DRAFT

May 2022

Volume 4

Environmental Assessment of the Township of North Dundas Waste Management Plan

GOLDER
MEMBER OF WSP

TOWNSHIP OF
North Dundas

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Draft Report
May 2022

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636 St. Lawrence Street, P.O. Box 489
Winchester, Ontario, K0C 2K0
TEL: 613.774.2105 FAX: 613.774.5699

TECHNICAL BULLETIN #3 | November 2021

What is the ToR?

The Terms of Reference (ToR) sets out the framework for the planning and decision-making process to be followed during the preparation of the EA.

What is the EA?

The EA is a study that assesses the potential environmental effects (positive or negative) of this Waste Management Plan.

Terms of Reference (ToR)

The ToR for the EA of the Township's Waste Management Plan was approved by the Minister of Environment, Conservation and Parks in July 2020.

EA Process Tips

The Environmental Assessment Process requires the study to consider an option to "Do Nothing" along with the list of options being considered in the study.

Environmental Assessment

An Environmental Assessment (EA) of the Township of North Dundas (Township) Waste Management Plan (WMP) is being undertaken under the provincial *Environmental Assessment Act*.

In the previous technical bulletin (February 2021), the Township identified the preferred 'Alternative To' as Landfill Site Expansion.

Boyne Road Landfill Site Expansion was determined to be the most preferred overall by comparison of the environmental components. No public feedback was received in disagreement with the proposed alternative of Landfill Site Expansion. No feedback was received on the relative importance of environmental components. Public feedback received was only in regard to general Project questions and consultation methods.

The next steps of the EA Study are to: identify 'Alternative Methods' of expanding the landfill, compare the 'Alternative Methods', identify mitigation measures and determine net environmental effects of the preferred method of landfill expansion. This technical bulletin describes and requests public feedback about the identified preferred 'Alternative To' (landfill expansion), the proposed 'Alternative Methods' of landfill expansion and the comparison of those methods.

What's the difference between 'Alternatives To' and 'Alternative Methods'?

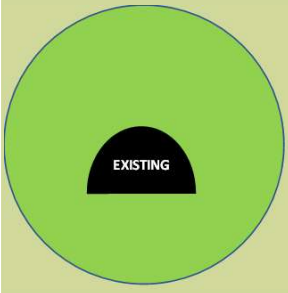
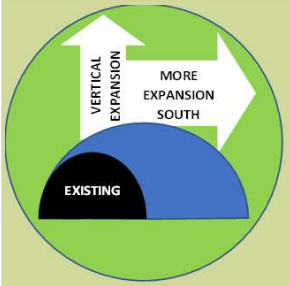
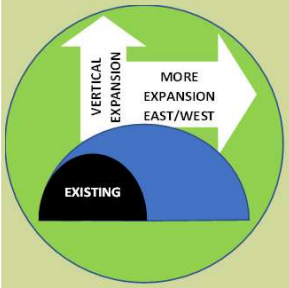
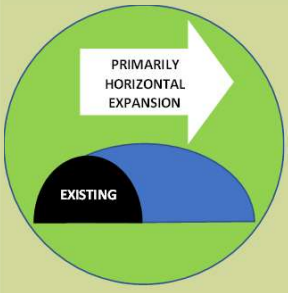
'Alternatives To' are functionally different ways of dealing with the problem or opportunity (which in this case is to provide environmentally safe, long-term waste management).

'Alternatives Methods' are different ways of doing the same activity. 'Alternative Methods' are different ways of doing the preferred 'Alternative To'.

Examples of 'Alternative Methods' for landfill expansion:
horizontal expansion, vertical expansion, or a combination of vertical and horizontal expansion.

636 St. Lawrence Street, P.O. Box 489
Winchester, Ontario, K0C 2K0
TEL: 613.774.2105 FAX: 613.774.5699

'Alternative Methods' of Landfill Site Expansion

Considerations	Existing Landfill	Alternative 1	Alternative 2	Alternative 3
Description		 Combined Vertical and Horizontal Expansion with Larger East and West Buffers	 Combined Vertical and Horizontal Expansion with Larger South Buffer	 Primarily Horizontal Expansion
Site/Property Area (ha)	89.03	89.03	89.03	89.03
Total Waste Footprint Area (ha)	8.1	12.0	12.6	11.9
Peak Waste Elevation (metres above sea level)	87.75	89.75	89.75	89.75
Height of Peak above Average Ground Elevation (m)	12.5	15	15	15
Horizontal Expansion Area Bottom of Waste Elevation (metres above sea level)	-	75.75	75.75	75.75
Volume of Excavation (m^3)	-	12,650	14,150	12,100
Total Additional Airspace (m^3)	-	450,000	458,300	450,000
Expansion Area Existing Property Boundary Buffer Distances (m)	-	South: 44 East: 100 West: 50	South: 52 East: 71 West: 34	South: 57 East: 100 West: 30

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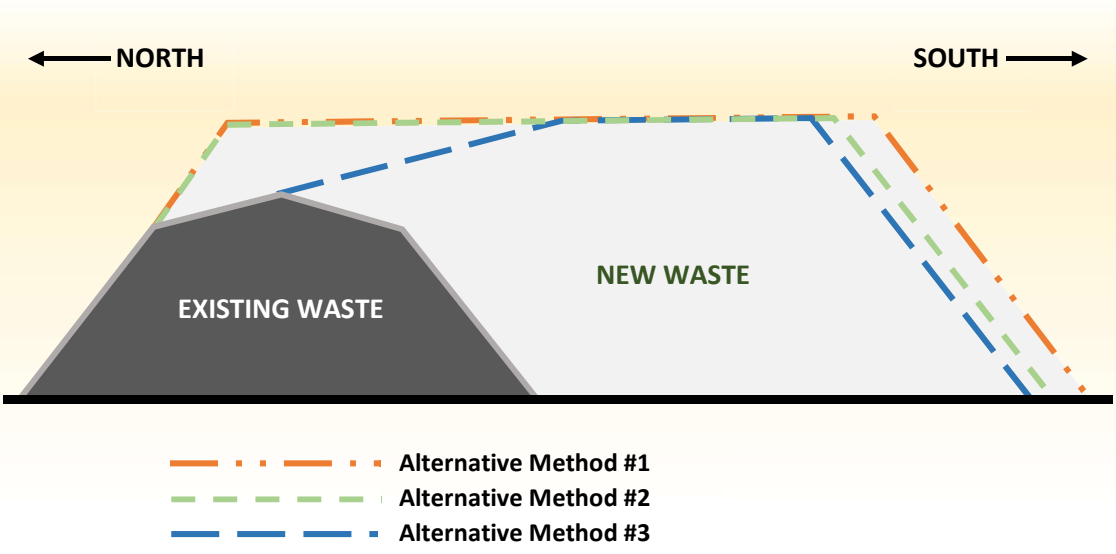
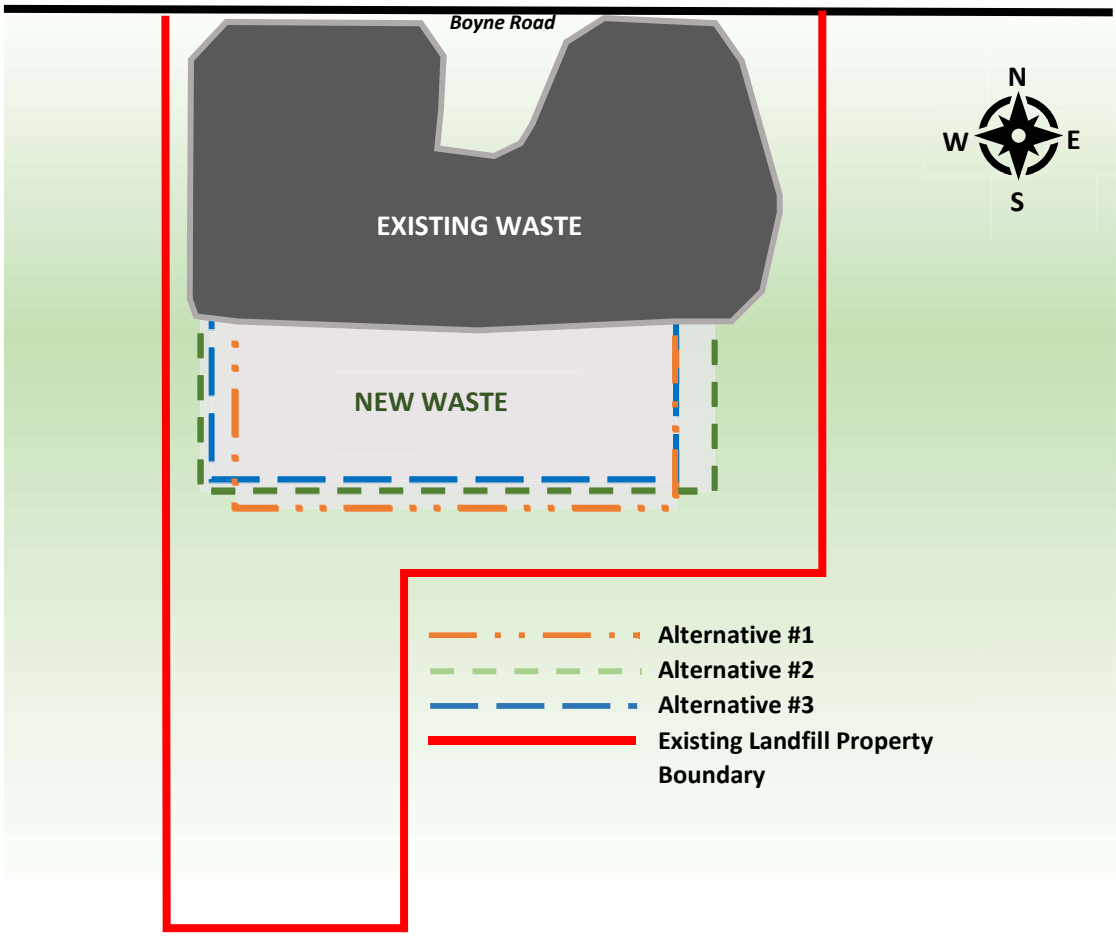
Winchester, Ontario, K0C 2K0
TEL: 613.774.2105 FAX: 613.774.5699

Comparison of 'Alternative Methods' of Site Expansion

Cross Section and Plan View of Methods





What is a Buffer Area?

A Buffer Area is the part of the landfill site property not used for waste disposal, usually between the perimeter of the disposal area and the landfill property boundary.

Increased buffer distances help reduce the potential for waste placed on-site from having unacceptable impacts outside the site property. Increased buffer distances can help:

- Improve Visual Aesthetics.
- Reduce potential for off-site impacts (dust, odour, groundwater, and noise).

Did You Know?

The purpose of this EA is to provide environmentally safe and cost-effective long-term waste management for the Township of North Dundas for a 25-year planning period.

* Figures presented here are schematic, not to scale.

TOWNSHIP OF
North Dundas

636 St. Lawrence Street, P.O. Box 489
Winchester, Ontario, K0C 2K0
TEL: 613.774.2105 FAX: 613.774.5699

Preliminary Results of Comparison of 'Alternative Methods'

Environmental Component	Evaluation Criterion/Criteria	Evaluation of 3 Alternative Methods		
		Alt. #1	Alt. #2	Alt.#3
Atmosphere	▪ Potential effects on air quality (including dust, odour, GHG) ▪ Potential effects on noise	✓	✓	✓
Geology and Hydrogeology	▪ Potential effects on groundwater resources	✓	✓	✓
Surface Water	▪ Potential effects on surface water resources	✓	✗	✓
Biology	▪ Potential effects on natural environment features (aquatic and terrestrial ecosystems)	—	✗	✓
Agriculture	▪ Potential effects on existing agriculture	✓	✓	✓
Land Use	▪ Potential effects on existing land use	✓	✓	✓
Cultural Heritage	▪ Potential effects on archaeology ▪ Potential effects on cultural environment (cultural heritage landscapes, cultural heritage resources)	✓	✓	✓
Socio-economic	▪ Potential site operational effects on sensitive off-site receptors (i.e., noise, litter, air quality) ▪ Relative potential changes in employment, impacts to local commercial businesses and capital/operational costs ▪ Potential changes in visibility of the landfill	✓	✓	✓
Transportation	▪ Potential effect on road network	✓	✓	✓
Design and Operations	▪ Potential effects on capital/operational costs	✓	✗	✓

Alternative #3 was identified by the Township and Project Team as the preferred 'Alternative Method' for landfill expansion. Public opinion regarding the 'Alternative Methods' and their comparison is being sought via this technical bulletin.

GOLDER
MEMBER OF WSP

636 St. Lawrence Street, P.O. Box 489
Winchester, Ontario, K0C 2K0
TEL: 613.774.2105 FAX: 613.774.5699

What are 'Monitoring and Contingency Plans'?

Monitoring plans are how the Township will comply with the commitments made during this assessment such that the expected environmental effects are verified and meet regulations. (e.g., annually monitor groundwater and surface water quality).

Contingency plans are what the Township will do to manage any adverse environmental impacts discovered by the monitoring programs.

Next Steps?

- Collect feedback from public and stakeholders on the proposed 'Alternative Methods' and the identified preferred 'Alternative Method'
- Determine net effects on the environment of the proposed 'Alternative Method' of landfill expansion including a comparison to 'Do Nothing'
- Develop mitigation measures for the preferred 'Alternative Method'
- Consider climate change impacts of the preferred 'Alternative Method'
- Assess cumulative impacts of the preferred 'Alternative Method'
- Develop Monitoring and Contingency Plans
- Prepare the Environmental Assessment Study Report

What is a cumulative impact assessment?

A cumulative impact assessment reviews the potential qualitative effects of the proposed landfill expansion in combination with past, present, and reasonably foreseeable future activities, where possible.

Climate change includes:

Potential impact of climate change on the landfill expansion (i.e., climate change adaptation) and its potential impact on climate change (i.e., climate change mitigation).

Next Consultation Activities:

Open House #3: planned in-person event to present the proposed EA and inform the public about the identification of the preferred 'Alternative Method', as well as inform them of the results of the existing conditions studies and the predicted effects on the environment, and the commitments the Township is making to mitigate any adverse effects.

Questions, Feedback and Comments?

We encourage you to let us know your thoughts by sending your comments to dfroats@northdundas.com and/or using the attached comment form by December 8, 2021.

Or contact us at 613-774-2105 ext. 235 for any accessibility requirements.

If you would like to be notified of any project updates, please let us know and provide either an email address or your mailing address.

Environmental Assessment of the Township of North Dundas
Waste Management Plan
Technical Bulletin #3 Feedback Form

Thank you for taking the time to provide us with your comments. This comment sheet should be completed after reading Technical Bulletin #3.

If you would like to be added to our project mailing list, please include the appropriate contact information below.

___ YES, BY MAIL ___ YES, BY EMAIL ___ NO

NAME: _____ EMAIL: _____

ADDRESS: _____ PHONE NUMBER: _____

1. Please provide any general comments regarding this Environmental Assessment Process.

_____

_____

_____

2. Three 'Alternative Methods' of landfill expansion were developed and are described within Technical Bulletin #3. Do you agree with or have any comments on the 'Alternative Methods'?

_____

_____

3. Various components of the environment have been used to assess potential effects of the 'Alternative Methods' considered for the landfill expansion. The following table lists proposed natural, social, economic / financial and technical components of the environment being considered for this EA.

   Please tell us how these rank in importance to you. Is there any aspect we may have missed?

_____

_____

_____

_____

Components to Assess and Compare 'Alternative Methods':

Environmental Component	Sub-Component	Importance		
		Very Important	Important	Less Important
Atmosphere	Air Quality /Odour/Greenhouse Gas			
	Noise			
Geology and Hydrogeology	Groundwater Quality			
Surface Water	Surface Water Quality			
	Surface Water Quantity			
Biology	Aquatic Ecosystems			
	Terrestrial Ecosystems			
Agriculture	-			
Cultural Heritage	Archaeology			
	Cultural Heritage Landscapes			
	Built Heritage Resources			
Land Use	Current and Planned Future Land Uses			
Socio-economic	Local Economy			
	Residents and Community			
	Visual			
Transportation	Traffic			
Design and Operations	Financial			

4. Do you agree with the preliminary identification of the preferred 'Alternative Method' for this waste management plan as Alternative 3, primarily horizontal expansion on the south side of the existing footprint? If not, why not?

_____

_____

_____

_____

_____

_____

All personal information included in a submission – such as name, address, email, and telephone number – is collected, maintained and disclosed by the Ministry of the Environment, Conservation and Parks for the purpose of transparency and consultation. The information is collected under the authority of the *Environmental Assessment Act* or is collected and maintained for the purpose of creating a record that is available to the general public as described in s.37 of the *Freedom of Information and Protection of Privacy Act*. Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential. For more information, please contact the Project Officer at 437-244-9402 or the Ministry of the Environment Conservation and Park's Freedom of Information and Privacy Coordinator at 416-819-5148.

