



Proposed CBM Caledon Quarry
Virtual Update Meeting with Neighbours

March 2021

Thank you for joining!
The meeting will start shortly.

 **Votorantim**
Cimentos

 **CBM Aggregates**



Meeting Format

- CBM and the project team will provide a presentation with information about the proposed Caledon Quarry. The slide deck shared during this presentation will be made available on the project website.
- During the presentation, attendees are welcome to leave questions in the chat window. These questions will be addressed during the question and answer (Q&A) portion of the virtual meeting, which will be held after the presentation is finished.
- **Microphones of attendees will be muted through the presentation.**
- Once the presentation is complete, CBM and the project team will answer questions. At this point, you can use the “raise hand” function, and you will be added to the Q&A queue. Once it is your turn, your microphone will be unmuted, and you’ll be asked to speak. During the Q&A session, CBM will also run through questions raised in the chat window.
- **CBM looks forward to hearing your questions and having a meaningful and respectful discussion with attendees.**
- Please note that this meeting is being recorded.





CBM Aggregates

David Hanratty, Director of Land & Resources (Presenter)

Mike Le Breton, Land & Resources Manager

Jennifer DeLeemans, Land & Resources Supervisor



Glen Schnarr & Associates Inc.

Karen Bennett (Presenter)

Glen Schnarr

Sarah Clark



Golder Associates Ltd.*

Alyson Beal (Presenter)

Heather Melcher (Presenter)

Ana Rincon-Gomez



Campbell Strategies

Kevin Powers

*On December 3, 2020, Golder announced that it has entered into a definitive agreement to be acquired by WSP Global, a publicly traded company. This transaction is pending court and regulatory approvals and is anticipated to close in the first half of 2021. Until closing, Golder and WSP remain independent companies

Who is CBM Aggregates?

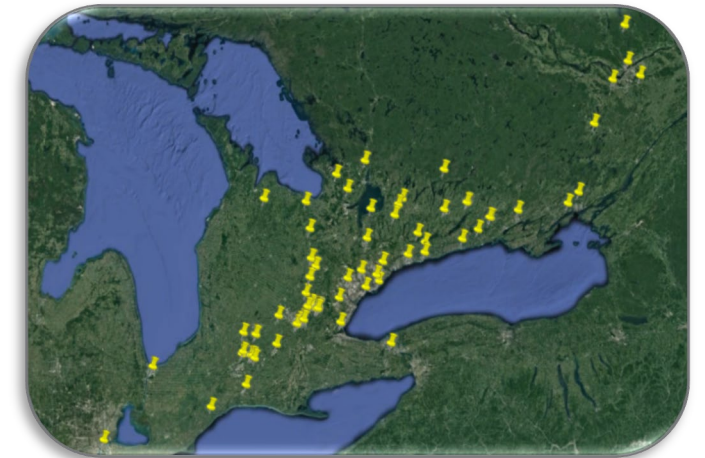
St. Marys Cement Inc. (Canada)

- Leading supplier of cement, concrete (CBM Ready Mix) and aggregates (CBM Aggregates) in Ontario.
- St. Marys Cement Inc. (Canada) employs over 1,300 people in Ontario.

CBM Aggregates (CBM)

- We safely operate nearly 60 pits and quarries licences in Ontario.
- We work closely with communities to minimize and manage the environmental effects of our operations.

CBM and St. Marys Cement Inc. (Canada) are part of the North American operations of international building materials supplier **Votorantim Cimentos**.



St. Marys sites across southern Ontario



What is Aggregate?

Aggregate is stone, sand and gravel used in construction and products in everyday life.

- When solid rock material is extracted for aggregate it is called a **quarry**.
- **Pits** are located in areas where glaciers left deposits of sand and gravel.

On average,
approximately 164 million
tonnes of aggregate are used
in Ontario each year.

That's about 12 tonnes
annually per person!

By 2045, the population
of the GTA is expected
to increase from 6 million
to 10 million

What is CBM Proposing?

Proposed Aggregate Quarry

Located in the vicinity of Charleston Sideroad and Main Street/Regional Road 136, Caledon.

The area contains the highest quality limestone used for aggregate in the province.

