DATE: February 4, 2019

REPORT TITLE: NORTH WEST BRAMPTON SHALE RESOURCES POLICY REVIEW REQUEST TO PROCEED TO A PUBLIC MEETING

FROM: Janette Smith, Commissioner of Public Works

RECOMMENDATION

That a statutory public meeting be scheduled for March 28, 2019 pursuant to Section 17(15) of the Planning Act to inform the public and to obtain its input with respect to a draft Regional Official Plan Amendment related to the removal of shale resource protection policies in the North West Brampton Urban Development Area;

And further, that a copy of the draft Regional Official Plan Amendment attached as Appendices I and II to the report of the Commissioner of Public Works, titled “North West Brampton Shale Resources Policy Review Request to Proceed to a Public Meeting” be forwarded to appropriate agencies, the Ministry of Municipal Affairs and Housing, the Ministry of Natural Resources and Forestry, the Cities of Brampton and Mississauga, and the Town of Caledon for their review and comments.

REPORT HIGHLIGHTS

- This report recommends that a statutory public meeting be held on March 28, 2019 to inform the public of proposed amendments to the Region of Peel Official Plan.
- On June 9, 2016, Regional Council provided direction to initiate a review of shale protection policies applying to the North West Brampton Urban Development Area.
- The North West Brampton Policy Area Review Study Report was completed and reported to Council in June 2018. The staff report and accompanying study provided an assessment of shale protection options and recommended policy direction.
- On June 28, 2018, Regional Council directed staff to prepare a draft regional official plan amendment in accordance with the recommendations provided in the staff report in order to commence the public consultation process.
- The draft amendment proposes to:
  - delete policies that protect shale resources in the urban portion of the North West Brampton Urban Development Area; and
  - retain policies that protect provincially significant shale resources within the Provincial Greenbelt Plan Area adjacent to the North West Brampton Urban Development Area.
- Initial consultations on the draft policies have occurred with Regional staff, local municipal staff, provincial staff, landowners and the Shale Brick Industry.
DISCUSSION

1. Background

On June 9, 2016, Regional Council gave direction to initiate a review of the shale resource protection policies applying to the North West Brampton Urban Development Area in the Regional Official Plan. Meridian Planning was retained to undertake a study to determine if revisions to the shale protection policies were appropriate and whether shale protection should continue or be removed, in whole or in part.

A study report titled “North West Brampton Policy Area Review Study Report” (the Study) was submitted to Regional Council on June 28, 2018 providing an assessment of shale protection options and recommended policy direction. Further to the study report and recommendations, Regional Council directed staff to undertake the following through Council Resolution 2018-605:

- prepare a draft amendment to the Regional Official Plan to delete the shale protection policies and High Potential Mineral Aggregate Resource Area mapping within the North West Brampton Policy Area, excluding that portion within the Greenbelt Plan Area;
- report back to Regional Council for direction to initiate formal public consultation on the amendment in accordance with the Planning Act; and
- continue stakeholder consultations with the Province, brick industry representatives and interested landowners in the North West Brampton Policy Area in advance of reporting back to Regional Council.

The study report and findings are available on the Region of Peel Planning webpage: peelregion.ca/planning/bramptonshale/

The purpose of this staff report is to request authorization to hold a statutory public meeting to seek public input on a draft Regional Official Plan Amendment (ROPA). Formal circulation of the ROPA, giving of notice of the public meeting, and the holding of a statutory public meeting is required under section 17 of the Planning Act prior to adoption of the ROPA.

Regional Council is not being requested at this time to make a final decision on the recommended draft amendment. The purpose of the public meeting is to provide an opportunity for the public to comment on the draft amendment prior to making a final recommendation to Regional Council. A final recommendation regarding adoption of the amendment will be provided to Council upon conclusion of the public consultation.