Veuillez noter qu'il vous est possible de nous communiquer vos commentaires ou vos questions sur le projet en français en les adressant à Yannick Marcerou au 613-592-9600 ext. 3318 ou par courriel à yannick_marcerou@golder.com.

You can provide your comments on the Environmental Assessment Technical Bulletin #3 or any questions you may have about this project by email, mail or fax to:

Doug Froats
Director of Waste Management
Township of North Dundas

636 St. Lawrence Street, P.O. Box 489
Winchester, ON K0C 2K0

Telephone: 613-774-2105 ext. 235
Fax: 613-774-5699

E-mail: dfroats@northdundas.com

or

Trish Edmond, P.Eng.
EA Project Manager
Golder Associates Ltd.

1931 Robertson Road
Ottawa, ON K2H 5B7

Telephone: 613-592-9600

E-mail: trish_edmond@golder.com

Appendix H2 Technical Bulletin #3 Advertisements and Notices

From: McDonald, Robert
Sent: November 24, 2021 2:15 PM
Cc: Doug Froats; Edmond, Trish; jordan.hughes@ontario.ca; Marcerou, Yannick
Subject: Township of North Dundas EA - Technical Bulletin #3 on 'Alternative Methods" and Feedback Form
Attachments: Technical Bulletin #3 'Alternative Methods' 2021 Nov.pdf; Technical Bulletin #3 Feedback Form 2021 Nov.pdf

Hello,

The Township of North Dundas (Township) is undergoing an environmental assessment (EA) for the Township's Waste Management Plan under the *Environmental Assessment Act*. The EA Study will evaluate long-term solid waste management options for a 25-year planning period.

The Township identified the preferred 'Alternative To' in the previous technical bulletin (February 2021) as Boyne Road Landfill Site Expansion. As part of the EA Study, the Township will: evaluate 'Alternative Methods' of landfill site expansion, compare the 'Alternative Methods' and identify the preferred 'Alternative Method', identify mitigation measures, and determine net environmental effects.

The Township has prepared a new Technical Bulletin (#3) presenting the different 'Alternative Methods' of landfill expansion, the environmental components and corresponding evaluation criteria considered, as well as the preliminary results of this evaluation (see attached).

This Technical Bulletin #3 has been published on the project website for review by the Government Review Team stakeholders and a feedback form is also available to provide comments to the EA Study team. Both files can be accessed at https://www.northdundas.com/municipal-services/environmental-assessments. A hardcopy or an electronic copy of these documents on a USB drive can be made available upon request.

Please do not hesitate to contact us if you have any questions.

Regards,

Robert McDonald (M.A.Sc., E.I.T.)
Geo-environmental Consultant

GOLDER
MEMBER OF WSP

Golder Associates Ltd.
1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7
T: +1 613 592 9600 | **C:** +1 613 407 7626 | **golder.com**
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Environmental Assessment of the Township of North Dundas Waste Management Plan Waste Diversion Technical Bulletin #3 — 'Alternative Methods'

TOWNSHIP OF
North Dundas

NOVEMBER 22, 2021

TOWNSHIP OF North Dundas

GOLDER
MEMBER OF WSP

Environmental Assessment of the Township of North Dundas
Waste Management Plan
Technical Bulletin #3 – 'Alternative Methods'

The Township of North Dundas (Township) is undergoing an environmental assessment (EA) for the Township's Waste Management Plan under the *Environmental Assessment Act*. The EA Study will evaluate long-term solid waste management options for a 25-year planning period.

The Township identified the preferred 'Alternative To' in the previous technical bulletin (February 2021) as Boyne Road Landfill Site Expansion. As part of the EA Study, the Township will: evaluate 'Alternative Methods' of landfill site expansion, compare the 'Alternative Methods' and identify the preferred 'Alternative Method', identify mitigation measures, and determine net environmental effects.

The Township has prepared a new Technical Bulletin (#3) presenting the different 'Alternative Methods' of landfill expansion, the environmental components and corresponding evaluation criteria considered, as well as the preliminary results of this evaluation.

This Technical Bulletin #3 has been published on the project website for review by the public and a feedback form is also available to provide comments to the EA Study team. Both files can be accessed at https://www.northdundas.com/municipal-services/environmental-assessments. A hardcopy or an electronic copy of these documents on a USB drive can be made available upon request.

If you would like to be added to our project mailing list or have project-related questions, please contact:

Doug Froats
Director of Waste Management
Township of North Dundas
636 St. Lawrence Street, P.O. Box 489
Winchester, ON K0C 2K0

Telephone: 613-774-2105 ext. 235
Fax: 613-774-5699

E-mail: dfroats@northdundas.com

Trish Edmond, P.Eng.
EA Project Manager
Golder Associates Ltd.
1931 Robertson Road
Ottawa, ON K2H 5B7

Telephone: 613-592-9600 ext. 3246

E-mail: trish_edmond@golder.com

If you require any accommodations for a disability to review the 'Alternative Methods' Technical Bulletin #3, contact Doug Froats at 613-774-2105 ext. 235 to make the appropriate arrangements.

Veuillez noter qu'il vous est possible de nous communiquer vos commentaires ou vos questions sur le projet en français en les adressant à Yannick Marcerou au 613-592-9600 ext. 3318 ou par courriel à yannick_marcerou@golder.com.

Appendix H3 Comments from the GRT

Ministry of Heritage, Sport, Tourism and Culture Industries

Programs and Services Branch
401 Bay Street, Suite 1700
Toronto, ON M7A 0A7
Tel: 416-660-1027

Ministère des Industries du Patrimoine, du Sport, du Tourisme et de la Culture

Direction des programmes et des services
401, rue Bay, Bureau 1700
Toronto, ON M7A 0A7
Tél: 416-660-1027

Ontario

December 3, 2021 EMAIL ONLY

Robert McDonald (M.A.Sc., E.I.T.)
Geo-environmental Consultant
Golder Associates Ltd.
Robert_McDonald@golder.com

MHSTCI File : 0006336
Proponent : Township of North Dundas
Subject : Technical Bulletin #3, Environmental Assessment for the Township of North Dundas Waste Management Plan
Location : Boyne Road Landfill Site, south of Boyne Road, Township of North Dundas, United Counties of Stormont, Dundas and Glengarry

Dear Robert McDonald:

Thank you for providing the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) with Technical Bulletin #3 for the above-referenced project. MHSTCI's interest in this Environmental Assessment (EA) project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- Archaeological resources, including land and marine;
- Built heritage resources, including bridges and monuments; and,
- Cultural heritage landscapes.

Under the EA process, the proponent is required to determine a project's potential impact on cultural heritage resources. The comments and recommendations below are for an Individual Environmental Assessment (EA) project.

Project Summary
An EA of the Township of North Dundas (Township) Waste Management Plan (WMP) is being undertaken under the provincial *Environmental Assessment Act*. As part of the EA Study, the Township will: evaluate 'Alternatives To' the Waste Management Plan, identify the preferred WMP, characterize the existing environmental conditions, identify and develop 'Alternative Methods' of waste management, compare the 'Alternative Methods', identify mitigation measures and determine net environmental effects.

MHSTCI Comments
This Technical Bulletin outlined in a general way the 'Alternative Methods' of expanding the landfill, compared the 'Alternative Methods', identified mitigation measures and determined net environmental effects of the preferred method. Our comments focus on these aspects of the EA.

Environmental Components
MHSTCI recommends that the Environmental Component "Cultural Heritage" is changed to "Cultural Heritage Resources," and that the Evaluation Criterion/Criteria be subdivided into

"Archaeological Resources," "Built Heritage Resources" and "Cultural Heritage Landscapes" for consistency with terminology used in provincial legislation and policy.

Evaluation Criterion/Criteria

This Bulletin does not identify what evaluation methods were used to determine the alternative method's impact on cultural heritage resources. The Terms of Reference (ToR) for this EA committed to undertaking a Stage 1 Archaeological Assessment and completing MHSTCI's checklist Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes. Additionally, the ToR committed to communicating the planned schedule, studies and results of the Stage 1 Archaeological Assessment with the Huron-Wendat Nation. Please advise what technical studies have been undertaken to determine the potential impact on cultural heritage resources, and whether the schedule, studies, and results have been shared with the Huron-Wendat Nation.

Thank you for consulting MHSTCI on this project and please continue to do so throughout the EA process. If you have any questions or require clarification, do not hesitate to contact me.

Sincerely,

Jack Mallon
Heritage Planner
Jack.mallon@ontario.ca

Copied to:
Doug Froats, Director of Waste Management, Township of North Dundas - dfroats@northdundas.com
Laura Hatcher, Heritage Planner, MHSTCI – laura.e.hatcher@ontario.ca

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MHSTCI makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MHSTCI be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MHSTCI if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the *Ontario Heritage Act* and the *Standards and Guidelines for Consultant Archaeologists*.

If human remains are encountered, all activities must cease immediately and the local police as well as the Registrar, Burials of the Ministry of Government and Consumer Services (416-326-8800) must be contacted. In situations where human remains are associated with archaeological resources, MHSTCI should also be notified to ensure that the site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

From: McDonald, Robert
Sent: January 18, 2022 12:59 PM
To: Mallon, Jack (MHSTCI)
Cc: Hatcher, Laura (MHSTCI); dfroats@northdundas.com; Edmond, Trish; Marcerou, Yannick
Subject: RE: MHSTCI Letter - Township of North Dundas EA - Technical Bulletin #3 on 'Alternative Methods"
Attachments: L01_MHSTCI TB#3 Response_Jan 17 2022.pdf

Good afternoon,

Please see attached the Township of North Dundas and Golder's response to the letter you provided on December 3, 2021.

Do not hesitate to contact me if further clarification is required.

Regards,

Robert McDonald (M.A.Sc., E.I.T.)
Geo-environmental Consultant

GOLDER
MEMBER OF WSP

Golder Associates Ltd.
1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7
T: +1 613 592 9600 | **C:** +1 613 407 7626 | **golder.com**
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From: Mallon, Jack (MHSTCI) <Jack.Mallon@ontario.ca>
Sent: December 3, 2021 3:19 PM
To: McDonald, Robert <Robert_McDonald@golder.com>
Cc: Hatcher, Laura (MHSTCI) <Laura.E.Hatcher@ontario.ca>; dfroats@northdundas.com
Subject: MHSTCI Letter - Township of North Dundas EA - Technical Bulletin #3 on 'Alternative Methods"

EXTERNAL EMAIL

Good afternoon,

Please see attached MHSTCI's response to the Township of North Dundas EA - Technical Bulletin #3.

Do not hesitate to contact me if you have any questions.

Regards,

Jack Mallon
Heritage Planner

Heritage Planning Unit | Programs and Services Branch

Heritage, Tourism and Culture Division

Ministry of Heritage, Sport, Tourism and Culture Industries

January 17, 2022 Project No. 1649396

Jack Mallon, Heritage Planner
Ministry of Heritage, Sport, Tourism and Culture Industries
Program and Services Branch
401 Bay Street, Suite 1700
Toronto, ON
M7A 0A7

TOWNSHIP OF NORTH DUNDAS
RESPONSE TO TECHNICAL BULLETIN #3, ENVIRONMENTAL ASSESSMENT FOR THE TOWNSHIP OF NORTH DUNDAS WASTE MANAGEMENT PLAN
MHSTCI FILE: 0006336

Dear Mr. Mallon,

Thank you for providing a response to Technical Bulletin #3, which summarized the 'Alternative Methods' for landfill expansion as part of the Environmental Assessment for the Township of North Dundas Waste Management Plan. This letter has been prepared to respond to and provide clarification regarding the comments provided in your December 3, 2021 response letter on Technical Bulletin #3.

We acknowledge that Technical Bulletin #3 made reference to the Environmental Component as "Cultural Heritage" when it should have been referred to as "Cultural Heritage Resources". All future material distributed as part of this Environmental Assessment (including the Environmental Assessment Study Report) will refer to this Environmental Component as "Cultural Heritage Resources" with evaluation criterion/criteria subdivided as "Archaeological Resources", "Built Heritage Resources", and "Cultural Heritage Landscapes" for consistency with terminology used in provincial legislation and policy.

Technical Bulletin #3 was prepared to solicit feedback from the public and Indigenous Communities, in addition to being distributed to members of the Government Review Team (GRT). In consideration of this audience, Technical Bulletin #3 was prepared to be understandable to a non-technical audience who may not be familiar with the Environmental Assessment process and Terms of Reference Commitments. As such, Technical Bulletin #3 did not detail the technical studies undertaken to determine the impact of the three alternative methods on cultural heritage resources.

To provide clarity, the Township of North Dundas has completed the Stage 1 Archaeological Assessment, which was submitted to the Ministry of Heritage, Sport, Tourism, and Culture Industries (MHSTCI) on November 18, 2021. The MHSTCI Checklist, which was committed to in the Terms of Reference, has been

completed and will be included with the Environmental Assessment Study Report. All technical studies undertaken to determine the potential impact on cultural heritage resources will be described in the Environmental Assessment Study Report, which will be shared with Indigenous Communities, the public, and the GRT.
In addition, the Stage 1 Archaeological Assessment study, results and plans for future studies have been shared with the Huron-Wendat Nation, along with the other two Indigenous Communities consulted as part of this Environmental Assessment.

Thank you for continuing to provide feedback on this project. If you have any questions on the responses provided in this letter, or require further clarification, please do not hesitate to contact the undersigned.

Thank you,

Golder Associates Ltd.

Robert McDonald, M.A.Sc., E.I.T.
Geo-Environmental Consultant

Trish Edmond, M.E.Sc., P.Eng.
Principal, Geo-Environmental Engineer

RPM/PAS/PLE/sg
https://golderassociates.sharepoint.com/sites/117046/project files/5 technical work/8 - consultation/8.15 technical bulletin #3 - 'alternative methods' ea/feedback/l01_mhstci tb#3 response_jan 17 2022.docx

CC: Doug Froats, Director of Waste Management, Township of North Dundas
Laura Hatcher, Heritage Planner, MHSTCI

APPENDIX I

Open House #3 (In-person and Virtual)

Appendix I1 Advertisements and Notices
Appendix I2 Open House #3 Materials and Feedback Form
Appendix I3 Comments from the GRT

Appendix I1 Advertisements and Notices

March 24 Page 03.qxp_Layout 2 2022-03-23 11:49 AM Page 1

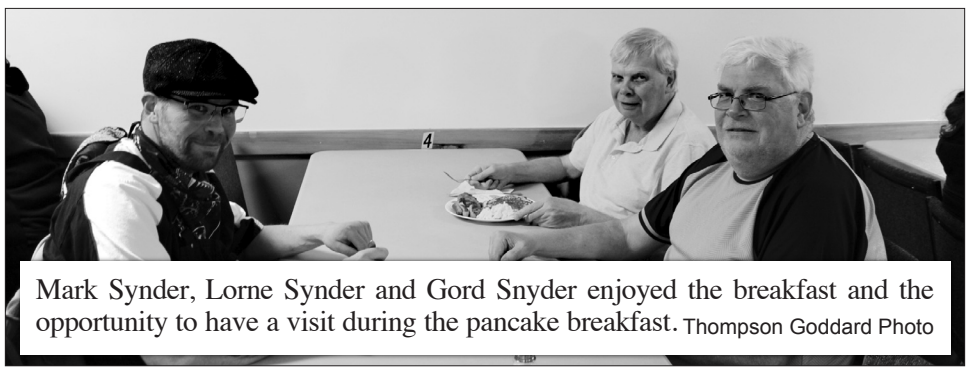
Great day in Williamsburg

Carolyn Thompson Goddard
Record Staff

WILLIAMSBURG – Lodge 349 of the Independent Order of Odd Fellows in Williamsburg held their pancake breakfast in the morning and an evening dance March 19 in their hall, decorated with a nod to the Emerald Isle and St. Patrick.

Organizers commented how the delicious breakfast fed 116 people including pancakes, eggs, sausage, toast, bacon, and a selection of beverages. The evening featured Soundtastic Productions, people were able to dance and visit with friends.

Upcoming events include a Euchre Tournament on April 9 in support of Help Our Homeless, and on April 23 a breakfast in the morning and dance in the evening. The community favourite Surf and Turf dinner is planned for May 7, with limited tickets available.



