioactive source in order to reduce or eliminate the dose rate.



Radiation Basics

Reducing Internal Exposure

Internal exposure is only possible through ingestion, inhalation or absorption of a radioactive source. Reducing <u>internal</u> radiation exposure can be achieved through the following actions:

- Wear appropriate personal protective equipment;
- Control the spread of loose contamination;
- Decontaminate individuals and items in a timely manner; and,
- Get treatment with appropriate pharmaceuticals in a timely manner (e.g.,

potassium iodide, Prussian blue).



Radiation Basics

Exposure vs. Contamination

Contamination

- Contamination refers to when radioactive material is deposited in water or air, or on the surfaces of structures, areas, objects, or people. Contamination of humans can be internal or external.
- External contamination refers to materials containing radioactive isotopes that are deposited on the skin. This can usually be removed with soap and water.
- Internal contamination refers to radioactive material that is taken into the body through inhalation, ingestion, or absorbed through skin or wounds. This is more difficult to remove and requires sophisticated treatment.
- The effects of contamination are related to the amount of radiation to which an individual is exposed, the length of time of exposure, and the part(s) of the body affected. Human health impacts can range from very mild and self-limiting effects such as reddening of the skin to severe burns, organ failure, and death; these effects can occur days to months after a serious incident.





Radiation Basics Contamination Control Practices

- In order to reduce the chances of becoming contaminated, individuals should:
 - Understand the principles of time, distance and shielding;
 - Wear personal protective equipment that provides the highest level of skin and respiratory protection; and,
 - Control the spread of loose contamination.
- If contamination does occur:
 - Decontaminate individuals and items in a timely manner; and,
 - Get treatment with appropriate pharmaceuticals in a timely manner.



Section 3: Transportation of Radioactive Materials





Transportation of Radioactive Materials Packaging

- All packages used for the transport of radioactive material must meet certain safety and performance requirements as stated in IAEA regulations.
- The objectives of the regulations are to protect the health and safety of persons and the environment.
- The greater the radioactivity, the more robust the package.
- Depending on the material to be transported, the following types of packages may be used to transport radioactive materials:

Excepted Packages

Type H package*

Industrial Type Packages

Type B Package*

Type A package*

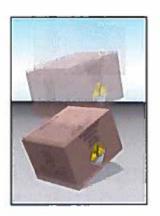
Fissile Material packages

^{*} The design of these package types must be certified by the Canadian Nuclear Safety Commission before they can be used.

Transportation of Radioactive Materials

Packaging: Excepted, Industrial, and Type A

- The contents of these packages pose minimal threat to public health and safety based on their radioactive levels.
- Industrial and Type A packages are designed to withstand a series of tests that simulate normal conditions of transport without loss of content and with limited increase to the dose rate on the exterior of package.
- Some of the tests these packages must be able to pass include:



Drop test: A 1.2metre (47 in) drop test onto an unyielding surface



Penetration test: dropping a metal bar onto the package



Water spray test: simulating rain fall



Stacking test



Transportation of Radioactive Materials Types of Packaging

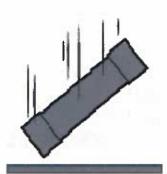
Туре	Use	Example	Photo
Excepted Package	Transport very small quantities of radioactive materials	 Empty packages previously containing radioactive material Smoke detectors Medical isotopes 	Medical Isotopes Container
Industrial Package	Transport low specific activity (LSA) material and surface contaminated objects (SCO)	 Uranium ores and concentrates Low-level radioactive waste (contaminated paper towels, gloves, etc.) 	Uranium Ore Containers
Type A Package	Transport quantities of radioactive materials that pose minimal risk to human health or safety or the environment	 Medical isotopes industrial devices (portable nuclear densometer gauges) 	Type A package and label



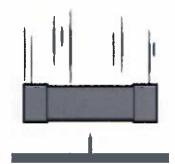
Transportation of Radioactive Materials

Packaging: Type H, Type B and Fissile Material

- Type B packages are very robust with radiation shielding, and remain intact even under accident conditions of transport.
- Type B packages must withstand the same normal transportation conditions as
 Type A packages, as well as testing to simulate accident conditions.
- Packages used to transport fissile material must remain sub-critical when subjected to the tests for Type B packages.
- Before these packages can be used in Canada they require certification by the CNSC by undergoing stringent testing, including:



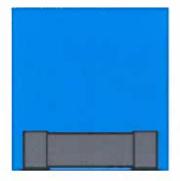
FREE DROP
A 9-metre (30-foot) iree-fall
onto an unylelding surface



PUNCTURE
A 1-metre (40-inches) free-fall
onto a steel rod



THERMAL A 3C-minute, fully-engulfing fire at 800° (1475°)



IMMERSION
An E-hour immersion under water



Transportation of Radioactive Materials Types of Packaging

Туре	Use	Example	Photo
Type H	Transport uranium hexafluoride (UF6)	UF6 is a compound used in the uranium enrichment process that produces fuel for nuclear reactors	Type H Package
Type B	Transport highly radioactive materials	 Cobalt sources Exposure devices Used nuclear fuel from CANDU reactors 	Type B Package (Exposure Device)
Fissile Material	Transport radioactive materials that are fissile	 Highly enriched uranium (HEU/HEUNL) High-level radioactive waste 	Type B Fissile Package



Transportation of Radioactive Materials In the Media: HEU/HEUNL

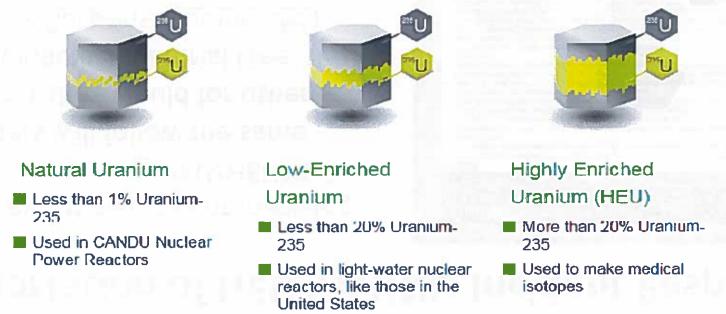
- As a part of the Global Threat Reduction Initiative the Federal Government is shipping Highly Enriched Uranium (HEU and HEUNL) from Canadian Nuclear Laboratories' (CNL) Chalk River facility by road to Savannah River, South Carolina.
 - o This initiative removes existing weapons-grade material from Canada and eliminates a nuclear liability for future generations of Canadians.
- HEU/HEUNL is transported via roadway in packages that are certified by both the Canadian Nuclear Safety Commission (CNSC) and its U.S. counterpart, the Nuclear Regulatory Commission, to meet international safety requirements.
- These packages are very robust, designed to withstand potential accidents and undergo strict testing for based on international standards.
- Transport of HEU/HEUNL is subject to the same regulatory packaging and transport requirements as all other radioactive materials.



Transportation of Radioactive Materials Highly Enriched Uranium

What is it?

- Highly Enriched Uranium (HEU) is natural uranium that has been enriched to raise the proportion of Uranium-235 to exceed 20%, in contrast to natural uranium which has a proportion of Uranium-235 of less than 1%.
- In Canada, HEU was used as fuel in research reactors and as target for the production of medical isotopes.
- Enriched Uranyl Nitrate Liquid (HEUNL) is Highly Enriched Uranium in a liquid solution.





Transportation of Radioactive Materials Transportation of HEU/HEUNL: Incident Response

- In the event of an incident involving packages containing HEU/HEUNL First Responders will follow the same procedures they would for other fissile radioactive material (See **Emergency Response Guide 165).**
- Note: An Emergency Response Assistance Plan (ERAP) is required for the transportation of HEU/HEUNL.
- For more information on Response Measures see Section 4.

GUIDE RADIOACTIVE MATERIALS (Fissile/Low to High Level Radiation) 165

POTENTIAL HAZARDS

HEALTH

- Radiation presents minimal risk to transport workers, emergency response personnel and the public during transportation accidents. Packaging durability increases as potential radiation and criticality hazards of the
- Undemaged packages are safe. Contents of demaged packages may cause higher external radiation exposure, or both external and internal radiation exposure if contents are released.
- Type AF or IF packages, identified by package markings, do not contain life-threatening amounts of material. External radiation levels are low and puckages are designed, evaluated and tested to control releases and to prevent a lission chain reaction under severe transport conditions.
- Type B(U)F, B(M)F and CF packages (identified by markings on packages or shipping papers) contain potentially life-endangering amounts. Because of design, evaluation and testing of packages, fission chain reactions are prevented and releases are not expected to be life-endangering for all accidents except those of
- The rarely occurring "Special Arrangement" shipments may be of Type AF, BF or CF packages. Package type will be marked on packages, and shipment details will be on shipping papers.
- The transport index (TI) shown on labels or a shipping paper might not indicate the radiation level at one meter from a single, isolated, undamaged package; instead, it might relate to controls needed during transport because of the fasale properties of the materials. Alternatively, the fasale nature of the contents may be indicated by a criticality satety index (CSI) on a special FISSILE tabel or on the shipping paper.
- Some radioactive materials cannot be detected by commonly available instruments.
- Water from cargo fire control is not expected to cause pollution.

- These materials are seldom flammable. Packages are designed to withstand fires without damage to contents.
- Radioactivity does not change flammability or other properties of materials.
- Tion AF, IF, B(U)F, B(M)F and CF poducous are designed and evaluated to withstand total engulment in flames at temperatures of 800°C (1475°F) for a period of 30 minutes.

PUBLIC SAFETY

- CALL EMERGENCY RESPONSE Telephone Number on Shipping Paper first, If Shipping Paper no available or no answer refer to appropriate telephone number fisted on the inside back cover.
- Priorities for rescue, like-saving, first aid, fire control and other hazards are higher than the priority for
- Radiation Authority must be notified of accident conditions. Radiation Authority is usually responsible for decisions about radiological consequences and closure of emergencies.
- As an immediate precautionary measure, exclute spill or leak area for at least 25 meters (75 feet) in all directions. * Stay upwind, uphill and/or upstream. * Keep unauthorized personnel away.
- Detain or isolate uninsured persons or equipment suspected to be contaminated, delay decontamination and cleanup until instructions are received from Radiation Authority.

PROTECTIVE CLOTHING

 Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection against internal radiation exposure, but not external radiation exposure.

Large Spitl

Consider initial downwind evacuation for at least 100 meters (330 feet).

 When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 meters (1000 feet) in all directions.



in Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).





Section 4: Response Measures





Placards

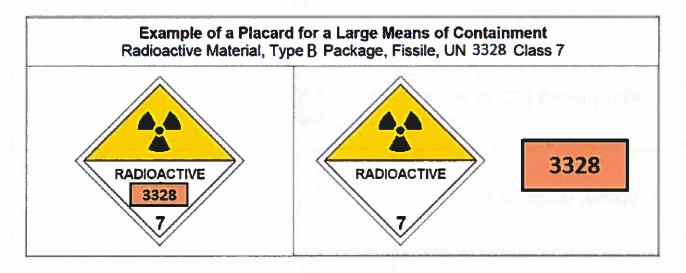
Vehicles transporting Class 7 Radioactive Materials must display placards if one of the following conditions is met:

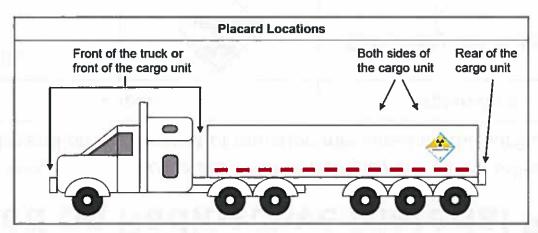
- Packages display the III-Yellow labels
- An ERAP is required for the material (UN# also required)
- More than 500kg gross mass (total weight of material and package) is transported





Placards and UN Number







Labels used on Radioactive Material Packages

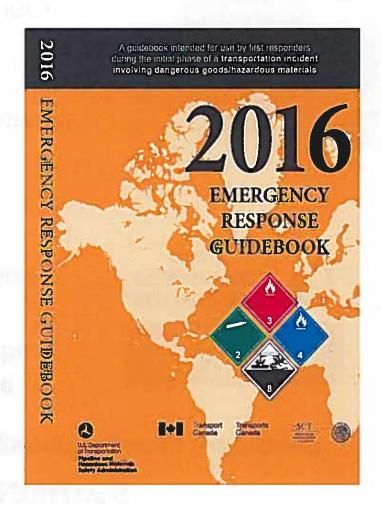
Packages used to transport radioactive materials will display one of the following transport labels which will depend on the amount of radiation measured on the surface of the package.

Label		Explanation	
I-White	RADIOACTIVE 1	Extremely low radiation levels	
II-Yellow	RADIOACTIVE II	Low radiation levels	
III-Yellow	RADIOACTIVE III	Higher radiation levels	
Fissile	FISSILE	Fissile Materials	
No Label	N/A	Excepted packages	



Emergency Response Guidebook

- Intended for use by first responders during a transportation incident involving dangerous goods.
- Aid in quickly identifying specific or generic hazards of the material(s) involved in an incident, and in protecting first responders and the general public during the initial response phase of an incident.
- Guide 161 to 166 (pages 260 to 271)
 address Class 7 Radioactive Materials.
- It can be found online <u>here</u>.



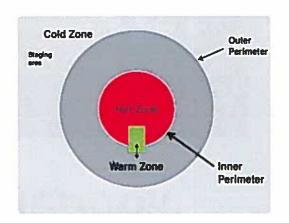


Response Measures Public Safety Measures

Summary of Guides 161 to 166 of the Emergency Response Guidebook

- Priorities for rescue, life-saving, first aid, fire control and other hazards are higher than the priority for measuring radiation levels.
- As an immediate precautionary measure, isolate location at least 25 metres in all directions.
- Stay upwind, uphill and/or upstream.
- Keep unauthorized personnel away.
- Detain or isolate uninjured persons or equipment suspected to be contaminated.
- If there is a package breach, delay decontamination and cleanup until instructions are received from *Radiation Authority*, <u>Canadian</u> <u>Nuclear Safety Commission</u>.







Response Measures

Emergency Response Assistance Plan (ERAP)

What does it do?

- The plan is intended to assist local emergency responders by providing them with access to <u>technical experts</u> and <u>specially</u> <u>trained and equipped emergency response personnel</u> at the scene of an incident.
- Describes the specialized response capabilities, equipment and procedures that will be used to support a response to incidents involving high-risk dangerous goods.

ERAP and Radioactive Materials

 If a shipment of radioactive material requires an ERAP, it will be provided by the consignor.

Example: CNL has an ERAP in place and approved by Transport Canada which covers the transport of HEU in solid and liquid form



Response Measures

Emergency Response Assistance Plan (ERAP)

Where do I find ERAP information?

• Transportation of Dangerous Goods Regulations requires that the ERAP reference number and activation telephone number be present on the shipping documents.

Examples:

2-2021 ERP:

613-123-4567

ERAP 2-2021:

316-123-4567

PIU 2-2021:

613-123-4567

- For a road vehicle, shipping documents should be within the driver's reach or clearly visible when the vehicle is unattended.
- For more information on ERAPs <u>click here</u>.



Response Measures

Emergency Response Assistance Plan (ERAP)

**First responders are reminded to only undertake actions consistent with their training and level of equipment.

How is it activated?

When arriving at the scene of a transportation incident involving radioactive materials, the following steps are advised:

- 1. Consult the Emergency Response Guide and follow applicable guidelines
- 2. Locate the ERAP Number on shipping document
- 3. Call the ERAP activation telephone number
- 4. If the ERAP cannot be located, call CANUTEC
- 5. Call the Spills Action Centre to advise of incident



- In an emergency CANUTEC may be contacted 24/7 at 1-888-CANUTEC (226-8832) / 613-996-6666 or by dialing *666 on a cellular device within Canada.
- In an emergency, the CNSC can be contacted 24/7 at **1-844-879-0805** or **613-995-0479**
 - The Spills Action Centre can be contacted 24/7 at 1-800-268-6060.

Section 5: Additional Resources and Information







Additional Resources

Provincial Resources for Hazmat/CBRNE Incident Response and HUSAR http://www.mcscs.jus.gov.on.ca/english/FireMarshal/FireServiceResources/Communiques/OFM Com 2016-05.html

Transport Canada - CANUTEC www.tc.gc.ca/eng/canutec/menu.htm

Canadian Nuclear Safety Commission – Highly enriched uranium in Canada http://nuclearsafety.gc.ca/eng/reactors/research-reactors/nuclear-facilities/chalk-river/highly-enriched-uranium-in-canada.cfm

Canadian Nuclear Safety Commission – The Safe Transport of Highly Enriched Uranium http://www.nuclearsafety.gc.ca/cnsconline/fl/index-eng.cfm

Canadian Nuclear Laboratories – "A commitment to global safety and security" http://www.cnl.ca/en/home/environmental-stewardship/repatriation/default.aspx

Ministry of Health and Long-Term Care – Radiation Health Response Plan http://www.health.gov.on.ca/en/pro/programs/emb/rhrp/

Health Canada's online course METER: Basic Concepts of Radiation and Protection Principles(for first receivers in a health care setting):

https://training-formation.phac-

aspc.gc.ca/course/index.php?categoryid=5&lang=en%20training%20(for%20first%20receivers%20in%20health%20care)

NFPA 472: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents http://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards?mode=code&code=472

Emergency Management and Nuclear Security - CNSA http://nuclearsafety.gc.ca/eng/resources/emergency-management-and-safety/index.cfm

If First Responders are in interested in receiving training in emergency response involving radioactive material, they can communicate with CNSC at cnsc.information.ccsn@canada.ca.

Conclusion

- Reader should now have a basic understanding of:
 - ✓ Regulatory requirements for the transportation of radioactive materials
 - ✓ Basics of radiation and potential health consequences
 - ✓ How radioactive materials are transported in Ontario
 - ✓ First Responder resources available in the event of transportation incident involving radioactive materials
 - ✓ Where to access further information
- If you have any questions or require further information please contact <u>askofmem@ontario.ca.</u>





Regular Council Meeting Resolution Form

Date:

February 21, 2017

Moved by Councillor Brum

No:

RESOLUTION - 86-2017

Disposition:

CARRIED.

Item No:

10.1

Description: Mandatory Septic Pumping

RESOLUTION:

Seconded by Councillor Lang

WHEREAS the MMAH has proposed a change to the Building Code, B-08-09-03, requiring mandatory five year septic tank pump out and records retention by the owner; AND WHEREAS that same change requires Municipalities to administer and enforce this

AND WHEREAS the change document fails to identify the administrative costs to Municipalities; AND WHEREAS the change document fails to identify any transfer of Provincial funding to offset these additional downloaded costs;

AND WHEREAS the majority of homeowners pump out their septic tanks on a regular basis whether regulated to or not;

AND WHEREAS there are many more important issues on which to spend taxpayer's money than "enhancing" maintenance on existing functioning systems;

AND WHEREAS adequate legislation already exists to correct malfunctioning systems; THEREFORE BE IT RESOLVED THAT Council of the Township of McNab/Braeside encourage the Ministry of Municipal Affairs to take our concerns very seriously with regards to the proposed change to the Building Code B-08-09-03 and to ask that this proposed change be rescinded; AND FURTHER THAT this resolution be sent to the Minister of Municipal Affairs and Housing, John Yakabuski, MPP, all rural Ontario municipalities, all northern Ontario municipalities, NOMA, ROMA, the City of Ottawa, the Rural Mayors Forum of Eastern Ontario and circulated to all municipalities in Renfrew County for support.