2. Findings

a) Summary of North West Brampton Shale Review Study Findings

The North West Brampton Shale Review Study (the Study) analyzed the provincial policy direction related to shale protection and sustainable growth management in relation to the North West Brampton context. This analysis concluded that shale resources in the North West Brampton Urban Development Area are provincially significant and accessible and are
subject to the policy direction for mineral aggregate resources in the Provincial Policy Statement, 2014. The Study found that the feasibility of extracting shale from the Study area is remote due to land acquisition costs and the need to purchase and merge multiple sites into one parcel and that the Regional Official Plan policy protection for shale resources should be removed. A 10-year moratorium preventing land use approvals for urban development had been imposed when the Regional Urban Boundary was expanded to include Northwest Brampton in 2006. No quarry applications have been made within the urban portion of the study area prior to or during the 10-year moratorium and no sites within the North West Brampton Urban Development Area have been acquired for the purposes of making an application for a new licence.

The Study concluded that the development of urban uses in the North West Brampton Urban Development Area is in the greater long-term public interest than protecting these same lands for shale extraction.

In order to implement the Study’s direction, it is recommended that the Regional Official Plan be amended by:

- Deleting the shale resources protection policies on all lands west of Mississauga Road within the North West Brampton Urban Development Area;

- Retaining shale resource protection within the Greenbelt Plan Area; and

- Amending Schedule C in the Regional Official Plan to remove the identification of High Potential Mineral Aggregate Resource Area on all lands west of Mississauga Road excluding that portion outside the Regional Urban Boundary within the Greenbelt Plan Area.

Further background on the Study and policy review is provided in staff reports to Regional Council dated June 9, 2016 and June 28, 2018. Copies are available from the Office of the Regional Clerk or the Region of Peel website: peelregion.ca/planning/bramptonshale/

3. Proposed Regional Official Plan Amendment

A draft Regional Official Plan Amendment has been prepared based on the results of the North West Brampton Shale Resources Policy Review (see Appendix I).

The draft amendment proposes to remove all of the shale protection policies within the North West Brampton Urban Development Area west of Mississauga Road, excluding that portion outside the Regional Urban Boundary within the Provincial Greenbelt Plan Area.

It is also recommended that the mapping of High Potential Mineral Aggregate Resource Area on Schedule C in the Regional Official Plan be amended to remove the identification of High Potential Mineral Aggregate Resource Area on all lands within the North West Brampton Urban Development Area west of Mississauga Road, excluding that portion outside the Regional Urban Boundary within the Greenbelt Plan Area. The identification of High Potential Mineral Aggregate Resource Area within the Greenbelt Plan Area is recommended to be retained and revised based on updated provincial mapping of shale resources in Peel, excluding areas where mineral aggregate extraction is prohibited in policy.
3.3.2.3 of the Regional Official Plan. The changes to Schedule C are illustrated in Appendix I. Further information on the recommended mapping refinements to the High Potential Mineral Aggregate Resource Area on Schedule C is provided in Appendix II.

The new policy framework would continue to permit shale extraction to occur within North West Brampton, should a licence be sought, without an amendment to the Brampton Official Plan. These policies continue to be relevant to the implementation of the Provincial Policy Statement and are consistent with the 2005 Ontario Municipal Board Minutes of Settlement, and the more recent settlement agreement between the City of Brampton and Brampton Brick Ltd. The 2005 Ontario Municipal Board settlement agreement resolved issues between the Province, the Region and the City of Brampton regarding shale protection. Regional staff will further consider the need to include the exemption policy in the final drafting of the amendment upon review of comments received.

4. Conformity with Provincial Plans and Policies

A detailed analysis of the relevant Provincial Policy Statement, 2014 and Growth Plan, 2017 policies, in relation to the protection of aggregate resources and planning for growth, was undertaken by Meridian Planning and is provided in the Study Report. Based on this information, Regional staff confirm that the proposed amendment conforms with the applicable provincial plans and policies.

5. Relation to Other Strategic Initiatives

The shale protection policy framework impacts the overall planning for the Heritage Heights secondary planning area. Heritage Heights includes lands that overlap with the shale protection area. In October 2017, Regional Council endorsed a proposed allocation of population and employment for the Region to 2041 for consultation purposes as part of the current five-year review of the Regional Official Plan (Peel 2041) and a preliminary land budget which allocates additional growth to Heritage Heights to accommodate projected growth in the City of Brampton.