Mark Synder, Lorne Synder and Gord Snyder enjoyed the breakfast and the opportunity to have a visit during the pancake breakfast. Thompson Goddard Photo

Railway crossings

Continued from the front

Affected landowners have been receiving letters in the mail from the Canadian Pacific Railway focusing on their own railway crossing and what needs to be done, as well as what it will cost to do it in order to meet the TSB's new regulations.

A spokesperson for CP Rail said, CP Rail is reaching out to all private crossing owners to inform them about new regulations and standards that Transport Canada has come up with.

Whenever a railway runs through private property, a farm for example, and the farmer has to cross the railway tracks to get to the other side of his or her farm, that crossing becomes their responsibility.

Private homeowners are responsible for the crossings, so any upgrades that are coming, they will be responsible for that.

The letters have not been well received by farmers and landowners who have had railway crossings on their property for years and normally have CP Railway look after them. Often a farmer is the only person who will need to use a crossing to go from one field to another.

Estella Rose, the former deputy mayor of North Dundas lives in Mountain and received one of the many letters outlining her obligations to look after her railway crossing.

Rose said, "They want $1,000 to $2,500 for liability insurance, but we already have farm insurance." The letter suggested that her crossing would need new signage to the tune of $700 and she would need an assessment every year of the crossing at a cost of $275.

"They should be paying us. It is an inconvenience for us.

We would only go across to plant the seed and maybe once to spray it and then combine it," she said.

"They have always maintained it. That was the idea when they got the right of way. They used to put up fences to keep cattle in. If you called and told them your gate was not up to par, they would drop off a new gate. They always had a machine to cut the brush to be able to see down the track. Are they going to cut that too?"

In an Ontario Federation of Agriculture, (OFA), member webinar on Farm Safety and Rail Crossings on June 17, 2021, the OFA presenter gave out information about what constitutes a private and farm rail crossing.

The issue discussed was that farm railway crossings were perhaps being designated private when they were actually a farm crossing. The difference being that CP Railway would be responsible for any upkeep on a farm railway crossing but not on a private crossing.

Landowners have to find some kind of record designating who looks after the crossing on farmland and unfortunately some were placed on farms before adequate records were kept.

In their presentation there was also mention of some grant funding that was available for landowners.

A common misconception is that all railway crossings are owned and operated by the railway when in reality this is not always true. Sometimes a crossing will be the responsibility of a private homeowner, farmer, municipality, or railway company.

The goals of the regulations are to:

Improve crossing safety;

Provide consistent safety standards for new and existing public and private grade crossings;

Clarify and define the roles and responsibilities of all parties involved with improving the safety of public and private grade crossings;

Promote collaboration between railways and road authorities;

Implement results-based regulations for a consistent level of safety for all types of crossings.

Transport Canada's website stated: "New crossings must meet the regulations and standards immediately. If upgrading or changing an existing crossing, it must meet the regulations and standards immediately. Information on any changes must be shared between parties. Other existing private and public crossings must be inspected and upgraded, or closed, if required to meet the new regulations and standards by Nov. 27, 2021. Landowners with private crossings are also impacted by this regulation and should review Transport Canada's website for more information."

There is some funding available to help with the cost if a private railway crossing is on your property and has to be upgraded but it is not guaranteed.

Another option is to find another way to get over the tracks on a property and then close the existing crossing.

You can apply for funding through the Rail Safety Improvement Program. The deadline for applications to the program is August 1.

For more information, search the web for the Rail Safety Improvement Program or go to https://tc.canada.ca/en/programs/funding-programs/rail-safety-improvement-program for more information.

NOTICE OF PUBLIC MEETING
PROPOSED CHANGES TO BUILDING PERMIT FEES

TAKE NOTICE that the Department of Planning, Building and Enforcement will hold a public meeting on **April 19th, 2022 at 6:30 p.m.** in the Council Chambers at 636 St. Lawrence St, Winchester, in order to consider proposed changes to the building permit fees imposed under Section 7 of the *Building Code Act*.

PURPOSE AND EFFECT – The Township of North Dundas has conducted a review of the building permit fees under Section 7(b) of the *Building Code Act*. The purpose is to ensure that the permit fees better reflect the services provided. The effect is to increase select existing fees and to introduce new fees for permits and services that have traditionally not had fees. Information will be provided at the meeting on the amount of the proposed fees and the rationale for changing and imposing the fees.

ANY PERSON may attend the public meeting and/or make written or verbal representation either in support of or in opposition to the proposed fees. Any written comments are to be submitted prior to **April 14th, 2022** and addressed to the following person:

Nancy Johnston
Director of Corporate Services/Clerk
636 St. Lawrence Street, P.O. Box 489
Winchester, ON, K0C 2K0
njohnston@northdundas.com

Such written submissions will be circulated to Council in advance of the public meeting.

ADDITIONAL INFORMATION will be provided at the meeting on the estimated costs of enforcing and administering the *Building Code Act*, the amount of the proposed fees and the rationale for changing and imposing the fees. More information regarding the current fee schedule and the proposed changes to the Building Permit Fee schedule can be found on our website - www.northdundas.com.

You can attend the meeting in person in Council Chambers at the Township office at 636 St. Lawrence St, Winchester without preregistration. You can also watch the meeting live on the **Township's YouTube channel**: **https://www.youtube.com/channel/UCEHN4uflBAU-2WZCe2LcyOQ**. To participate in the meeting virtually, you **must preregister online**: https://us06web.zoom.us/webinar/register/WN_fnSRM2tcTX6rz99hcqYTlA.

The Township of North Dundas' Chief Building Official will be available at the meeting to discuss the proposed fee changes and answer questions and receive comments.

For further information, please contact Jacob Forget, Chief Building Official at 613-774-2105 x243 or by emailing jforget@northdundas.com.

Dated at the Township of North Dundas this 16th day of March, 2022.

Nancy Johnston, MBA
Director of Corporate Services/Clerk
Township of North Dundas
636 St. Lawrence Street, P.O. Box 489
Winchester, ON, K0C 2K0
P: 613-774-2105 x226
F: 613-774-5699

TOWNSHIP OF North Dundas

GOLDER MEMBER OF WSP

Environmental Assessment of the Township of North Dundas Waste Management Plan
Open House #3 – Proposed Environmental Assessment

The Township of North Dundas (Township) is undergoing an environmental assessment (EA) for the Township's Waste Management Plan under the *Environmental Assessment Act*. The EA Study will evaluate long-term solid waste management options for a 25-year planning period.

The Township wants community feedback on the proposed EA and is hosting a third open house (both in-person and virtually) as follows:

April 7, 2022
Council Chambers in the Township Office
636 St. Lawrence Street, Winchester
6:30 p.m. – 8:00 p.m.

For participants who would like to participate in the open house virtually, here is the link to register for the Zoom Webinar (https://us06web.zoom.us/webinar/register/WN_yKnD2Lq7Qa2N1uk2blGHug).

The presentation will start at 6:30 p.m., followed by a question period.

At this open house, the public will learn about the results and conclusions from the EA, including the confirmed identification of the preferred 'Alternative Method' of landfill expansion, the results of the existing conditions studies, the predicted effects on the environment, and the commitments the Township is making to mitigate any potential adverse effects.

The material for this open house will be published on the Township website on April 7, 2022 for review by the public and a feedback form will also be available to provide comments to the EA Study team. Both files will be accessible at https://www.northdundas.com/municipal-services/environmental-assessments and hardcopies will be available at the Township Office. A hardcopy, or an electronic copy of these documents on a USB drive, can be made available upon request following the open house.

If you would like to be added to our project mailing list or have project-related questions, please contact:

Doug Froats
Director of Waste Management
Township of North Dundas
636 St. Lawrence Street, P.O. Box 489
Winchester, ON K0C 2K0
Telephone: 613-774-2105 ext. 235
Fax: 613-774-5699
E-mail: dfroats@northdundas.com

Trish Edmond, P.Eng.
EA Project Manager
Golder Associates Ltd.
1931 Robertson Road
Ottawa, ON K2H 5B7
Telephone: 613-592-9600 ext. 3246
E-mail: trish_edmond@golder.com

If you require any accommodations for a disability to review the material of open house #3, contact Doug Froats at 613-774-2105 ext. 235 to make the appropriate arrangements.

Veuillez noter qu'il vous est possible de nous communiquer vos commentaires ou vos questions sur le projet en français en les adressant à Yannick Marcerou au 613-592-9600 ext. 3318 ou par courriel à yannick_marcerou@golder.com.

From:	Marcerou, Yannick
Cc:	Doug Froats; Edmond, Trish; jordan.hughes@ontario.ca; Marcerou, Yannick; McDonald, Robert
Bcc:	1648253, Township of North Dundas Environmental Assessment; "bonnie.norton@cdsbeo.on.ca"; "poulil@ecolecatholique.ca"; "marc.paquette@cepeo.on.ca"; "kcasselman@sdgcounties.ca"; "proumeliotis@eohu.ca"; wesley.plant@ec.gc.ca; "winchesterfire@northdundas.com"; jocelyn.beatty@ontario.ca; "Robert.Greene@ontario.ca"; "mary.perry@ontario.ca"; omerdin.omer@ontario.ca; "jennifer.paetz@ontario.ca"; "Lee, Scott (MNRF)"; "andrea.pastori@ontario.ca"; "priya.tandon@ontario.ca"; "grant.karwacki@ontario.ca"; "Michael.elms@ontario.ca"; "kristen.wagner@ontario.ca"; karen.handford@ontario.ca; "Evers, Andrew (MECP)"; "McKay, Candice (MECP)"; "karla.barboza@ontario.ca"; jack.mallon@ontario.ca; "yvon.larochelle@yow.ca"; "club.pres@rvss.ca"; "jholland@nation.on.ca"; njohnston@northdundas.com; "peter.bosch@ucdsb.on.ca"; Lisa.VanDeligt@rrca.on.ca; "cpol@northdundas.com"
Subject:	Township of North Dundas Waste EA - Open House #3
Date:	March 28, 2022 3:34:00 PM
Attachments:	1648253_North Dundas EA Open House 3_7Apr22.pdf

Hello,

The Township of North Dundas (Township) is undergoing an environmental assessment (EA) for the Township's Waste Management Plan under the *Environmental Assessment Act*. The EA Study will evaluate long-term solid waste management options for a 25-year planning period.

The Township wants community feedback on the proposed EA and is hosting a third open house (both in-person and virtually) on **April 7, 2022** at Council Chambers in the Township Office (636 St. Lawrence Street, Winchester). There will be a presentation starting **at 6:30pm**, followed by a question period until 8:00pm.

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At this open house, the public will learn about the results and conclusions from the EA, including the confirmed identification of the preferred 'Alternative Method' of landfill expansion, the results of the existing conditions studies, the predicted effects on the environment, and the commitments the Township is making to mitigate any potential adverse effects.

We welcome your participation at the Open House. Please do not hesitate to contact us if you have any questions.

Regards,

Yannick Marcerou, *he/him*
Environmental/Waste Engineer, M.Eng., P.Eng.

T+ 1 613-592-9600 #3318

WSP GOLDER

1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7

wsp.com | golder.com

WSP and Golder have joined together to form the premier environmental consultancy in the industry. Together we are 14,000 strong, future ready and delivering innovative solutions to our clients around the globe.

March 31 Page 09.qxp_Layout 2 2022-03-30 12:35 PM Page 1

North Dundas council closes in on development charges

Joseph Morin
Record Staff

WINCHESTER – Growth in any and every community comes at a cost.

Apart from the social consequences, which more often than not are positive, growth creates an increased need for improved, upgraded or new infrastructure.

Some of those extra community expenses are dealt with by having development charges.

North Dundas has a deadline in mind to continue to ask for development charges. Every five years the charges must be reviewed and approved. If a council misses the five-year deadline, they are not allowed to charge development charges.

These charges help with the cost of adding new sewer and water lines to an existing community to allow for new growth. Roads may have to be upgraded to deal with increased traffic as a community's population increases or fire services, for example, may have to expand to consider the additional homes.

In November 2021, a Development Charges Background Study was conducted by Watson & Associates Economists Ltd. for North Dundas.

The information in the study became what the council would be charging for development charges in January of 2022. Based on the study, the development charges for a single detached home would be $7,450. Since the study was completed and accepted by council, a few new issues have come up in the municipality namely that there are roads that belong in the growth category and should be funded by development charges, as opposed to being paid for by general taxation.

If the council agrees to include the proposed road upgrades; to growth related roads into the existing total development charges, the new amount would jump to $12,704.

If less of the cost of roads was attributed to growth and more to regular road maintenance, more of the cost would be funded through taxation. The result would be a development charge of $10,964.

Either way the charges represent a significant increase.

Mayor Tony Fraser said, "At the end of the day, the development charge has to be paid on residential development. There is a need for development charges so, (those growth-related costs) are not assigned to the taxpayer. If there is added pressure put on by municipal services through development, that added pressure needs to be paid for somehow."

The council held a public meeting about the proposed changes to the current development charges before its regular council meeting on March 22.

The non-residential development charges would not change.

The deadline for written responses to the municipality about the addition to the existing development charges is April 5.

The council will be considering the amendment to their existing development charges at their regular council meeting on April 19.

Fundraising for a good cause

Carolyn Thompson Goddard
Record Staff

CHESTERVILLE – The Kayaking for Cancer fundraising euchre tournament was held at the Royal Canadian Legion Branch 434 in Chesterville on March 26. Organized by Sharon Erdelyi, Fred Bortolussi and Lisa Bortolussi, the in-person event had 52 people participating.

From the left: Sharon Erdelyi, Fred Bortolussi and Lisa Bortolussi. Thompson Goddard Photo

"We are very pleased with the turnout today" commented Lisa, she explained that Kevin Dionne began the Kayaking for Cancer organization in 2000. Fred mentioned that over three-quarters of a million dollars has been raised by the organization to date.

Kayaking for Cancer participants kayak from Kingston to Ottawa via the Rideau Canal over a period of up to seven days. Further information can be found at either the organizations website, Facebook page or by calling Fred Bortolussi at 613-292-6740.

North Stormont adds French to 2022 election forms

Sandy Casselman
Record Staff

BERWICK – The township of North Stormont will offer forms in both French and English during this year's municipal election in October.

"The *Municipal Elections Act* still requires that unless we pass a bylaw, that all forms are to be strictly in English," clerk Mary McCuaig said. "The last election, I did not find a bylaw that was passed, and I don't think that French forms were used in the last election, but I find it a bit odd. They should be used; there's a good Francophone population in this municipality and we should have French forms."

McCuaig made the recommendation during the March 22 council meeting. North Stormont politicians agreed. No further comments were made.

TOWNSHIP OF North Dundas

SALE OF LAND BY PUBLIC TENDER
THE CORPORATION OF THE TOWNSHIP OF NORTH DUNDAS

Take Notice that tenders are invited for the purchase of the land described below and will be received until 3:00 p.m. local time on April 13, 2022, at the Township of North Dundas Municipal Office, 636 St. Lawrence Street, Winchester, Ontario.

Description of Land:
Roll No. 05 11 016 003 28500 0000; 13210 River Road, Chesterville; PIN 66146-0066 (LT);
File No. 19-14; **Minimum Tender Amount: $53,075.04.**

Except as follows, the municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers. This sale is governed by the *Municipal Act, 2001* and the Municipal Tax Sales Rules made under that Act. A full copy of the tax sale advertisement and further information about this matter is available on line at **www.northdundas.com** or you may contact Michelle McDonell, Tax Collector, The Corporation of the Township of North Dundas, 636 St. Lawrence Street, P.O. Box 489, Winchester, ON K0C 2K0, Phone: 613-774-2105 Ext. 221, info@northdundas.com.

EMPLOYMENT OPPORTUNITY AT

THE Agromart GROUP®

Harvex Agromart Inc.

SPRING LABOURER

Job Description: General yard labour and other duties as assigned.

Skills/Requirements: Physical work and will be required to work extended hours and weekends. Some openings for afternoon/weekend work. Farm background and/or equipment experience (Skid Steer, Forklift) is an asset.

Start Date: March, 2022

End Date: June 30, 2022 and could possibly be extended

Please forward your resumé in confidence to:

Harvex Agromart Inc.
1572 County Road 12, c.p. 160
Crysler, Ontario K0A 1R0

or

Email: slafranc@harvex.com
Fax: 613-987-5254
Phone: 613-987-5243

TOWNSHIP OF North Dundas

GOLDER MEMBER OF WSP

Environmental Assessment of the Township of North Dundas Waste Management Plan
Open House #3 – Proposed Environmental Assessment

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If you would like to be added to our project mailing list or have project-related questions, please contact:

Doug Froats
Director of Waste Management
Township of North Dundas
636 St. Lawrence Street, P.O. Box 489
Winchester, ON K0C 2K0
Telephone: 613-774-2105 ext. 235
Fax: 613-774-5699
E-mail: dfroats@northdundas.com

Trish Edmond, P.Eng.
EA Project Manager
Golder Associates Ltd.
1931 Robertson Road
Ottawa, ON K2H 5B7
Telephone: 613-592-9600 ext. 3246
E-mail: trish_edmond@golder.com

If you require any accommodations for a disability to review the material of open house #3, contact Doug Froats at 613-774-2105 ext. 235 to make the appropriate arrangements.