Recorded Vote Requested by:

Yea

Nay

T. Peckett

B. Armsden

H. Lang

M. MacKenzie

S. Brum

Dectaration of Pecuniary Interest:

Disclosed his/her/their interest(s), vacated he/her/their seat(s),
abstained from discussion and did not vote

Denise Holmes

From:

Debra Robinson <42robinson@rogers.com>

Sent:

Monday, February 27, 2017 10:02 AM

To:

Debra Robinson

Subject:

Fw: Raise the Flag for Autism Awareness

Debra Robinson
Parent Volunteer Autism Ontario-Peel Chapter
Past President

On Monday, February 27, 2017 9:54 AM, Debra Robinson < 42robinson@rogers.com > wrote:

What is Raise The Flag?

Autism Ontario's Raise the Flag campaign, through the simple act of raising a flag, unites families, schools, communities, government and professionals in recognizing World Autism Awareness Day, and brings to light to struggles and triumphs of people on the autism spectrum.

Our campaign also features educational toolkits for educators from primary through to post-secondary school.

Autism Ontario is excited to have you participate and celebrate with us. Through this initiative, we are building stronger, more inclusive communities for people with Autism Spectrum Disorder (ASD). We are highlighting the work done throughout the province, and the work that still needs to be done to ensure that children, youth and adults living with ASD are provided the means to achieve quality of life. Thank you for being part of this momentous day with us!

World Autism Awareness Day falls on Sunday, April 2 in 2017, so celebrations will be held on Monday, April 3, 2017.

How do I Get Involved?

Schools

Join us in making your school and community more inclusive place for people with autism! Register and have access to our Educator Toolkits which include activities and educational videos.

You can share your school's stories of inclusion and acceptance.

Click here for a poster to share with your school

Parents, Self-advocates and Supporters As we come together to celebrate World Autism Awareness Day, we invite you to participate in our campaign. There are many ways Ontarians can get involved and support the campaign:

Attend a flag raising ceremony
Fundraise in support of Autism Ontario
Access and share our dynamic educational and awareness resources
Share a story of acceptance, inclusion or insight

Debra Robinson Parent Volunteer Autism Ontario-Peel Chapter Past President

Total Control Panel

Login

To: dholmes@melancthontownship.ca

Message Score: 1

From: 42robinson@rogers.com

My Spam Blocking Level: High

High (60): Pass Medium (75): Pass Low (90): Pass

Block this sender Block rogers.com

This message was delivered because the content filter score did not exceed your filter level.

BEN RYZEBOL, Director of Public Works
PUBLIC WORKS - TELEPHONE: (519) 941-1065

FAX: (519) 941-1802

email: bryzebol@amaranth.ca



SUSAN M. STONE, C.A.O./Clerk-Treasurer

email: suestone@amaranth-eastgary.ca

TELEPHONE: (519) 941-1007

FAX: (519) 941-1802

374028 6TH LINE, AMARANTH, ONTARIO L9W 0M6

February 27, 2017

Hon. Kathleen Wynne, Premier Legislative Building, Queen's Park Toronto, ON M7A 1A1

Dear Premier Wynne:

Re: Provincial Gas Tax Funds

At the regular meeting of Council held February 15, 2017, the following resolution was set forth.

Moved by C. Gerrits - Seconded by H. Foster

Whereas rural and farm communities do not have transit systems but have roads and bridges and transportation infrastructure; and whereas farm communities require access to safe roads; and whereas climate change and increased severity of weather events impact infrastructure; now therefore the Council of the Township of Amaranth requests that Provincial Gas Tax be made available to all municipalities in the same manner that Federal Gas Tax is made available.

Should you require anything further please do not hesitate to contact this office.

Yours truly,

Susan M. Stone, A.M.C.T.

CAO/Clerk-Treasurer

Township of Amaranth

SMS/kp

CC:

Sylvia Jones, MPP Dufferin-Caledon Dufferin County Municipalities



MUNICIPAL PROPERTY ASSESSMENT CORPORATION

March 9, 2017

To:

Mayors and Members of Council,

Chief Administrative Officers, Finance Officers,

Clerks, Treasurers and Tax Collectors

From:

Carla Y. Nell

Vice President, Municipal & Stakeholder Relations

Subject:

2017 Municipal Stakeholder Research

Following the delivery of the 2016 Assessment Update last year, the Municipal Property Assessment Corporation (MPAC) is looking forward to building its next four-year strategy and the delivery of the next province-wide Assessment Update in 2020.

An important focus for us this year is seeking and collecting input from our key stakeholders. As a result, MPAC will be conducting a survey to measure both elected and non-elected officials' views of MPAC's performance as it relates to your municipality. We understand that each municipality has unique attributes and needs. We want to understand how we can better collaborate with you and serve staff in your municipality.

Over the coming weeks, you may receive a call or email from Ipsos requesting your participation in a telephone interview or online survey. Please note that all of the information you provide in the survey will be kept strictly confidential by Ipsos, and your responses will be reported in aggregate only.

Some of you may recall that MPAC wrote to you in 2015 about the importance of hearing from you directly and asked you to participate in the benchmark survey. This survey will serve to follow up on that work. I would like to thank you in advance for taking the time to provide your feedback. If you do not receive a call or email from Ipsos within the next few weeks but wish to participate in the 2017 study, please contact your local Municipal & Stakeholder Relations Account Manager by no later than March 31.

We look forward to continuing to partner with you to serve Ontario's municipalities in the future.

Yours truly,

Carla Y. Nell

Vice-President, Municipal and Stakeholder Relations

Copy Regional and Account Managers

1340 Pickering Parkway, Suite 101, Pickering, ON L1V 0C4
www.mpac.ca

MAR 1 6 2017

Agriculture, Food and Rural Affairs
Appeal Tribunal
1 Stone Road West
Guelph, Ontario N1G 4Y2
Tel: (519) 826-3433, Fax: (519) 826-4232
Email: AFRAAT@ontario.ca

Tribunal d'appel de l'agriculture, de l'alimentation et des affaires rurales 1 Stone Road West Guelph (Ontario) N1G 4Y2 Tél.: (519) 826-3433, Téléc.: (519) 826-4232 Courriel: AFRAAT@ontario.ca



March 3, 2017

Evan Bearss 643132 270 Sideroad Melancthon, Ontario K9V 2M6

Dear Mr. Bearss

Re: Late Filing of Section 65(11) Appeal – McCue Drain Works, Repair and Improvement, 1989

I have reviewed the material provided from yourself and the municipality with respect to your request for an extension of time to file an appeal.

As the municipality has no objection to the extension and the fact that there was ongoing attempts to resolve your issues that were not successful, I am willing to grant your request.

If you have any questions about the above, please contact Tribunal Coordinator, Tracey Henderson directly at (519) 826-3431.

Sincerely,

Kirk Walstedt,

Chair

cc. Denise Holmes, CAO/Clerk, Township of Melancthon

/NFO 14-MAR 1 6 2017 Ministry of Agriculture, Food and Rural Affairs

Office of the Minister

77 Grenville Street, 11th Floor Toronto, Ontario M7A 1B3 Tel: 416-326-3074 Fax: 416-326-3083

Ministère de l'Agriculture, de l'Alimentation et des Affaires rurales

Bureau du ministre

77, rue Grenville, 11^e étage Toronto (Ontario) M7A 1B3 Tél.: 416 326-3074

Téléc.: 416 326-3083



February 27, 2017

Dear Mayor/Reeve/Warden:

Applications for the 2017 Premier's Award for Agri-Food Innovation Excellence program are now being accepted. I ask that you please share this information in your municipality.

The Premier's Award for Agri-Food Innovation Excellence program was created to recognize and foster the spirit of innovation that thrives in Ontario's \$36.4-billion agri-food sector. Each year, our agri-food sector demonstrates leadership in innovation by developing new and exciting products, production methods and ways of doing business that help drive growth and create jobs in our province.

Every year the program recognizes up to 50 award-winning innovations across the province, including the Premier's Award which is valued at \$75,000.

Primary producers, processors and agri-food organizations are invited to submit applications until 11:59 p.m. on April 28, 2017.

Details on eligibility, innovation categories, assessment criteria, the application and selection processes can be found in the enclosed 2017 Program Guidebook and Application Form or online (www.ontario.ca/agrifoodinnovation). For additional information, please contact the Agricultural Information Contact Centre at 1-877-424-1300 or ag.info.omafra@ontario.ca.

I have also enclosed a copy of a brochure that highlights the recipients of the 2016 program for the Premier's Award for Agri-Food Innovation Excellence.

I look forward to celebrating the great innovations developed in your municipality to grow our agrifood sector and Ontario's economy.

Sincerely.

Jeff Leal

Minister of Agriculture, Food and Rural Affairs

Enclosure



Good Things Grow in Ontario À bonne terre, bons produits

Minister of Seniors Affairs

6th Floor 400 University Avenue Toronto ON M7A 2R9 Tel.: (416) 314-9710 Fax: (416) 325-4787 Ministre des Affaires des personnes âgées

6° étage 400, avenue University Toronto ON M7A 2R9 Tél.: (416) 314-9710 Téléc.: (416) 325-4787



March 2017

Dear Mayor, Reeve and Members of Council:

I am pleased to invite you to participate in the <u>2017 Senior of the Year Award</u>. This annual award was established in 1994 to give each municipality in Ontario the opportunity to honour one outstanding local senior, who after the age of 65 has enriched the social, cultural or civic life of his or her community.

Pay tribute to a Senior of the Year award recipient and show how seniors are making a difference in your community!

Make a nomination for Senior of the Year!

Deadline is April 30, 2017.

A certificate, provided by the Ontario government, is signed by Her Honour the Honourable Elizabeth Dowdeswell, Lieutenant Governor, myself as Minister of Seniors Affairs, and the local Head of Council.

The Government of Ontario is proud to offer this partnership with the municipalities. Seniors have generously offered their time, knowledge, expertise and more to make this province a great place to live. It is important to recognize their valuable contributions.

If you have questions, please contact the Ontario Honours and Awards Secretariat:

Email: ontariohonoursandawards@ontario.ca

Phone: 416 314-7526 Toll-free: 1 877-832-8622 TTY: 416 327-2391

Thank you in advance for taking the time to consider putting forward the name of a special senior in your community.

Sincerely,

The Honourable Dipika Damerla Minister

Denise Holmes

From:

Sylvia Muir <Sylvia.Muir@wdgpublichealth.ca>

Sent:

Wednesday, March 01, 2017 2:14 PM

Cc:

'agoldie@centrewellington.ca'; 'derek.mccaughan@erin.ca'; 'bwhite@town.minto.on.ca';

'iroger@get.on.ca'; 'bmcroberts@mapleton.ca'; 'klandry@puslinch.ca';

'mgivens@wellington-north.com'; 'ebrennan@orangeville.ca'; 'jtefler@shelburne.ca';

'Clerksoffice@townofmono.com'; 'sstone@amaranth-eastgary.ca';

'jwilson@townofgrandvalley.ca'; 'thorner@mulmur.ca';

'dholmes@melancthontownship.ca'

Subject:

WDGPH Letter to CAO re Restricting Hookah Establishments in WDG

Attachments:

WDGPH Letter to WDG CAOs re Restricting Hookah Establishments - March 1, 2017.pdf

Good afternoon.

Please see attached letter that was sent to the CAOs for the County of Wellington, County of Dufferin and City of Guelph, with respect to the above-noted matter, for your consideration.

Have a wonderful afternoon.

Regards,

Sylvia Muir Executive Assistant Wellington-Dufferin-Guelph Public Health 160 Chancellors Way, Guelph, ON N1G 0E1 T: 519-822-2715 or 1-800-265-7293 Ext. 4330

F: 519-836-7215

sylvia.muir@wdgpublichealth.ca www.wdgpublichealth.ca

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March 1, 2017

DELIVERED VIA E-MAIL

Scott Wilson
Chief Administrative Officer
County of Wellington
74 Woolwich Street
Guelph, ON N1H 3T9

Sonya Pritchard
Chief Administrative Officer
County of Dufferin
55 Zina Street
Orangeville, ON L9W 1E5

Derrick Thomson
Chief Administrative Officer
Guelph City Hall/City of Guelph
1 Carden Street
Guelph, ON N1H 3A1

Dear Mr. Wilson, Ms. Pritchard + Mr. Thomson:

Re: Regulation & Restriction of Local Hookah Establishments

Wellington-Dufferin-Guelph Public Health (WDGPH) is reaching out to your municipality to regulate and restrict hookah establishments from setting up in your area. Now is the time to take action out of concern for the health and safety of your constituents. Twenty municipalities in Ontario have already done so including; Ottawa, Toronto and Peterborough.

A hookah or a waterpipe is used to smoke flavoured tobacco as well as non-tobacco herbal shisha. A recent review on the toxicity, physical properties and disease risks of hookah waterpipe smoke, found that smoking "herbal" shisha likely presents the same disease risks as tobacco shisha.

.../2



- All tobacco and herbal waterpipe smoke contains toxicants, including carbon monoxide, 'tar', polycyclic hydrocarbons, and volatile aldehydes;
- Toxicants measured in herbal smoke equal or exceed those found in tobacco waterpipe smoke;
- Waterpipe smokers inhale and absorb the same toxicants that are known to cause cancer, heart and lung disease, and dependence in cigarette smokers.

Currently, non-tobacco or herbal shisha hookah smoking is not regulated under the *Smoke-Free Ontario* Act (SFOA). The SFOA specifically prohibits "smoking or holding of lighted tobacco" in any enclosed public place or enclosed workplace. Many hookah proprietors claim that their shisha is "herbal" and is heated, not lit, so the SFOA does not apply to them.

I hope that you will consider taking this important step to protect the health of residents before hookah establishments become established in your municipality. WDGPH can provide research and examples of policies from other jurisdictions.

If you should have any questions or for further information, please contact Laura Campbell, Health Promotion Specialist, at 1-800-265-7293 ext. 4208.

Sincerely,

Dr. Nicola Mercer, MD, MBA, MPH, FRCPC

Medical Officer of Health and CEO

Andy Goldie, CAO, Township of Centre Wellington - via e-mail

Derek McCaughan, Interim CAO, Town Erin - via e-mail

Bill White, CAO, Town of Minto - via e-mail

Ian Roger, CAO, Guelph-Eramosa - via e-mail

Brad McRoberts, CAO, Mapleton - via e-mail

Karen Landry - CAO, Township of Puslinch - via e-mail

Michael Givens, CAO, Wellington North - via e-mail

Ed Brennan, CAO, Town of Orangeville - via e-mail

John Tefler, CAO, Town of Sheburne - via e-mail

Mark Early, CAO, Town of Mono - via e-mail

Susan Stone, CAO, Township of Amaranth/East Garafraxa - via e-mail

Jane Wilson, CAO, Township of East Luther/Grand Valley - via e-mail

Terry Horner, CAO, Township of Mulmur - via e-mail

Denise Holmes, CAO, Township of Melancthon - via e-mail



NVCA Board Meeting Highlights, February 24, 2017

Next Board Meeting: March 24, 2017 at Suite Works, 92 Caplan Ave., Barrie

For the full meeting agenda including documents and reports, visit nvca.on.ca/about/boardofdirectors

NVCA's Planning Services sees 25% increase in applications in 2016

The board received a report on NVCA's planning services activities in 2016.

Last year, planning services, which is composed of six staff members, reviewed and commented on 1,498 applications under the *Conservation Authority Act, Planning Act* and other regulations, up from 1,200 in 2015. Between 2013 and 2016, applications increased from 904 to 1,498 with staffing levels remaining unchanged.

The board also received the first report on cost/time tracking data for NVCA planning services, as was requested the recent planning fee review process.

Record-setting planting year coming for NVCA forestry program

The NVCA board approved the purchase of tree seedlings required to meet the needs of the 2017 tree planting program. More than 227,000 trees will be planted by the authority in 2017, making it the largest planting season on record for the authority. Funding for this program comes from partners like Forests Ontario and from participating landowners; municipal levy is not used to purchase tree seedlings.

NVCA continues to set a high standard for tree planting. At the meeting, the board commended Rick Grillmayer, Manager of Forestry, who was awarded MVP (Most Valuable Planter) at Forests Ontario's annual conference in February.



Doug Lougheed, NVCA Chair (left), congratulates Rick Grillmayer, Forests Ontario's Most Valuable Planter. They are joined by Byron Wesson, NVCA Director of Lands, Education and Stewardship Services; Gall Ardiel, NVCA Vice Chair; and Keith White, NVCA Second Vice Chair

The MVP award recognized Rick for his outstanding contributions to restoring the health of our natural ecosystems through tree planting. Under Rick's guidance, NVCA planted 218,000 trees in 2016, one of the largest number planted by any conservation authority.

Good marks for NVCA's Customer Service

The board received a presentation from CAO Gayle Wood on the 2016 Customer Satisfaction Report. This report summarizes comments received on NVCA programs, including planning, stewardship and environmental education. Overall, feedback was very positive across all programs, with knowledge, courtesy and other aspects of customer service being rated excellent or good by 100% of respondents. The report is available online at nvca.on.ca/about/CustomerService

In brief

During the meeting the board also:

- authorized the Friends of Minesing Wetlands to host a BioBlitz event in the Minesing Wetlands Conservation Area on June 3, 2017. The BioBlitz will see volunteers take an inventory of as many species as possible under the guidance of experienced leaders. Guided walks, canoe trips, workshops and other educations activities are among the activities being planned for the event.
- renewed the Friends of Utopia Gristmill and Park lease of Utopia Conservation Area for a five-year period.
- approved the contribution of \$5,000 as matching funds towards a Canada 150 Community Infrastructure grant of \$17,500 for improvements to the Fort Willow Conservation Area. Other matching funds are being contributed in-kind by NVCA partners and member municipalities.
- approved the monthly board education presentations and the senior staff municipal action plan for 2017.

Call for Nominations – 2017 Conservation Champion Awards

The nomination period for the 2017 NVCA Conservation Champion Awards is now open!

The Conservation Champion Awards are given out annually to recognize people, organizations, business and municipalities for their outstanding contributions to sustainability and stewardship in our watershed. There is a special category for young conservationists.

Nomination forms are available at nvca.on.ca/about/conservation-champions.

Nominations close March 27.

Future Meetings & Events

NVCA @ the Central Ontario Agriculture Conference

Friday, March 3 and Saturday, March 4, 4:00 pm - 5:00 pm Georgian College

March Break Monday Children's Program Monday, March 13, 10:00 am - 3:00 pm

Monday, March 13, 10:00 am - 3:00 pm Tiffin Conservation Area, Utopia

Nature Days for Homeschoolers - "Get back to the Sugar Shack!" Friday, March 17, 10:00 am - 3:00 pm

Friday, March 17, 10:00 am - 3:00 pm Tiffin Centre for Conservation, Utopia

NVCA Board of Directors Meeting

Friday, March 24, 9:00 am - 12:00 pm Suite Works, 92 Caplan Ave., Suite 309, Barrie

Spring Tonic Maple Syrup Festival

Saturday, April 8 and Sunday, April 9, 9:00 am - 3:00 pm Tiffin Centre for Conservation, Utopia

NVCA Evening of Thanks & Conservation Champion Recognition

Thursday, April 27, 4:30 pm - 6:00 pm Tiffin Centre for Conservation, Utopia

NVCA Annual Tree Sale (Utopia)

Saturday, May 13, 8:00 am - 12:00 pm Tiffin Centre for Conservation, Utopia

For more information on these events, please visit the NVCA website.

GRCA Current



March, 2017 · Volume 22 Number 3

GRCA General Membership

Chair

Helen Jowett

Vice-Chair

Chris White

Townships of Amaranth, East Garafraxa, Melancthon and Southgate and Town of Grand Valley

Guy Gardhouse

Townships of Mapleton and Wellington North

Pat Salter

Township of Centre Wellington Kirk McElwain

Town of Erin, Townships of

Guelph/Eramosa and Puslinch **Chris White**

City of Guelph

Bob Bell, Mike Salisbury

Region of Waterloo

Les Armstrong, Elizabeth Clarke, Sue Foxton, Helen Jowett, Geoff Lorentz, Jane Mitchell, Joe Nowak, Wayne Roth, Sandy Shantz, Warren Stauch

Municipality of North Perth and Township of Perth East

George Wicke

Halton Region

Cindy Lunau

City of Hamilton George Stojanovic

Oxford County

Bruce Banbury

County of Brant

Brian Coleman, Shirley Simons

City of Brantford

Riverprize 2000

Dave Neumann, Vic Prendergast

Haldimand and Norfolk Counties Bernie Corbett, Fred Morison

Program.