As the Region and City continue to study and plan for this area, a determination of shale protection in North West Brampton is required to provide greater certainty for planning growth in a comprehensive, integrated and efficient manner. The recommended Regional Official Plan Amendment addresses this need.
CONCLUSION

Through the public consultation process stakeholders will have the opportunity to provide comments on the proposed amendments to the North West Brampton Policy Area framework in the Regional Official Plan. Following the receipt of stakeholder feedback staff will evaluate the proposed policy. A report will then be brought to Regional Council with a request to adopt the Regional Official Plan Amendment.

Janette Smith, Commissioner of Public Works

Approved for Submission:

D. Szwarc, Chief Administrative Officer

APPENDICES

Appendix I – Draft Regional Official Plan Amendment to the Removal of Shale Resources Policies in the North West Brampton Urban Development Area
Appendix II – Recommended Mapping Refinements to the High Potential Mineral Aggregate Resource Areas in North West Brampton

For further information regarding this report, please contact Steve Jacques, Director, Regional Planning and Growth Management Division, extension 4625, Steve.Jacques@peelregion.ca

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Reviewed in the workflow by:

Legal Services
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REGION OF PEEL

REGIONAL OFFICIAL PLAN

REGIONAL OFFICIAL PLAN AMENDMENT NUMBER ___

AN AMENDMENT TO UPDATE THE SHALE RESOURCES PROTECTION POLICIES IN THE NORTHWEST BRAMPTON URBAN DEVELOPMENT AREA
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THE CONSTITUTIONAL STATEMENT

Part A, THE PREAMBLE, does not constitute part of this Amendment

Part B, THE AMENDMENT, consisting of amendments to the Text, Schedules, and Figures of the Region of Peel Official Plan, constitutes Amendment Number ____ to the Region of Peel Official Plan.
PART A – THE PREAMBLE

Purpose of the Amendment:

The purpose of this Amendment is to remove the policies that protect the provincially significant shale resources in the North West Brampton Urban Development Area and delete the High Potential Mineral Aggregate Resources Area identification on all lands west of Mississauga Road, excluding that portion outside the Regional Urban Boundary within the Provincial Greenbelt Plan Area.

Location:
This Amendment applies to lands in the City of Brampton legally described as Part of Lots 7 to 17, Concession 5 and Part of Lots 8 to 14, Concession 6 West of Centre Road (now Hurontario) as shown on Schedule A, attached to this amendment.

Basis:

Establishment of the North West Brampton Urban Development Area

On June 16, 2005, Regional Council adopted Regional Official Plan Amendment 15 (ROPA 15) which extended the Regional Urban Boundary to include all of the lands west of Mississauga Road, south of Mayfield Road, North of the Greenbelt Boundary and East of Winston Churchill Boulevard, known as the “North West Brampton Urban Expansion Area” within the Region’s Urban System. ROPA 15 was appealed to the Ontario Municipal Board (OMB) and an OMB decision that implemented minutes of settlement among the parties was issued in December 2006. Through the Minutes of Settlement, the Region agreed to include shale protection policies in the Regional Official Plan to provide for the continued protection of shale resources in advance of urban development, recognizing that the population and employment forecasts that are the basis of the Regional Official Plan will ultimately require the development of all of North West Brampton to accommodate growth. The Region also agreed to insert official plan policies that prohibited any amendments to the NWBPA for a period of at least ten years following approval of the policy. The ten year moratorium on the review of the NWBPA policy expired on December 16, 2016 upon which the Region commenced a study to review the policies.

North West Brampton Shale Resources Policy Review Study

The North West Brampton Policy Area Review Study has been completed by Meridian Planning in Spring 2018. The study concluded that although shale resources in North West Brampton are provincially significant and accessible, the Regional Official Plan policy protection of shale resources for extraction should be removed. The study found that the feasibility of extracting shale from the study area is remote due to land assembly and land cost constraints. No quarry applications were made within the urban portion of the Policy Area prior to or during the 10-year moratorium and no sites within the North West Brampton Urban Development Area have been acquired for the purposes of making an application for a new licence.