Veuillez noter qu'il vous est possible de nous communiquer vos commentaires ou vos questions sur le projet en français en les adressant à Yannick Marcerou au 613-592-9600 ext. 3318 ou par courriel à yannick_marcerou@golder.com.

From: Lisa Devereaux <ldevereaux@northdundas.com>
Sent: March 21, 2022 12:50 PM
To: [redacted] Calvin Pol <cpol@northdundas.com>; Doug Froats <dfroats@northdundas.com>
Subject: Environmental Assessment of the Township of North Dundas Waste Management Plan Open House

Good Afternoon,

Please find attached a notification of our upcoming Open House regarding the Environmental Assessment of the Township of North Dundas Waste Management Plan.

Kindly,

Lisa Devereaux
Administrative Assistant – Recreation & Culture
Township of North Dundas
636 St. Lawrence Street, P.O. Box 489, Winchester, ON K0C 2K0
P: (613) 774-2105 x 222
F: (613) 774-5699
E: ldevereaux@northdundas.com
W: www.northdundas.com

This communication is intended only for the addressee indicated above. It may contain information that is privileged, confidential, or otherwise protected from disclosure under *The Municipal Freedom of Information and Protection of Privacy Act*. Any review, copying, dissemination, or use of its contents by persons other than the addressee is strictly prohibited. If you have received this in error, please notify us immediately.

North Dundas
31 mars, à 09 h 00 ·

On April 7, 2022 from 6:30 - 8:00pm there will be an Open House to discuss the Waste Management Plan Proposed Environmental Assessment.

-- You can attend the open house in person in Council Chambers at the Township office at 636 St. Lawrence St, Winchester without preregistration.
-- The open house will not be LIVE streamed.
-- To participate in the open house virtually, you must preregister here:
https://us06web.zoom.us/.../reg.../WN_yKnD2Lq7Qa2N1uk2bIGHug

To read more details, visit:
https://www.northdundas.com/.../open-house-3-april-7...

TOWNSHIP OF
North Dundas

Appendix I2 Open House #3 Materials and Feedback Form

TOWNSHIP OF North Dundas

GOLDER
MEMBER OF WSP

Environmental Assessment of the Township of North Dundas Waste Management Plan

OPEN HOUSE #3

April 7, 2022

CONTENT

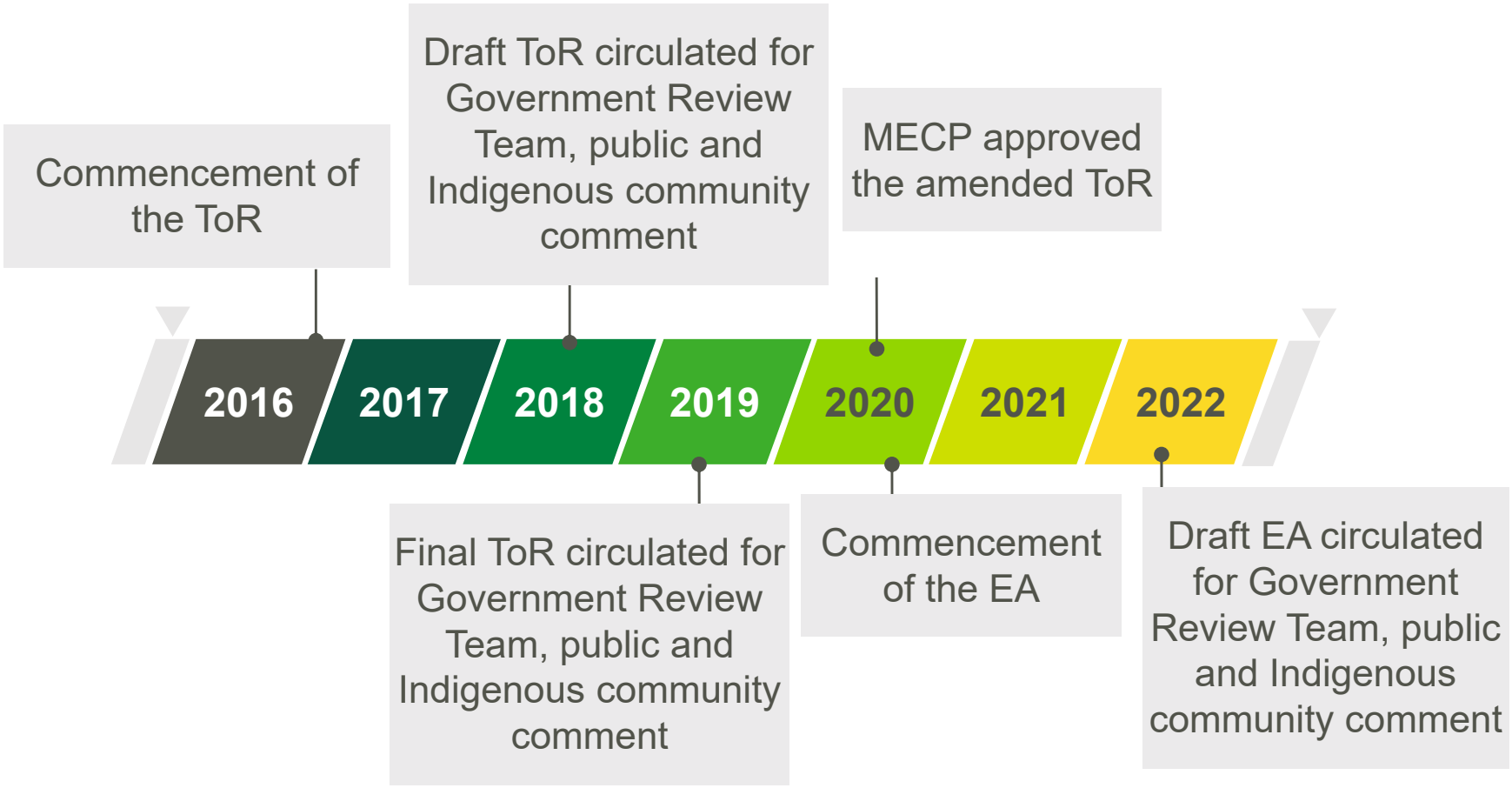
- Review of the EA Process
- Confirm the identification of the preferred ‘Alternative Method’
- The Proposed Project
- Results of the existing conditions studies and the predicted effects of the landfill expansion on the environment
- Commitments by the Township
- Next Steps in this EA and Other Approvals

Review of the EA Process

- An Environmental Assessment (EA) of the Township of North Dundas (Township) Waste Management Plan (WMP) is being undertaken under the provincial Environmental Assessment Act.
- The EA is comprised of the Terms of Reference (ToR) and the EA.
  - The ToR sets out the framework for the planning and decision-making process to be followed during the preparation of the EA.
  - The EA is a study that assesses the potential environmental effects (positive or negative) of this proposed Waste Management Plan.
- Both the ToR and EA require approval by the Minister of Environment, Conservation and Parks (MECP).

Review of EA Process

PROGRESS



Review of the EA Process

RECAP OF TECHNICAL BULLETINS AND CONFIRMATION OF PREFERRED 'ALTERNATIVE METHOD'

- Existing **diversion** is approximately 23%. Changes to the system to include Backyard Composting of Food Organics, Dual Stream Recycling Program, Curbside Collection of Leaf & Yard Waste and Composting at the Boyne Road Landfill Site, and Use of Existing and New Waste Management Policies. Changes to the system commenced in 2021 and it is expected that the Township's residential waste diversion rate could increase to approximately 28% by 2025 and 33% by 2030

- **'Alternatives To'** are functionally different ways of dealing with the problem or opportunity (which in this case is to provide environmentally safe, long-term waste management). The comparison of 'Alternatives To' identified Boyne Road Landfill Site Expansion as the preferred 'Alternative To'.

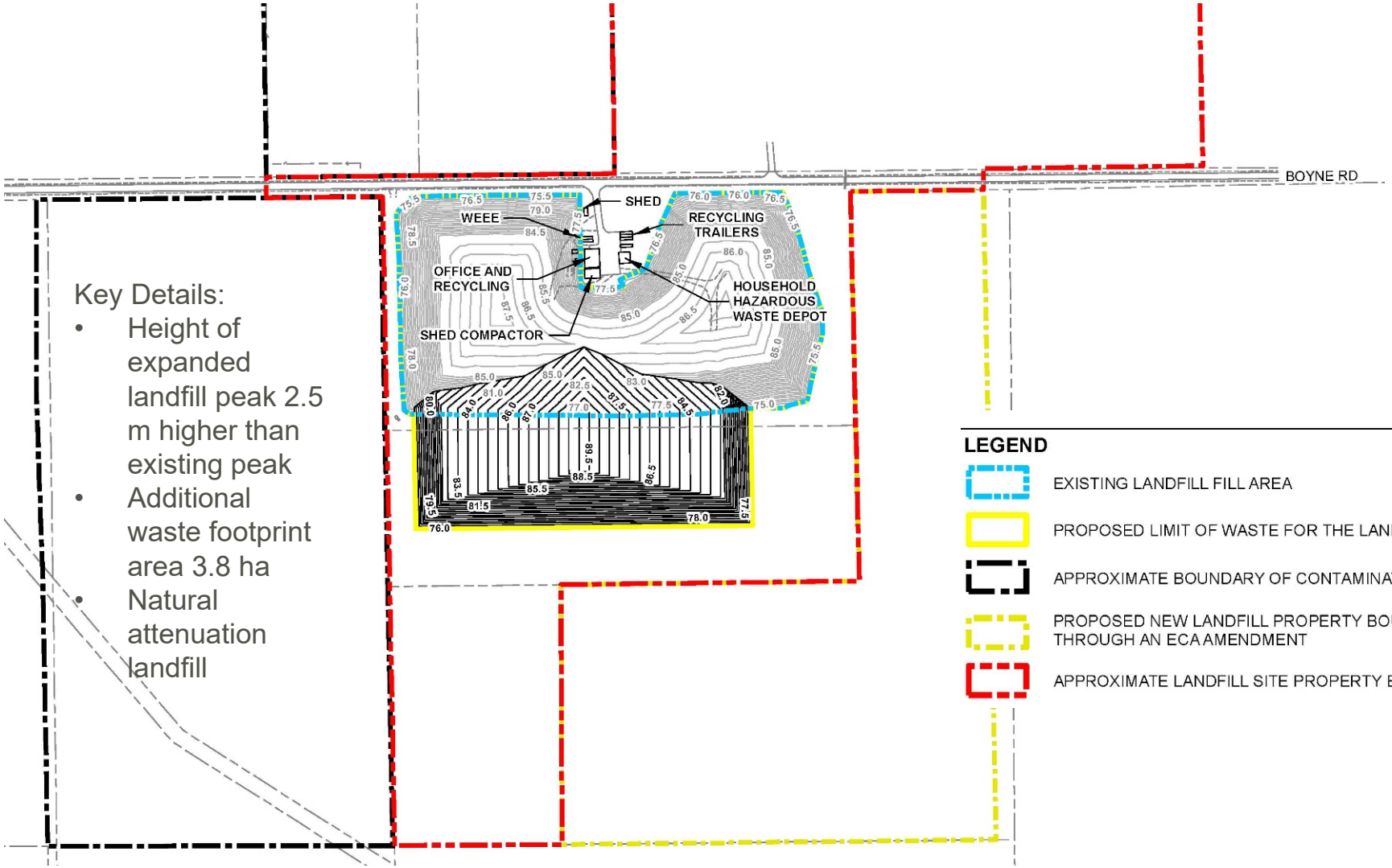
- **'Alternatives Methods'** are different ways of doing the same activity. 'Alternative Methods' are different ways of doing the preferred 'Alternative To'. The comparison of 'Alternative Methods' identified Alternative 3, primarily horizontal expansion, as the preferred 'Alternative Method'.

Description of the Proposed Project

PRIMARILY HORIZONAL LANDFILL EXPANSION

Key Details:

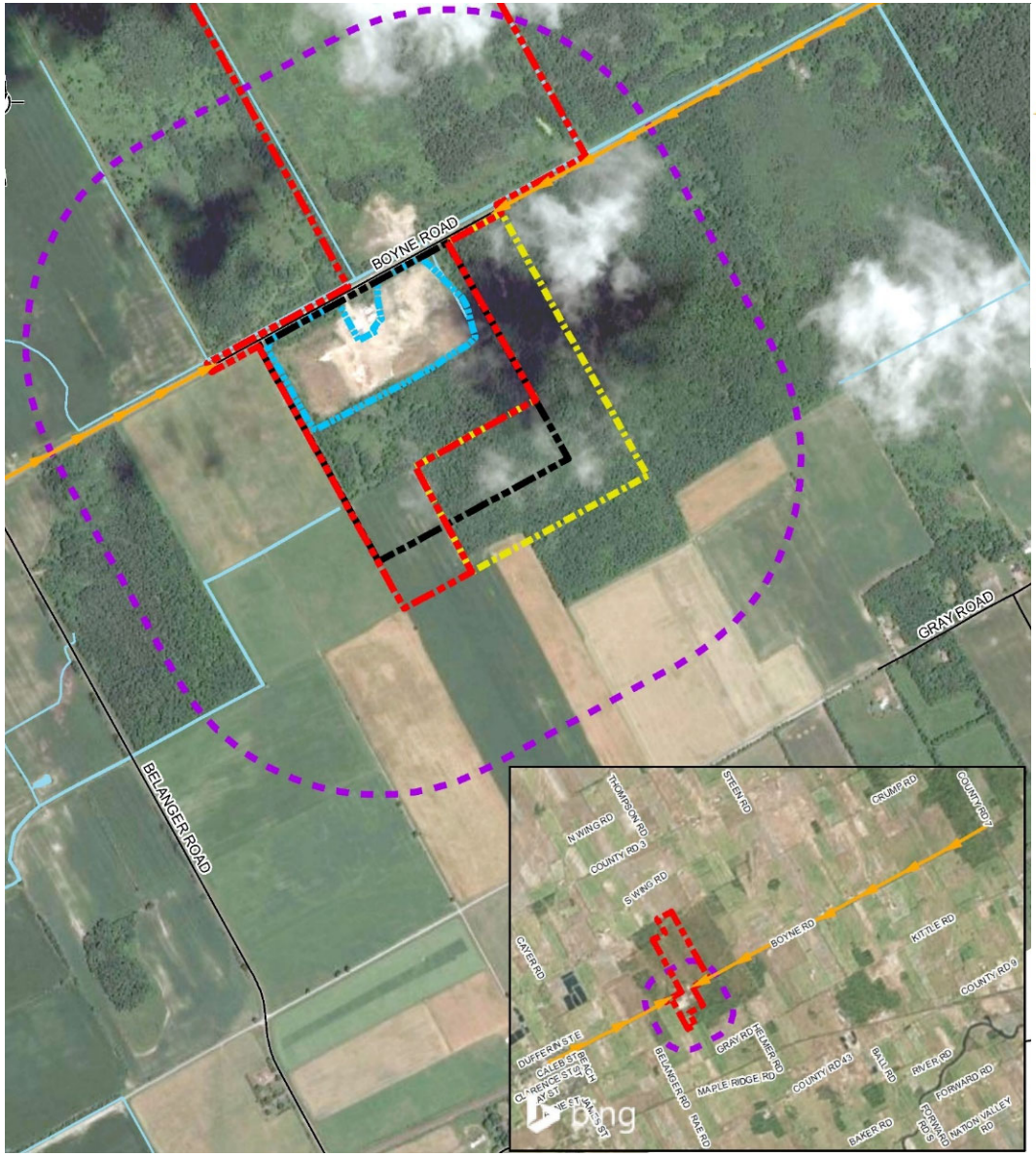
- Height of expanded landfill peak 2.5 m higher than existing peak
- Additional waste footprint area 3.8 ha
- Natural attenuation landfill



LEGEND

- EXISTING LANDFILL FILL AREA
- PROPOSED LIMIT OF WASTE FOR THE LANDFILL EXPANSION AREA
- APPROXIMATE BOUNDARY OF CONTAMINATION ATTENUATION ZONE
- PROPOSED NEW LANDFILL PROPERTY BOUNDARY TO BE ADDED THROUGH AN ECA AMENDMENT
- APPROXIMATE LANDFILL SITE PROPERTY BOUNDARY