150 projects.





www.grandriver.ca

Park Hill Dam hydro plant **EA and design contract**

\$31 million 2017 budget

year on programs that protect water quality,

reduce flood damages, protect natural areas,

support responsible development and provide

outdoor recreation and environmental education.

The budget was approved by the GRCA board

up of 26 members appointed by the municipalities

Municipalities will contribute \$11 million in general municipal levy to the GRCA this year,

about 36 per cent of the total budget. The

per cent increase, or 11 cents per resident.

municipal levy works out to about \$10.60 per

resident. When compared to last year, this is a 2.5

Government grants totalling about \$4 million

includes \$800,000 from municipalities towards the

primarily provincial grants, which include funding

The GRCA also receives about \$300,000 from

The GRCA generates \$14.6 million, or about 47

per cent, of its own revenue through sources such

programs, hydro sales, property rentals, tree sales,

as camping fees, park admissions, nature centre

planning permits and donations raised by the

Grand River Conservation Foundation.

the federal government. Approximately \$220,000

of this funding this year is in support of Canada

represent about 13 per cent of the budget. This

Rural Water Quality program. The remainder is

of over \$800,000 for the Source Protection

at the AGM on February 24. The board is made

in the Grand River watershed.

The GRCA will spend about \$31 million this

The GRCA is hiring WSP Consultants for \$360,000 to carry out an Environmental Assessment and to design the proposed Park Hill Dam hydro generating station in Cambridge.

In September 2016, the GRCA board authorized staff to enter into an agreement with the Independent Electricity System Operator (IESO) under the Feed-in-Tariff Program for the sale of

electricity from the proposed new hydro generating station. The IESO agreement was finalized and a request for engineering proposals was issued late in 2016.

The EA and the design are the first stage of this project and this is anticipated to take 12 to 18 months to complete.

The full project will take about five years and the new plant is expected to be commissioned early in 2021.

Moderate risk of flooding this spring

The overall flood risk in the Grand River watershed this spring is moderate, with the highest potential for flooding from heavy rain on saturated or frozen ground and along the Lake Erie shoreline.

The forecast was presented at the GRCA's annual meeting of municipal flood co-ordinators on February 22. The meeting is one of a series held each year, as the GRCA works closely with municipal officials to operate, test and improve the flood warning system.

The GRCA monitors weather and river conditions and issues warnings to municipal flood co-ordinators. When a flood message is issued, municipalities implement their local flood response program by warning residents, closing roads, managing evacuations and taking other

This fall was very dry, but higher than normal precipitation returned in December. It has continued over the past three months. Along with higher precipitation, temperatures have fluctuated, resulting in cycles of melt and freeze accompanied by cycles of rain and snow.

The major reservoirs are at their normal levels for this time of year and Lake Erie is well above the long-term average level for this time of year. This is slightly above the levels they were at this time last year. Lake Erie is virtually free of ice, including the mouth of the Grand River.

Grand River Conservation Authority

Visit from Minister Kathryn McGarry

Kathryn McGarry, Cambridge MPP and Minister of Natural Resources and Forestry, spoke briefly at the GRCA's annual general meeting February 24.

McGarry is leading the review of the Conservation Authorities Act, which governs Ontario's 36 conservation authorities. Public consultation on the review of the act was completed last September and McGarry thanked the GRCA for comments that were submitted.

The proposed new legislation is being finalized and she expects to introduce it in the legislature in the near future. She said the revised act could be passed into law in the fall of 2017.

Drayton flood meeting

Residents of Drayton and Mapleton can learn more about flooding at a public open house being hosted by the GRCA and the Township of Mapleton March 23.

Flooding along the Conestogo River occurs in Drayton and some other areas within Mapleton Township. This open house will explain the flood warning system, how to reduce the risks to your property and what to do after a flood. It will include displays on flooding, new maps showing flood warning levels in Drayton and other information.

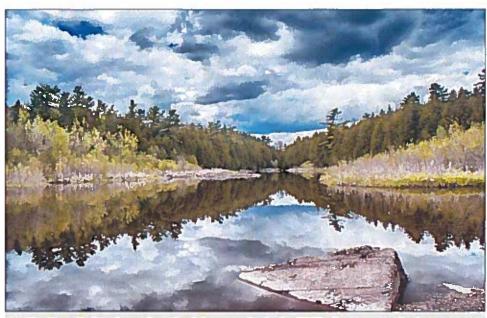
The open house takes place at the PMD arena, 68 Main Street West, Drayton from 4:30 p.m. to 7 p.m. and representatives of several organizations will be on hand to answer questions.

Roads closed at end of February

Highway 25 through Grand Valley and the low level bridge upstream of St. Jacobs at 1505 Three Bridge Road were both closed during the last weekend in February.

Flood messages about the closures were issued on February 23 and 24. Warm weather and heavy rains of 25 mm brought the last snowpack off the northern part of the watershed.

The weather outlook for March and April is warmer than normal.



Sheri Lovell of Rockwood received the top prize in the GRCA photo contest in the nature category for this photo of the Eramosa River as it flows through Rockwood Park. She lives in Rockwood and zipped over when she saw this dramatic sky as a storm approached.

Watershed heroes

Do you know a watershed hero?

Nominations for 2017 Watershed Award recipients can come from anyone in the watershed and must be made by May 1.

These awards go to individuals, families, groups and businesses that put their time and energy into improving the Grand River watershed. The GRCA has presented these awards each year since 1976.

More information on the program, including short biographies of past winners and a nomination form, can be found on www.grandriver.ca/awards.

Winners will be honored at a special event in the fall.

Tree planting services

The GRCA is hiring two contractors to plant more than 100,000 trees this year.

Some tree planting is contracted out by the GRCA in blocks based on the planting method and tree size. This allows many people to work at the same time to plant trees quickly, because bare root planting season is not long and starts as soon as the frost leaves the ground.

The Black River Tree Planting contract is valued at nearly \$40,000 and the Quiet Nature Ltd. contract is valued at \$65,000.

Planting on private land is paid for by property owners, but their costs are often offset by funding that comes from a variety of programs, including the Rural Water Quality Program, Forests Ontario and the Habitat Stewardship Program. Plantings on GRCA property are funded through external programs and donations.

About 30 million trees have been planted by the GRCA and its partners since the beginning of the planting program.

This issue of GRCA Current was published in March, 2017.

It is a summary of the February, 2017 business conducted by the Grand River Conservation Authority board and committees, as well as other noteworthy happenings and topics of interest.

The Grand River Conservation Authority welcomes distribution, photocopying and forwarding of GRCA Current.

Next board meeting: March 24 at 9:30 a.m., GRCA Administration Centre

Subscribe to GRCA Current and other news:

www.grandriver.ca/subscribe

View meeting agendas: https://calendar.grandriver.ca/directors

View coming events: www.grandriver.ca/events

Follow the GRCA:







Category	%	Balance	Deposits	Transfer	Transfer	Balance
		Dec.31/15	-	by Budget	by Resolution	Dec.31/16
Administration	11.76%	\$23,597.50	\$5,949.36			\$29,546.86
Fire Services	4.47%	\$49,911.37	\$2,261.24			\$52,172.61
Transportation	58.20%	\$235,994.92	\$29,448.94			\$265,443.86
Recreation	22.69%	\$107,773.15	\$11,482.45			\$119,255.60
Library	2.72%	\$6,055.76	\$1,375.27			\$7,431.03
Police	0.16%	\$26,584.08	\$81.85		\$11,871.46	\$14,794.47
HST Rebate					\$1,311.27	\$1,311.27
Total		\$449,916.78				\$487,333.16
Book Balance Dec. 31/15		\$449,916.78				
+ deposits		\$50,599.11				
- transfers		\$13,182.73				
Book Balance Dec. 31/16		\$487,333.16				
Bank Balance Dec. 31/16		\$487,333.16				
Difference		\$0.00				

SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT 2016

Township of Melancthon Landfill Site Lot 12, Concession 4 Melancthon Township, Ontario

Project No. BG-565

Prepared for:

The Corporation of the Township of Melancthon R.R. #6
Shelburne, ON.
LON 1S9
ATTN: DENISE HOLMES, AMCT, CLERK-TREASURER

FEBRUARY 2017



BLUEWATER GEOSCIENCE CONSULTANTS INC.

42 Shadyridge Place Kitchener, Ontario N2N 3J1

Tel: (519) 744-4123 Fax: (519) 744-1863

E-mail: blemieux@rogers.com

February 24, 2017

The Corporation of the Township of Melancthon R.R. #6, Shelburne, Ontario LON 1S9 Attn: Ms. Denise Holmes, AMCT, Clerk-Treasurer

Dear Ms. Holmes:

2016 Semi-Annual Groundwater Monitoring and Sampling Report, Re: **Township of Melancthon Landfill Site, Lot 12, Concession 4 Melancthon Township, Ontario**

Bluewater Geoscience Consultants Inc. (Bluewater) was retained by The Corporation of the Township of Melancthon to complete the 2016 Semi-Annual Groundwater Monitoring and Sampling Report for the Melancthon Township landfill property located on Lot 12, Concession 4 in Melancthon Township, Ontario. The Township operates a municipal landfill site at the property and requires the Groundwater Monitoring and Sampling Program for their MOE Certificate of Authorization (C of A) for the operation.

The scope of work, observations, analytical test results, and our conclusions and recommendations for the 2016 Semi-Annual Groundwater Monitoring and Sampling Report are presented in the following report.

We trust that this report is complete within our terms of reference and suitable for your present requirements. If you have any questions or require further information, please do not hesitate to contact our office.

Sincerely,

BLUEWATER GEOSCIENCE CONSULTANTS INC.

Breton J. Lemieux, M.Sc., P.Geo. QP_{ESA}

President, Senior Geoscientist

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Appendix B Groundwater and Methane Monitoring and Laboratory Results Tables

Appendix C Laboratory Certificate of Analysis

1.0 INTRODUCTION

The Corporation of The Township of Melancthon (Township) retained Bluewater Geoscience Consultants Inc. (Bluewater) to complete the 2016 landfill (LF) groundwater monitoring and sampling program and to generate the annual report detailing the findings. The landfill site monitoring was undertaken to continue to assess any environmental impacts to surface and groundwater created by the LF operations. This landfill monitoring report was completed in accordance with the requirements of the Ministry of the Environment's Certificate of Approval for the LF site.

The site monitoring included completing two site inspections, measuring groundwater levels in all 35 observation wells during the Spring and Fall of the year and determination of the resulting groundwater flow patterns in and around the LF. Groundwater sampling was conducted on 31 selected sampling wells during both the Spring and Fall of each year. The groundwater samples for 2016 were submitted to a CAEL-accredited analytical laboratory for analysis. The results of the completed laboratory analyses were compared to MOE's Ontario Drinking Water Standards (ODWS) (for on-site monitors) and the Reasonable Use Policy (RUP) for off-site monitors.

2.0 PREVIOUS INVESTIGATIONS

2.1 R.J. Burnside & Associates Limited – Annual Groundwater Monitoring Reports 1993-2000

Annual groundwater monitoring reports for the LF were completed by R.J. Burnside & Associates Limited (Burnside) from 1993 – 2000. These reports included the sampling and analysis of groundwater samples from seventeen existing monitoring wells located in and around the LF site. Eleven of the monitors are located in the overburden aquifer while six are installed within the underlying bedrock aquifer. A summary of these reports indicates that no exceedance of the MOE RUP had been determined during the groundwater sampling events. In general, on-site monitoring locations indicated that exceedance of the MOE's ODWS for on-site monitors were rare and not sustained.

2.2 Rubicon Environmental Inc. – Groundwater Monitoring and Hydrogeological Investigations – Spring 2001

During 2001 Rubicon added another fourteen groundwater monitors to the existing network of monitors in and around the LF site. Eight of these monitors were installed in the overburden aquifer while six were installed in the bedrock aquifer.

During the 2001 investigations, the existing monitoring wells installed by Burnside were sampled and analysed. The additional monitoring wells were tied into the site survey, but not sampled.

2.3 Rubicon Environmental Inc. – Groundwater Monitoring and Hydrogeological Investigations – Spring 2002

This report included results of the Spring and Fall 2002 site monitoring and groundwater sampling and analysis program. The monitoring and sampling included the new monitors added during 2001.

2.4 Rubicon Environmental Inc. – Landfill Monitoring – March 24, 2004

This report provides details of the 2003 LF groundwater monitoring and sampling program completed at the site. The report details that some minor exceedances of the ODWS were determined for on-site monitoring wells.

2.5 Bluewater Geoscience Consultants Inc. – Annual Groundwater Monitoring and Sampling Reports 2004 - 2015

These reports detail the 2004 - 2015 LF groundwater monitoring and sampling program completed at the site. The report details that some minor exceedances of the ODWS were determined for on-site and off-site monitoring wells.

3.0 SITE BACKGROUND

The LF site has been in operation since ~1973 at its current location at Lot 12, Concession 4, Township of Melancthon, County of Dufferin. The LF serves the population of ~2,400 people in the Township. The nearest residence is located ~450 m south of the LF site. The location of the LF is remote and distant from any significant population centres.

The LF presently operates under Provisional Certificate of Approval (C of A) A180703. The total LF property comprises an area of ~33.038 ha., of which 6.1 ha. has been approved for landfilling. In 2013, waste placement was proceeding aboveground in the northwestern portion of the approved filling area. This fill area has been in use since late 2003 and is immediately adjacent to the west of the former fill area (Figure 1, Appendix A). During 2013 the County of Dufferin assumed waste collection and disposal services in the Township of Melancthon. Further waste disposal at this landfill is not anticipated should County of Dufferin services be found adequate.

3.1 Site Inspection

During both Spring and Fall monitoring events, a site inspection was completed. The main refuse disposal area has been covered with soil and grades have been established to reduce the amount of rainwater infiltration into the waste pod. Temporary fencing has been placed around portions of the fill area to control windblown waste. There was no waste placement at this landfill during 2016.

During the Spring 2006 inspection it was noted that OW-4S had been destroyed, likely by equipment working in the area. OW-4S is located within the current filling are. During the Fall inspection it was

noted that OW-4D had been destroyed during the summer months. OW-4D was also located within the current filling area.

4.0 GROUNDWATER MONITORING WELLS AND METHODOLOGY

4.1 Existing Monitoring Wells in 2016

Thirty-five groundwater-monitoring wells were in existence at the commencement of the 2016 monitoring period. All wells were inspected and found to be in good order, with the exceptions noted just above. During the Spring 2015 site inspection it was found that OW-17, located along the east side of the 4th Concession had been damaged during the winter and could not be located. This well was not sampled during 2016. OW-17 does not constitute a delineation well and is therefore not considered critical at this time. Should conditions dictate in the future, OW-17 may need to be replaced.

Seventeen monitoring wells had been installed by Burnside pre-2001. Six of these were installed in the deeper bedrock aquifer (denoted "D" for deep) while eleven were installed in the shallow overburden aquifer (denoted "S" for shallow). All existing monitoring wells were constructed of 50 mm diameter Schedule 40 PVC pipe and are fitted with steel protective casings and locks. The locations of all monitoring wells are presented on the Base Site Plan (Figure 1B, Appendix A). A brief description of each monitor locations is provided below:

- OW 1 is installed in the overburden aquifer and is located between two former refuse disposal areas
- OW 2S and OW 2D are located downgradient (east) of the current refuse disposal area
- OW 3S and OW 3D are located immediately downgradient (east) of the current refuse disposal area
- OW 4S and OW 4D are no longer present
- OW 5S is installed in the overburden aquifer and is located north of the disposal area, near the northern property boundary. This monitor is frequently dry in Fall
- OW 6S and OW 6D are located near the south property boundary and had been intended to represent background water quality
- OW 7S and OW 7D are located near the northeast property corner, northeast of the former refuse disposal area
- OW 8 is installed in the overburden aquifer and is located in the main refuse area. OW 8 is considered a 'leachate' well
- OW 9S and OW 9D are located off-site, northeast of the landfill and in the east ditch of the 4th Line
- OW 10S and OW 10D are located east of the main refuse disposal area
- OW 11S and OW 11D are located northwest of the main refuse disposal area. These monitors were intended to provide further clarification of groundwater flow patterns and are not included in the sampling program
- OW 12S and OW 12D are located west of the main refuse disposal area. These monitors were intended to provide further clarification of groundwater flow patterns and have been

- included since the 2006 sampling program;
- OW 13S and OW 13D are located immediately south of the main refuse disposal area. These wells were located to provide better delineation of the groundwater mounding in the refuse area and provide chemical data south of the refuse area;
- OW 14S is located southeast of the main refuse disposal area and was intended to help clarify groundwater flow patterns distant from the refuse disposal area;
- OW 15S and OW 15D are located southeast of the main refuse disposal area and were intended to help clarify groundwater flow patterns distant from the main refuse disposal area. These monitors were sampled for the first time during 2006;
- OW 16S and OW 16D are located along the north property boundary. These monitors were intended to provide clarification of groundwater flow patterns and provide chemical analysis of groundwater at the north property boundary. These monitors were sampled for the first time during the 2006 program;
- OW 17S is located off-site in the overburden aquifer. The monitor is located in the east ditch of the 4th Line. This monitor was intended to provide better information on shallow groundwater flow patterns and potentially provide chemical data regarding the contribution of road salt to noted groundwater impacts. This monitor was destroyed in 2015 and has not been replaced;
- OW 18S and OW 18D are located off-site east of the 4th Line. These monitors were intended to help refine groundwater flow patterns in the overburden and bedrock aquifers and provide chemical data in that area.

4.2 Wells Installed in 2006

During 2006 an additional six monitoring wells were installed at the landfill. The six new wells consisted of three sets of two wells (OW-19S and 19I, OW20S and 20D and OW-21S and 21D). The locations of the new wells are shown on Figure 1B, Appendix A. A description of the location and rationale for each of the new wells is presented below:

- OW-19S and OW-19I are located in the southeast corner of the landfill property, just west of the 4th Line. These wells were installed to provide additional points for determining groundwater flow patterns and to provide chemical data at this downgradient property boundary. OW-19S is set in the shallow till overburden while OW-19I (intermediate) is set in a lower till unit. These two wells were included in the 2007 sampling and lab analysis program for the first time;
- OW-20S and OW-20D are located just southeast of the 'old closed landfill' in the northeast portion of the landfill property. These wells will provide further groundwater flow data as well as providing additional chemical data. OW-20S is set in the shallow overburden, just above the bedrock. OW-20D is sealed into the bedrock. These two wells were included in the 2007 sampling and lab analysis program for the first time;
- OW-21S and OW-21D are located along the north landfill property boundary, well west of the active landfilling area. These wells will be utilized to provide additional groundwater flow information as well as providing chemical data at locations well upgradient of the fill

area. OW-21S is set in the shallow overburden, just above the bedrock. OW-21D is sealed into the dolostone bedrock. These two wells were included in the 2007 sampling and lab analysis program for the first time;

All groundwater-monitoring wells have been surveyed relative to a geodetic datum and ground surface and top of monitoring well pipe elevations have been recorded. During 2006, waste placement was taking place in the immediate area of OW-4S and OW-4D. These wells were destroyed by the heavy equipment. OW-17 was destroyed during the winter of 2014-2015 and is no longer part of the monitoring network.