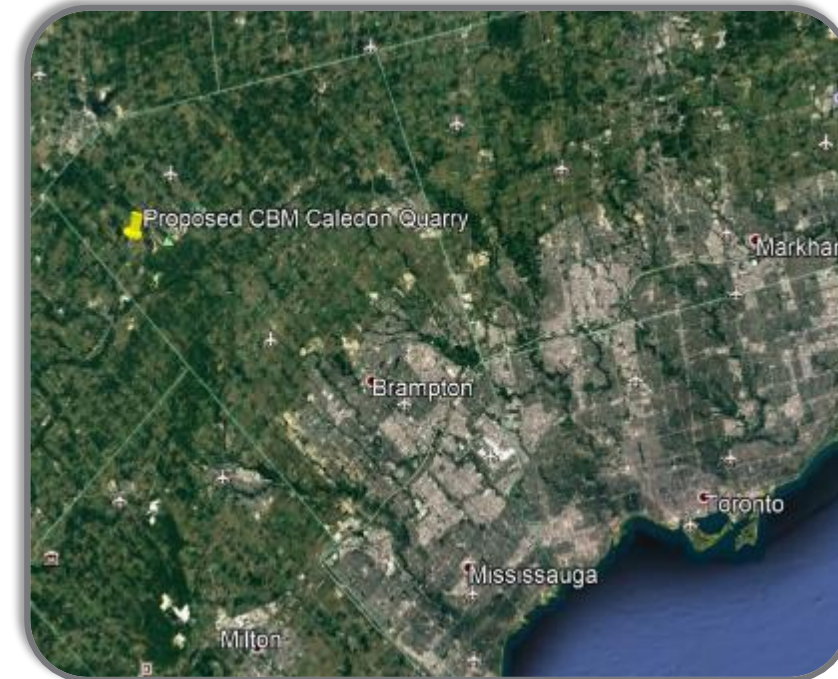
Project is in the early stages – no studies have been fully completed to date.

Technical Studies initiated in early 2020 and currently on-going to understand feasibility for extraction.

If found to be feasible and a licence is granted, aggregate extraction would be completed in stages.

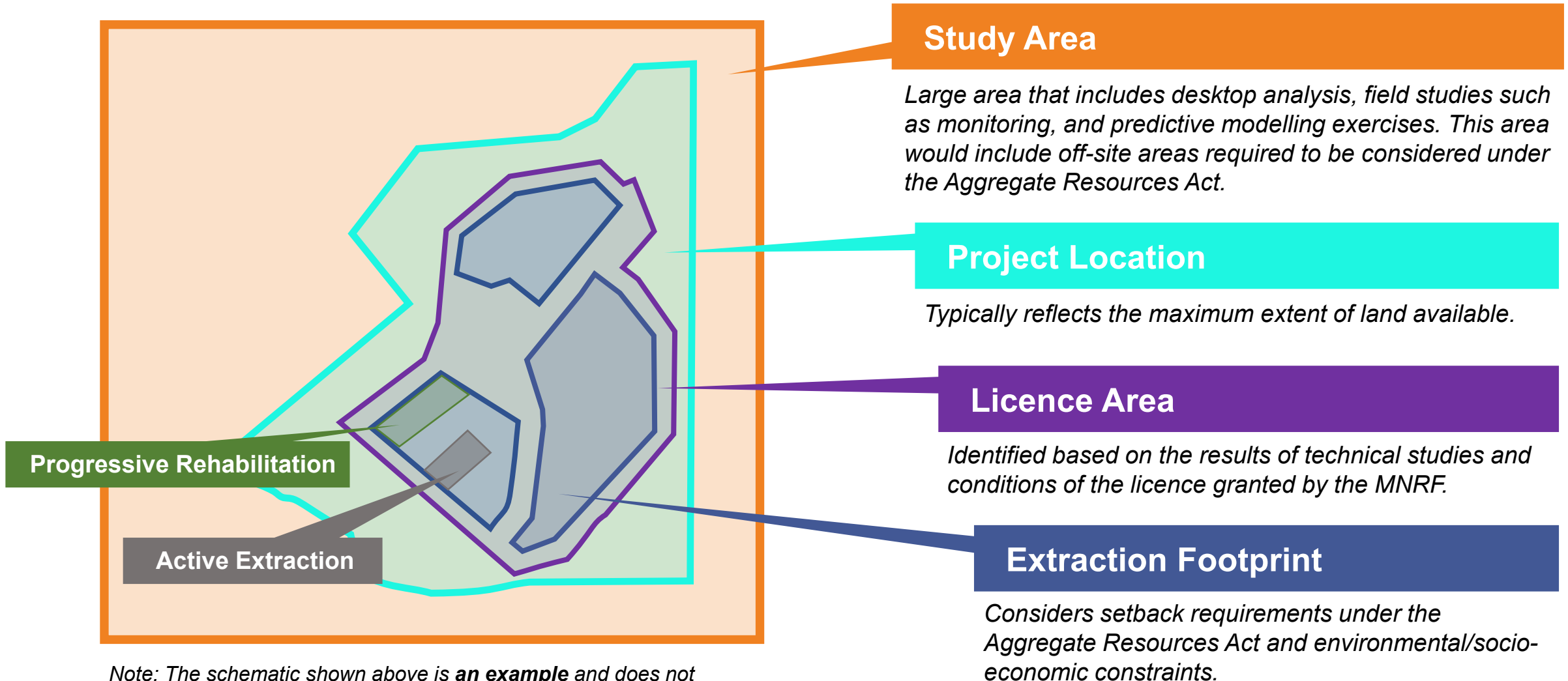
Areas that are extracted are then progressively rehabilitated.