The Study Report concluded that urbanization of the North West Brampton Urban Development Area serves a greater long-term public interest than protecting the lands for shale extraction. The report concluded that the North West Brampton Urban Development Area lands have been approved to accommodate growth to 2031 and are currently being planned to accommodate additional population.
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and employment growth to 2041 in accordance with policy direction in the Provincial Policy Statement and Growth Plan. It further concluded that servicing cost implications of continued shale protection scenarios varied and are potentially significant based on an economic analysis of impacts. There would be significant implications to the Region’s growth management and infrastructure planning programs if shale resource protection policies continued because the planned population and employment growth within Heritage Heights would need to be accommodated elsewhere in the Region, along with associated servicing costs. Partial shale protection options were considered and were determined to have the highest potential infrastructure cost implications as new infrastructure would be required in other greenfield locations in order to accommodate growth displaced by shale protection and to service the population and employment that would continue to be located in North West Brampton. The study confirmed that extending urban development in Heritage Heights is logical and aligns with planned community, infrastructure and institutional investments.

The study’s recommendations to remove shale protection would result in the release of all lands inside the Regional Urban Boundary in the Heritage Heights Secondary Plan Area for urban development thereby not resulting in financial implications to the Region’s infrastructure programs as development would proceed in accordance with planned improvements.

**Draft Regional Official Plan Amendment Policy Framework**

The draft Regional Official Plan Amendment implements the direction of the North West Brampton Policy Area Review Study by deleting the shale protection policies on all lands west of Mississauga Road within the North West Brampton Policy Area excluding that portion outside the Regional Urban Boundary within the Greenbelt Plan Area. The revisions to remove the shale protection policies would release the lands for urban development and allow the completion of planning approvals necessary to permit urban development to proceed in accordance with staging and phasing acceptable to the City and Region.

The implementation of the recommendations to release lands for urban development will require a corresponding amendment to Schedule C in the Regional Official Plan to remove the identification of High Potential Mineral Aggregate Resource Area on all lands west of Mississauga Road excluding that portion outside the Regional Urban Boundary within the Greenbelt Plan Area. High Potential Mineral Aggregate Resource Area mapping within the Greenbelt Plan Area is recommended to be amended in accordance with updated shale resource mapping provided by the Province.

The draft amendment proposes to retain policies that permit shale extraction without an amendment to the City of Brampton Official Plan on all lands west of Mississauga Road. The policy continues to be relevant to the implementation of provincial policy direction for shale resources. Policies permitting shale extraction to proceed without an amendment to the Brampton Official Plan would continue to be subject to policies included in the Brampton Official Plan governing the rezoning of the lands for mineral extraction in the City’s zoning by-law, and subject to the approval requirements and the issuance of a licence under the Aggregate Resources Act.
PART B – THE AMENDMENT

Amendments to Text and Schedules

1. Chapter 5, Regional Structure, is amended by deleting Policy 5.3.4.1.6 in its entirety and replacing it with the following:

“5.3.4.1.6 To provide for the availability and use of shale resources within the North West Brampton Urban Development Area and provide for the continued protection and use of shale resources in the Greenbelt Plan Area adjacent to North West Brampton Urban Development Area.”

2. Chapter 5, Regional Structure, is amended by deleting policies 5.3.4.2.2 f) and g) in their entirety and replacing them with the following:

“5.3.4.2.2 f) That shale extraction be permitted and that the protection of provincially significant shale resources identified as High Potential Mineral Aggregate Resource Area (HPMARA) on Schedule C of this Plan be continued in accordance with the following:

i) The population, household and employment forecasts that are the basis of the Regional Official Plan require the utilization of all of the North West Brampton Urban Development area to accommodate growth;

ii) Shale resources shall be protected, in accordance with the policies of Section 3.3 within the area identified as HPMARA on Schedule C in the Provincial Greenbelt Plan Area;