4.3 Water Level Monitoring

On May 3 and October 19, 2016 groundwater levels were measured in all 36 existing monitoring wells installed at the LF. The depth to water relative to the top of monitoring well pipe was measured using a Solinst water level gauge. The determined water depths were recorded and the resulting groundwater elevations were determined. Table 1, Appendix B provides the tabular representation of the groundwater elevation data, including historic groundwater levels.

After completion of the water level measurements, the monitors selected for sampling were thoroughly purged of a minimum of 3 casing volumes of water in anticipation of the groundwater sampling.

4.4 Groundwater Sampling

The 2016 groundwater sampling and analysis program consisted of sampling up to 31 selected groundwater monitoring locations at and around the LF property. Samples were obtained from both overburden and bedrock aquifer wells. Prior to obtaining the groundwater samples, the selected monitors had been purged of a minimum of three casing volumes of water in order to facilitate provision of representative samples.

Groundwater samples from the selected monitoring wells were obtained using dedicated Waterra tubes and foot valves and were placed directly into the laboratory-supplied sample bottles. The groundwater samples were obtained and submitted for analysis of the volatile organic compounds (VOC's), general water chemistry and heavy metals parameters. The heavy metal samples were field filtered and preserved. The groundwater samples were chilled in coolers prior to being submitted under Chain of Custody to ALS Laboratories of Waterloo, ON for analysis. ALS is a CAEL (Canadian Association of Environmental Laboratories) accredited laboratory.

4.5 Surface Water Sampling

No surface water sampling was completed during 2016 as the designated surface water sampling location SW-3 (Figure 1) was found to be dry during both the Spring and Fall monitoring events. This location is a small dugout (possible former gravel extraction pit) located on the property adjacent to the north. It is our understanding that the Township has now purchased this property.

4.6 Groundwater Flow

The determination of groundwater flow patterns in both overburden and bedrock aquifers are essential in determining the potential for off-site impacts and contaminant distribution. In general, groundwater levels in both overburden and bedrock aquifers were lower (~1m) in the Fall than the Spring monitoring. The measured groundwater elevations for each aquifer were determined and plotted on the site plan. The resulting groundwater flow patterns were determined based on this distribution. Figures 2 and 3 present the groundwater flow patterns for the Spring monitoring while Figures 4 and 5 provide the Fall 2016 aquifer flow patterns.

As may be noted from these Figures, mounding of groundwater in both aquifers within the refuse disposal area is occurring. This phenomenon is typical of landfill sites and should be expected to continue. The mounding creates radial flow, outwards, apparently in all directions away from the refuse disposal area. The flow then comes under the influence of background flow patterns. Based on the findings of this, and previous, monitoring events, the overburden groundwater flow is towards the northeast while the bedrock groundwater flow is more-directly eastwards.

Groundwater flow is driven by the gradient of the groundwater. This produces head differences between locations creating the conditions for groundwater movement. The horizontal hydraulic gradient in the overburden aquifer has been determined to be on the order of 0.007 m/m. Based on this gradient, and the characteristics of the overburden, the lateral groundwater flow velocity may be approximately 74 m/yr. The horizontal hydraulic gradient in the bedrock aquifer is lower; approximately 0.002 m/m. Based on this gradient and the characteristics of the aquifer, velocities of approximately 0.03 m/yr are estimated.

Vertical hydraulic gradients between the overburden and bedrock aquifers create the conditions for downward migration of groundwater impacted in the refuse disposal area. Downward vertical gradients allow downward movement of water into the bedrock aquifer. Downward vertical gradients are found in the refuse disposal area allowing shallow impacted groundwater to potentially enter the bedrock aquifer. This is significant because the bedrock aquifer is utilized as a potable water source within the Township and the bedrock aquifer is less able to attenuate groundwater contaminants.

5.0 GROUNDWATER QUALITY

5.1 Groundwater

Groundwater sampling and analysis for the LF site has been undertaken since 1993. Additional wells were added to the sampling regime in 1999 and selected monitoring wells installed in 2001 were added to the sampling list during 2002. Groundwater quality data for the 2016 program are provided in the Tables in Appendix B along with chemistry data from 2008 - 2016. Copies of the detailed Certificates of Analysis for the 2016 monitoring data are provided in Appendix C.

Inorganic parameters such as chloride, sulphate, hardness and alkalinity are frequently utilized to determine the extent of landfill leachate impacts in groundwater. Hardness and alkalinity are naturally elevated at the landfill property and throughout Melancthon Township. Chloride levels in both overburden and bedrock aquifers are elevated in the refuse disposal area. In general, concentrations in the bedrock aquifer are slightly higher than in the associated overburden wells. This is a reflection of the downward gradient from the overburden to the bedrock coupled with the lower attenuation capabilities in the bedrock. None of the on-site or off-site monitors exceeded the MOE ODWS concentration for chloride during the 2016 monitoring events. None of the wells sampled during 2016 exceeded the MOE RUP for chloride (125.5 mg/L) concentration. Elevated chloride concentrations in this vicinity of the 4th Line, east of the LF, may be partially attributable to the application of road salt during winter. OW –18 S and D (as well as OW-9S and D) are located within the roadside ditch of the 4th Line and are likely to collect runoff from the road. Chloride concentration was also elevated (but below RUP) at OW-3D, located just downgradient of the current fill area.

In general, the background groundwater quality at the LF site consists of hard water with elevated hardness, alkalinity, manganese and iron content. During the 2016 monitoring, all wells sampled had determined hardness in excess of the ODWS. Alkalinity concentrations in excess of the ODWS were noted at OW's 2S, 2D, 3D, 7S, 7D, 9D, 12S and 18S. Iron concentrations in excess of the ODWS were determined at all sampled wells including upgradient locations. Manganese concentrations in excess of the ODWS were determined for OW's 2S, 2D, 3S, 3D, 6S, 6D, 7S, 7D, 9S, 9D, 10S, 10D, 13S, 13D, 15D, 16S, 16D, 17S, 18S, 18D, 19S, 20S and 20D. As this list includes all sampled location except OW-1, OW-5 and OW-8 these elevated concentrations are likely reflective of background groundwater quality in the area. The lack of significantly elevated manganese concentrations at OW-8, which is considered a leachate well and displays elevated sulphate concentrations, further suggests that elevated manganese concentrations are not landfill related.

The sulphate concentrations at OW 8 of 635 mg/L in Spring 2016 and 740 mg/L in Fall 2016 were in excess of the ODWS of 500 mg/L and RUP of 253.9 mg/L. These elevated concentrations are likely related to leachate groundwater impacts in the main refuse disposal area. During the Fall monitoring, elevated sulphate concentrations approaching the RUP value were not recorded (except at OW-8). No other on-site or off-site monitor exceeded the RUP for sulphate.

Parameter concentration trends through time for sulphate, chloride and manganese for selected offsite, property boundary and downgradient wells reviewed. Manganese concentrations trends do not suggest rising levels as would be expected if landfill related. Chloride trends do not suggest rising concentrations for these wells. In fact, several locations have shown slightly declining levels over the last few years. This is likely reflective of an effort on Township personnel's behalf to reduce salting in the area of the landfill entrance after several elevated chloride concentrations were detected in past years. As suggested at that time, those past elevated chloride concentrations appear to have been affected by these road salting activities.

The sulphate concentration trends for the selected wells show generally rising concentrations at OW-2S and OW-2D. Sulphate concentrations at the other selected wells do not indicate any discernible rising trends. Sulphate concentrations are generally higher in Fall than Spring. A site plan showing concentration distribution during Spring 2016 for shallow groundwater wells is provided in Figure 6

and for deep groundwater wells is provided in Figure 8, Appendix A. A site plan showing concentration distribution for Sulphate during Fall 2016 for shallow wells is provided on Figure 10 and for deep groundwater wells is provided on Figure 12, Appendix A.

A site plan showing chloride distribution during Spring 2016 is provided in Figure 7 for shallow groundwater wells and in Figure 9 for deep groundwater wells. A site plan showing chloride distribution during Fall 2016 is provided in Figure 11 and for shallow groundwater wells and in Figure 13 for deep groundwater wells.

Trace concentrations of VOC parameters, well below ODWS's and close to method detection limits, were determined for the 2016 monitoring at OW's 2D, 3D, 7D and 18D. While these VOC concentrations are likely landfill related, they are not considered to be of significance at this landfill.

There was a general trend towards higher parameter concentrations during the Fall monitoring compared to Spring concentrations. This is a continuing trend, consistent with past findings and normal groundwater conditions.

Bluewater has evaluated the long-term trends in groundwater quality at the LF site. Most parameter concentrations have remained fairly steady over the past several years suggesting that dilution and attenuation are dealing adequately with the refuse area derived leachate impacts.

5.2 Surface Water

No surface water sampling was completed during the Spring or Fall 2016 monitoring events from the dugout located just north of the landfill as the dugout was noted to be dry on both occasions.

5.3 Methane Monitoring

Methane gas is a by-product of waste decomposition and will be generated in the waste unit until all the organic matter is completely decayed. Methane, while it is a potential explosion hazard, is not a major concern provided that no building is ever permitted within approximately 30 meters of the refuse disposal area. The shallow water table and relatively permeable cover material at the Melancthon landfill are expected to prevent significant migration of methane. Gas produced by the landfill is expected to vent naturally to the atmosphere. It should be noted however, that ice, snow cover, and frozen ground in the winter may prevent methane gas from venting and cause methane gas to migrate laterally from the refuse disposal area.

If methane is present in concentrations between 5% and 15% in air it can become explosive. Below this range, there is an inadequate amount of methane for explosion. Above this range, there is an inadequate amount of oxygen for explosion. Therefore, 5% is considered the Lower Explosive Limit (LEL) and 15% is considered the Upper Explosive Limit (UEL) for methane.

Headspace methane monitoring was completed on all wells during both Spring and Fall 2016 monitoring events. The results of the methane monitoring are presented in Table 2 Appendix B. A slight detectable methane concentration was determined for OW-8 however no other of the monitors

had detectable methane concentrations during the Spring or Fall 2016 monitoring events. On-going methane monitoring should be incorporated in future monitoring events.

6.0 LANDFILL VOLUMES AND CAPACITY

The Melancthon landfill has a current design capacity of 297,000 m³ on the approved 6.1 ha area. At the completion of 2012, 89,326 m³ of the total volume had been filled. The volume survey completed during October 2013 determined that the landfill volume used during 2013 was $10,636 \,\mathrm{m}^3$ meaning the total volume used to the end of 2015 is 99,962 m³. The 2013 volume included the importation of ~ 2,000 m³ of clean fill to cover the current fill area based on the end of waste receiving at the site. No waste was added during 2016. Based on this figure, the remaining fill volume for this design is $197,038 \,\mathrm{m}^3$.

7.0 SUMMARY AND CONCLUSIONS

The following section summarizes the findings of the 2015 Annual Groundwater Monitoring Report:

- The Township of Melancthon operates a 'natural attenuation' landfill site in a remote, sparsely populated area of the Township. Surrounding land use is predominantly agricultural and the nearest residence is located ~450 m south of the site;
- During 2013 The County of Dufferin assumed waste collections and disposal responsibilities for Melancthon Township. No waste was imported to the landfill during 2016. At this time, further waste placement at this landfill is not anticipated given adequate service is maintained by the County;
- Two main hydrogeological units exist in the subsurface of the site. The upper unit, referred to as overburden, consists of sand and gravel and silty sand soils. The groundwater level in the overburden is unconfined and shallow (<2m) and shows seasonal fluctuations with Spring levels generally higher than those in Fall. This fluctuation is likely the result of the addition of snow melt water during the Spring. The second, deeper hydrogeological unit is the underlying dolostone bedrock aquifer. The water level in the bedrock is generally lower than in the overburden. This creates a downward vertical hydraulic gradient that allows landfill-generated impacts to potentially enter the bedrock aquifer;
- Mounding of groundwater occurs within both hydrogeological units within the refuse disposal area. This mounding creates a radial flow pattern in the refuse area that drives flow in all directions away from the mound. The groundwater then comes under the influence of the background (natural) flow regime. Groundwater flow in the overburden aquifer is northeast towards the entrance to the landfill in the northeast corner of the property. Flow in the bedrock aquifer is more-directly to the east and the eastern property boundary;

- Comparison of the laboratory analytical data from the Spring and Fall 2016 monitoring events to the applicable ODWS and RUP objectives indicates that background water quality exceeds ODWS Standards for hardness, alkalinity, iron and manganese;
- Exceedance of the MOE RUP objectives for parameters such as hardness, alkalinity, manganese and iron were determined at most sampled locations during 2016. These concentrations are likely at least partially unrelated to landfill impacts and reflect general water quality in Melancthon Township. No chloride RUP exceedance was noted for any offsite or on-site wells. Exceedance of the RUP for other leachate-indicators such as sulphate was not noted during 2016 near property boundaries. Exceedance of the RUP and ODWS for sulphate occurred at OW-8, located immediately downgradient of the principal fill area. Elevated sulphate concentrations in excess of the RUP were determined at OW-18S, OW-18D and OW-20D during the Spring 2013 monitoring. These apparently anomalous sulphate concentrations were not repeated during 2014, 2015 or 2016. Further on-going monitoring will be used to track future sulphate concentrations at these monitor locations;
- Significant methane concentrations were not determined during 2016;
- The site is currently in compliance with the terms and conditions of its C of A.

8.0 **RECOMMENDATIONS**

The following recommendations are made regarding the future Groundwater Monitoring and Sampling Program at the Township of Melancthon landfill site:

- Continuation of the semi-annual groundwater monitoring and sampling program including a routine site inspection, recording of static water levels at all 36 monitoring locations and groundwater sampling and laboratory analysis of the selected monitoring wells in both Spring and Fall;
- Preparation and submission of an Annual Monitoring Report to MOE for review.
- Natural dilution of contaminants derived in the refuse disposal area coupled with natural attenuation in the overburden appears to be dealing with derived groundwater impacts adequately at this time. The widespread occurrence, including upgradient locations, of ODWS and RUP exceeding manganese, iron, hardness and alkalinity concentrations appears to be more a function of natural geologic conditions than landfill-derived impacts. Lab results for monitors downgradient of the principal fill areas show more elevated chloride and sulphate concentrations, which are not similar to findings in the northeast corner of the property.
- Monitoring for headspace methane concentration in all wells should be continued for the 2017 program.

9.0 REFERENCES

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10.0 LIMITATIONS

This report was prepared for the exclusive use of The Township of Melancthon. This report is based on information and data collected during the completion of an environmental investigation of the Site carried out by Bluewater Geoscience Consultants Inc., and is based solely on the site conditions encountered at the time of the assessment and the applicable guidelines in place at the time of this investigation.

It should be noted that the observations and recommendations presented in this report are limited to the actual locations explored and laboratory parameters analyzed. The information presented in terms of the thickness and types of the sub-soils encountered, groundwater levels and chemical testing results, etc., are only applicable to the actual locations explored. Variations may be present between these locations. Should significant variation become apparent during later investigations, it may be necessary to re-evaluate the recommendations of this report. The results of an investigation of this nature should, in no way, be construed as a warranty that the site is free from any and all contamination from past or current practices since conditions may be different from the locations tested. This assessment was carried out using existing historical information as available from various agencies and no assurance is made regarding the accuracy or completeness of this information.

If new information is discovered during future work, including excavation, borings or other studies, Bluewater Geoscience Consultants Inc. should be requested to re-evaluate the conclusions presented in this report and to provide amendments as required. The analytical test results are assumed to be correct and performed according to all current regulations. No audit of the laboratory's methods or procedures was performed.

This assessment does not include, nor is it intended to include, any option regarding the suitability of any structure on the site for any particular function, the integrity of the on-site buildings or the geotechnical conditions on the site. Inspections of buildings do not include compliance with building, gas, electrical or boiler codes, or any other federal, provincial or municipal codes not associated with environmental concerns. Should concerns regarding any issue other than environmental matters arise as a result of our investigations, appropriately qualified professionals should address them.

This report is not to be reproduced or released to any other party, in whole or in part, without the express written consent of Bluewater Geoscience Consultants Inc.

11.0 CLOSURE

Bluewater Geoscience Consultants Inc. operates under a Certificate of Authorization from The Association of Professional Geoscientists of Ontario (APGO). Breton Lemieux is a registered Qualified Person (QP) with MOE and is a licensed Professional Geoscientist with over twenty years of international environmental consulting experience. Mr. Lemieux has a Geologic Technologist Diploma from Fleming College in Lindsay, Ontario, an Honours Bachelor of Science degree in Geology from the University of the West Indies in Kingston, Jamaica and a Master of Science degree in Earth Sciences from the University of Waterloo. His experience includes conducting Phase I, II and III ESAs at a wide variety of contaminated sites, underground storage tank removal supervision, water supply development, environmental building science and other site and landfill environmental monitoring projects.

Denise Holmes

From:

Kopernicky, Monica (MNRF) < Monica. Kopernicky@ontario.ca>

Sent:

Tuesday, February 14, 2017 4:39 PM

To:

sburns@dufferincounty.ca; ljuffermans@nvca.on.ca; Mott, Ken (MNRF);

dholmes@melancthontownship.ca

Cc:

Henderson, Brandon (MNRF); Olah, Jennifer (MNRF)

Subject:

NEC Request for Comments D/R/2016-2017/361(1392119 Ontario LTD)

Attachments:

17-361 1392110 Ontario LTD Request for Comments Agencies.pdf; 17-361 1392110

Ontario LTD EIS Report.pdf

Dear Agencies,

Attached is the NEC request for comments for application D/R/2016-2017/361(1392119 Ontario LTD). Kindly provide your comments to John Stuart at brandon, henderson@ontario.ca with a copy to Jennifer at jennifer.olah@ontario.ca on or before March 17, 2017.

Please contact Brandon Henderson at 905-877-4026 should you have any questions.

Thank you,

Monica Kopernicky Administrative Assistant Niagara Escarpment Commission 232 Guelph Street, 3rd Floor Georgetown, ON L7G 4B1

Tel. 905-877-1728 Fax.905-873-7452

Email Monica.Kopernicky@Ontario.ca

Website <u>www.escarpment.org</u>

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Niagara Escarpment Commission

Commission de l'escarpement du Niagara

232 Guelph St. Georgetown, ON L7G 4B1 Tel: 905-877-5191 Fax: 905-873-7452 www.escarpment.org 232, rue Guelph Georgetown ON L7G 4B1 No de tel. 905-877-5191 Télécopleur 905-873-7452 www.escarpment.org



February 14, 2017 County of Dufferin Nottawasaga Valley Conservation Authority Ministry of Natural Resources-Midhurst district Township of Melancthon

REQUEST FOR COMMENTS

FILE NUMBER:

D/R/2016-2017/361

APPLICANT:

1392119 Ontario LTD

AGENT:

David Metz

OWNER:

Same as applicant

LOCATION:

Part Lot 14, Concession 2 OS

Part Lot 14 Con 2 OS, Church Street, Melancthon

Township of Melancthon, County of Dufferin

RELATED FILES:

7994/D/R/2003-2004/142; 7001/D/R/2000-2001/38;

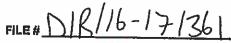
4706/D/R/1991-1992/198

DESCRIPTION OF PROPOSED DEVELOPMENT: To sever an existing 1.19 ha (2.95) existing lot into a 0.41 (1.02 ac) proposed lot and a 0.78 ha (1.93 ac) retained lot and to construct a 2 storey, \pm 418 sq m (\pm 4500 sq ft) single dwelling with a maximum height to peak of \pm 9.14 m (\pm 30 ft), and construct a septic treatment system, driveway, two porches, deck, and well, on the 0.41 (1.02 ac) proposed lot.

The attached Development Permit application, which is summarized above, is being sent to you for your review. Your comments and recommendations are requested for the Niagara Escarpment Commission's consideration.

We request your comments by: <u>March 17, 2017.</u> If we do not receive your comments, we will assume you have no objection to the proposal. If you require additional time to provide comments, please call immediately.

