

City of Port Colborne Public Meeting Agenda

Date:Tuesday, March 7, 2023Time:6:30 pmLocation:Council Chambers, 3rd Floor, City Hall<br/>66 Charlotte Street, Port Colborne

- 1. Call to Order
- 2. Adoption of Agenda
- 3. Disclosures of Interest
- 4. Statutory Public Meetings

Statutory public meetings are held to present planning applications in a public forum as required by the Planning Act. Requests to delegate, both written and appearing virtually, will be accepted until noon the day of the meeting by contacting deputyclerk@portcolborne.ca. Material accepted after this time will be circulated with the minutes and included as public record.

- 4.1 Proposed Official Plan and Zoning By-law Amendment Port Colborne Quarries Pit 3 Expansion – Files: D09-02-21 & D14-09-21, 2023-42
  - a. Delegation from David Sisco, IBI Group, applicant
  - b. Delegation from Robert Handerson, resident
  - c. Delegation from Sharon Ladd and Kevin Ladd, residents
  - d. Delegation from Gary Gaverluk, resident
  - e. Virtual Delegation from Gail Babion, resident
  - f. Written delegation material from Jessie Fehrman, resident 50
- 5. Procedural Motions
- 6. Information Items
- 7. Adjournment

Pages

1

26



#### Subject: Proposed Official Plan and Zoning By-law Amendment – Port Colborne Quarries Pit 3 Expansion – Files: D09-02-21 & D14-09-21

To: Council - Public Meeting

From: Development and Legislative Services Department

Report Number: 2023-42

Meeting Date: March 7, 2023

#### **Recommendation:**

That Development and Legislative Services Department – Planning Division Report 2023-42 be received for information.

#### Purpose:

The purpose of this report is to provide Council with information regarding applications received for proposed Official Plan and Zoning By-law Amendments to facilitate the expansion to the Port Colborne Quarries' ("PCQ") Pit 3.

#### Background:

#### **Applications**

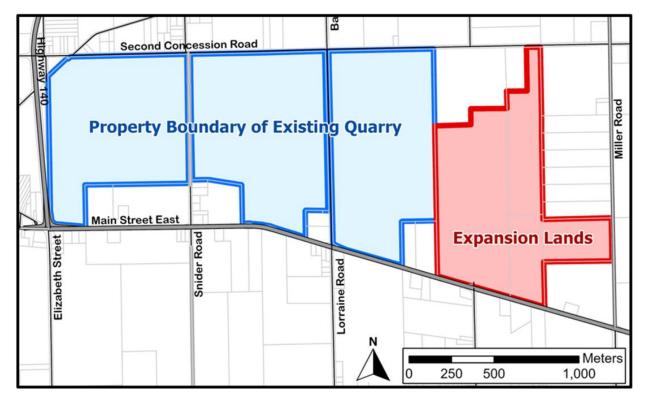
The City of Port Colborne (the "City") received applications for Official Plan and Zoning By-law Amendments on March 17, 2021. The applications were deemed complete on July 8, 2021. A public open house was held jointly with the Niagara Region (the "Region") on September 9, 2021, to hear comments from interested members of the public. Port Colborne Quarries Inc. is represented by their authorized agent, David Sisco of IBI/Arcadis Group (the "applicant").

The application for Official Plan Amendment (OPA) proposes to change the designation of the subject lands from Agricultural to Mineral Aggregate Operation. The application also proposes to add a Special Policy Area to permit the proposed expansion of the quarry.

The application for Zoning By-law Amendment (ZBA) proposes to change the zoning of the subject lands from Agricultural (A) to Mineral Aggregate Operation (MAO), as well as reduce the minimum setback from a Provincial Highway from 90 metres to 30 metres.

#### Location

The lands are immediately adjacent to the PCQ operation to the west along Highway 3. Legally the lands are described as Part Lot 17, 18, 19, Concession 2, and located on the north side of Main Street East/Highway 3, south of Second Concession Road, and west of Miller Road. The total area to be licensed is 106.29 hectares, of which 71.12 hectares is proposed to be extracted. The lands subject to the applications (in red) are shown below.