Study Areas



- ROADWAY
- WATERCOURSE
- HAUL ROUTE
- EXISTING LANDFILL FILL AREA
- SITE STUDY AREA
- 500 m SITE-VICINITY STUDY AREA
- TOWNSHIP OWNED PROPERTY
- APPROXIMATE PROPERTY BOUNDARY OF LANDFILL SITE

Note: The lands in the area immediately adjacent to the Site Study Area that have the potential to be directly affected by the landfill expansion and activities with the Site Study Area. The extent of the Site-vicinity Study Area will be determined for each of the environmental components. For most environmental components, a Site-vicinity Study Area of 500 metres from the Site Study Area is appropriate

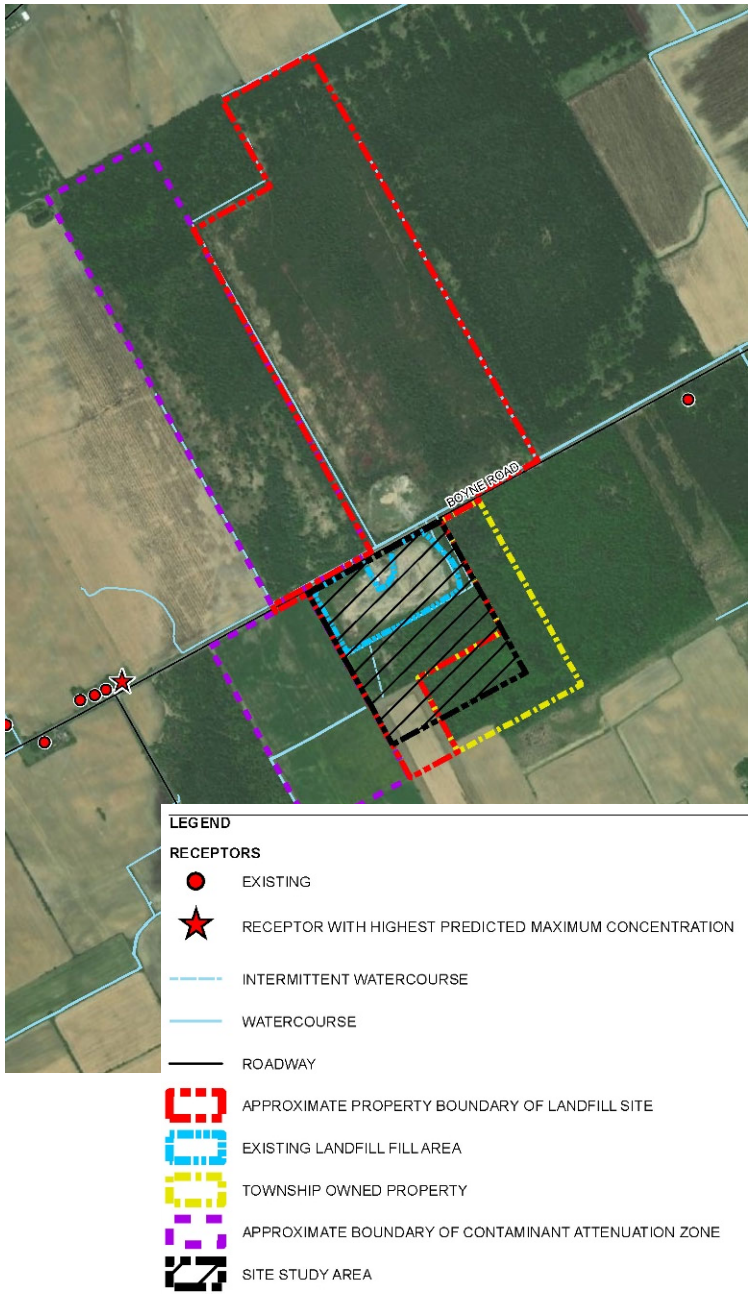
Atmosphere – Air Quality

EXISTING CONDITIONS

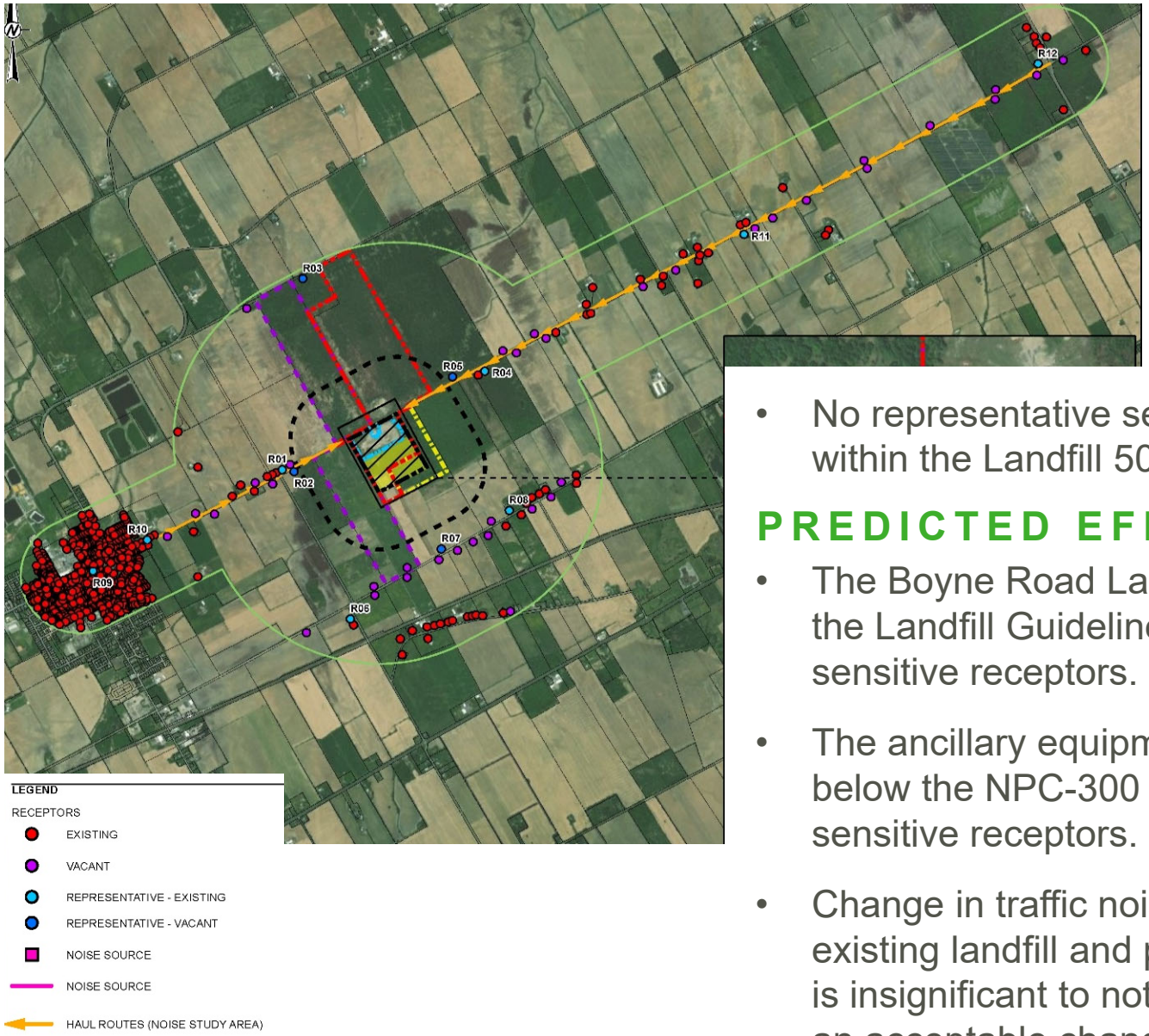
- Existing background air quality from Provincial monitoring station meets applicable Ontario criteria.
- No sensitive receptor locations (residences) have been identified within 500 m of the site.

PREDICTED EFFECTS

- Air quality and odour associated with the landfill expansion are predicted to meet relevant Ontario Regulations at sensitive receptors.



Atmosphere – Noise



EXISTING CONDITIONS

- Existing noise levels are influenced by human activities, vehicle traffic, existing landfill operations and sounds of nature.
- No representative sensitive receptors were identified within the Landfill 500 m Site-vicinity.

PREDICTED EFFECTS

- The Boyne Road Landfill is expected to meet the Landfill Guidelines sound level limits at all sensitive receptors.
- The ancillary equipment is expected to operate below the NPC-300 sound level limits at the sensitive receptors.
- Change in traffic noise levels between the existing landfill and proposed landfill expansion is insignificant to noticeable; this is considered an acceptable change.

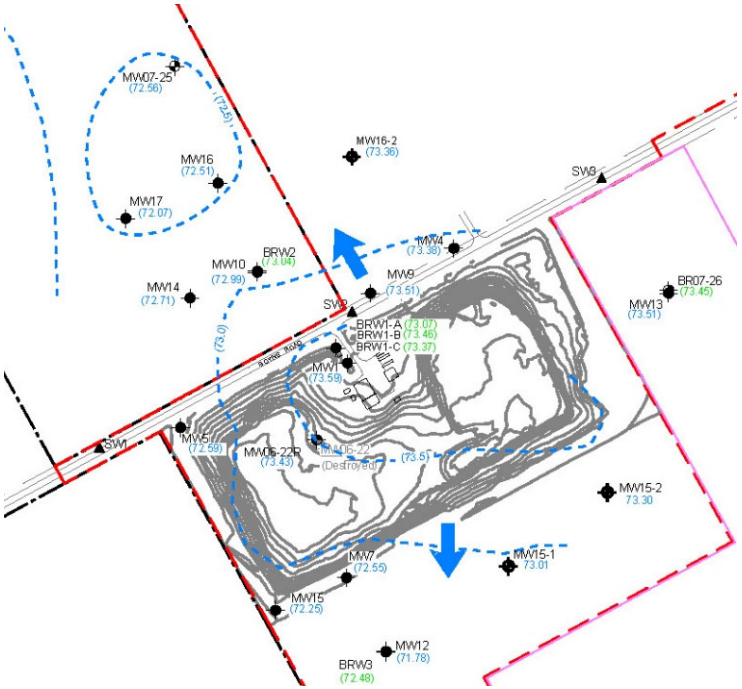
Geology and Hydrogeology

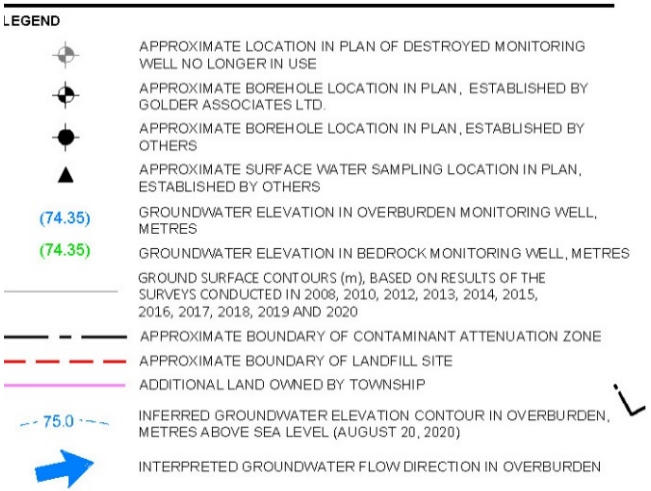
EXISTING CONDITIONS

- The subsurface conditions in the landfill area consist of 0 to 2 m of topsoil/peat, 0 to 3 m of silt/clay, 0.9 to 6 m silty sand/sandy silt till followed by limestone bedrock.
- Topography in the landfill area is flat; as a result, hydraulic gradients, and groundwater flow directions may vary temporarily/seasonally and can be influenced by very slight variations in groundwater elevations. Data from both historical groundwater elevations and historical groundwater chemistry indicate that local groundwater mounding associated with the waste pile has been influencing local groundwater flow direction close to the landfill. Groundwater flow in the area to the north of the landfill is generally to the north, and groundwater flow in the area to the south of the landfill is generally to the south.
- Existing landfill is a natural attenuation landfill and groundwater meets MECP water quality guidelines for landfills (Reasonable Use Guideline).
- Residences in the area get their drinking water from wells within the bedrock.

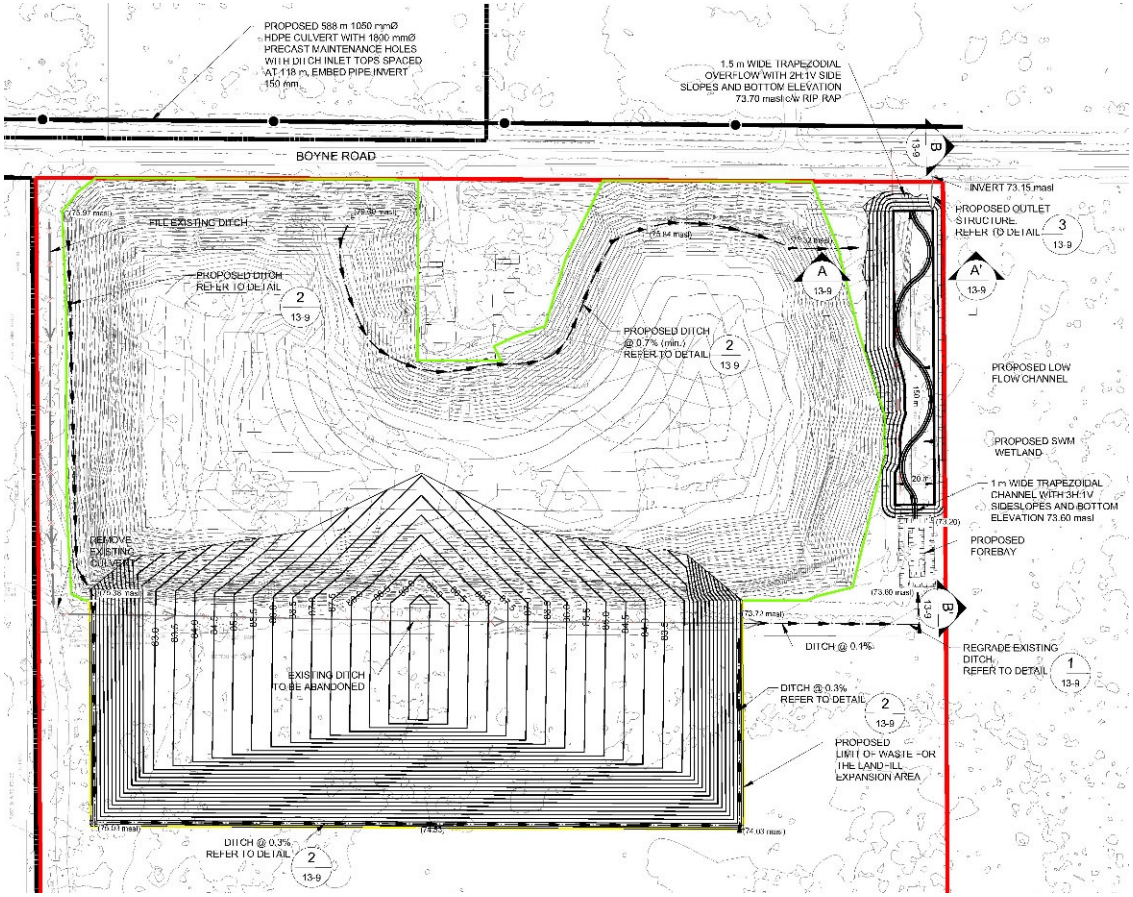
PREDICTED EFFECTS

- All parameters and conditions modelled met the required groundwater quality guidelines for landfills except chloride to the south
- Additional contaminant attenuation zone land is required extending 400 metres further to the south so that the site will remain in compliance for groundwater.





Surface Water – Quality and Quantity



EXISTING CONDITIONS

- Drainage along the northern side of the landfill is directed towards the Boyne Road ditch along the south side of the road. The remainder of the landfill drains to a constructed drainage ditch (perimeter ditch) along the west, south, and east boundaries of the existing landfill.
- Leachate-impacted groundwater can sometimes discharge to the Volks Municipal Drain along the north side of Boyne Road.

PREDICTED EFFECTS

- Provide new perimeter ditch system around the landfill expansion.
- Construct one wetland type stormwater facility at the northeast corner area of the landfill site to provide flow control and quality control.
- Install a culvert along a section of Volks Municipal Drain to the north of the landfill.

Biology – Aquatic and Terrestrial Ecosystems

EXISTING CONDITIONS

- Fish habitat present in existing perimeter ditch, Volks Municipal Drain and Quart Municipal Drain.
- 4 provincially listed Species at Risk (2 bird species and 2 bat species) were observed with the site and 120 m study area beyond the site.
- Significant wildlife habitat in the form of interior forest exists to the west of the landfill expansion.