If you require further information, please contact Brandon Henderson, at 905-877-4026 or e-mail: brandon.henderson@ontario.ca.





(For NEC office use only)

NIAGARA ESCARPMENT DEVELOPMENT PERMIT APPLICATION (Revised April 17, 2014)

THE NIAGARA ESCARPMENT PLANNING AND DEVELOPMENT ACT, RSO, 1990, AS AMENDED

		- 11		
	NIAGARA ESCARPMENT COMMISSION 232 Guelph Street, 3 rd Floor Georgetown, ON L7G 4B1 Phone: 905-877-5191 Fax: 905-873-7452 Website: www.escarpment.org Email: necgeorgetown@onterlo.ca Serving the areas of: Dufferin County Region of Halton Region of Peel Region of Niagara City of Hamilton		GARA ESCARPMEN Box 308, 99 King : Thornbury, ON Thornbury, ON Fax: 519-59 Website: www.esca Email necthombury Serving the ere Grey Coun Simcoe Cou	Street East NOH 2P0 9-3340 9-6326 roment.org @ontario.ca pas of:
:	Please ensure that the information you provide incomplete or inaccurate information will delay Please contact your local Commission office if y	the proceeding of you	ir application	
3,	APPLICANT	· · · · · · · · · · · · · · · · · · ·		
Nar	me: 1392119 ONTAR	10 LTD		
Mai	Iling Address: PO BOX 33	SHELBURNE	ONT	LANZLB
Pho		-925-6691	E-mail: metz./	positio Code Dynes & Pociets, Com
2.	AGENT (If any) Note: All correspondence	will be sont to the	Agent where en Agent	le designated.
Nan	ne: DAVID METZ			
	ling Address: 129 BINCH GROVE	SHELBURN	ON	L9V2W3
Pho		925-6691	Province E-mail: metz.	Pould Code 1041CS D10Gers, (04
				13.1. C O O O
3.	OWNER (If different from applicant)		85	
Nam	le:			
Mall	Ing Address:			
Phor	StreetP.O. Box 16! Fax:	City/Town	Province	Postal Code
			E-mall:	
	CONTRACTOR (if applicable)			*
Nam	6: METZ HOMES	LTD		
Matti	ng Address Rinx 2'3 CH	ELMUNNE	n/t	104210

E-mail:

Fax:

Phone: _

FM8# (0113)

	(former)	
County/Region DUFFERIN Municipal	BILLY MELANCTHON Municipality	_
Lot Pt Lot 14 Concession 205	end/or Lot Plan	
Civic Address #	Street Address CHURCH ST.	
6. LOT INFORMATION	FR DEW	
Lot Size 1,19 ha Frontage	112.4 m Depth 152,42 m	\
7. SERVICING		
Existing Road Frontage: Municipal Municipal	Private Right-of-Way Year-rour Right-of-Way	d
Existing Water Supply:	☐ Communal ☐ Private Well ☐ Other: ☐ Communal ☐ Private Well ☐ Other: ☐	
Existing Sewage System: Municipal Municipal Municipal	☐ Communal ☐ Private Septic ☐ Other: ☐ Communal ☑ Private Septic ☐ Other:	
		_
8. EXISTING and PROPOSED DEVELOPMENT		
Note: "Development" includes the construction of built	ldings and structures, alterations to the landscape, (e.g. placing fill, allon), any change of use or new use (e.g. residential to commercia	l, new
Note: "Development" includes the construction of bui drainage alterations, pond construction or alter home business, etc). If additional space is req	Idings and structures, alterations to the landscape, (e.g. placing fill, allon), any change of use or new use (e.g. residential to commercia ulred please include a separate attackment. Proposed Development: (describe)	
Note: "Development" includes the construction of build drainage alterations, pond construction or alter home business, etc). If additional space is required by the construction of building business.	Idings and structures, alterations to the landscape, (e.g. placing fill, allon), any change of use or new use (e.g. residential to commercia ulred please include a separate attackment. Proposed Development: (describe)	
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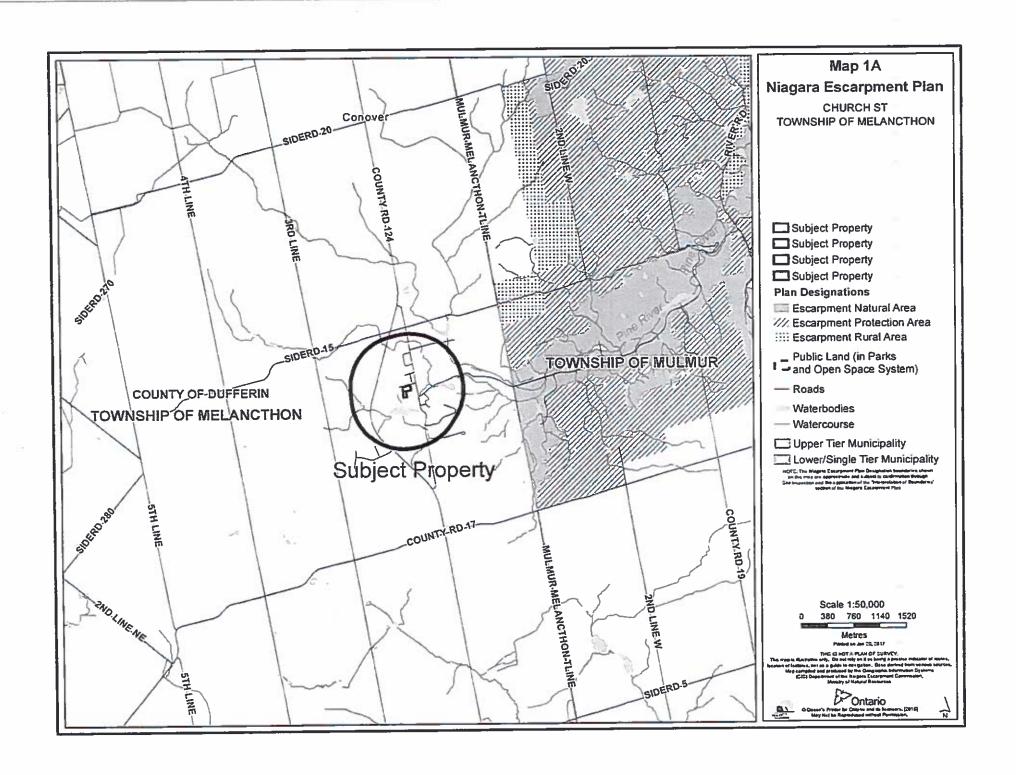
.

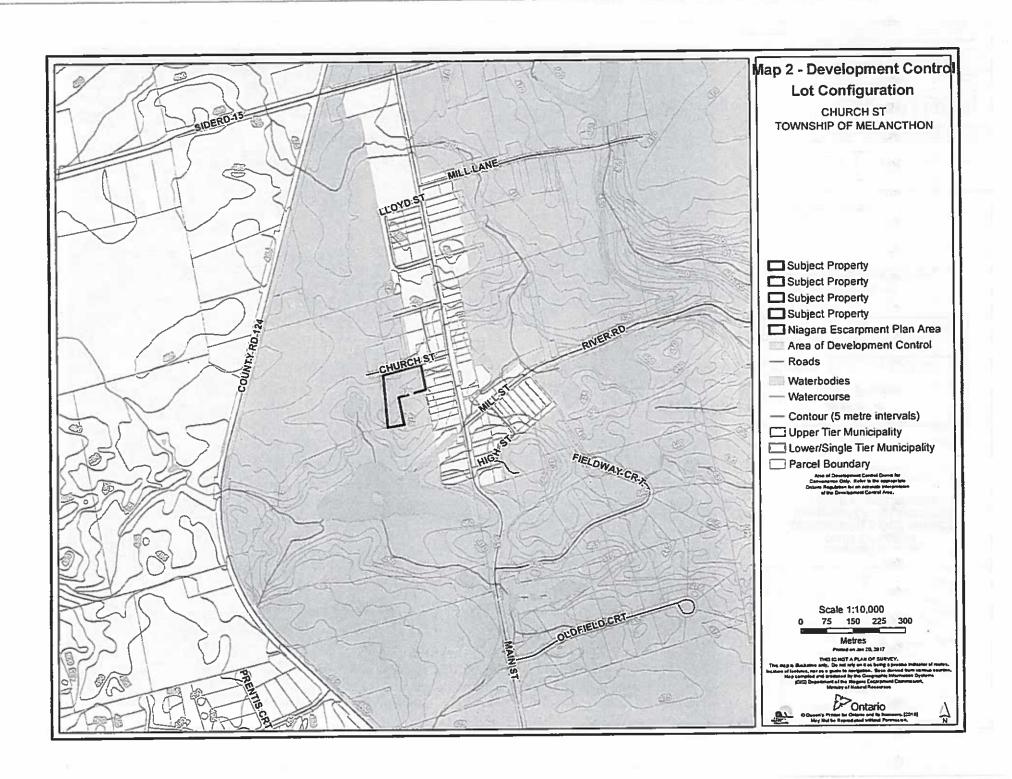
Note regarding Sections 11, 12, 13, 14, 15, 16:

Depending on the type or nature of the proposed development and/or the characteristics of the property, supporting information such as Environmental Impact Studies, Landscape Plans, Lighting Plans, Visual Assessments, Grading Plans, Erosion Control Plans, Stope Stability Studies, etc., may be required in support of the following information.

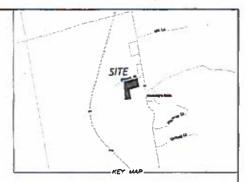
11. CONSTRUCTIO	N DETAILS				 -
I Otal Floor Area (i.e.	is the total <u>exterior</u> me , total mass) is based o uding attached garages neasured from the <u>lowe</u> s	n the <u>exterior</u> measure	ments of the bull	ding and includes	
Dwelling	Ground Floor Avea (Exterior measurements) 3500 SF	Total Floor Area 4500 SF	# of Storeys	Maximum Height (to peak)	Use of aruthuria
Dwelling Addition					
Accessory Building 1					
Accessory Building 2					
Accessory Building Add	dition				
Other Building			***		
Demolition (specify what sinucture)					
*If fill is required for any	of the developments bro	oposed above please m	Paulala dat-U. L.		
12. ACCESSORY FAC	CILITIES, STRUCTURE	S, FILLING, GRADING	etc	Section 12 below.	
(e.g. Ddyawaye Dacks	Gazetios, Swimming Pools, ng Walls, Placement of FIR, G.	Tennis Courts, Lighting, 8 rading, Berma, Parking Areas	igns, Wind Turbines	OUCH LIBRICE CYLE	Panels, Hydro for Ponds)
	NA				
					
13. HOME BUSINESS,	CHANGE OF USE, NE	WUSE			
8.0: Fefahilehing a Verre	Business, Home Occupations the use, or establishing a nusiness or new use and size or area of building of employees, access, pusiness overview or pusiness o	on, Home industry or Bod as new use on a property or with provide information s ng &/or land to be occ	in any owelling bulkli such as: supled or altered , sales, hours of 1.	ng or structure on a pro	
Ę.,					

14. PONDS -	- New pond / Existing p	oond work – dredging,	maintenance, rep	air, etc.)	NA
The following int	omation is the <u>minimum</u> li geology report and/or an er	nformation that is required nvironmental impact asses	for pond constructionsment is also requi	lon or alteration/i red.	maintenance. Generally, a
Pond is:	Proposed				
Type of Pond:	☐ Dug	Spring-fed	Other (e.g., on	steem, by-pass)	
Use of Pond:	Recreation	Livestock/farm	lrrigation	Olher	
Water Source:	Precipitation/run-off	Springs	☐ Well	Other	
Size of Pond:	Water Area		_ Depth of Water	r	
	Height of Banks		Width of Banks	3	
Setbacks:	Distance to nearest wa	tercourse, wetland and	or roadside ditch:		·
	Distance to nearest exi	sling or proposed septi	c system:		
	elails/inflow/Oulflow Det onstruction, water supply, rece			t <u></u>	
Erosion/sedime	ent control measures:				
	xcavated material:				
	and landscaping:				
15. AGRICUL	TURAL DEVELOPMEN	ıτ <i>N</i>),	^		
	Involves agricultural tar	•		ere: and comp	ete other sections of
	form as applicable. Not				
Small Scale	Commercial Use Acces	sory to Agriculture:		.,	
☐ Mobile Dwelling In A	iling Accessory to Agricu Agricultural Area (near b	ulture: erns - MDS i):			19
Livestock Fa	acility (MDS II): Facility (e.g., arenas, ridio	na tinne attante):			
Farm Pond:	-aciny (e.g. arenas, non	ig trids' sagirs).			
vvinery:					
Farm Vacati	on Home:				
☐ .∀âucnimai	Purposes Only' (APO) I	.oi Crealion:		<u></u>	
16. LOT CRE	ATION				
if this applicatio	n involves the creation /	severance of a new lot	, please provide li	he following Info	omation:
i) Existing Lot	: , li) Pro	posed Lot:	iii) Retained Lo	ot:	iv) Use of new Lot
Frontage }	12,4m Fr	ontage 56.2m	Frontage 5	6.2m	Residential
Depth 152		pth 73,42m	Depth 150	2,42m	Agricultural/APO
1 1/			-	8 ha	Lot Addition
Size / I	ha siz	.41 ha	Size	U NO.	Commercial
				ili '	_ meedia
17. OTHER IN	IFORMATION				
Additional Info	nation to clarify your pro	nord most be estimated	d haro or on a se-	arata attaches	שלי "דועות"
PROPERT				ALIENDING CITATION	THE THE









CONCEPTUAL SITE PLAN ON PART OF LOT 14 CONCESSION 2, OLD SURVEY TOWNSHIP OF MELANCTHON COUNTY OF DUFFERIN

SCALE 1 SOO

VAN HARTEN SLRVEVINGTING

MAP 3 Site Plan

FILE NO.

DIR116-171361

APPLICANT 1392119 CATEGO

NOTE:

THIS IS NOT A PLAN OF SURVEY

Boundapy mitornation decome Holicor is belod on Pecopoli Found at the Land Pecoton Cepec, Playes 79–4712, 78 3747 and RECESTRICO PLAY NO. 344

METRIC

DETANCES DOWN ON THIS YEAR AND IN BY THE SAID EARLIE CONSCIENCE TO HET BY DIVISION OF IT 2048



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the parallel matter general parallel per the parallel per the parallel per the per the per the parallel per the parallel per the parallel per the per

Denise Holmes

From:

Source Protection Funding (MOECC) <SourceProtectionFunding@ontario.ca>

Sent:

Thursday, March 09, 2017 1:59 PM

To:

Denise Holmes

Cc:

Source Protection Funding (MOECC)

Subject:

RE: SPMIF- Melancthon - 2016-17 Extension Request

Attachments:

SPMIF_1314_056_MEL_Amend3_2017 Extension.pdf

Importance:

High

Dear Denise.

Please be advised that your extension request has been approved.

Attached is your Agreement Amendment #3 to formally extend the timelines for expending SPMIF funds. Please:

1. Print off two copies of the attached amendment.

2. Have both copies signed by someone with the authority to bind the municipality.

3. Scan and send a signed copy to sourceprotectionfunding@ontario.ca using the subject line: "SPMIF — Melancthon Township - 2017 Extension Amendment".

Return the two original signed copies to the address below by March 22, 2017.

Ministry of the Environment and Climate Change Source Protection Programs Branch 40 St. Clair Avenue W., 14th Floor Toronto, ON M4V 1M2 Attn: Ms. Saira Bozin Ilisinovic, Program Coordinator

We will return an original duly executed amendment to you once signed at the Ministry for your files. If you have any questions please let us know,

Best regards,

Saira Bozin Ilisinovic

Program Coordinator MOECC - Source Protection Programs Branch 40 St. Clair Avenue W. Toronto ON M4V 1M2 416-212-5483 Saira.Bozin-Ilisinovic@Ontario.ca

From: Denise Holmes [mailto:dholmes@melancthontownship.ca]

Sent: January-03-17 1:42 PM

To: Source Protection Funding (MOECC)

Subject: SPMIF- Melancthon - 2016-17 Extension Request

Good afternoon,

I would like to request an extension to our Source Protection Implementation Fund by one year to March 31, 2018.

Please find attached, the required work plan to support my timeline extension request.

Should you have any questions, please do not hesitate to contact me.

Thank you.

Regards,

Denise Holmes

Denise B. Holmes, AMCT | Chief Administrative Officer/Clerk | Township of Melancthon |

dholmes@melancthontownship.ca | PH: 519-925-5525 ext 101 | FX: 519-925-1110 | www.melancthontownship.ca |

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sourceprotectionfunding@ontario.ca

Message Score: 1

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AMENDMENT NO. 3

to a Grant Funding Agreement under the 2013-14 Source Protection Municipal Implementation Fund (SPMIF_1314_056)

THIS AMENDMENT NO. 3 made in duplicate, as of the 9th day of March 2017.

BETWEEN:

HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO as represented by the Minister of the Environment and Climate Change

(the "Province")

- and -

The Corporation of the Township of Melancthon

(the "Municipality")

WHEREAS the parties entered into a grant funding agreement under the Source Protection Municipal Implementation Fund dated as of December 13, 2013 for the Municipality to build municipal capacity to implement source protection plans and support sustainable, local actions to protect drinking water (the "Agreement");

AND WHEREAS the parties entered into Amendment No. 1 as of September 8, 2015 to extend the term of the Agreement, add an additional report and include new timelines;

AND WHEREAS the parties entered into Amendment No. 2 as of July 11, 2016 to extend the term of the Agreement, add an additional report, include new timelines, and expand the scope of eligible activities;

AND WHEREAS pursuant to Section 20.2 of the Agreement, the parties may amend the Agreement in writing:

NOW THEREFORE in consideration of the contractual relationship between the Municipality and the Province referred to above and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by both parties, the Municipality and the Province hereby acknowledge, agree and undertake as follows:

- 1. Unless otherwise specified in this Amendment No. 3, capitalized words and phrases have their prescribed meaning as set out in the Agreement.
- 2. The Agreement is amended as follows:
 - 2.1 Section 2.1 as amended by Amendment No. 2 is again deleted in its entirety and replaced with the following:

- 2.1 The term of the Agreement shall commence on the Effective Date and shall expire on March 31, 2018 unless terminated earlier pursuant to Article 9. The Municipality shall, upon expiry or termination of the Agreement, return to the Province any Funds remaining in its possession or under its control.
- 2.2 The chart in Schedule "D" (Reports) as amended by Amendment No. 2 is again deleted in its entirety and replaced with the following:

Name of Report	Due Date
Collaboration Statement (if applicable)	December 12, 2014
Progress Report 1	December 12, 2014
Progress Report 2	December 11, 2015
Progress Report 3	August 26, 2016
Progress Report 4	August 25, 2017
Final Report	December 8, 2017
Other Reports as specified from time to time	On a date or dates specified by the Province.

2.3 The first paragraph under the heading Section B.1 Eligible Activities, in Schedule B is hereby deleted and replaced with the following:

The Municipality may only spend the Funds on the following eligible activities that are undertaken by the Municipality, or that are undertaken on the Municipality's behalf, between December 13, 2013 and December 4, 2017 that are directly related to the following:

- 3. This Amendment No. 3 shall be in force from December 13, 2013 and shall have the same expiry or termination date as the Agreement.
- All other terms and conditions of the Agreement and Amendment No. 1 and Amendment No. 2 shall remain in full force and effect unchanged and unmodified.

- 5. This Amendment No. 3 shall enure to the benefit of and be binding upon the Municipality and the Province and each of their administrators, permitted successors and permitted assigns, respectively.
- 6. This Amendment No. 3 may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. To evidence its execution of an original counterpart, a party may send a copy of its original signature on the execution page hereof to the other party by facsimile or other means of recorded electronic transmission (including in PDF) and such transmission with an acknowledgement of receipt shall constitute delivery of an executed copy of this Amendment.