The proposed quarry will require approvals under the *Aggregate Resources Act* and the *Planning Act*



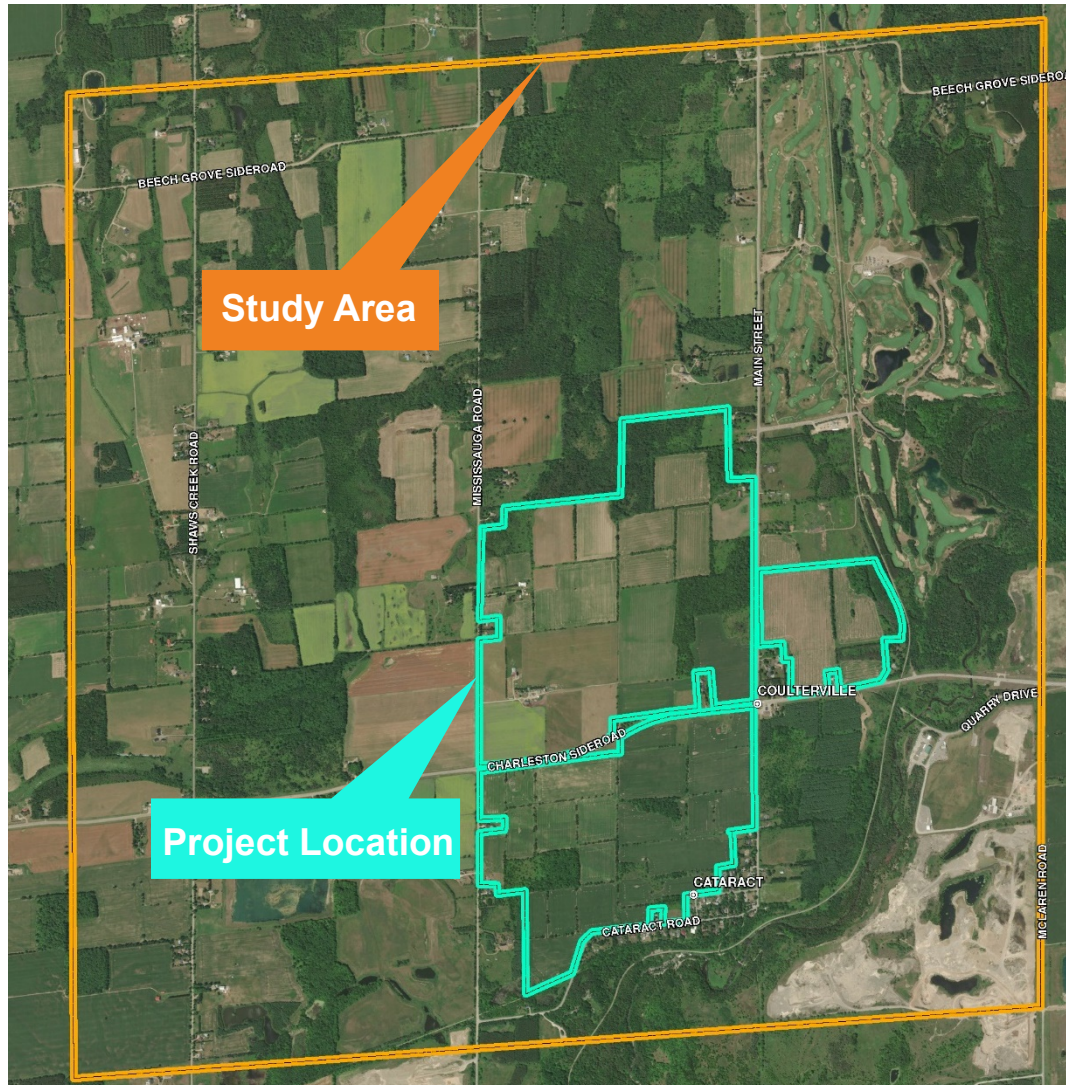
Proposed location for the CBM Caledon Quarry