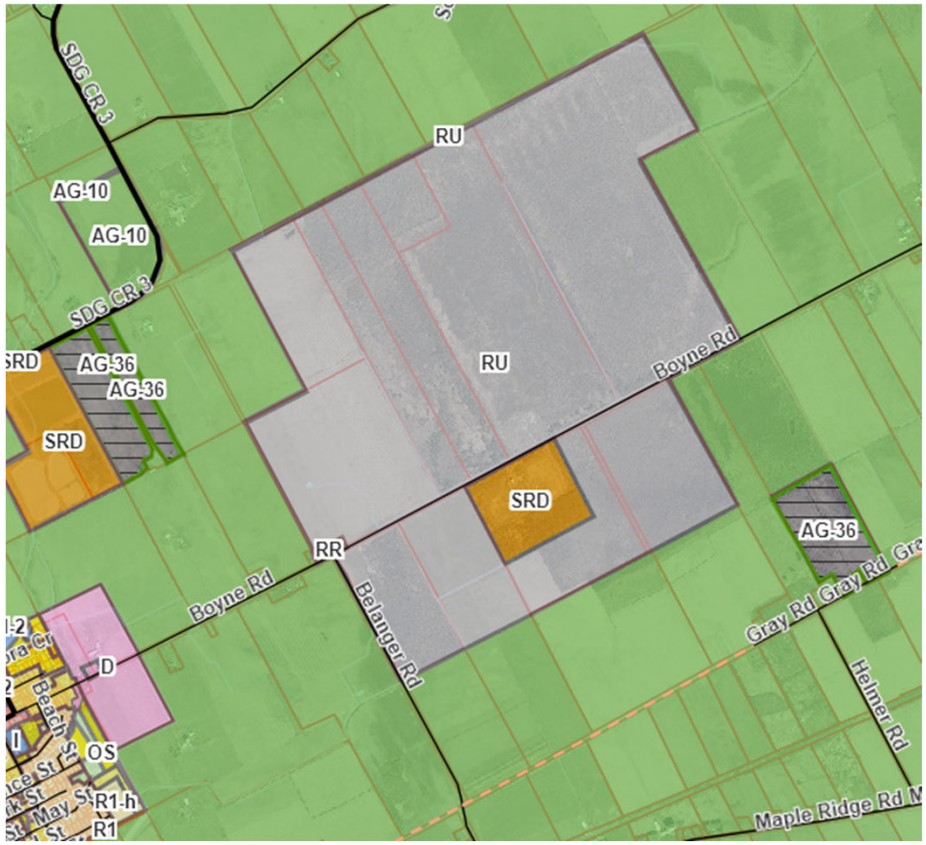
PREDICTED EFFECTS

- Potential direct impacts to aquatic species and habitats as a result of installing the culvert in Volks Municipal Drain. The length of culvert is impassable for fish. Alternatively, it was suggested to install a low permeability liner in the ditch to minimize leachate-impacted groundwater discharge. The alternative will be determined during future approvals.
- Potential direct impacts to aquatic species in the perimeter ditch as a result of moving the ditch.
- Potential direct impacts to habitat for endangered or threatened species (little brown myotis bat).
- Potential direct impacts to significant woodland, evaluated non-PSW and unevaluated wetlands, significant wildlife habitat (wood thrush and eastern wood-pewee), and significant wildlife habitat – interior forest.

Land Use Planning and Agriculture

EXISTING CONDITIONS

- Existing land use planning policy and regulatory context allows for landfill in this area.
- The separation distance between SRD (waste site zoning) uses and dwelling units set at 500 metres as stated in the Official Plan.
- In the Official Plan, the majority of the Township of North Dundas is designated as Agricultural Resource Lands outside of the Urban Settlement Area.



- The existing landfill lies within a Muck soil area. Muck soil is soil having a 0 to 0.45 m thickness of organic layer. Presently, this soil is generally not suitable for agriculture and has traditionally not been included in an Agricultural designation, as it requires a great deal of work to prepare for crops and the rate of return is low.

PREDICTED EFFECTS

- The expansion is to take place within the existing lands designated by the Official Plan as a Waste Disposal Site.
- The landfill expansion is to take place within the Muck soil area and it is not anticipated that the expansion will overtly affect neighbouring soils.
- No active agricultural operations will be affected by the proposed landfill expansion. Lands adjacent to the landfill site and used as agricultural fields will continue to be used for this purpose.

Cultural Heritage Resources – Archaeological Resources, Built Heritage Resources and Cultural Heritage Landscapes

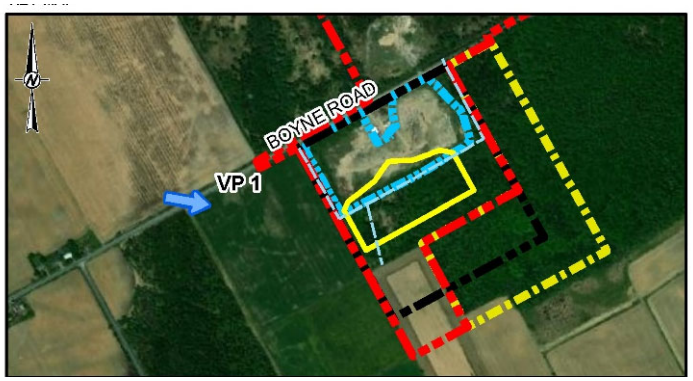
EXISTING CONDITIONS

- There are no registered archaeological sites located within a 1 km radius of the Site Study Area according to the Ontario Archaeological Sites Database.
- A Stage 1 Archaeological Assessment was completed.
- No known or potential built heritage resources or cultural heritage landscapes identified within the landfill boundary or on parcels adjacent to the landfill.

PREDICTED EFFECTS

- No further archaeological assessments are required based on findings of Stage 1 Archaeological Assessment.
- No known or potential built heritage resources or cultural heritage landscapes identified within the landfill boundary or on parcels adjacent to the landfill expansion.

Socio-economic – Local Economy, Residents and Community and Visual

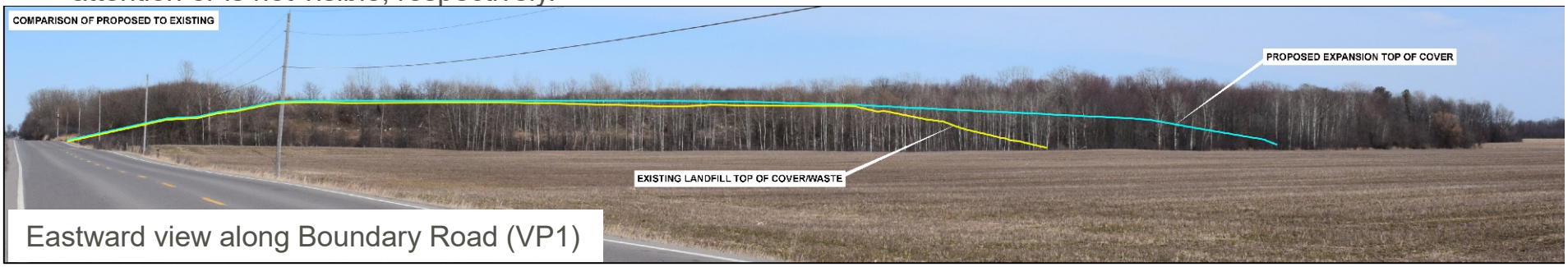


EXISTING CONDITIONS

- The Township of North Dundas is considered an “agri-food cluster” with many agriculture related businesses.
- The landfill site is located in a mainly agricultural setting with few residences or notable features in the immediate vicinity. There are no existing residences within 500 metres of the landfill boundary.
- The overall topographic relief across the landfill surrounding area indicated by topographic mapping shows that the ground surface ranges in elevation from approximately 75 masl in the northwest to 80 masl in parts of the southeast. The existing landfill rises approximate 12 m above the surrounding terrain but is relatively well screened.

PREDICTED EFFECTS

- No lasting positive or negative effects on the local economy.
- Out-migration is not anticipated since residents are accustomed to living in an agricultural area and near the existing landfill, noting no residences within 500 metres. Nuisance effects are expected to be managed and mitigated appropriately.
- All modelled viewpoints were weak to none, meaning the proposed expansion can be seen but does not attract attention or is not visible, respectively.



Eastward view along Boundary Road (VP1)

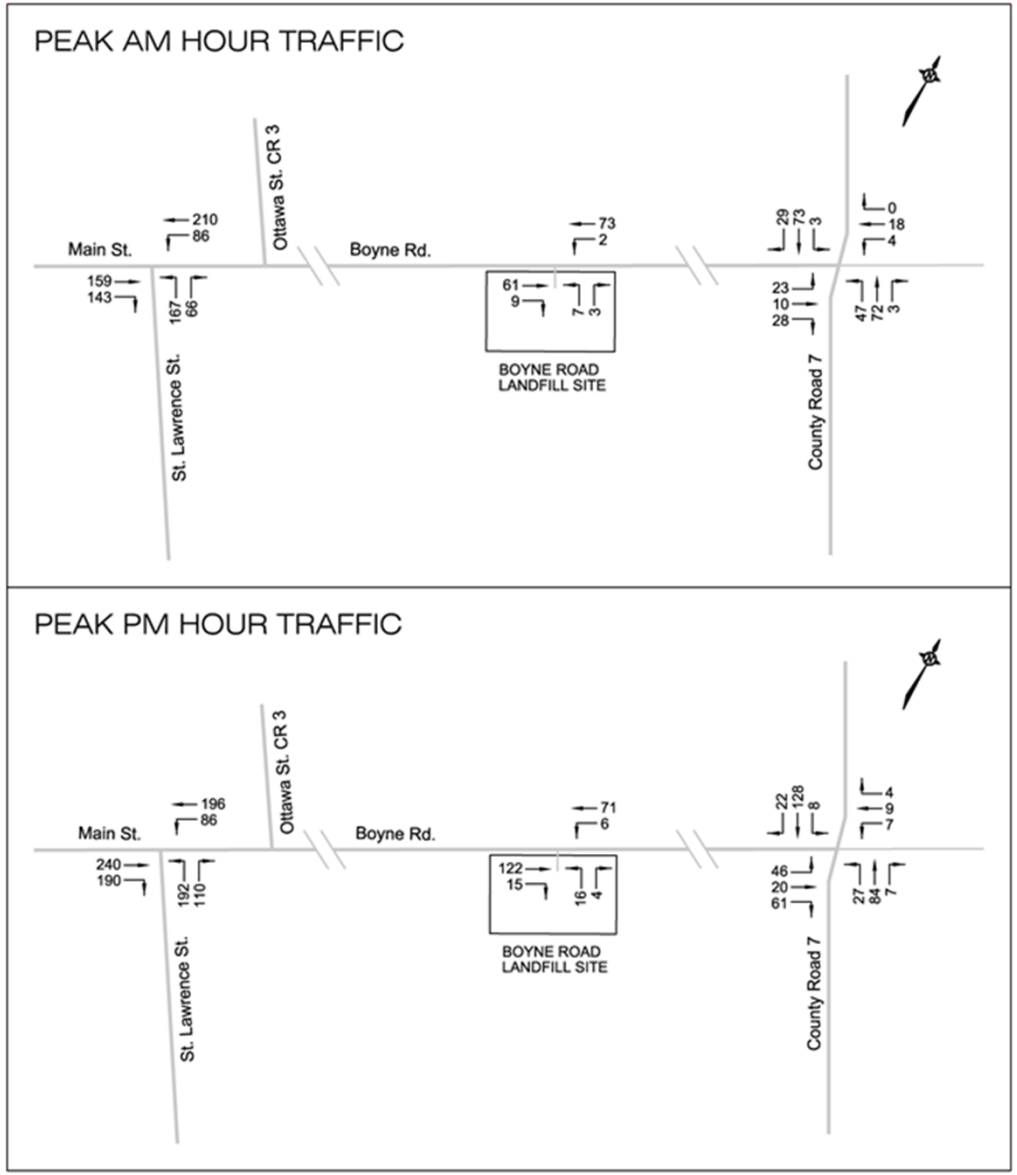
Transportation - Traffic

EXISTING CONDITIONS

- Three intersections were evaluated: the landfill access/Boyne Road intersection, St. Lawrence Street/Main Street intersection in Winchester and County Rd. 7/Boyne Road intersection.
- Peak hour traffic obtained by traffic counts in September 2021. Morning and afternoon peak traffic into the landfill was 4 vehicles and 11 vehicles, respectively.

PREDICTED EFFECTS

- No road improvement or intersection improvements required.



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NOT TO SCALE

Design and Operations

EXISTING CONDITIONS

- Landfill has been operational since 1965 and is the only operational waste disposal site in the Township.
- The existing landfill operates as a natural attenuation landfill with no engineered liner or leachate collection system but rather relies on natural attenuation within the site property boundary and contaminant attenuation zone lands.
- Ongoing environmental monitoring demonstrates site compliance with regulatory requirements.

PREDICTED EFFECTS

- The management of leachate will continue to rely on the same strategy of natural attenuation based on groundwater modelling results with the addition of 400 m of contaminant attenuation zone land/easement to the south of the current landfill boundary.
- The portion of the Volks Municipal Drain adjacent and north of the landfill will either be lined or have a culvert installed to minimize leachate-impacted groundwater discharging to this drain. A stormwater management wetland is required in the northeast corner of the site.
- No landfill gas collection required.
- Capital costs for construction of the landfill expansion are estimated to be $2.1 to $2.8 million, although costs will be expended in a phased approach. Operating costs are expected to be comparable to the current operating costs.

Summary of Commitments

Compliance monitoring of the proposed Boyne Road Landfill expansion will be carried out to confirm that it has been constructed, implemented and operated in accordance with the commitments made in the EA. Some example key commitments include:

- Implementation of all required site effects monitoring and reporting programs.
- The Township commits to implement the practices set out in the Waste Diversion Study.
- The Township commits, in future, to obtain control over an additional 400 m of groundwater travel distance towards the south as contaminant attenuation zone.
- An information gathering form will be prepared and submitted to the MECP prior to any works as it relates to habitat for little brown myotis (bats).
- Prepare and submit a Request for Review application to Department of Fisheries and Oceans to determine if habitat compensation measures are required for fish habitat.

Next Steps in this EA and Other Approvals

1. Complete the EA
2. Complete Approvals Under EPA & OWRA
3. Prepare Site for Disposal in Expansion Area

Activities to complete include:

- Circulate Draft EA to the public, Indigenous communities and the Government Review Team (spring 2022)
- Circulate Final EA to the public, Indigenous communities and the Government Review Team (summer/fall 2022)

- These approvals are for the Environmental Protection Act and Ontario Water Resources Act.
- The approvals cannot be issued until the EA is approved but can be worked on and submitted before EA approval.
- Once submitted to the MECP, EPA & OWRA approval can take up to 12 months.

- Construction cannot commence until EPA and OWRA approvals received.
- Assume several months required for site preparation - moving ditches, preparing the landfill expansion base and constructing a stormwater management pond.

Questions, Feedback and Comments

We encourage you to let us know your thoughts by sending your comments to dfroats@northdundas.com and/or using the attached comment form by April 28, 2022.

Or contact us at 613-774-2105 ext. 235 for any accessibility requirements.

If you would like to be notified of any project updates, please let us know and provide either an email address or your mailing address.

Project details can be found on the project website at: https://www.northdundas.com/municipal-services/environmental-assessments

GOLDER

MEMBER OF WSP

Thank You.

Environmental Assessment of the Township of North Dundas
Waste Management Plan
Virtual Open House #3 Feedback Form

Thank you for taking the time to provide us with your comments. This comment sheet should be completed after participating in and/or reading content from virtual Open House #3. Please return your comments by April 28, 2022

If you would like to be added to our project mailing list, please include the appropriate contact information below.

___ YES, BY MAIL ___ YES, BY EMAIL ___ NO

NAME: _____ EMAIL: _____

ADDRESS: _____ PHONE NUMBER: _____

1. Please provide any general comments regarding this Environmental Assessment Process.

_____

_____

_____

2. Do you agree with the identification of the preferred 'Alternative Method' for this waste management plan – expansion of the Boyne Road Landfill site, primarily horizontal expansion? If not, why not?

_____

_____

_____

_____

_____

_____

3. Were there any environmental component results (predicted effects) not provided in the information that you were expecting?

_____

_____

_____

4. Are there any additional committments you would like the Township to include in this EA?

_____

_____

_____

All personal information included in a submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the Ministry of the Environment, Conservation and Parks for the purpose of transparency and consultation. The information is collected under the authority of the *Environmental Assessment Act* or is collected and maintained for the purpose of creating a record that is available to the general public as described in s.37 of the *Freedom of Information and Protection of Privacy Act*. Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential. For more information, please contact the Ministry of the Environment, Conservation and Park's Freedom of Information and Privacy Coordinator at 416-314-4075.