iii) The extraction of shale shall be permitted to occur on all lands in the North West Brampton Urban Development Area and in the Provincial Greenbelt Plan Area without an amendment to the City of Brampton Official Plan, subject to policies to be included in the City of Brampton Official Plan governing the rezoning of the lands for mineral extraction in the City’s zoning by-law, and subject to the issuance of a licence under the Aggregate Resources Act;

iv) Notwithstanding the permissions for shale resource extraction, the City of Brampton is permitted to undertake secondary planning for land-uses in the North West Brampton Urban Development Area, subject to studies to determine appropriate separation, buffering and mitigation of land uses adjacent to lands identified as HPMARA in the Provincial Greenbelt Plan Area or adjacent to sites within the North West Brampton Urban Development Area that are subject to an application for a licence, or are licensed, for extraction under the Aggregate Resources Act.

v) The City shall ensure that any shale extraction operation will not unduly restrict alternatives for the planning of a potential North-South Higher Order Transportation Corridor or alternatives for other infrastructure and transportation uses within the Northwest GTA Corridor Identification Study Area as identified by the Ministry of Transportation;

vi) The establishment of land uses within the North West Brampton Urban Development Area adjacent to HPMARA which could preclude or hinder future shale extraction shall only be
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permitted in accordance with the policies of Section 3.3 of this Official Plan and the applicable provincial policies.

vii) With the exception of policies 3.3.2.2 and 3.3.2.5, the policies of Section 3.3 of the Region of Peel Official Plan shall continue to apply for the purpose of permitting shale extraction without an amendment to the City of Brampton Official Plan;

viii) The City shall reflect and designate the HPMARA as shown on Schedule C, as amended.”

3. Schedule C, High Potential Mineral Aggregate Resource Areas (HPMARA) is amended by deleting the High Potential Mineral Aggregate Resource Areas shown in red hatching on Schedule A, attached hereto, adding in the High Potential Mineral Aggregate Resource Areas shown in green and by making such other housekeeping amendments to Schedule C of the Regional Official Plan to update the format and appearance of the Schedule.
Schedule A to the Regional Official Plan Amendment __ - Proposed Changes to the High Potential Mineral Aggregate Resources Area Shown on Schedule C to the Region of Peel Official Plan

November 2018
Methodology for Identifying
High Potential Mineral Aggregate Resource Areas (HPMARA)
in North West
Brampton
APPENDIX II
NORTHWEST BRAMPTON SHALE RESOURCES POLICY REVIEW
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Methodology for Identifying High Potential Mineral Aggregate Resource Areas (HPMARA) in North West Brampton

Objective
The purpose of this report is to document the methodology that was used to update and refine the identification of High Potential Mineral Aggregate Resources Areas (HPMARA) mapping on Schedule C to the Regional Official Plan to implement the recommendations of the North West Brampton Shale Resources Policy Review. The proposed mapping refinements have been incorporated into the proposed schedule attached to the draft Regional Official Plan Amendment. The proposed revisions have also been incorporated into a proposed office consolidation version of Schedule C with updated formatting for information and reference purposes which is attached to this appendix.

Background
The Regional Official Plan identifies High Potential Mineral Aggregate Resource Areas (HPMARA) on Schedule C, in accordance with the Provincial Policy Statement, 2014 policy 2.4.2.1. The Regional HPMARA represents the lands which contain primary and secondary sand and gravel resource areas and selected bedrock resource areas that are not constrained by provincial or municipal policies which prohibit aggregate resources extraction.

The existing HPMARA on Schedule C was created in 2001. The criteria that were used to create the HPMARA identification in North West Brampton were updated through Regional Official Plan Amendment 21B in to reflect provisions in the Greenbelt Plan that prohibit new or expanding mineral aggregate extraction in significant natural heritage features. As a result the Official Plan, Schedule C must be amended to reflect these changes. The proposed amendment reflects changes to:

1. Provincial mapping of mineral aggregate bedrock resources (base map)
2. Regional mapping of the Core Areas of the Greenland System (constraints)
3. Areas of registered plans of subdivisions and/or settlement (constraints)

The methodology used to produce the amended Schedule C is provided below.