Steps to Defining a Proposed Extraction Footprint



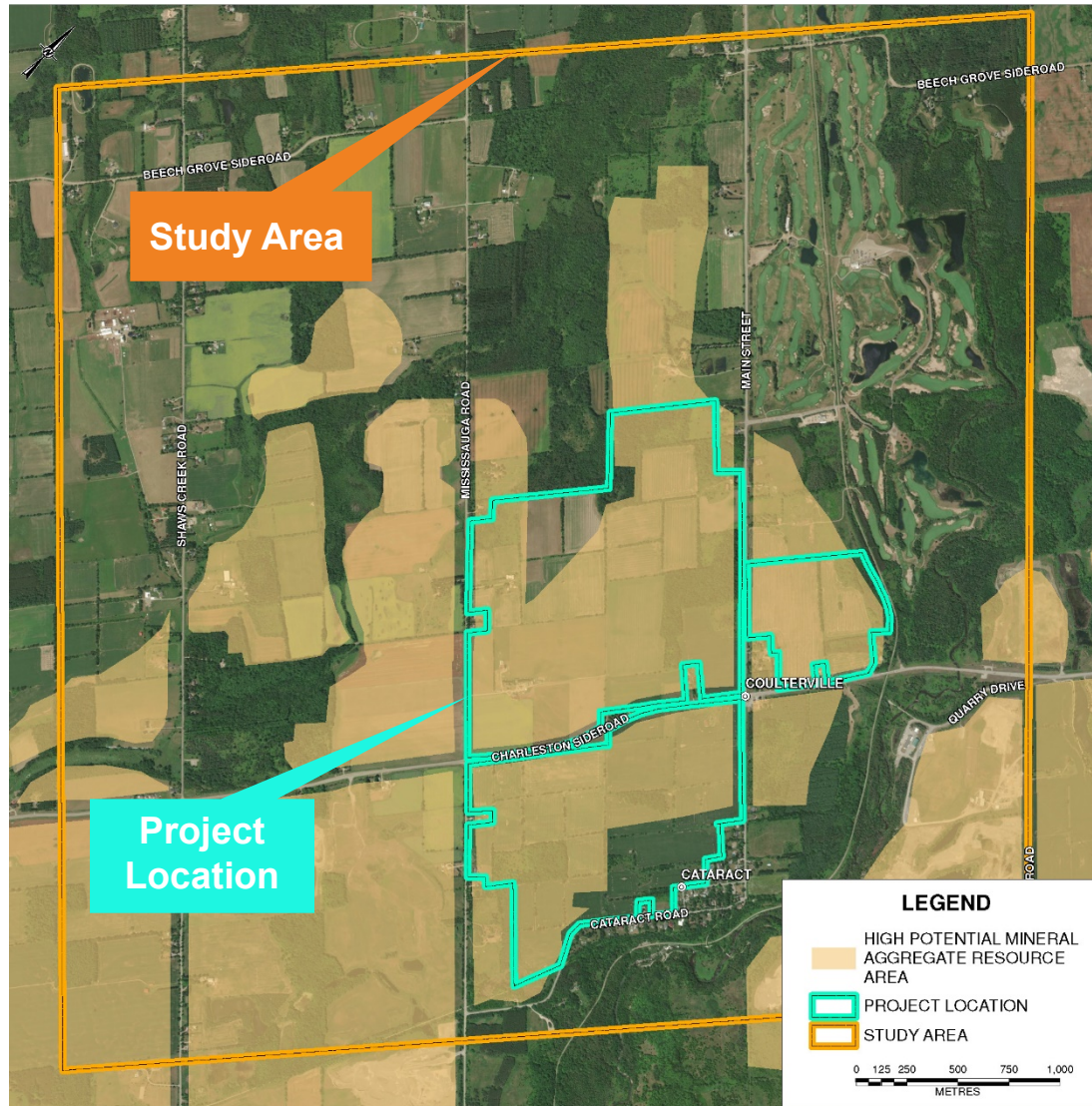
*Note: The schematic shown above is **an example** and does not represent the lands subject to this application.*