#### **Associated Applications**

In addition to the Local OPA and ZBA, the applicant has also submitted a complete application for a Regional Official Plan Amendment (ROPA) to the Niagara Region to permit the proposed quarry expansion. A separate Public Meeting for the ROPA application will be held at the Regional Planning and Economic Development Committee on Wednesday, March 8, 2023.

The applicant has also applied for a Category 2 (Below Water Quarry) – Class A Licence to the Ministry of Natural Resources and Forestry (MNRF) under the *Aggregate* 

*Resources Act (ARA).* The ARA application process includes a separate public consultation and notification process. Any comments or objections submitted to the Region or City with respect to the Planning Act applications should also be submitted to the MNRF referencing the ARA application.

#### **JART Process**

To coordinate the technical review of the applications - a Joint Agency Review Team (JART) was formed. The JART is a team of planning staff from the Region, the City, and the Niagara Peninsula Conservation Authority (NPCA). The purpose of the JART is to share information, resources, and expertise so that the application and the associated studies are reviewed in a streamlined and coordinated manner. Staff from applicable provincial ministries have been engaged through the JART process as well.

The JART does not make a recommendation on the application, rather the JART works to:

- ensure that the required range of studies and work is completed by the applicant;
- ensure that the studies are sufficient in terms of their technical content;
- review of the studies and work of the applicant either by technical staff or by peer reviewers;
- ensure a coordinated public and stakeholder consultation and engagement process; and
- prepare a technical JART report on the application once all reviews are complete.

The JART report will be used independently by planning staff at the Region and City as the technical basis to develop a recommendation report.

#### Materials Submitted in Support of the Applications

In support of the applications, the applicant has provided numerous technical studies and reports. The Region, on behalf of the JART has retained an Aggregate Advisor and several third-party peer reviewers to assist with the review of many of the technical studies.

In addition to the technical studies/reports, the ARA Site Plans have been under review as part of the application process. If approved, the ARA Site Plans are the primary tool used by the Province to enforce the conditions and other aspects of the quarry's ongoing operations. The mitigation measure and recommendations of each of the technical studies/reports are included as part of the Site Plans and/or associated Site Plan Notes.

An index of all materials submitted to date has been attached as Appendix C. The materials can be accessed via the Port Colborne Quarries website at <u>www.portcolbornequarries.ca.</u>

#### Discussion:

These applications will be reviewed with consideration of applicable polices under the *Provincial Policy Statement (2020), A Place to Grow: Growth Plan for the Greater Golden Horseshoe (2019), the Regional Official Plan (2014), the City of Port Colborne Official Plan and the City of Port Colborne Comprehensive Zoning By-law 6575/30/18.* 

#### **Provincial Policy Statement (2020)**

The *Provincial Policy Statement* (PPS) provides policy direction on matters of provincial interest related to land use planning and development. The PPS provides for the long-term protection of mineral aggregate and petroleum resources and limits what can and cannot be done in areas with known resources. The proposed amendments will be predominantly evaluated under Section 2.5 – Mineral Aggregate Resources of the PPS, however, a review of the amendments against the entirety of the PPS will also be conducted as part of the recommendation report to be considered at a future Council meeting.

#### Growth Plan for the Greater Golden Horseshoe (2019)

The *Growth Plan for the Greater Golden Horseshoe* (Growth Plan), much like the PPS, directs municipalities to implement and maintain polices and other strategies to conserve mineral aggregate resources. The proposed amendments will be predominantly evaluated specifically under section 4.2.8 – Mineral Aggregate Resources of the Growth Plan through the future recommendation report.