Veuillez noter qu'il vous est possible de nous communiquer vos commentaires ou vos questions sur le projet en français en les adressant à Yannick Marcerou au 613-592-9600 ext. 3318 ou par courriel à yannick_marcerou@golder.com.

You can provide your comments on the Environmental Assessment Open House #3 or any questions you may have about this project by email, mail or fax to:

Doug Froats
Director of Waste Management
Township of North Dundas

636 St. Lawrence Street, P.O. Box 489
Winchester, ON K0C 2K0

Telephone: 613-774-2105 ext. 235
E-mail: dfroats@northdundas.com

or

Trish Edmond, P.Eng.
EA Project Manager
Golder Associates Ltd.

1931 Robertson Road
Ottawa, ON K2H 5B7

Telephone: 613-592-9600
E-mail: trish_edmond@golder.com

Appendix I3 Comments from the GRT

From: McKay, Candice (MECP)
To: Marcerou, Yannick
Subject: RE: Township of North Dundas Waste EA - Open House #3
Date: April 8, 2022 12:06:46 PM

EXTERNAL EMAIL

Hi Yannick,

I called into the Public Open House last night.

The presentation gave a great overview of the project. Is it possible to get a copy of the PowerPoint slides?

Thanks,

Candice McKay
Senior Environmental Officer
Ontario Ministry of the Environment, Conservation & Parks (MECP)
Cornwall Area Office
113 Amelia Street, 1st Floor
Cornwall ON K6H 3P1
(613)551-9438

From: Marcerou, Yannick <Yannick_Marcerou@golder.com>
Sent: March 28, 2022 3:34 PM
Cc: Doug Froats <dfroats@northdundas.com>; Edmond, Trish <Trish_Edmond@golder.com>; Hughes, Jordan (MECP) <Jordan.Hughes@ontario.ca>; Marcerou, Yannick <Yannick_Marcerou@golder.com>; McDonald, Robert <Robert_McDonald@golder.com>
Subject: Township of North Dundas Waste EA - Open House #3

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hello,

The Township of North Dundas (Township) is undergoing an environmental assessment (EA) for the Township's Waste Management Plan under the *Environmental Assessment Act*. The EA Study will evaluate long-term solid waste management options for a 25-year planning period.

The Township wants community feedback on the proposed EA and is hosting a third open house (both in-person and virtually) on **April 7, 2022** at Council Chambers in the Township Office (636 St. Lawrence Street, Winchester). There will be a presentation starting **at 6:30pm**, followed by a question period until 8:00pm.

For participants who would like to participate in the open house virtually, here is the link to register for the Zoom Webinar: https://us06web.zoom.us/webinar/register/WN_yKnD2Lq7Qa2N1uk2blGHug

At this open house, the public will learn about the results and conclusions from the EA, including the confirmed identification of the preferred 'Alternative Method' of landfill expansion, the results of the existing conditions studies, the predicted effects on the environment, and the commitments the Township is making to mitigate any potential adverse effects.

We welcome your participation at the Open House. Please do not hesitate to contact us if you have any questions.

Regards,

Yannick Marcerou, *he/him*
Environmental/Waste Engineer, M.Eng., P.Eng.

T+ 1 613-592-9600 #3318

WSP GOLDER

1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7

wsp.com | golder.com

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From:	Marcerou, Yannick
To:	McKay, Candice (MECP)
Cc:	Edmond, Trish; Doug Froats; McDonald, Robert
Bcc:	1648253, Township of North Dundas Environmental Assessment
Subject:	RE: Township of North Dundas Waste EA - Open House #3
Date:	April 8, 2022 12:10:00 PM
Attachments:	Presentation EA Open House 3.pdf Open House 3 Feedback Form.pdf

---

Hi,

Please find attached the documents in question.

The Open House materials are also available on the Township website if the attachments are blocked by your email server: https://www.northdundas.com/municipal-services/environmental-assessments

Have a good afternoon and a good weekend!

Sincerely,

Yannick Marcerou, *he/him*
Environmental/Waste Engineer, M.Eng., P.Eng.

T+ 1 613-592-9600 #3318

WSP GOLDER

From: McKay, Candice (MECP) <Candice.McKay@ontario.ca>
Sent: April 8, 2022 12:07 PM
To: Marcerou, Yannick <Yannick_Marcerou@golder.com>
Subject: RE: Township of North Dundas Waste EA - Open House #3

EXTERNAL EMAIL

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Candice McKay
Senior Environmental Officer
Ontario Ministry of the Environment, Conservation & Parks (MECP)
Cornwall Area Office

113 Amelia Street, 1st Floor
Cornwall ON K6H 3P1
(613)551-9438

From: Marcerou, Yannick <Yannick_Marcerou@golder.com>
Sent: March 28, 2022 3:34 PM
Cc: Doug Froats <dfroats@northdundas.com>; Edmond, Trish <Trish_Edmond@golder.com>; Hughes, Jordan (MECP) <Jordan.Hughes@ontario.ca>; Marcerou, Yannick <Yannick_Marcerou@golder.com>; McDonald, Robert <Robert_McDonald@golder.com>
Subject: Township of North Dundas Waste EA - Open House #3

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We welcome your participation at the Open House. Please do not hesitate to contact us if you have any questions.

Regards,

Yannick Marcerou, *he/him*
Environmental/Waste Engineer, M.Eng., P.Eng.

T+ 1 613-592-9600 #3318

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1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7

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APPENDIX J

Comments Received on the Draft EA

Appendix J1 Comments from the MECP and Responses on the Preliminary Draft EA

Appendix J1 Comments from the MECP and Responses on the Preliminary Draft EA

Ministry of the Environment, Conservation and Parks

Environmental Assessment Branch

1st Floor
135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax.: 416 314-8452

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Direction des évaluations environnementales

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Téléc. : 416 314-845

March 25, 2022

MEMORANDUM

TO: Trish Edmond
Principal, Team Lead Waste - Ontario Earth & Environment
WSP & Golder

FROM: Jordan Hughes, Project Officer
Environmental Assessment Services Section
Environmental Assessment Branch

RE: Draft Environmental Assessment of the Township of North Dundas Waste Management Plan

---

Thank you for the opportunity to review the draft Environmental Assessment Study Report (draft EASR) for the North Dundas Waste Management Plan Environmental Assessment Report (project). The Ministry of the Environment, Conservation and Parks (the ministry) Environmental Assessment Services Section has conducted a review of the draft EASR taking into consideration the applicable requirements of subsections 6.1 (2) and 6(2) of the *Environmental Assessment Act* (EAA), the Code of Practice for Preparing and Reviewing Environmental Assessments in Ontario (EA Codes of Practice), and the approved Terms of Reference (ToR) for the project. In its review, the ministry has identified several deficiencies in the draft EASR that are summarized herein and detailed in the attached comment table for consideration when finalizing the EASR for submission to the ministry.

Overview of Deficiencies

The ministry offers the enclosed comments to ensure that a clear and comprehensive EASR, that meets the requirements, is prepared prior to formal submission. The following provides an overview of some of the main deficiencies with the draft EASR,

however specific details, actions and other comments are provided in the attached table.

Sufficient Level of Detail

Section 3.2.6 of the EA Codes of Practices states that the level of detail presented in an EA should be sufficient to fulfil the requirements of the EAA and to assure interested persons that the proposed project is technically feasible and achieves environmental protection. Furthermore, Section 4.2.5 of the EA Codes of Practice also states that the EA must provide sufficient information so that the Minister of the Environment, Conservation and Parks (Minister) can have a clear understanding about the undertaking that he or she will be asked to make a decision on.

The EASR is the main document and as a result, should be sufficiently detailed so that it can stand on its own and provide a complete picture of the planning process and its conclusions. Certain sections of the draft EASR contain limited information with respect to the description of the 'alternatives to' the undertaking and 'alternative methods' of carrying out the undertaking, as well as description of the potential effects and impacts of the 'alternatives to' and 'alternative methods. The EASR must include sufficient detail for a complete understanding of these components. Appendices serve to provide additional technical information for the interested reviewer or reader and should be referenced where appropriate; however, the main EASR should provide enough detail to support the understanding of the undertaking and its potential effects on the environment. The EASR, including supporting appendices, must be logically organized to ensure that information is accessible. Throughout the draft EASR, there are references to various reports in the appendices where the reader is directed to as opposed to being provided a sufficient level of detail or a summary in the draft EASR. Specific examples have been provided in the attached comment table.

Do Nothing

Section 4.2.2 of the EA Codes of Practice states that the do nothing alternative should always be considered as it represents what is expected to happen if none of the alternatives being considered are carried out. It is always included for comparison and therefore, it cannot be screened out. The do nothing alternative is not intended to be considered as a reasonable way on which the problem or opportunity that prompted the initiation of the EA process can be addressed. The do nothing alternative has to be carried throughout the EA as a benchmark for the comparison of the advantages and disadvantages of the preferred undertaking and to determine the extent to which other alternatives address the problem or opportunity.

The EASR must assess the advantages and disadvantages of each alternative method using the do nothing alternative as the reference benchmark or baseline. In the draft EASR, the do nothing alternative was only considered in the 'alternatives to' comparative evaluations. The EASR must assess the advantages and disadvantages of

each ‘alternative method’ using the do nothing alternative as the reference benchmark or baseline.

Consultation

With regards to Indigenous consultation, the ministry notes that to date the proponent has not received substantive comments from any interested communities. It will be important for the proponent to demonstrate in the final EASR that they have obtained, or at least made meaningful attempts to obtain, input on the draft EASR from the communities that have expressed an interest in the project, at minimum. This should include follow-up with communities and be documented in the final EASR and consultation record.

Next Steps

As information was missing or incomplete in your draft EASR, additional review will be required prior to the submission of a final EA to the ministry. Additional comments may be provided at that time. The ministry expects that you will also provide responses to the enclosed comments prior to the formal submission of the EASR and seek the ministry’s acceptance of the proposed method of addressing issues. To facilitate ministry review and support effective issues resolution, please submit responses to all ministry comments in table format, organized by reviewer as well as the final consultation record. The ministry is available to meet with you to discuss any questions you may have, and to support you in resolving any issues prior to the submission of the final EASR.

In advance of submitting the final EASR, you may wish to consult interested persons with regards to the revisions during the final Public Information Centre, as well as meetings with Indigenous communities, and other interested parties. The final EASR should include documentation of those activities as well as any changes that were made to the documentation to address concerns.

Should you have any questions or require further information, please contact the undersigned at 437-770-6953 or by email at jordan.hughes@ontario.ca.

Sincerely,

Jordan Hughes

Attachment
c: Solange Desautels, Supervisor, Environmental Assessment Branch

#	Reference to North Dundas Waste Management Plan draft EASR	Comments & Rationale	Proposed Action/Solution	How Addressed in the EA
	Environmental Assessment Branch, Jordan Hughes, Project Officer			
1	**Executive Summary**	In accordance with Section 4.3.1 of the Code of Practice: Preparing and Reviewing Environmental Assessments in Ontario 2014 (Code of Practice) and Regulation 334, the Environmental Assessment Study Report (EASR) for the North Dundas Waste Management Plan should contain a brief summary of the environmental assessment generally organized in accordance with the relevant matters set out in subsection 6.1 (2) of the Act (e.g. such as).	As previously indicated to MECP, please ensure that an executive summary is completed for the draft EASR.	An Executive Summary has been prepared and included in the draft EASR, organized by the sections of the EASR to meet the requirements of the Act.
2	**Glossary of Terms**	Term - EA Study The description of the term uses “as described in this ToR prior to the refinement of the definition of the proposed undertaking”. Needs to be updated to the current EASR, not the Terms of Reference (ToR). Term - (the) Site (the) Township of North Dundas is used to describe the term. Needs clarity in whether it means the landfill site or the Township as a whole. Term - (the) Undertaking The description of the term uses “as described in this Tor”. Needs to be updated to the current EASR, not the ToR.	Please make corrections accordingly.	Requested corrections to EA Study and Undertaking made in the Glossary of Terms. It is confirmed that the ‘Site” refers to the Township of North Dundas for the purpose of the ‘Alternatives To’ assessment. References to the Boyne Road landfill uses the word ‘site’ (not capitalized).
3	**Description of EA Study** **1.1**	This section includes “the proposed Environmental Assessment (EA) Study is the EA of the Township’s waste management plan for a 25-year planning period. The description and rationale will evolve during the preparation of the EA. A description of the undertaking will be defined after a preferred undertaking has been identified during the EA. Therefore, the final description of the proposed undertaking and the rationale for it will be included in the EA once alternatives have been considered and evaluated.” This is the EASR document, and the tense of this description needs to be changed and updated.	Please make corrections accordingly.	Corrections made in Section 1.1 as requested.
4	**Current Waste Management System** **1.3**	The remaining capacity of the Boyne Road Landfill in cubic metres can be provided to give an indication of landfill space remaining relative to the approved capacity. This section does not include any mention or description of the haul route.	Provide the remaining landfill capacity in cubic metres and discuss the operation of the haul route.	Requested information added to Section 1.3.

#	Reference to North Dundas Waste Management Plan draft EASR	Comments & Rationale	Proposed Action/Solution	How Addressed in the EA
5	**Current Waste Management System** **1.3**	Consider reorganizing this section to include "Site History and Background" that will include site history and details followed by "Current Site Waste Management System" that includes the current operations and capacity.	Reorganize information so that the site history and background is separated from current site information.	Section 1.3 has been reorganized into two subsections, 1.3.1 and 1.3.2, to improve clarity. This is an introductory section of the EASR, intended to generally describe the current waste management system as background for the reader. A greater level of detail is not considered to be appropriate, since the preferred 'Alternative To' has not yet been identified.
6	**Current Waste Management System** **1.3** **Noise** **11.2.1.2**	"The parcels are shown on **Error! Reference source not found**." Reference to source relating to the Townships acquisition of groundwater easements unavailable. "The indicator for Noise is: **Error! Unknown document property name. Error! Unknown document property name."** Reference to source relating to noise indicators not available.	Please make corrections accordingly.	Requested correction made in Section 1.3; we did not see what is referred to in Section 11.2.1.2.
7	**2.1** **Rationale and Purpose of Proposed Undertaking**	It is stated that "the purpose statement will be influenced by diversion studies proposed by the Township and made as a commitment in the ToR. It was proposed that the diversion studies be conducted during the EA, early in the process to provide input into post-diversion residual waste management requirements. Diversion is also an 'Alternative To' in this EA. The Waste Diversion Study is provided in Volume 3 Appendix J to the main EASR". The Diversion study was conducted as part of the current EASR, and as such the influence of the results from the study should be indicated. The ministry will have more comments in this regard after the Resource Recovery Branch provides their technical review.	Please revise to reflect the studies undertaken during the EASR.	Reference added in Section 2.1 to a summary of the diversion study results in Sections 6.3.5 and 7.0. Additional information from the findings and conclusions of the diversion study have also been added in Section 7.0.

#	Reference to North Dundas Waste Management Plan draft EASR	Comments & Rationale	Proposed Action/Solution	How Addressed in the EA
8	**Organization of the EA Study Report 2.3.2**	In accordance with section 2(1) of Regulation 334, the EASR should contain a list of studies and reports done in connection with the undertaking or matters related to the undertaking. The EASR should also include a list of additional studies and reports related to the undertaking but are not under the control of the proponent. The draft EA does not include a list of additional studies and reports related to the undertaking. The full names of reports in support of the EASR need to be included in the list of "Volume 2 Technical Appendices" for clarity.	Revise the EASR report to include a list of the studies and reports completed, as well as a list of additional studies and reports related to the undertaking but are not under the control of the Township. Add the full titles done in connection with the EASR to the list of Volume 2 Technical Appendices list. Additionally, a table can be provided that lists and describes the technical studies completed.	The organization of this EASR is different when compared to others more recently completed for Individual EAs for waste management projects in that all of the studies/work completed for the EA are contained in the EASR with the exception of the Stage 1 Archaeological Assessment contained in Volume 2, Appendix G-2; and the supporting memo and report on Alternative 3 – New Landfill Site Selection Assessment, Application of Exclusionary Criteria and Mapping to Identify Potential Sites and the Waste Diversion Study, respectively, in Volume 3 . The other Appendices in Volume 2 for various environmental components contain supporting information, calculations, etc. for the studies within the EASR itself. For clarity, some additional annotation of Section 2.3.2 has been provided and, where appropriate, reports noted. A complete list of reference documents (additional studies and reports) is provided in Section 19.0 of the EASR (as indicated in the listing of the Sections comprising Volume I in Section 2.3.2), and those documents are properly referenced wherever used/relied upon throughout the EASR.
9	**Indigenous Community Involvement 4.7**	With regards to Indigenous consultation, the ministry notes that to date the Township has not received substantive comments from any interested communities. It will be important for the Township to demonstrate in the final EASR that they have obtained, or at least made meaningful attempts to obtain, input on the draft EASR from the communities that have expressed an interest in the project, at minimum. This should include follow-up with communities, including the final Open House.	Please ensure that meaningful attempts with indigenous communities is made and documented in the final EASR including the final Open House. Furthermore, please provide a copy of the record of consultation for ministry review when it is available.	A complete record of consultation, and attempted consultation with Indigenous Communities is provided in the Volume 4 Consultation Record (which is provided as part of the draft EA package) and summarized in Sections 4.4.2. 4.7 and 4.8.6 of Volume I.