Study Area and Project Location



- Assessments and studies are being completed within the **Study Area** to understand the existing conditions within the boundary of the **Study Area** as it relates to feasibility of extraction within the **Project Location**.
- The **Project Location** reflects the existing boundaries of the properties being closely examined that are under control of SMC (totaling approximately 321 hectares).
- The **Project Location** is adjacent to both existing and historical aggregate extraction operations.
- The **Licence Area** and proposed **Extraction Footprint** are yet to be defined and would be set back from the **Project Location** boundary.
- CBM will keep the community informed as more information becomes available.

Prioritization of this Resource Area in Caledon



- The Region of Peel and Town of Caledon each went through an extensive exercise in the late 1990s/early 2000s to identify the location of important aggregate deposits in their Official Plans to protect them for future extraction pursuant to the Provincial Policy Statement.
- **The Region of Peel** - identifies High Potential Mineral Aggregate Resource Areas (HPMARA) in their Official Plan (Schedule C).
- **The Town of Caledon** – identifies Caledon High Priority Mineral Aggregate Resource Areas (CHPMARA) in their Official Plan (Schedule L) to be consistent with HPMARA per the Regional Plan.
- The bedrock is considered a provincially significant, high-quality resource.

Resource & Hydrogeology

Surface Water Resources

Natural Environment

Archaeology

Visual

Noise, Blasting and Air Quality

Built Heritage Resources and
Landscapes

Agricultural Land

Traffic

Land Use Planning

Purpose

- Assist in determining the feasibility of the project, characterize existing conditions, predict future conditions and support the required applications under the *Aggregate Resources Act* and *Planning Act*.
- Assess potential effects of the project on the environment and the community, and identify if mitigation or management solutions are required.

Schedule

- Field work commenced in February 2020 and will be on-going through 2021 until the technical reports are submitted in support of a licence application, likely in early 2022.
- Monitoring will be on-going until such time as a decision is made on the licence, after the ARA and Planning processes are complete.
- **Information and data are being collected but no studies have been completed.**

CBM's Commitment

- Minimize the impact on the environment and surrounding community.
- Meet or exceed environmental regulations.

Technical Studies

Resource & Hydrogeology

What Does the Study Entail?

- Exploratory drilling and associated studies to understand the geology in the area, and to confirm the location and quality of the aggregate resource.
- Installation of monitoring wells to characterize existing groundwater conditions.
- Assessment of potential effects on surrounding water wells and natural environment with respect to quantity and quality of groundwater, to ensure no significant impacts are realized as a result of the operation.

Work Completed to Date

- Boreholes were drilled across the study area. Drilling will continue in 2021.
- Monitoring wells were installed to collect groundwater level data.
- Testing at the monitoring wells to determine the hydraulic properties of the rock.
- Groundwater monitoring is ongoing and will continue in 2021 and beyond.



*Rock core
sampled during
exploratory
drilling*



*Overburden
sampled during
exploratory
drilling*



*Casing of
installed
groundwater
monitoring well*

Technical Studies

Surface Water Resources

What Does the Study Entail?

- Characterization of existing surface water features (e.g., watercourses).
- Assessment of potential effects on surface water features, to ensure no significant impacts are realized as a result of the operation.