IN WITNESS WHEREOF the parties have executed this Amendment No. 3 as of the date first written above.

HER MAJESTY THE QUEEN in Right of Ontario as represented by the Minister of the Environment and Climate Change

Name:

Heather Malcolmson

Title:

Director

Source Protection Programs Branch

Pursuant to delegated authority.

The Corporation of the Township of Melancthon

Name:

Denise Holmes

Title:

CAO

I have authority to bind the Municipality.





Dundalk District Agricultural Society

PO Box 497, Dundalk, ON, NOC 1BO

February 20, 2017

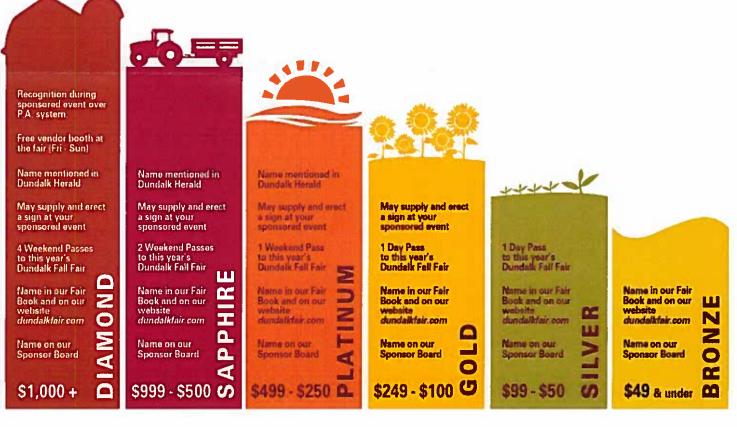


RED, WHITE & FARMIN'

Our annual fall fair will take place on September 8-10, 2017 at the Dundalk fair grounds. As 2017 is Canada's 150^{th} birthday, we're incorporating this celebration into our fall fair with the theme *Red*, *White* & *Farmin'*. We're excited to incorporate the love for our country and the passion behind our rural community's roots into activities at this year's fair.

The Dundalk Agricultural Society has been supporting the community since 1855. We put on several other events throughout the year, but our fall fair is the highlight and by far the largest event of them all. The fair is a community-minded, not-for-profit event run by a group of dedicated volunteers who strive to host an entertaining and educational weekend for all ages. The Dundalk Fall Fair is the longest running annual event in our community. With over 20 classes of exhibitor categories, including special sections for kids, youth and seniors, people have the opportunity to display and exhibit a multitude of items from horticulture, field crops, arts and crafts, baking and sewing and quilting. Other features of our fair include the 4-H club shows, the truck and tractor pull and the fair ambassador program.

Please help us to maintain these traditions and enhance our fall fair experience. We welcome businesses and individuals to support our efforts through our sponsorship program. The cost of organizing and promoting successful events is forever increasing, thus, our reliance upon generous donations grows each year. We recognize that sponsors are major contributors to the success and future of our fair. Your support and assistance is greatly appreciated. In return for your financial support, we provide as much promotion and reward as we possibly can. See the sponsorship levels below:



With sincerest thanks,

The Dundalk Agricultural Society

Jessica Sherson-Cook

DDAS President

Kimbuly Day
Kimberley Stacey
DDAS Secretary

162nd Dundalk Fall Fair

Dundalk Agricultural Society | September 8, 9 & 10, 2017

Please complete this form and return along with your cheque to the following address:

Dundalk Agricultural Society Attn: Sponsorship Committee PO Box 497, Dundalk, ON NOC 1B0



	2017 Sponsorship Form
Company Name:	
Name of Contact:	
Address:	
Business Telephon	e: Cell:
Email:	
	Please check your level of sponsorship:
	Diamond (\$1,000+) Gold (\$100 - \$249)
	Sapphire (\$500 - \$999) Silver (\$50 - \$99)
1	Platinum (\$250 - \$499)
	Please specify how you would like your donation allocated:
General Fair \$	4-H Invitational \$ Ambassador Program \$
Horse Show \$ [Other (please specify) \$
	ovide a sign/banner for the fair committee to erect on fair weekend. o Diamond, Sapphire, Platinum and Gold sponsorship levels)
A cheque is enclos	Signature Signature
Cheque payable to '	Dundalk Agricultural Society' Date

Thank you for your generous_support!

All sponsorships must be received by May 1, 2017 to be included in our fair book. If you have any questions, please call Kimberly Stacey (Secretary) at 519-306-1615

For additional information, visit www.dundalkfair.com

Denise Holmes

From:

Nicole Hill <nhillsecretary@gmail.com>

Sent:

Thursday, March 02, 2017 3:00 PM

To:

Carey Holmes; Carol Sweeney; thorner@mulmurtownship.ca; Denise Holmes;

mark@townofmono.com

Subject:

SDFD 2017 Capital Budget

Attachments:

SDFD 2017 Capital Budget.pdf

Hello,

I have attached a copy of the adopted 2017 Capital Budget. An Operating Budget has not been adopted yet and I'm not sure when one will be adopted.

Regards, Nicole Hill

Secretary-Treasurer

Total Control Panel

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To: dholmes@melanethontownship.ca
From: nhillsecretary@gmail.com

Message Score: 1

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SHELBURNE & DISTRICT FIRE DEPT CAPITAL PLAN 2012 - 2018

CAPITAL PLAN

YEAR	, 	ADOPTED 2014		ADOPTED 2015		ADOPTED 2016	1	ADOPTED 2017		2018		2019
Opening Balance	\$	169,631.37	\$	335,474.66	\$	398,379.66	\$	365,184.06	\$	469,684.06	\$	152,184.06
Transfers In Plus: Interest Plus: Special Capital Levy (prev \$93,000) Plus: Surplus from Previous Year Plus: Sale of Unit #1-89 Plus: Sale of Pumper Plus: Sale of Rescue Plus: Extra Funding from Municipalities Plus: Bell Tower Lease	\$ \$ \$ \$ \$ \$ \$	2,371.29 95,000.00 54,394.00 2,203.00	\$ \$ \$ \$ \$ \$ \$	95,000.00 5,405.00 - - 7,500.00	\$ \$ \$ \$ \$	95,000.00 21,304.40 - - 7,500.00		- 105,000.00 - - - 7,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 115,000.00 - 20,000.00 - 7,500.00	\$ \$ \$ \$ \$ \$ \$	- 125,000.00 - - - 7,500.00
Transfers Out Less: Replace Unit 1 - Quint Truck Less: Engineer Services Less: Fire Hall Expansion Less: Replace Fire Van - Unit 2 Less: Repave Parking Lot Less: Replace Unit 7 - Pumper Truck Less: Replace SCBA's Less: Rescue Truck Less: Contamination Room Reno Less: Bunker Gear Room Less: Truck Exhaust Control System Less: Replace Tanker Truck	***	-	* * * * *	- - - - 45,000.00 - -	***	- - - - - 157,000.00	\$\$\$\$\$\$	- - - - - - 8,000.00	*********	•	***	- - - - -
Ending Balance	\$	335,474.66	\$	398,379.66	\$	365,184.06	\$	469,684.06	\$	152,184.06	\$	284,684.06

-	Year to	
	Replace	
- \$	450,000.00	2014
\$	350,000.00	2019
\$	350,000.00	2024
\$	30,000.00	2027
\$	1,000,000.00	2027
	\$ \$ \$	\$ 350,000.00 \$ 350,000.00

stretch to 2018

Denise Holmes

From:

Nicole Hill <nhillsecretary@gmail.com>

Sent:

Thursday, March 09, 2017 2:23 PM

To:

Carol Sweeney; Denise Holmes; thorner@mulmurtownship.ca; Susan Stone;

mark@townofmono.com; Brad Lemaich

Subject:

SDFD 2017 Operating Budget

Attachments:

2017 ADOPTED SDFD Operating Budget.pdf

Hello,

Please find attached the 2017 Operating Budget for the Shelburne & District Fire Board that was adopted at the March 7th, 2017 Board meeting.

Regards,

Nicole Hill

Total Control Panel

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To: dholmes@melancthontownship.ca

From: nhillsecretary@gmail.com

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SHELBURNE & DISTRICT FIRE BOARD

2017 ADOPTED OPERATING BUDGET

PRESENTED: February 7, 2017

ACCOUNT	ACCOUNT	Τ	2016		2016		2017
NUMBER	NAME		BUDGET	-	ACTUAL		BUDGET
EXPENDITURES	I	T A					
4100-0100	Treasurer	\$	800.00	\$	700.00	\$	800.00
4100-0300 4100-0400	Secretarial Services Legal & Audit & HR Services	5	15,106.00 5,000.00	\$	15,630.37 2,493.12	\$	15,800.00 5,000.00
4100-0500	Mutual Aid Contributions	5	450.00	\$	2,493 12	\$	450.00
4100-0600	Material & Supplies	\$	7,500.00	5	4,315.24	\$	5,000.00
4100-0700	Services & Rentals	\$	4,500.00	\$	4,223.05	\$	4,500.00
4200-1650	IT Support Dufferin County	\$	2,400.00	\$	611.81	\$	500.00
4100-0800	Subscriptions & Memberships	\$	700.00	\$		\$	700.00
4100-0900	Conventions & Conferences	\$	5,000.00	\$	4,040.19	\$	5,000.00
4100-1000	Licence Renewal	\$	673.00	\$	673.00	\$	673.00
4100-1200	Heath & Safety Expenses	\$	5,000.00	\$	2,456.43	\$	5,000.00
4100-1300	Fire Prevention	\$	5,000.00	\$	5,785.16	\$	6,000.00
4100-1500	Training - Courses/Expense	\$	6,000,00	\$	3,626.35	\$_	9,000.00
4100-1800	Communication Equipment & Dispatch	\$	16,000.00	\$	19,248.37	\$	16,000.00
4200-0100	Fire Call Wages	\$	81,600.00	\$	92,685.25	\$	81,600.00
4200-0103	Salaries/Standby/Meetings	\$	150,000 00	\$	146,237.61	\$	155,600.00
4200-0105	Thursday Night Practice	\$	31,500.00	\$	31,249.00	\$	31,500.00
4200-0110	Employers Portion - El	\$	3,000.00	\$	1,766.77	\$	3,000.00
4200-0120	Employers Portion - CPP	\$	7,000.00	\$	6,921.03	\$	7,000.00
4200-0150	Mileage & Meals	\$	400.00	\$	382.60	\$	400.00
4200-0200	Benefits (EHT & WSIB) (Manufife)	\$	21,400.00	\$	21,855.28	\$	22,470.00
=	OMERS Pension Plan	\$	12,500.00	\$	11,867.30	\$	13,000.00
4200-0400	Employee Assistance Program	\$	(4)	\$	708.25	\$	710,00
4200-0500	Protective Clothing/Uniforms	\$	14,000.00	\$	13,085.45	\$	14,000,00
4200-1000	Truck Operations & Maintenance	\$	24,000.00	\$	14,814.33	\$	727
4200-1040	Truck Operations & Maintenance - Pump 27	\$				\$	4,800.00
4200-1030	Truck Operations & Maintenance - Rescue 26	\$	1.7			\$	4,800.00
4200-1050	Truck Operations & Maintenance - Ladder 28	\$		_		\$	4,800.00
4200-1020	Truck Operations & Maintenance - Tanker 25	\$	1.0	_		\$	4,800.00
4200-1010	Truck Operations & Maintenance - Car 21	\$	-	_		\$	4,800.00
4200-1060	Fuel for Trucks	\$	6,000.00	\$	5,487,77	\$	6,000.00
4200-1100	Insurance Premium	\$	21,000.00	\$	20,863.51	\$	22,000.00
4200-1200	Miscellaneous/Recognition Night Utilities (Gas/Hydro/Water/Sewer)	\$	2,200.00	5	2,488.90 21,277.56	\$	2,200.00
4200-1300 4200-1400	Bell Canada (Dispatch Line)	\$	18,000.00 950.00	\$	927.37	\$	22,500.00 950.00
4200-1400	Bell Canada (Admin Line)	\$	1,600.00	\$	1,608 55	\$	1,600.00
4200-1550	Bell Mobility	\$	2,500.00	\$	2.012.97	5	2,500.00
4200-1500	Vaccination & Driver Medicals	Š	400.00	Ś	90.00	Š	400.00
4200-1700	Bank Service Charges	5	660.00	5	684.00	Š	660.00
4200-1750	Ceridian Payroll	5	2,000.00	Ś	2,125,21	5	2,000.00
4200-1800	New Equipment Acquisition	5	14,000.00	\$	15,504.65	Ś	15,000.00
4200-1900	TSF Bell Tower Lease to Capital	15	•	Š	9,603.25	Ť	
4200-1980	Building Maintenance	\$	4,500.00	5	3,945.28	5	4,500.00
4200-2000	Interest on Temporary Loans	5	600.00	\$	600.00	5	600.00
4200-2100	Fire Hydrants	\$	7,500.00	\$	7,500.00	5	7,500.00
4200-2500	Uncollectible Accounts	\$	-	\$			
	SUBTOTAL EXPENSES	5	501,439.00	\$	500,613.63	\$	516,113.00
2900-0000	Tsf Surplus to Capital Reserve	5	21,304.40	\$	21,304.40		
2900-0000	Tsf Surplus to Operating Reserve	5	25,000.00	\$	25,000.00	\$	•
	TOTAL EXPENDITURES	\$	547,743.40	\$	546,918.03	\$	516,113.00
REVENUES:							
3000-0500	Interest on Current Account	\$	500.00	_	215.58	_	500.00
3000-0600	Miscellaneous / Inspections	\$	13,000.00	_	3,605.72	_	5,000.00
3000-0800	MTO / County MCV Revenue	\$	15,000.00	-	37,790.00		30,000.00
3000-0900	Insurance / False Alarm Revenue	\$	10,000.00	-	5,335.00	\$	6,000.00
	Rec'd from Town of Shelburne Re FPO	5	50,000.00	_	37,500.00		
	Partial Use of Surplus to Offset 2016	\$	25,000.00	_	25,000.00	<u> </u>	
2000 2222	SUBTOTAL REVENUES	\$	113,500.00	_	109,446.30	_	41,500.00
2900-0000	Surplus/Deficit from Previous Year	\$	21,304.40	_	21,304.40		(3,228.33)
	TOTAL REVENUES	\$	134,804.40	\$	130,750.70	1 5	38,271.67
TOTAL 3010 0	ATING BUDGET	_	A12 025 05				477 044 55
TOTAL 2016 OPER	ATING BUDGET	5	412,939.00			\$	477,841.33

THE CORPORATION OF THE TOWNSHIP OF MELANCTHON

DRAINAGE ENGINEER'S TENDER REPORT

TO:

Mayor White and Members of Council

FROM:

Tom Pridham, P.Eng., Drainage Engineer

RE:

Tender Results:

Petervale Farms Drainage Works

DATE:

March 3, 2017

RECOMMENDATION:

THAT the tender for the construction of the Petervale Farms Drainage Works submitted by Hanna & Hamilton Construction Co. Ltd. in the amount of \$90,328.81 including H.S.T. be accepted.

BACKGROUND:

Tenders for the construction of the Petervale Farms Drainage Works closed on Wednesday, March 1, 2017 at 4:00 p.m. Seven tender packages were circulated. Three bids were received as indicated on the attached Tender Opening Summary Form.

All tenders have been checked and verified for accuracy. The low bidder, Hanna & Hamilton, are very familiar with the site having completed the excavation of the temporary dewatering drain in the P. Ruigrok Estate property. Their workmanship and the co-operation shown to the affected owners has always been outstanding.

We would recommend that the tender for the construction of the Petervale Farms Drainage Works submitted by Hanna & Hamilton Construction Co. Ltd. in the amount of \$90,328.81 including H.S.T. be accepted.

Prepared By,

Tom Pridham, P.Eng. Drainage Engineer

> ACT 6 MAR 1 6 2017

TENDER OPENING SUMMARY FORM

Petervale Farms Drainage Works

Closing Date:

March 1, 2017 @ 4:00 p.m.

Township of Melancthon

Tender Opening Date:

March 2, 2017 @ 5:35 p.m.

File No.: D-ME-159

Project No.: 300038259.0000

BIDDER	TENDER AMOUNT (incl. HST)	CERTIFIED CHEQUE/ DEPOSIT	START DATE	SUBSTANTIAL COMPLETION DATE	BIDDER POSITION
Hanna & Hamilton Construction	\$90,328.81	V	May 15, 2017	June 15, 2017	1
Demmans Excavating					
Marquardt Farm Drainage	\$90,957.09	✓	June 15, 2017	July 15, 2017	2
Staveley Construction					
Reeves Construction					
DLG Services Inc.					
Cedarwell Excavating	\$113,046.33	√	June 1, 2017	July 31, 2017	3
Engineer's Estimate	\$88,705.00				



REPORT TO COUNCIL

TO:

MAYOR WHITE AND MEMBERS OF COUNCIL

FROM:

Wendy Atkinson, Treasurer

SUBJECT:

2017 Draft Budget

DATE:

March 16, 2017

Background and Discussion

The budget was discussed at the Council meeting held on March 2, 2017 and Council supported the recommendation from the roads Sub-Committee that Structure 2003 and the 4th Line N.E. repairs could wait a year. The 2nd Draft Budget was presented with a 12.7% increase in the budget and a 6.4% increase to the Melancthon portion of the tax rate. The Treasurer was directed to bring back a by-law to the next meeting and the Mayor asked Council members to review the budget for the March 16th meeting.

Financial

The major capital expenses incorporated into this budget are Bridge #15, the new roads equipment storage building and resurfacing (road(s) to be determined). A transfer of \$100,000 from Development Charges has been budgeted to offset a portion of the costs of the road building. Gas Tax Revenue in the amount of \$80,000 has been incorporated into the budget to offset a portion of the estimated costs of Structure 2003. The amount to be received from OCIF (formula base) is \$50,000.00 and this amount is included in the budget.

As a result of some additional trimming the amount to be raised through taxation is \$2,394,418.00 - an increase of \$250,939 or 11.71% (for every \$21,435.00 raised equals a 1% increase). Factoring in the changes in assessment the increase to the Melancthon portion of the tax rate is approximately 5.5%.

Based on this budget, the increase for every \$100,000 assessment is \$26.31 for Melancthon's portion of the tax rate:

Tax Scenario (Melancthon rate only)

2016 House Assessed at 348,000 \times 0.478755% = \$1,666.07 2017 House Assessed at 350,250 \times 0.505069% = \$1,769.00 The increase to assessment is 0.65% and the increase in tax dollars is \$102.93 or 6.2%.