#	Reference to North Dundas Waste Management Plan draft EASR	Comments & Rationale	Proposed Action/Solution	How Addressed in the EA
10	**Noise** **5.2.2** **6.3.2 Alternative 2 – Landfill Site Expansion** **Identification of the Preferred 'Alternative To'** **6.5** **Archaeological Resources** **9.7.1** **Landfill Gas (LFG) Management** **12.4** **Emissions Estimate** **13.1.1.1**	Sufficient Level of Detail: The EA is the main document and as a result should be sufficiently detailed, so that it can stand on its own and provide a complete picture of the planning process and its conclusions. It should, in detail, provide sufficient information and understanding of the potential undertaking, the existing environment, and evaluation of the alternatives, environmental effects and impact management, as well as consultation undertaken throughout the EA process. Appendices serve to provide additional technical information for the interested reviewer or reader. The EA, including supporting appendices, must be logically organized to ensure that information is accessible. Throughout the draft EA, there are references to various reports in the appendices (more details below), where the reader is directed to as opposed to being provided a sufficient level of detail in the draft EA. Appendices serve to provide additional technical information and data for the interested reviewer or reader and should be referenced in the main body of the EA where they contain critical information to support the understanding of the undertaking and its potential effects on the environment. For example:	Please ensure that the draft EA is revised to provide sufficient, detailed information that will enable readers to understand the proposed undertaking, the planning process followed by the Township and the conclusions reached.	This EASR has been prepared by providing the entire environmental component report content directly within the appropriate sections of the main EASR, such that there are no separate component reports within the Volume 2 Technical Appendices B through H. In this way, the main EASR contains all information and detail related to the studies completed for each component. The exception is Appendix G-2 for Cultural Heritage Resources, where a complete Stage 1 Archaeology Assessment Report was prepared for the proposed landfill expansion since the provincial requirements are they have to be submitted in that form to the MHSTCI for review and approval. The only information contained in the Technical Appendices is technical details that were not considered necessary to be within the main EASR in regard to the proposed landfill expansion, i.e., source input parameters, modelling output sheets, traffic analysis summary sheets.
		<u>Noise 5.2.2:</u> This section needs to be expanded with more detail. Provide a summary of existing source of noise at the landfill site and along the haul route. Summarize the key findings from the noise report/study undertaken and conclusions with further detailed technical information referenced to the Appendix report.		Section 5.0 provides a high level description of the existing conditions for the 'Alternatives To' Study Area, which is <u>the whole of the Township</u>, for each of the environmental components used to compare the 'Alternatives To'. As such, it is not specific to the existing landfill site. It is considered that Section 5.2.2 provides an appropriate high level description of noise in the Township. Section 9.0 of the EASR provides a detailed description of the existing conditions for the Study Areas associated with the Boyne Road Landfill site for each of the components, including noise.

#	Reference to North Dundas Waste Management Plan draft EASR	Comments & Rationale	Proposed Action/Solution	How Addressed in the EA
		6.3.2 Alternative 2 – Landfill Site Expansion: This section refers to the alternative already being assessed in detail as part of the 2015 Waste Management Alternatives Evaluation. Provide a summary of what was assessed and its conclusions from the 2015 Waste Management Alternatives Evaluation.		Section 2.1 of the EASR refers to the 2015 evaluation, lists the four alternatives assessed, and the conclusion that expansion of the exiting landfill was preferred. Also, it states that "this previous assessment of waste management alternatives was summarized in Section 4.0 of the approved ToR (Volume 2, Appendix A)". Section 6.0 is the updated evaluation of 'Alternatives To'; in our opinion, the description of Alternative 2 in Section 6.3.2 is not the appropriate place within Volume I to provide additional information on what was assessed and the conclusions of the 2015 study, since it was decided by MECP at the ToR stage that the results of the previous evaluation was not suitable for use in the EA (which is also described in Section 2.1). Instead, additional information on the 2015 evaluation has been added in Section 2.1, with a reference back to Section 2.1 added in Section 6.3.2.
		6.5 Identification of the Preferred 'Alternative To': The landfill site screening assessment "Volume 3 Appendix I" is referenced as the basis for deeming Alternative 3 (Existing Landfill Site Closure and Establish a New Landfill Site) unreasonable. Include a summary of the screening assessment, and the results of the screening assessment that determined conclusions. The Waste Diversion Study "Volume 3 Appendix J" supports Alternative 5 (Enhanced Waste Diversion). Provide more details on the content provided in Volume 3 Appendix J as well as the final results for the reader.		A summary of the Screening Assessment to establish a new landfill site in the Township is provided in Section 6.3.3; as per the comment, additional information on this assessment has been added to Section 6.3.3. A summary of the waste diversion study is provided in Section 6.3.5. Therefore, it is not considered necessary or appropriate to repeat this information in Section 6.5, the purpose of which is to state what was identified by the comparative assessment provided in Section 6.4 as the preferred 'Alternative To'. A reference back to Sections 6.3.3 and 6.3.5 has been added in Section 6.5.
		Archaeological Resources 9.7.1: The Stage 1 Archeological Assessment is referenced to "Volume 2 Appendix G-2". Expand on what was undertaken for the Stage 1 AA as well as the results. Was further work recommended in the Stage 1 AA?		Section 9.1.7 is intended to only describe the existing archeological conditions in the area of the Boyne Road Landfill site. The impact assessment is provided in Section 13.7.1, which states the results including that no further archaeological assessment is recommended. Additional information was added to Section 9.7.1 to describe the purpose of and what was undertaken for the Stage 1 assessment.

#	Reference to North Dundas Waste Management Plan draft EASR	Comments & Rationale	Proposed Action/Solution	How Addressed in the EA
		12.4 Landfill Gas (LFG) Management: Expand on the results of the air quality impact assessment and provide the Appendix/Volume reference in the EASR. What are the results of the detailed air quality impact assessment, did it recommend a landfill gas collection system?		The purpose of Section 12.4 within the Description of the Preferred Undertaking is only to describe what is proposed in terms of landfill gas (LFG) management/control in advance of completing the impact assessment. The reference to the air quality assessment in Section 13.1.1 is only to indicate that depending on the results of that assessment it may be necessary to implement LFG controls, i.e., an additional mitigation measure, different than what is described in Section 12.4. Section 13.1.1 is considered to be the appropriate location for the air quality assessment, not Section 12.4. There are no additional impact results in a separate Appendix or Volume.
		13.1.1.1 Emissions Estimate: "Volume 2 Appendix B-2" is referenced for details of the specific emissions calculation methods and resulting emissions by source. Provide a summary of the process and results. "Volume 2 Appendix B-3" is referenced for dispersion modelling inputs and source characterization. Please expand and provide some details of what is included in the Appendix.		The process for calculating air emissions, which is a very technical process, is considered to be appropriately summarized in Section 13.1.1.1. The results are provided in Sections 13.1.1.2 and 13.1.1.3. The results of the air emissions modelling are provided in Section 13.1.1.4. These section numbers where the results are provided have been added to the bullets in Section 13.1.1 where reference is made to Appendices B-2 and B-3.

#	Reference to North Dundas Waste Management Plan draft EASR	Comments & Rationale	Proposed Action/Solution	How Addressed in the EA
11	**6.5 Identification of the Preferred 'Alternative To'**	Section 4.2.4 of the Code of Practice states that the proponent will have to determine and clearly articulate the rationale for choosing the preferred alternative, taking into account the relative advantages and disadvantages. This section needs to be expanded with more detail how the preferred alternative was selected. The draft EASR states "based on the results presented in Table 6-12, and also with consideration of the advantages and disadvantages presented in Table 6-11 and the key factors that are most important to the Township, the preferred 'Alternative To' from the assessment is Alternative 2 – Landfill Site Expansion". The assessment of the 'Alternatives To' should include sufficient detail to determine the benefits and disadvantages of each of alternative, based on effects. Explain the results from Table 6-12 that lead to the preferred alternative as well as specific points from the advantages and disadvantages Table 6-11. This will more clearly present the decision-making process of the preferred alternative from the advantages and disadvantages evaluation. Furthermore, provide a summary or explanation of how the preferred alternative meets the 'factors that are most important to the Township'.	Please ensure that the draft EA is revised to provide sufficient, detailed information that will enable readers to understand how the evaluative components lead to selecting the preferred alternative.	Section 6.5 has been revised to provide additional rationale and explanation of the reasons for identification of Alternative 2 as the overall preferred 'Alternative To'.
12	**8.1 Study Areas**	The draft EASR states that "Data for the assessment of the 'Alternative Methods' will be collected and analyzed for generic study areas that will be confirmed and refined during the EA". This needs to be revised to reflect that it has been collected and refined as it is the EA document.	Please make corrections accordingly.	Requested corrections made.
13	**10.1 Design of Expansion Alternatives**	The draft EASR states "the capacity being pursued for the landfill expansion of 417,700 m3 to accommodate landfilling operations until the end of the planning period in 2048" and then "subsections below describe each of the landfill expansion alternatives, and each provides the required 450,000 m3 of airspace for waste and daily cover". There needs to be consistency in the volumetric capacity expansion (either 417,700 m3 or 450,000 m3) throughout the EASR. Furthermore, there needs to be consistency with the volumetric capacity expansion metric used with regards to whether it includes the cover or not. The proposed volumetric capacity increase with and without cover should be disclosed.	Please ensure that the volumetric capacity expansion is consistent throughout the EASR.	The EASR describes that the 417,700 m^3 beyond 2023 is for waste and daily cover. Because the ToR described the estimated additional airspace with reference to 'beyond 2020', it is necessary to initially refer to the required airspace confirmed in the EA in this regard. However, when referring to the expansion alternatives, all airspace numbers have been changed to only refer to 417,700 m^3 beyond 2023. A value for the additional airspace including the final cover has been added to Section 12.1 for the proposed expansion.

#	Reference to North Dundas Waste Management Plan draft EASR	Comments & Rationale	Proposed Action/Solution	How Addressed in the EA
14	**Alternative 2 – Combined Horizontal and Vertical Expansion with Larger South Buffer** **10.2.2** **Alternative 3 – Primarily Horizontal Expansion** **10.2.3**	The qualitative descriptions for Alternative Methods 2 and 3 need to be expanded with more details, similarly to what was provided in Alternative 1 for accuracy and consistency. This will avoid assumptions being made by the reader. Will the current disposal area be raised like in Alternative 1 for Alternatives 2 and 3? Will the slope angles meet the requirements of O.Reg. 232/98 for Alternatives 2 and 3? What is the height above typical ground level? • "The height of all 'Alternative Methods' is about 15 m above typical ground level on the southern part of the property" – This is defined in Alternative 1. This should either be disclosed prior to the Alternative summaries under 10.2 or disclosed for each of the Alternatives for consistency. Will the design include the construction of imported permeable fill material for Alternatives 2 and 3? • Alternative 1 indicates that "south of the existing disposal area is at ground surface/high groundwater table requiring separation". Is this the same for Alternatives 2 and 3?	Please ensure that the draft EASR is revised to include more details for Alternative Methods 2 and 3.	Section 10.0 was prepared by first describing the factors that would be considered in the design of any 'Alternative Method' of landfill expansion in Sections 10.0 and 10.1, i.e., meet the geometrical requirements of O.Reg.232/98, natural attenuation design, fill pad, stormwater management system. Sections 10.2.1, 10.2.2 and 10.2.3 were then intended to provide a brief overview of the main differences between 'Alternative Methods', illustrated by the plan and section views and summarized in Table 10-1 in Section 10.2.4. As requested, additional information has been added to Alternatives 2 and 3 such that all three now have a similar level of information provided and cover the comments/questions provided.
15	**Summary of Alternative Methods** **10.2.4**	The summary and comparison table of the alternative methods in the EASR uses mainly a quantitative depiction. Provide simplified visuals of the alternative methods for easier comparison for the reader.	Use the graphics included in the Technical Bulletin #3 for the same comparative table for visual understanding for the reader.	The graphics from Technical Bulletin #3 have been added to Section 10.2.4, Table 10-1 for added reader understanding.

#	Reference to North Dundas Waste Management Plan draft EASR	Comments & Rationale	Proposed Action/Solution	How Addressed in the EA
16	**Comparison and Evaluation of Landfill Expansion Alternatives** **11.0**	Do Nothing: Section 4.2.2 of the EA Codes of Practice states that the do nothing alternative should always be considered as it represents what is expected to happen if none of the alternatives being considered are carried out. It is always included for comparison and therefore cannot be screened out. The do nothing alternative has to be carried throughout the EA as a benchmark for the comparison of the advantages and disadvantages of the preferred undertaking and to determine the extent to which other alternatives address the problem or opportunity. The do nothing alternative is considered in the 'alternatives to' comparative assessments. However, the EASR must assess the advantages and disadvantages of each 'alternative method' using the do nothing alternative as the reference benchmark or baseline. Sufficient Level of Detail: The assessment of the 'Alternative Methods' should include sufficient detail to determine the benefits and disadvantages of each alternative, based on effects. The EASR would benefit with more details provided in the advantages and disadvantages sections for each indicator/component as well as comparing to the 'do nothing' scenario. Some advantages and disadvantages sections provide only a table, and no summary explanation following it (example Table 11-7). Some components do not have an advantages and disadvantages comparison and require further explanation beyond that the results yielded similar results for all alternative methods. The ESAR needs to explain why each alternative method yielded similar results to affirm that an advantages and disadvantages comparison is not required.	The EASR needs to be revised to consider the do nothing alternative as a benchmark for the comparison of the advantages and disadvantages of the alternative methods. The revised draft EA also needs to include a description of the do nothing alternative for each alternative method.	The EASR has been revised to consider the Do-Nothing alternative as a benchmark for the comparison of the advantages and disadvantages of the 'Alternative Methods'. An introduction of the Do-Nothing alternative has been added to Section 10.2.4 and then it has been used for comparison throughout Section 11. It is noted that the proposed expansion of the Boyne Road Landfill is a relatively small expansion as compared to other similar projects in the province. Additionally, there are constraints related to the possible design/layout of landfill expansion 'Alternative Methods' for this undertaking. As a result, the potential effects from the 'Alternative Methods' of landfill expansion are considered to be similar by many of the environmental components, resulting in an inability of these components to describe unique advantages or disadvantages when compared to each other. Relevant sections of Section 11 have been updated to explain this. As such it is unreasonable to expect that each description of advantages and disadvantages to be similar in length and/or content for each environmental component/sub-component.
17	**Potential Indirect Impacts** **13.4.1.2.2**	The draft EASR states that "these indirect impacts are not considered significant and are mitigatable with standard construction best management practices". Where mitigation measures are mentioned, the measures should be identified. Although potential indirect impacts of the construction phase are considered not significant and mitigatable, the potential mitigation measures related to 'best management practices' should be disclosed for each construction related impact listed.	Please include what the best management practices are with regards to mitigation in the final EASR.	Construction best management practices added to Section 13.4.1.2.2 as requested.

#	Reference to North Dundas Waste Management Plan draft EASR	Comments & Rationale	Proposed Action/Solution	How Addressed in the EA
18	**Comparison to Do-Nothing** **13.11**	The purpose of comparing the preferred undertaking/project to the do nothing alternative is to highlight the advantages and disadvantages of proceeding with the project, rather than to confirm a preferred alternative. Table 13-32: Comparison of Do-Nothing to the Preferred Undertaking, does not clearly identify the advantages/disadvantages (trade-offs) for carrying out the proposed expansion.	Identify the advantages and disadvantages of expanding the Boyne Road Landfill by comparing the preferred undertaking to the do-nothing scenario which would be to closure of landfill when it reaches its approved capacity	Table 13-32 provided in Section 13.11 has been updated with additional details. It is noted that the comparison provided in Section 13.11 does not “confirm” the preferred alternative, it merely highlights the advantages and disadvantages of proceeding with the project.