#### Niagara Region Official Plan (2014)

The new Niagara Official Plan (NOP) was recently approved on November 4, 2022, with modifications by the Ministry of Municipal Affairs and Housing. Policy 7.12.2.5 of the NOP states that development applications deemed complete prior to the date of the NOP approval shall be permitted to be processed under the 2014 Regional Official Plan (ROP) policy regime. As the applications for ROPA, Local OPA, and ZBA were all deemed complete on July 8, 2021, the applications will be reviewed under 2014 ROP.

Chapter 6 of the 2014 ROP provides policy direction on Mineral Aggregate Operations to lower-tier municipalities to implement Provincial objectives for Mineral Aggregate Operations. It is also noted that Schedules D1, D2, and D3 of the ROP identify potential resource areas across the Region and local municipal official plans are required to conform to the schedules and policies of the ROP. The applications will be reviewed under the above-noted chapter.

#### **City of Port Colborne Official Plan**

As noted above, the application for OPA proposes to change the land use designation of the subject lands from Agricultural to Mineral Aggregate Operation, along with a special policy area to permit the expansion of the quarry. The application will be reviewed against the policies provided in Section 10 - Mineral Aggregate and Petroleum Resources of the Official Plan. The draft Official Plan Amendment can be found in Appendix A.

#### City of Port Colborne Comprehensive Zoning By-law 6575/30/18

The application proposes to change the zoning of the subject lands from Agricultural (A) to Mineral Aggregate Operation (MAO). Additionally, a special provision of the MAO zone has been proposed, requesting the minimum setback from a Provincial Highway to be reduced from 90 metres to 30 metres. The draft Zoning By-law Amendment can be found in Appendix B.

#### Internal Consultations:

As referenced in the Background section of this report, the applications have been actively reviewed by relevant staff and departments from the Niagara Region, NPCA and City through the JART process. Additionally, the JART has retained peer reviewers to review several of the technical studies referenced in Appendix C.

#### **Financial Implications:**

Currently, there are no financial implications with respect to this information report. Through the Region's Cost Acknowledgement Agreement with the applicant, it has been agreed upon that the costs associated with the application, including the JART's Aggregate Advisor and peer reviewers, will be borne by the applicant. In accordance with the City's 2021 Rates and Fees that were in place at the time of the application, the City has received \$75,239 to offset the City's staff time involved in the application.

#### Public Engagement:

The Notice of Public Meeting has been circulated in accordance with Sections 21 and 34 of the *Planning Act*. Notice was provided via the Niagara This Week newspaper on February 9, 2023. Additionally, Notices were mailed to property owners within 120 metres of the lands subject to the applications, and the applicant placed a Public Notice sign on the property. The Notice was also posted on the City's website under "Current Applications", and individual notices were mailed or emailed to any members of the

public that have submitted comments on the applications to date. Comments received from the public on this application will be included and responded to in the future recommendation report.

#### **Strategic Plan Alignment:**

The initiative contained within this report supports the following pillar(s) of the strategic plan:

- Service and Simplicity Quality and Innovative Delivery of Customer Services
- Attracting Business Investment and Tourists to Port Colborne
- People: Supporting and Investing in Human Capital
- Governance: Communications, Engagement, and Decision-Making

#### **Conclusion:**

Planning staff are not providing a recommendation on the proposed Official Plan and Zoning By-law Amendments at this time to allow all agency, public and Councillor comments to be received and considered prior to a decision being made. The recommendation report will return to a future regular meeting of Council.

#### **Appendices:**

- a. Draft Official Plan Amendment
- b. Draft Zoning By-law Amendment
- c. Index of Application Materials

Prepared by,

David Schulz, BURPI, MCIP, RPP Senior Planner (905) 835-2900 x202 david.schulz@portcolborne.ca

Respectfully submitted,

Denise Landry, MCIP, RPP Chief Planner (905) 835-2900 x203 denise.landry@portcolborne.ca

#### **Report Approval:**

All reports reviewed and approved by the Department Director and also the City Treasurer when relevant. Final review and approval by the Chief Administrative Officer. The Corporation of the City of Port Colborne

By-law no.