Amendment Methodology
Step 1: Identify the Existing North West Brampton HPMARA (2001) Base Data Layers

The base Geographic Information System (GIS) layer that was used to produce the original North West Brampton HPMARA (2001) is composed of a bedrock resources data set as provided by the Ministry of Northern Development and Mines (MNDM) through the Land Information Ontario (LIO) portal. The 2001 North West Brampton HPMARA excludes those areas which fall within the Core Areas of the Greenlands System, Escarpment Protection Areas (Niagara Escarpment Plan), registered plans of subdivision, and/or settlement areas in 2001.
Step 2: Identify the Updated Provincial Mapping (base map)

In 2009, the Ontario Geologic Survey released new bedrock resources mapping data in an update to the Aggregate Resources Inventory Paper (ARIP) for Peel Region referenced as ARIP 165 – REV. The bedrock mapping data provided in the Provincial ARIP mapping reports prepared by the Ontario Geological Survey (OGS) from 1980 to 2015 were subsequently compiled and further refined in 2015 and released in a GIS data compilation referenced as The Aggregate Resources of Ontario—2015 (or ARO—2015). The ARO – 2015 data was obtained and used as the basis for updating HPMARA mapping in North West Brampton as it provides the most recent aggregate resources mapping data for Peel.

The mapping of the areal extent of bedrock formations contained in the ARIP/ARO data and that is considered potentially available for extraction is determined from bedrock geology maps, overburden drift thickness and bedrock topography maps, and from the interpretation of water well records, oil and gas well data and geotechnical test hole data. Areas where bedrock resources may be accessible are delineated based on depth of overburden (drift thickness). Areas where bedrock outcrops or is within 1 m of the ground surface are considered potential resource areas because of their easy access. Resource areas are also considered accessible where drift thickness is up to 8 m. Bedrock areas overlain by 8 to 15 m of overburden may provide resources which have extractive value only in specific circumstances. Outside of these delineated areas (<1m, 1m to 8m and 8m to 15m), the bedrock is assumed to be covered by more than 15 m of overburden, a depth generally considered to be too great to allow economic extraction (unless part of the overburden is composed of economically attractive deposits) (OGS ARIP 165 REV, 2009).

The North West Brampton Shale Policy Review Study reviewed the OGS ARIP reports and opinions obtained from the shale brick industry and concluded that bedrock areas having an overburden depth less than 8 m was preferred by the industry and have the greatest potential for shale extraction. For the purposes of refining the identification of HPMARA in the Greenbelt portion of Northwest Brampton, areas of bedrock overlain by drift thickness up to 8 m in depth were selected from the GIS data to identify areas with the greatest potential for extraction.

Step 3: Identify Policy Requirement Constraints

A constraints analysis was then completed in order to identify areas that are not available for future extraction based on current provincial and municipal policies (“take-outs”). The following policies which are applicable in North West Brampton identify features or areas that are off limits to aggregate extraction, and would prevent access to the aggregate resources:

a) Greenbelt Plan s.4.3.2(3)(a)

1. No new mineral aggregate operation and no new wayside pits and quarries, or any ancillary or accessory use thereto, shall be permitted in the following key natural heritage features and key hydrologic features:
   i. Significant wetlands;
ii. Habitat of endangered species and threatened species; and
iii. Significant woodlands, unless the woodland is occupied by young plantation or early
successional habitat (as defined by the Ministry of Natural Resources and Forestry). In
this case, the application must demonstrate that sections 4.3.2.6 (b), (c) and 4.3.2.7 (c)
have been addressed and that they will be met by the operation;

b) Region of Peel Official Plan s.3.3.2.3

Prohibit new or expanded mineral aggregate extraction sites and wayside pits and quarries or any
ancillary or accessory uses thereto, in the following areas:

a) the Core Areas of the Greenlands System;
b) the Escarpment Protection Area of the Niagara Escarpment Plan;
c) the Natural Core Areas as designated within the Oak Ridges Moraine Conservation Plan
Area;
d) Key natural heritage features and hydrologically sensitive features and the associated
minimum vegetation protection zone, as defined by the Oak Ridges Moraine Conservation
Plan, within the Oak Ridges Moraine Conservation Plan Area, except as permitted by the
Oak Ridges Moraine Conservation Plan; and
e) Significant woodlands within the Greenbelt Natural Heritage System unless the woodland is
occupied by early successional habitat or young plantation. The prohibition within
significant woodlands within the Greenbelt Natural Heritage System applies only to new
mineral aggregate extraction sites and wayside pits and quarries and their ancillary or
accessory uses.
f) Approved settlement areas as designated in area municipal official plans in the Rural
System, and registered plans of subdivision, unless permitted by the area municipality
pursuant to Policy 3.3.2.2.

The Greenbelt Plan mapping, which delineates the features in which aggregate extraction is prohibited
was produced by the Province and acquired by the Region. The datasets showing settlement areas,
registered plans of subdivisions and the Core Areas of the Greenlands System is produced, and regularly
updated, by the Peel Data Centre based on criteria provided in the Regional Official Plan. It should be
noted that according to Regional Official Plan policy 2.3.2.3 for the purpose of defining the Core Areas of
the Greenlands System for mineral aggregate resource extraction uses within the Rural System, define
Core woodlands as all woodlands that are a minimum of 30 hectares in size and exclude as Core valley
and stream corridors all valley and stream corridors that have a drainage area of less than 125 hectares.

Step 4: Refinement of the HPMARA Mapping

Further refinement of the HPMARA was undertaken to address fragmentation of small parcels which are
the result of the constraints analysis. The refinement criteria is based on the “Criteria for Refinement of
Fragmented Caledon HPMARA Lands” as documented in the Caledon Community Resources Study, 1999
(CCR 1999). The CCR 1999 was prepared to develop a model for the management of aggregate
resources in the Town of Caledon and was used to delineate and refine the Regional HPMARA aggregate resources mapping in the Town of Caledon Plan.

The CCR 1999 criteria for determining fragmented HPMARA lands, which would be subsequently removed, that would be applicable within North West Brampton include:

1. The area is too small in size to be economically viable for licensing as a pit or quarry.
2. Irregular or long narrow shape which is impractical to extract properly because of required setbacks, sloping, buffers, etc., of a normal licensed operation.
3. Isolated location from other aggregate resources areas or along (or straddling) a roadway.

Step 5: Update the North West Brampton HPMARA

The proposed amended Schedule C to the Official Plan was produced by:

- Starting with the 2001 North West Brampton HPMARA data layer as a base layer (Step 1).
- Adding areas of newly identified provincially significant bedrock which was identified by MNDM in 2009 and 2015, which updated provincial mapping from the 2001 data layer (Step 2).
- Removing the areas of bedrock which are no longer identified as provincially significant bedrock by MNDM in 2009 and 2015 using updated provincial mapping data (Step 2).
- Removing areas which are identified in the Greenbelt Plan or the Regional Official Plan as not permitting aggregate extraction to occur (Step 3 policy constraints).
- Removing fragmented small areas of isolated resources which meet the refinement criteria (Step 4 final refinements).

Mapped Illustration of Additions and Deletions to HPMARA in North West Brampton (attached)
Map of Features and Areas where Aggregate Extraction is not Permitted, including Prohibited Features and Areas (Regional Official Plan Policy 3.3.2.3)

December 2018

Legend:
- High Potential Mineral Aggregate Resource Area to be added
- High Potential Mineral Aggregate Resource Area to be deleted
- Fragmented High Potential Mineral Aggregate Resource Area to be deleted
- Existing High Potential Mineral Aggregate Resource Area
- Provincial Greenbelt Plan Boundary
- Regional Urban Boundary
- Significant Woodlands >= 4 ha in the Greenbelt
- Core Areas of the Greenland System

This Schedule forms part of the Region of Peel Official Plan and should be read in conjunction with the Plan’s written text and with the area municipal official plans.

Information outside of Peel Region is shown on this Schedule for illustrative purposes to display inter-regional linkages.

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