Work Completed to Date

- Background desktop study
- Features in the study area, including the Credit River, were surveyed (channel characteristics, areas of groundwater seepage, baseflow estimates).
- Monitoring stations were installed to characterize water level and flow variations.
- Water level data was collected throughout 2020 and will continue in 2021 and beyond.



Monitoring station at a local pond



Stream monitoring station

Technical Studies

Natural Environment

What Does the Study Entail?

- Characterization of existing natural environment features.
- Assessment of potential effects on those features and their ecological functions, to ensure no significant impacts are realized as a result of the operation.

Work Completed to Date

- Background desktop study.
- Plant inventory and classification of vegetation communities (including wooded areas) are ongoing.
- The following wildlife surveys are being completed:
 - Amphibian surveys
 - Bat habitat assessment and bat acoustic surveys
 - Breeding bird surveys
 - Turtle habitat assessment
- Fish habitat surveys are being completed at watercourses.



Natural environment features in the study area



Technical Studies

Archaeology

What Does the Study Entail?

- Archaeological assessments are being completed to identify potential archaeological resources and their significance.

Work Completed to Date

- Background research (Stage 1 archaeological assessment) was completed to identify archaeological potential.
- Archaeological fieldwork (Stage 2 archaeological assessment) was initiated, including both shovel test pitting and field-walking surveys.
- Archaeological surveys will continue in 2021 once weather conditions are appropriate.
- Indigenous communities have sent representatives to participate in the archaeological field work completed so far.



*Field crew
conducting
shovel test
pitting surveys*



*Field crew
conducting
field-walking
surveys*

Technical Studies

Visual

What Does the Study Entail?

- Develop visual simulations of the project location and its surroundings to illustrate the existing visual character, and potential visual effects.

Work Completed to Date

- A photographic field survey was completed from publicly accessible viewpoints and viewpoints on the project lands, with a variety of viewing landscapes:
 - Close proximity to residences
 - Hamlet of Cataract
 - Open agricultural fields
 - Woodlots
 - Roadsides
 - Places of business
 - Recreational trails
- Baseline panoramas are being completed for these viewpoints.

Viewpoint on Cataract Road (Hamlet of Cataract), looking west



Technical Studies

Other studies that have been initiated and will continue in 2021 include:

Noise, Blasting & Air Quality

- A noise and vibration impact assessment will identify potential effects on sensitive receptors.
- A blasting assessment will be completed that includes ground and air vibrations, and flyrock potential.
- An air quality assessment will quantify baseline air quality, including dust, and assess potential changes.

Built Heritage Resources and Landscapes

- Identify known and potential built heritage resources and landscapes.

Agricultural Land

- Assess effects on agricultural land and agricultural activities.