Based on the above scenario a house assessed at 348,000 with no change in assessment would see an increase of \$91.57 per year $(348,000 \times 0.505069\% = $1,757.64)$ or 5.5%. (Melancthon rate only)

Respectfully submitted,

Wendy Atkinson



*2016 Actual-Unaudited

Schedule B

Corporation of the Township of Melancthon 2017 Operating and Capital Budget

Acct. No.	Budget Expenditures	2016 Budget	2016 Actual	2017 Budget
	General Government			
	COUNCIL			
01-5001-1010	Salaries, Meetings	65,000.00	64,247.46	66,000.00
01-5001-1022	Training	500.00		250.00
01-5001-1025	Receiver General	2,000.00	1,253.92	1,500.00
01-5001-1030	Mileage	1,200.00 2,000.00	835.12 1,317.00	1,000.00
01-5001-1070 01-5001-1080	Conferences/Conventions/Seminars	2,000.00	45.00	2,500.00
01-5001-1000	Meals	1,000.00	583.50	1,000.00
01-5001-2060	Memberships	1,000.00	000.00	1,000.00
01-5001-2025	Council Furniture	3,000.00	2,802.96	i
01-5001-2190	Miscellaneous	500.00	385.60	500.00
	Sub-total Sub-total	75,200.00	71,470.56	74,550.00
	ADMINISTRATION		<u> </u>	1
01-5002-1010	Wages, Vacation Pay, Unused Sick Pay	220,000.00	209,898.61	235,000.00
01-5002-1020		13,500.00	13,380.76	16,000.00
01-5002-1022	Training	1,200.00	537.70	1,500.00
01-5002-1024		500.00	44 404 45	40,000,00
01-5002-1025	Receiver General	12,000.00	11,161.15 1,830.00	12,000.00 2,000.00
01-5002-1026 01-5002-1030	Meetings EHT	2,000.00 4,500.00	4,400.22	4,600.00
01-5002-1030	WSIB	7,100.00	6,241.94	7,000.00
	RRSP/OMERS Township Cont.	19,300.00	16,278.00	21,500.00
01-5002-1004		1,500.00	1,193.50	1,500.00
01-5002-1070	Conferences	1,500.00	1,130.50	2,500.00
01-5002-7005	Office Furniture	1,500.00	 	500.00
01-5002-2010	Office Supplies	5,800.00	5,032.69	5,800.00
01-5002-2020	Postage	4,700.00	4,821.10	5,000.00
01-5002-2030	Office Equipment	3,600.00	3,480.88	3,600.00
01-5002-2035	Computer Program Updates	12,000.00	8,222.48	14,000.00
01-5002-2040	Advertising	500.00	955.73	1,500.00
01-5002-2050	Audit	22,000.00	22,896.00	22,000.00
01-5002-2060	Memberships	3,000.00	2,661.29	3,000.00
01-5002-2070	Heating	2,000.00	1,387.41	2,000.00
01-5002-2080	Hydro	4,500.00	4,861.05	5,000.00
01-5002-2090	Telephone	2,500.00	2,391.87	2,500.00
	Internet	1,500.00	1,083.13	1,300.00
	Website Maintenance	6,500.00	2,148.18	3,000.00
	Professional Fees - Legal	10,000.00	1,388.95	10,000.00
	Professional Fees - Biosolids Health and Safety Services	4,900.00		5,000.00
	Municipal Emergency Readiness Fund	10,000.00	25,126.32	3,000.00
01-5002-2110		35,000.00	35,000.00	35,000.00
01-5002-2120		20,000.00	00,000.00	5,000.00
	Bldg Maintenance	2,500.00	3,914.26	13,000.00
	Office Cleaning	1,100.00	750.00	1,100.00
	Landscaping & Grass Cutting	750.00	1,420.51	850.00
01-5002-2165	Water Sampling	100.00	54.06	100.00
	Other/Miscellaneous	2,000.00	2,164.46	2,000.00
	Volunteer Appreciation Night	250.00	93.53	200.00
01-5002-2200		500.00	194.31	500.00
	Tax Write-Offs	70,000.00	119,933.50	50,000.00
	Uncollectable Debts		536.63	
	Penny Rounding		(0.11)	
	Bank Charges	550.00	513.44	550.00
	Grants to Others	1,500.00	1,450.00	1,500.00
01-5002-6160		40.057.00	(600.00)	40.057.00
01-5002-7011	Loan for Municipal Expansion	13,057.00	13,056.66	13,057.00
	Sub-total	505,407.00	529,860.21	510,657.00

	IDEOTECTION TO DEDEONS/DRODERTY		10.	
04 5002 6040	PROTECTION TO PERSONS/PROPERTY	85,534.00	88,438.90	95,765.00
01-5003-6010	Mulmur Melancthon FD	78,000.00	72,176.36	87,500.00
	Shelburne and District FD	23,860.00	23,860.00	24,000.00
	Township of Southgate FD - Operating	7,000.00	7,000.00	7,000.00
01-5003-6031	Township of Southgate FD - Capital	430,380.00	427,054.75	431,120.00
	Policing Policing - Proposal	430,380.00	421,034.13	15,000.00
01-5004-3051		1,100.00	152.64	500.00
01-5004-3055	Policing - ESO	6,676.00	152.04	6,643.00
01-5004-3052	Policing - RIDE	8,878.00		500.00
04 5004 0040	Police Services Board	40 270 00	40.077.60	
01-5004-6040	Nottawasaga Valley CA	10,278.00	10,277.62	11,263.00 19,694.00
	Grand River CA	18,872.00	18,872.00	19,094.00
	SWP Collaboration Agreement	40,000,00	2,035.20	E 000 00
01-5013-6140	Livestock Claims	10,000.00	3,348.11	5,000.00
	Animal Control	7,000.00	3,170.14	5,000.00
	By-law Enforcement	2,500.00	1,755.00	25,000.00
01-5006-3025	Street Lights LED	5,500.00	5,248.50	5,500.00
	Sub-total	686,700.00	663,389.22	739,485.00
	ROADWAYS			
	Road Budget	2,248,208.00	1,813,270.78	2,072,658.00
	Transfer to Reserves			
	Sub-total	2,248,208.00	1,813,270.78	2,072,658.00
	ENVIRONMENTAL SERVICES			_
01-5007-2171	Levelling	5,000.00		
$\overline{}$	Landfill Study/Monitoring	24,500.00	22,081.92	22,100.00
	Miscellaneous		393.62	
01-5007-7001	Rehabilitation Reserve	10,000.00	10,000.00	10,000.00
	Sub-total	39,500.00	32,475.54	32,100.00
	<u></u>			
	RECREATION			
01-5010-5055	Corbetton Park	3,630.00		3,630.00
	Corbetton Park Legacy Fund			10,000.00
01-5010-6060	Horning's Mills Park	4,700.00	4,682.93	4,700.00
01-5010-6065	Homing's Mills Community Hall	2,000.00	1,661.23	5,000.00
015010-6066	Horning's Mills Heritage Project	300.00		300.00
01-5010-6070	Centre Dufferin Recreation Complex	25,750.00	25,750.00	45,328.00
01-5010-6080	Dundalk Community Centre	14,000.00	14,000.00	14,000.00
01-5010-6100	North Dufferin Community Centre	22,500.00	17,500.00	17,500.00
01-5010-7010	Mulmur-Melancthon Recreation Capital		5,000.00	5,000.00
	Horning's Mills Cemetery	2,500.00	2,500.00	12,500.00
	St. Paul's Cemetery	1,000.00	950.00	1,000.00
	Sub-total	76,380.00	72,044.16	118,958.00
	LIBRARY			
01-5011-6110	Shelburne Library	47,263.00	47,263.00	50,393.00
01-5011-6120	Dundalk Library	7,680.00	7,680.00	7,900.00
	Sub-total	54,943.00	54,943.00	58,293.00
	PLANNING & DEVELOPMENT			
01-5012-2100	Professional/Legal Fees	50,000.00	49,479.66	46,000.00
	New Official Plan	10,000.00	2,603.77	5,000.00
	County Official Plan			
	Dufferin Wind Power		2,512.25	
01-5012-2109	New Zoning By-law	20,000.00		
01-5012-2115	Strategic Plan			24,100.00
	Sub-total Sub-total	80,000.00	54,595.68	75,100.00
	DRAINAGE			
01-5009-3060	Drainage Superintendent	50,000.00	51,039.26	50,880.00
01-5015-0100	Tile Drainage Principal & Int Pymts		10,094.99	
	Sub-Total	50,000.00	61,134.25	50,880.00
	RESERVE			
	Transfer to Working Capital Reserves			
01-5002-5041	Tax Rate Stabilization	25,000.00	25,000.00	
01-5002-5042	Special Reserve Fund Emergency Relief			5,000.00
	TOTAL EXPENDITURES	3,841,338.00	3,378,183.40	3,737,681.00
`	<u>-</u>			



Corporation of the Township of Melancthon 2017 Operating and Capital Budget

		2017 Operating and	Capital Budget	
*2016 Actual-U	naudited			
Acct No.	REVENUE		2016 Budget	

Acct No.	REVENUE	2016 Budget	2016 Actual	2017 Budget
		445 000 00	205 202 00	50,000,00
	Opening Surplus/(Deficit)	415,000.00	285,323.00	50,000.00
	TAXATION	 	-	-
01-4001-0700	Supplementary Taxation	50,000.00	102,622.43	50,000.00
01-4001-0800	Capping Adjustments			
				_
	GRANTS	000.00	704.50	750.00
01-4003-0100	Payment in Lieu	900.00	791.59 1,656.45	1,752.14
01-4004-0110 01-4004-0150	Small Business Job Credit OMPF	176,300.00	176,300.00	162,000.00
01-4004-0300	RIDE Grant	6,676.00	-97.52	6,643.00
01-4004-0172	Court Security & Prisoner Transportation	1,300.00		2,117.00
01-4004-0500	Library Grant	4,452.00	4,452.00	4,452.00
01-4004-0156	OCIF Funding (Formula Component)	25,000.00	25,000.00	50,000.00
01-4004-0700	Ontario Aggregate Lic. Fee	38,000.00	52,556.86	45,000.00
01-4030-0100	Drainage Superintendent	25,440.00	-3,360.29 10,000.00	25,440.00
01-4004-0220	Dufferin County Emergency Readiness	-	10,000.00	
	ADMINISTRATION	 		
01-4010-0100	Tax Certificates	4,000.00	3,400.00	3,400.00
01-4010-0110	Tax Statement/Duplicate Tax Bill	300.00	370.00	300.00
01-4010-0200	Building Permit Approval	3,000.00	3,010.00	4,500.00
01-4010-0250	Site Alteration Permit Approval			
01-4010-0300	NSF Cheque Charge	210.00	140.00	140.00
01-4010-0400	Photocopies	25.00	43.50 1,770.00	30.00 1,800.00
01-4015-0100 01-4066-0000	Dog Licenses	2,000.00	40.00	_1,800.00
01-4066-0000	Livestock Claim Grants	9,000.00	2,963.11	5,000.00
01-4064-0000	Business Licenses	300.00	300.00	300.00
01-4065-0000	Trailer Licenses		120.00	
0.1.000				
	FIRE			
01-4012-0100	Fire Revenue - invoiced Fire Calls			
01-4012-0300	Fire Permit Fee	3,200.00	4,330.00	3,500.00
	DOADS			
01-4020-0100	ROADS Road Fees	500.00	1,331.26	500.00
01-4020-0110	Roads Misc Fees	300.001	251.89	300.00
01-4020-0125	Entrance Permits	800.00	1,200.00	1,000.00
01-4020-0130	Wide Load Permits	600.00	560.00	1,000.00
01-4020-0200	Culverts			
01-4020-0140	Bretton Estates Snow Plowing	900.00	900.00	900.00
01-4020-0500	Shelburne road Agreement	5,000.00	5,072.50	5,000.00
01-4020-0210	Road Crossings		2,000.00	1,000.00
01-4020-0700	Transfer from Development Charge (building)	100,000.00	400,000,00	100,000.00
01-4004-0703	Transfer from Gas Tax	100,000.00	100,000.00	80,000.00
		-	 	
	PLANNING	 	1	
01-4035-0100	Official Plan Amendment			
01-4035-0350	Zoning By-law Amendment	3,500.00	4,000.00	4,000.00
01-4035-0300	Consent Applications	4,000.00	4,800.00	4,800.00
01-4035-0325	Minor Variance	800.00	800.00	800.00
01-4035-0200	Zoning Requests	1,870.00	2,120.00	1,955.00
01-4035-0360 01-4035-0375	Change of Use Certificate Applications Pre-Application Consultation	+	1,000.00 500.00	
01-4035-0500	Professional Services Reimbursement	 	18,726.70	_
01-4035-0560	Dufferin Wind Power Reimbursement	 	.5,. 25,. 5	
		 		
	OTHER			
01-4050-0100	Miscellaneous Revenue	1,000.00	410.31	500.00
01-4050-0125	CHD Community Contribution	309,000.00	309,000.00	309,000.00
01-4050-0130	Plateau Community Contribution	30,598.43	30,598.43	33,984.00
01-4050-0135	DWP Community Contribution	243,638.00	248,510.50	245,000.00
01-4050-0200 01-4050-0300	Penalties and Interest on Taxes Interest on Deposits	100,000.00 8,000.00	102,845.34 11,271.72	100,000.00
01-4050-0300	IPOA	20,000.00	22,564.29	25,000.00
01-4050-0450	False Alarms - OPP	20,000.00	22,004.20	25,555.00
I fill i eef fittifier tertur i	Electronic Recycling Revenue		128.55	150.00
01-4025-0220				2,550.00
	Land Rental	2,550.00	2,550.00	
01-4025-0220		2,550.00	10,094.99	
01-4025-0220 01-4077-0000	Land Rental	2,550.00		
01-4025-0220 01-4077-0000	Land Rental Tile Drains		10,094.99	
01-4025-0220 01-4077-0000	Land Rental Tile Drains Sub-Total	1,697,859.43	1,552,967.61	1,343,263.14
01-4025-0220 01-4077-0000	Land Rental Tile Drains		10,094.99	1,343,263.14
01-4025-0220 01-4077-0000	Land Rental Tile Drains Sub-Total	1,697,859.43	1,552,967.61	1,343,263.14
01-4025-0220 01-4077-0000	Land Rental Tile Drains Sub-Total Expenditures	1,697,859.43 3,841,338.00	1,552,967.61	1,343,263.14 3,737,681.00
01-4025-0220 01-4077-0000	Land Rental Tile Drains Sub-Total	1,697,859.43	1,552,967.61	1,343,263,14 3,737,681.00 -2,394,417.86

	Taxation		
01-4001-0100	Residential	·	 1,657,491.12
01-4001-0200	Farmland		152,043.41
01-4001-0300	Commercial and Industrial		318,182.25
01-4001-0500	Managed Forests		8,432.93
01-4001-0600	Pipeline		7,329.45
			2,143,479.16



Corporation of the Township of Melancthon 2017 Operating and Capital ROAD BUDGET

*2016 Actual-Unaudited

*2016 Actual-U	Inaudited			
Acct. No.	ADMINISTRATION	2016Budget	2016 Actual	2017 Budget
01-5005-1010	Salaries and Wages	380,000.00	350,535.92	385,000.00
	Receiver General, EHT & WSIB	40,000.00	40,318.82	42,000.00
01-5005-1020	Benefits	23,500.00	19,467.18	25,000.00
01-5005-1060	Short Term Disability	20,000,00	13,1,5,1,1,5	
01-5005-1064	RRSP/OMERS	18,750.00	16,344.87	26,500.00
		200.00	8.00	100.00
01-5005-1070	Mileage			
01-5005-1022	Staff Training and Seminars	2,000.00	1,266.21	2,000.00
01-5005-2010	Office Supplies	150.00	63.81	150.00
01-5005-2035	Computer Program Updates	250.00	138.85	250.00
01-5005-2036	GPS Monthly Tracking Expense	6,000.00	5,329.56	6,000.00
01-5005-2112	Asset Management Plan	23,000.00	19,782.05	10,000.00
01-5005-3105	Bridge Study/Inspections			16,800.00
	MISCELLANEOUS			
01-5005-2070	Utilities - Heat	10,000.00	7,022.65	10,000.00
		6,600.00	7,516.36	8,000.00
01-5005-2080	Utilities - Hydro			1
01-5005-2090	Telephone	1,100.00	1,058.83	1,150.00
01-5005-2091	Mobile Phone	2,100.00	715.29	1,000.00
01-5005-2040	Advertising	750.00	71.23	750.00
01-5005-2041	Signs	7,500.00	3,602.88	5,000.00
01-5005-2110	Insurance	45,000.00	45,000.00	46,000.00
01-5005-2100	Legal Fees	2,000.00		2,000.00
01-5005-2050	Audit	15,000.00		15,000.00
01-5005-2060	Memberships	100.00	90.40	100.00
01-5005-2165	Materials and Supplies/Stock	8,800.00	5,457.14	8,800.00
			8,690.03	6,500.00
01-5005-2166	Coveralls	6,200.00	0,080.03	
01-5005-3000	Services and Rents/Misc	5,000.00		5,000.00
01-5005-2103	Health & Safety Services	4,900.00		5,000.00
01-5005-2104	Health & Safety Materials/Supplies	2,000.00	1,298.46	3,000.00
01-5005-2162	Building Maintenance	10,000.00	6,228.41	10,000.00_
01-5005-2163	Sand Dome Repairs	10,000.00	5,362.18	
01-5005-2185	Oil Separator Clean Out	2,000.00	203.52	2,000.00
01-5005-2192	Shop Tools	2,500.00	896.15	2,000.00
01-5005-2190	Miscellaneous	1,100.00	547.16	1,000.00
01-5005-2190	Contract Work	2,500.00	077.10	2,000.00
01-3003-3000	Contract Work	2,500.00		2,000.00
				-
	EQUIPMENT			
01-5005-2150	Fuel - Clear	46,000.00	40,581.20	45,000.00
01-5005-2155	Fuel - Dyed	30,000.00	23,355.05	30,000.00
	Fuel - Patrol Trucks	10,000.00	8,624.87	10,000.00
01-5005-2180	Oil - Trucks and Grader	3,500.00	2,863.02	4,000.00
01-5005-3071	TR#1 - Repairs	2,500.00	1,184.44	2,500.00
01-5005-3071	TR#2 - Repairs	15,000.00	9,397.77	15,000.00
01-5005-3074	<u> </u>	10,000.00	7,427.52	10,000.00
	TR#3 - Repairs			1
01-5005-3075	TR#4 - Repairs	20,000.00	5,495.38	15,000.00
01-5005-3076	TR#5 - Repairs	20,000.00	11,517.55	20,000.00
01-5005-3077	TR#6 - Repairs	10,000.00	601.77	1,000.00
01-5005-3069	TR#7 - Repairs	2,500.00	4,444.90	5,000.00
01-5005-3079	GR#1 - CAT - Repairs	10,000.00	10,217.86	15,000.00
01-5005-3080	GR#2 - Repairs	15,000.00	5,063.09	15,000.00
01-5005-3081	Backhoe Repairs	5,000.00	442.29	2,500.00
01-5005-3081	Loader	2,500.00	400.43	2,500.00
		2,300.00	400.43	2,500.00
01-5005-3083	John Deere Mower	4 000 00	000 54	4 000 00
01-5005-3084	Power Washer	1,000.00	980.51	1,000.00
01-5005-3085	Chain Saw	1,500.00	38.13	1,000.00
01-5005-3086	Roadside Mower	1,000.00	6.25	1,000.00
01-5005-3500	Winter Control-Plow & Wing Parts	15,000.00	11,856.43	15,000.00
01-5005-7015	John Deere Grader Loan	32,650.00	32,649.36	32,650.00
01-5005-2191	Radio and Truck Licenses	10,000.00	9,358.00	10,000.00
01-5005-2191	Radio Maintenance & Repair	1,200.00	547.47	1,000.00
	Water Tank	1,200.00	J41.41_	1,000.00
01-5005-3060	IVValer rank			
	<u> </u>			

	NEW EQUIPMENT			
01-5005-7010	Vehicles	15,000.00	37,404.17	11 000 00
	Generator			11,000.00
	Trailer for lawn mower			3,000.00
	BRIDGES, CULVERTS, DRAINS		 	
01-5005-3100	Bridge & Culvert Mtce	14,000.00	3,050.16	20,000.00
01-3003-3100	Bridge #15	14,000.00	0,000.10	218,000.00
01-5005-3175	Culvert 2027	6,250.00	4,343.28	
01-5005-3149	Culvert 2010	200,000.00	102,089.54	
01-5005-3164	Culvert 2020	125,000.00	125,433.39	
01-5005-3168	Culvert 2024	125,000.00	127,360.73	
01-5005-3850	Drain Maintenance	50,000.00	41,727.57	40,000.00
01-5005-7021	Culvert 2027 Loan Payment	40,908.00	40,907.52	40,908.00
	ROADSIDE			
01-5005-3215	Grass Mowing & Weed Spryaing	5,000.00	2,154.30	5,000.00
01-5005-3205	Brushing - Tree Trim and Removal	12,000.00	9,142.03	12,000.00
01-5005-3206	Ditching	15,000.00	1,221.12	15,000.00
01-5005-3322		1,000.00	1,175.33	
01-5005-3610	Guide Posts & Hardware	500.00		500.00
01-5005-3315	Shoulder Maintenance	3,000.00	2,453.07	3,000.00
	LIAB DE TOD		<u> </u>	
04 5005 0000	HARDTOP			
01-5005-3300	Hardtop Resurfacing	5,000,00	4,294.20	5,000.00
01-5005-3310	Cold Mix, Patching & Spray Patching	5,000.00 200,000.00	178,905.33	200,000.00
01-5005-3305 01-5005-3320	Patch Paving	5,000.00	4,294.27	5,000.00
01-5005-3320	Sweeping, Flushing, Cleaning	3,000.00	7,234.27	5,000.00
	LOOSETOP		 	
01-5005-3400	Loosetop Maintenance	- 		
01-5005-3700	Clearview Townline	1,200.00	721.38	1,000.00
01-5005-3750	Townlines	1,000.00	623.49	1,000.00
01-5005-3210	Gravel Resurfacing	250,000.00	230,160.88	250,000.00
01-5005-3410	Dust Layer (Calcium Chloride)	100,000.00	92,357.78	125,000.00
	WINTER CONTROL			
01-5005-3510	Sand and Salt	40,000.00	44,698.70	50,000.00
01-5005-3505	Snow Removal/Blowing	5,000.00	661.44	5,000.00
	ROAD IMPROVEMENTS		7 004 07	
01-5005-3910	Clean Up 7th Line SW		7,801.67	E0 000 00
	Horning's Mills shoulders		 	50,000.00
01-5005-5030	REPLACEMENT EQUIPMENT RESER	VE		
04.5005.5155		405 000 00	40,000,40	140,000,00
01-5005-2160	New Building	125,000.00	16,220.18	110,000.00
	TOTAL BUDGET	2,248,208.00	1,813,270.78	2,072,658.00

THE CORPORATION OF THE TOWNSHIP OF MELANCTHON

BY-LAW NUMBER -2017

BEING A BY-LAW TO ADOPT THE ESTIMATES OF ALL SUMS REQUIRED DURING THE YEAR AND TO STRIKE THE RATES OF TAXATION, AND TO FURTHER PROVIDE FOR PENALTY AND INTEREST IN DEFAULT OF PAYMENT THEREOF FOR THE YEAR 2017

WHEREAS the Council of the Corporation of the Township of Melancthon has, in accordance with the Municipal Act, 2001, S.O. 2001, Chapter 25 as amended, Section 290 (1)(2)(3)(4) and Section 291 (1) considered the estimates of the Municipality for the year 2017;

AND WHEREAS pursuant to the County of Dufferin By-law No. 2017-04, the County of Dufferin passed a by-law to set tax ratios and to set tax rate reductions for prescribed property subclasses for county purposes and lower tier municipal purposes;

AND WHEREAS the tax ratios established the relative amount of taxation to be borne by each property class and have been set for the taxation year 2017 under the authority of the Municipal Act, 2001, S.O. 2001, Chapter 25 Section 308(5) as follows:

Residential Class is	1.0000
Multi-residential Class is	2.6802
Commercial Class is	1.2200
Industrial Class is	2.1984
Pipeline Class is	0.8421
Farmland Class is	0.2500
Managed Forest Class is	0.2500

AND WHEREAS all property assessment rolls on which the 2017 taxes are to be levied have been returned and revised pursuant to the provision of the Assessment Act, R.S.O. 1990, c.A.31, as amended (hereinafter referred to as the "Assessment Act") subject to appeals at present before the Assessment Review Board, the Ontario Municipal Board and the District Court;

AND WHEREAS the "Residential/Farm Assessment", "Multi-Residential Assessment", "Commercial Assessment", "Industrial Assessment", "Pipeline Assessment", "Farmlands Assessment" and "Managed Forests Assessment" and the applicable subclasses pursuant to Section 7 of the Assessment Act, as amended by the Fair Municipal Finance Act, 1997 and Regulations thereto, have been determined on the basis of the aforementioned property assessment rolls and are detailed on Schedule "A" attached hereto and which forms part hereof;

AND WHEREAS pursuant to the County of Dufferin By-law 2017-05, the County of Dufferin passed a by-law to adopt the estimates of all sums required by the County of Dufferin for the purposes of the County and to provide a Levy on area municipalities;

AND WHEREAS the Province of Ontario has regulated all education tax rates for 2017; and hereby adopted to be applied against the whole of the assessment for real property as set out in Schedule D

AND WHEREAS the Council agrees that it has not applied any changes to the 2017 Annual Estimates that would arise from the new PSAB 3150 Accounting rules for the 2017 year.

NOW THEREFORE the Council of the Corporation of the Township of Melancthon enacts as follows:

THAT the Corporation of the Township of Melancthon adopt the sum of Two Million, Three Hundred and Ninety-Four Thousand, Four Hundred and Eighteen Dollars (\$2,394,418) as detailed in Schedule "B" attached hereto and which forms part hereof as the estimate of the Property Tax Levy required during the year 2017 for general purposes of the Corporation of the Township of Melancthon.

THAT for the year 2017 in the Corporation of the Township of Melancthon, the lower tier municipalities shall levy upon Residential/Farm Assessment, Multi-Residential Assessment, Commercial Assessment, Industrial Assessment, Pipeline Assessment, Farmlands Assessment and Managed Forests Assessment and applicable subclasses the tax rates for Township purposes set out in Schedule "C" attached hereto and which forms part hereof.

THAT tax rates for the Township of Melancthon portion of the tax bill are hereby adopted to be applied against the whole of the assessment for real property as set out in Schedule "D".

1. The taxes shall become due and payable in two instalments:

First installment due and payable on August 24, 2017 Second installment due and payable on November 23, 2017

- 2. A penalty at the rate of 1.25% will be charged on the first day of default and on the first day of each calendar month thereafter in which default continues, on all unpaid instalments of taxes until December 31, 2017 after which the interest rates of 1.25% per month for each month or fraction thereof will be added.
- 3. The Collector may mail or cause the same to be mailed to the resident or place of business of such person indicated on the last revised assessment roll, a written or printed notice specifying the amount of taxes payable.
- 4. The taxes are payable at the Municipal Office, 157101 Highway 10, Melancthon, Ontario, L9V 2E6, the Toronto Dominion Bank or Credit Union in Shelburne, the CIBC or Credit Union in Dundalk, by mail, or by telephone/internet banking.
- 5. In the event that the Provincial OPTA system does not have the necessary data to provide on Commercial, Industrial and Multi-Residential tax capping to permit processing tax bills for these installment dates, then the Treasurer is authorized to process tax bills for the remaining tax classes and to establish later tax installment due date(s) for the Commercial, Industrial and Multi-Residential tax classes on a separate bill.

This by-law shal	ll come into force and	l effect upon the d	ate of the fina	I reading thereof.
------------------	------------------------	---------------------	-----------------	--------------------

By-law read a first and second time this 16th	day of March, 2017.
By-law read a third time and passed this 16 th	day of March, 2017.
Mayor	Clerk

BY-LAW NO. _6_- 2017

TOWNSHIP OF MELANCTHON

PETERVALE FARMS DRAINAGE WORKS

A By-law to provide for a drainage works in the Township of Melancthon in the County of Dufferin.

Whereas the requisite number of owners have petitioned the Council of the Township of Melancthon in the County of Dufferin in accordance with the provisions of the **Drainage Act**, R.S.O. 1990, requesting that the following lands be drained by a Drainage Works:

Pt. Lots 266, 267 & 268, Concession 2 S.W.

And whereas the Council of the Township of Melancthon in the County of Dufferin has procured a report made by R. J. Burnside & Associates Limited. The report is attached hereto and forms part of this by-law.

And whereas the estimated total cost of constructing the drainage works is \$120,000.00.

And whereas the Council of the Township of Melancthon pursuant to the Drainage Act, R.S.O. 1990, enact as follows:

- The report dated December 21, 2016 and attached hereto as Schedule A is hereby adopted and the drainage works as therein indicated and set forth is hereby authorized and shall be completed in accordance therewith.
- 2. The Corporation of the Township of Melancthon may borrow on the credit of the Corporation the amount of \$120,000.00 being the amount necessary for construction of the drainage works.
- 3. A special rate shall be levied upon the lands as set forth in the assessment schedule included in Schedule A to the by-law to be collected in the same manner as other taxes are collected.
- 4. All assessments are payable in the same year as the assessment is imposed.
- 5. This by-law comes into force on the passing thereof and may be cited as the "Petervale Farms Drainage Works By-law".

First Reading	Fcb2,201	7	
Second Reading	[Eb2,2017		4
Provisionally adopted	this 2 day of _	Rb'_	_, 2017
		Mayor:	
		CAO/Clerk:	Jenses Holme
Third Reading			
Enacted this	day of	, 2017	
		Mayor:	
		CAO/Clerk:	

Connect to Innovate Program Innovation, Science and Economic Development Canada

March 06, 2017



Connect To Innovate ****

Packet-Tel Corp.

Township of Melancthon

March 06, 2017



Who is Packet-tel Corp.?

- Packet-tel Corp. (o/a "Packetworks") is a privately owned,
 Waterloo, Ontario based telecom company
- Packetworks recently celebrated it's 20'th year in business.
- Recognized by CRTC as non-dominant Canadian Carrier
- ISP, CLEC (Competitive Local Exchange Carrier (2017)) and an Exempt BDU (Broadcast Distribution Undertaking)
- Interconnected with national and regional carriers at 151 Front St., Toronto



Packetworks Management Team

- John Fagg, Chairman/CEO. Founder and Owner of Packet-tel Corp. Extensive business experience through operating, managing in a wide variety of industries.
- Mike Andrews, President. Telecom career spanning 40 years of operational and management experience in telephone, cable TV, Internet and utility construction industries. Former President and CEO of publicly traded Amtelecom Income Fund and municipally owned Bruce Telecom.
- Sorin Chiorean, CTO. Over 25 years of experience designing and managing complex IT networks and supervising diverse technical support teams. Masters in Computer Science and is Cisco Certified Network Professional (CCNP).
- Graham Brown, Director Sales. Experienced in launching new products and product extensions into highly competitive markets. Prior to joining Packet-Tel, ran several business units in pharmaceutical companies including Bristol Myers Squibb and Baxter and lead the Ontario Sales Team at Trudell Medical Marketing Ltd.
- Robert Musty, Director Community Development (Contract).



The Packetworks Model

- We have been designing, building and managing wireless and fibre based broadband networks since 1996.
- Packetworks utilizes wholesale connections from larger carriers to tie business based clients to our managed network.
- Packetworks strategically connects to existing 3'rd party POPs (Bell, Rogers, EastLink, etc.) and builds out from there with our own fibre optic and wireless distribution (last mile) networks to provide fast, reliable and cost-effective managed networking solutions to business customers throughout Southwestern Ontario.



Packetworks Fibre Networks

- First significant fibre optic network completed through a Public-Private-Partnership effort with the Town of Tillsonburg under Ontario Rural Connections Broadband Program in 2012.
 - Town of Tillsonburg provided interest free loan repayable over 10 years
 - Network serves the business and industrial areas of Tillsonburg with Gbit high speed Internet and voice services
 - Backbone extension completed in 2015 to nearby rural community of Courtland
 - Now over 30 km of fibre network deployed in the region
- Packetworks also has business focused fibre networks in Region of Waterloo, Grey County
- Client base includes public and private sector such as Hospitals, School Boards, Municipalities, small and medium businesses as well including some multi-national clients.



Packetworks' Fibre to the Home (FTTH)

- Provided limited residential Internet service via wireless up until 2015
- Began diversifying into last mile residential fibre deployments in 2015-16
- 1 Gbps capacity networks providing high transmission rates and scalable capacity with no data caps
- Packetworks is much more than an ISP.
 - Full CLEC (finalizing early 2017) providing local and LD voice services
 - Exempt Broadcast Distribution Undertaking (BDU) providing IPTV services
- Packetworks can offer full triple play of Internet, telephone and television services to our FTTH clients.
- Gbit Fibre optic networks ensure quality & reliability with scalability for the future
- Working to improve connectivity in rural Ontario Packetworks has or is deploying FTTH in five rural communities with many more in planning stages



Packetworks' Current Residential FTTH Deployments

Community	Homes Passed	Year of Initial Deployment
Alma	240	2015
Embro	260	2016
Pike Lake	400 (150 year round)	2016
Maryhill	240	2016
Wallenstein	60	2016
Dutton	560	2017 (planned)
Bloomingdale	90	2017 (planned)
Winterbourne	124	2017 (planned)



Packetworks Residential Offering

Service	Description	Monthly Rate (plus HST)
Internet Services 15	15 Mbps Symmetrical no data caps	\$59.95
Internet Services 100	100 Mbps Symmetrical no data caps	\$99.95
Standard Voice Service	Includes Local service, MRS, V911, standard feature set of Call Forward, Voice Mail, Per Call Name and Number Blocking and includes Canada-US calling with exclusions including Alaska, NWT, Yukon, Nunavut, and the SILEC territories.	\$24.95 Per Line
Skinny Basic TV	25 TV channels incl. CDN and US Networks, Weather and 45 Radio Stations	\$24.95
Standard Basic TV	Includes Skinny Basic services plus Sports Packs 1 & 2	\$39.99
Internet & Voice Bundle 15	15 Mbps plus Voice	\$79.95
Internet & TV Bundle 15	Includes 15 Mbps Internet and Standard Basic TV	\$99.94
Internet, Voice and TV Bundle 15	Includes 15 Mbps Internet, Voice and Standard Basic TV	\$119.94
Internet & Voice Bundle 100	100 Mbps Internet plus Voice	\$109.95
Internet & TV Bundle 100	Includes 100 Mbps Internet and Standard Basic TV	\$139.94
Internet, Voice and TV Bundle 100	Includes 100 Mbps Internet, Voice and Standard Basic TV	\$149.94
TV Theme Packs	Standard Theme Packs	\$4.95 ea.
	Premium Theme Packs	\$7.95 ea.
	Movie Theme Packs	\$16.95 ea.



Connect To Innovate Program

- \$500 Million allocated to provide high-speed backbone to designated unserved communities across Canada (and to a lesser extent last-mile but only in northern and remote areas).
- 2 eligible communities identified within Melancthon
 - Corbetton (30 homes approx.)
 - Melancthon (5-10 homes approx.)
- Backbone Build Costs for Fibre from Packetworks' Experience
 - \$38K-\$42K per km buried
 - \$15K-\$18K per km aerial





12.4 Km backbone from Dundalk - \$0.52M

12.5 Km backbone from Shelburne - \$0.53M



Packetworks and Last-Mile

- CTI program does not extend to last-mile in the Melancthon communities
- Packetworks would consider completing last-mile FTTH builds in the communities if backbone funding is secured.
 - Extremely low density challenging business case
- Build Costs for Last Mile Fibre from Packetworks' Experience
 - \$3,200-\$3,500 per home buried
 - \$1,800-\$2,500 per home aerial
- Melancthon and Corbetton FTTH Build approx. \$175,000



Looking for Support from Melancthon

- Letter of support
- Impact Statement What impact would high speed fibre network have on quality of life, economic impact, business growth, development, home based business growth and overall impact on the Township
- Identify prospective anchor institutions and other Municipal assets available in the designated community or along path
- Consideration of in-kind contribution such as long term land lease for location of POP shelter/cabinet and standby power where applicable



Connect to Innovate Program Questions?

Contacts

Mike Andrews

mandrews@packetworks.net

519-579-4507 ext. 102

Robert Musty

rmusty@packetworks.net

226-973-4159

March 06, 2017



Denise Holmes

From:

Heather Boston hboston@mulmur.ca

Sent:

Wednesday, March 01, 2017 11:32 AM

To:

Denise Holmes (dholmes@melancthontownship.ca)

Cc:

Bert Tupling (tuplingfarms@sympatico.ca); Chester Tupling

(chester.tupling@premierequipment.ca)

Subject:

NDCC Board of Management Amended Mandate

Attachments:

NDCC Board of Management Mandate.docx

Hi Denise,

Our Council reviewed and amended the mandate and I have attached it for your Council's review.

Thanks

Heather Boston, CPA, CA, CGA, BComm | Treasurer Township of Mulmur | 758070 2nd Line East | Mulmur, Ontario L9V 0G8 Phone 705-466-3341 ext. 233 | Fax 705-466-2922 | hboston@mulmur.ca



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From: hboston@mulmur.ca

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NEW/ OB #2 MAR 16 2017

NDCC Board of Management Mandate

 Establish a Board made up of eight members: a member of Council from both Melancthon and Mulmur, Bert and Chester Tupling and four additional members from Mulmur, Melancthon and/or a surrounding Township

The board will:

- Meet a minimum of eight times a year
- Monitor and find cost savings for the arena
- Create annual budget that will be approved by both Melancthon and Mulmur and stay within this budget (the committee will use the 2017 approved budget)
- Optimize all rentals to increase revenue
- · Review monthly expenditures
- Defer Capital expenditures as needed
- Create a five-year capital plan with the goal of updating the facility so that it is a more usable space
- Make the NDCC a community hub for both Townships
- Create and run fundraising events
- The Board will review and determine the usage of the arena by each Township based on the 2016-17 season and suggested the proportion of contribution to be made by each Township prior to the passing of the following year's budget

Mulmur Township will:

- Create a separate bank account so that individuals can make donations directly to the NDCC Reserves for capital projects
- Provide bookkeeping and secretarial duties for a fee
- Provide, supervise and pay arena staff
- Ensure Arena Manager will be available to attend meetings to provide updates



in rural Ontario;

Corporation of the Township of Melancthon

Moved by	
Seconded by	Date, 2017
Be it resolved that:	
	and Housing has proposed a change to the ory five year septic tank pump out and records
AND WHEREAS that same change requires Nothinge;	Municipalities to administer and enforce this
AND WHEREAS the change document fai Municipalities;	ils to identify the administrative costs to
AND WHEREAS the change document fails to offset these downloaded costs;	identify any transfer of Provincial funding to
AND WHEREAS many Municipalities alread especially near waterways;	y have by-laws to regulate septic systems
AND WHEREAS the majority of homeowners path whether regulated to or not;	pump out their septic tanks on a regular basis
AND WHEREAS there are many more importa	nt issues on which to spend taxpayer's money
than "enhancing" maintenance on existing fu	
AND WHEREAS adequate legislation already	exists to correct malfunctioning systems;

AND WHEREAS Premier Wynne stated on Monday, January 30th, 2017 at the ROMA Conference that the Province recognizes that "one size fits all" solutions do not always work

NOW THEREFORE BE IT RESOLVED THAT the Township of Melancthon request the Honourable Bill Mauro, Minister of Municipal Affairs to rescind proposed Building Code change B-08-09-03;

AND FURTHER THAT a copy of this resolution be sent to the Honourable Kathleen Wynne, Premier of Ontario; the Honourable Bill Mauro, Minister of Municipal Affairs, Mr. Patrick Brown, Leader of the Progressive Conservative Party; Ms. Andrea Horwath, Leader of the New Democratic Party and Sylvia Jones, MPP, Dufferin-Caledon;

AND FURTHER THAT a copy of this resolution also be sent to the Association of Municipalities of Ontario and the Rural Ontario Municipal Association and Municipalities in Dufferin County for consideration.

Recorded Vote	<u>Yea</u>	<u>Nay</u>
Mayor Darren White		
Deputy Mayor Janice Elliott		
Councillor Dave Besley		
Councillor Wayne Hannon		111
Councillor James C. Webster		

Carried/Lost:		
	MAYOR	