Technical Studies

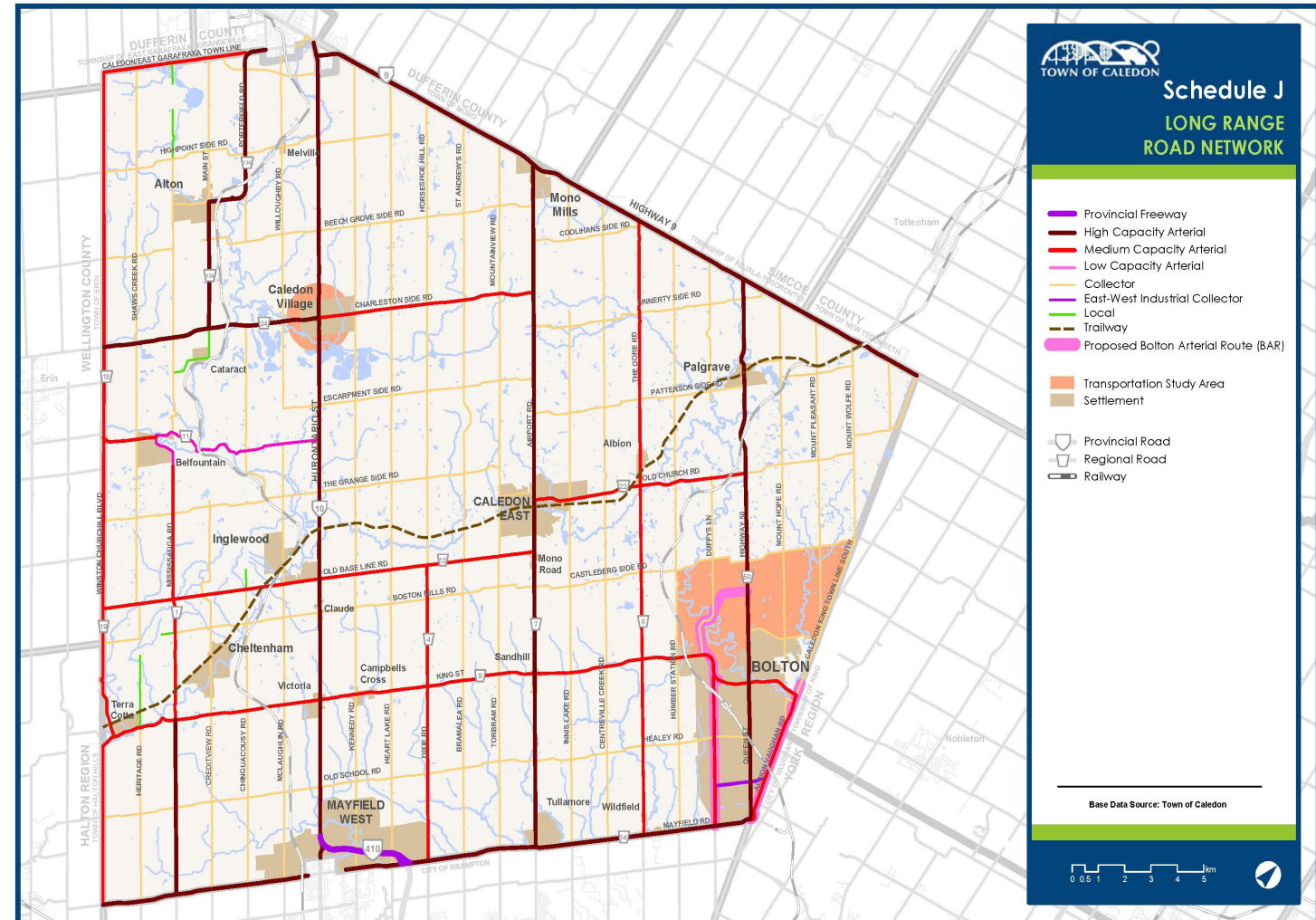
Traffic

What Does the Study Entail?

- Determine ideal haul routes and access location(s).
- Calculate peak hours of operations and associated site traffic.
- Assign truck traffic to study network according to the optimal haul route.
- Evaluate future operations of the road network.
- Prepare mitigation strategies for any potential impacts.

Work Completed to Date

- Study scope is being confirmed with the Town and Region.
- Initial traffic patterns reviewed for area.



Source: Town of Caledon Official Plan, 2018

Formal Review Process for an Aggregate Licence

Formal Review Process

We are here

Completion of
technical and
feasibility studies
(February 2020 –
Ongoing)

Initial
communications with
local government
representatives
(Summer 2019),
Indigenous
communities &
members of the public
(Fall 2019)

Meetings with
Indigenous
communities,
government
agencies &
members of the
public

PLANNING ACT: OFFICIAL PLAN AND ZONING BY-LAW AMENDMENT PROCESS

Preconsultation with the Region, Conservation Authority, and Town	Preparation of all Required Technical Reports	Application Submitted to the Town	Town circulates the application to departments and agencies for review	Town Council statutory public meeting	CBM works to address comments and resolve issues raised during the comment period	Town staff reviews all information and prepares a report and recommendation to approve or deny the application	Council makes a decision	LPAT appeal period (20 days after the decision)
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Ongoing Consultation with Indigenous Communities, Agencies and the Public

AGGREGATE RESOURCES ACT (ARA): LICENCE APPLICATION PROCESS (Ministry of Natural Resources and Forestry - MNRF)

Preconsultation with MNRF	Preparation of Technical Reports, Site Plans and Summary Statement	Application Submitted to MNRF	Application deemed Complete by MNRF, Notice is posted on the Environmental Registry (EBR)	CBM initiates the notification and consultation process (registered letter to residents, sign on property, notice in local newspapers)	CBM works to address comments and resolve issues raised during the comment period	At the end of the 2 year process or before, St. Marys / CBM documents the process and submits to MNRF	MNRF makes a decision on the applications. Where there are unresolved objections, MNRF refers the application to LPAT
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Formal Review Process for an Aggregate Licence *Planning Act*

PLANNING ACT: OFFICIAL PLAN AND ZONING BY-LAW AMENDMENT PROCESS

Preconsultation with the Region, Conservation Authority, and Town	Preparation of all Required Technical Reports	Application Submitted to the Town	Town circulates the application to departments and agencies for review	Town Council statutory public meeting	CBM works to address comments and resolve issues raised during the comment period	Town staff reviews all information and prepares a report and recommendation to approve or deny the application	Council makes a decision	LPAT appeal period (20 days after the decision)
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Ongoing Consultation with Indigenous Communities, Agencies and the Public

- Approval is required from the Town for amendments to the Official Plan and Zoning By-law.
- The Town will circulate the application internally to the various departments and to external agencies for review.
- The Town of Caledon will host the statutory public meeting pursuant to *Planning Act* requirements.
- Council will render a decision on the application once the Town staff have prepared a recommendation report.
- The decision of Council is subject to appeal within 20 days of the notice of decision.
- If appealed, the proposal would be subject to a Land Use Planning Appeal Tribunal (LPAT) hearing unless issues are resolved.

Formal Review Process for an Aggregate Licence *Aggregate Resources Act*

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Ongoing Consultation with Indigenous Communities, Agencies and the Public

- Preparation and formal filing of the Application will typically take a minimum of 1 year to complete, however it is anticipated that CBM will take over 2 years to prepare their application for the project.
- The ARA has a 45 day “Notification and Consultation Process” during which a Public Information Session must be held.
- CBM has up to 2 years to address comments and try to resolve issues. At the end of the 2 years, if objections remain, the application is referred to the LPAT.
- If all issues are resolved, the MNRF can issue the licence. Zoning must be in place before a licence can be issued.

CBM's Proposed Project Schedule

- Public consultation commenced in the Fall 2019 prior to any studies being initiated, continued through 2020, in advance of drilling taking place and will carry on being part of the Project through its completion.
- Technical studies began in February 2020. At least two years of studies will be completed.
- Draft findings of the technical studies will be shared with the community prior to technical reports being finalized and filed with the MNRF, the Town of Caledon and Region of Peel.
- Once the applications with the MNRF and the Town are filed, the review process will continue, including ongoing public consultation.
- Technical and feasibility studies that are currently ongoing will inform how long the quarry would operate, if approved.
- Environmental monitoring would be completed over the life of the quarry.



Public Consultation

Timeline

- **Summer 2019** – Initiated communication with local government representatives.
- **Fall 2019** – Commenced engagement with Indigenous communities and local community, and continued engagement with local government representatives.
- **Early 2020** – Continued meetings with Indigenous communities and notified local community regarding commencement of fieldwork.
- **Spring 2020** – Invitation for a meeting with the local community and government representatives sent out but then postponed prior to it occurring due to COVID-19 restrictions.
- **Summer/Fall 2020** – Notification to local community of field work.
- **Early 2021 and throughout 2021** – Meetings with Indigenous communities, local government representatives and local community.
- **Beyond 2021** – Continued engagement with all stakeholders outside of and within the official ARA and Planning process, and if a licence is granted, on-going communication with the public.

CBM's Commitment

- Meaningful and respectful consultation to continue to build solid relationships with the community, and to improve the project through consideration of input.
- While public consultation is not required until an application is filed, CBM wanted to engage early in the feasibility stage and will continue to engage prior to and during the official public consultation process.

Thank you! – Q&A

To ask a question:

- You can use the “raise hand” function in the meeting window, and you will be added to the Q&A queue.
- Once it is your turn, your microphone changed so it can be unmuted, and you’ll be asked to speak.
- You can also submit questions via the meeting chat.
- CBM will also run through questions raised in the meeting chat window.



Contact Information

We want to hear from you!

CBM is committed to keeping the community informed about the project

Contact us by phone or e-mail:

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Visit the project website:

www.CBMCaledonQuarry.ca