Being a by-law to adopt amendment no. \_\_\_\_ to the Official Plan for the City of Port Colborne

Whereas it is deemed expedient to further amend the Official Plan, heretofore adopted by Council for the City of Port Colborne Planning Area;

Therefore the Council of The Corporation of the City of Port Colborne under Section 17(22) of the Planning Act, hereby enacts as follows:

- 1. That Official Plan Amendment No. \_\_\_\_ to the Official Plan for the City of Port Colborne Planning Area, consisting of the attached map and explanatory text is hereby adopted.
- 2. That the Clerk is hereby authorized and directed to make application to the Regional Municipality of Niagara for approval of the aforesaid Amendment No. \_\_\_\_ to the Official Plan for the Port Colborne Planning Area.
- 3. That this By-law shall come into force and take effect on the day of passing thereof.

Enacted and passed this \_\_\_\_\_day of \_\_\_\_\_\_, 2023.

William C Steele Mayor

Nicole Rubli Acting Clerk AMENDMENT

NO.\_\_\_\_TO THE

#### OFFICIAL PLAN

#### FOR THE

#### PORT COLBORNE PLANNING AREA

#### PREPARED BY:

### CITY OF PORT COLBORNE DEPARTMENT OF DEVELOPMENT AND LEGISLATIVE SERVICES

February 2023

#### AMENDMENT NO.

\_\_\_\_ TO THE

OFFICIAL PLAN

FOR THE

PORT COLBORNE PLANNING AREA

#### AMENDMENT NO.

#### \_\_\_\_TO THE OFFICIAL

#### PLAN FOR THE

#### CITY OF PORT COLBORNE

This Amendment to the Official Plan for the City of Port Colborne, which has been adopted by the Council of the Corporation of the City of Port Colborne, is hereby approved in accordance with Sections 17 and 21 of the Planning Act R.S.O. 1990, c. P.13, as Amendment No. \_\_\_\_ to the Official Plan for the City of Port Colborne.

Date:

#### AMENDMENT NO. \_\_\_\_ TO THE OFFICIAL

#### PLAN FOR THE PORT COLBORNE PLANNING AREA

#### **INDEX**

The Statement of Components

Part A – The Preamble

Purpose Location Basis

Part B – The Amendment

Part C – Definitions

#### STATEMENT OF

#### **COMPONENTS PART A**

The Preamble does not constitute part of this Amendment.

#### PART B

The Amendment, consisting of the following map and text changes, constitutes Amendment No. \_\_\_\_ to the Official Plan for the Port Colborne Planning Area.

#### PART C

Definitions which also constitutes a part of this Amendment.

#### PART A - THE PREAMBLE

#### Purpose

The purpose of this Amendment is to add to add a Special Policy Area to permit the proposed Port Colborne Quarries Inc. - Pit 3 Extension quarry. The amendment also includes the addition of the subject lands on Schedule C - Mineral Aggregate and Petroleum Resources as a Mineral Aggregate Operation.

#### Location

The lands affected by this amendment are legally described as Part of Lots 17, 18, 19, Concession 2, formerly in the Township of Humberstone, now in the City of Port Colborne, Regional Municipality of Niagara, and located on the north side of Main Street East/Highway 3, south of Second Concession Road, and west of Miller Road.. A detailed map of the subject lands is attached as Schedule "A" to this Official Plan Amendment No. \_\_\_\_\_.

#### Basis

- a) The Amendment was the subject of a Public Meeting held under the Planning Act, 1990 on \_\_\_\_\_\_. Public and agency comments were addressed as part of the preparation of this Amendment.
- b) The Amendment will allow the Council of the City of Port Colborne to make a decision on the rezoning from Agriculture to Mineral Aggregate Operation and subsequently allow the Minister of Natural Resources and Forestry to make a decision to issue a quarry licence under the Aggregate Resources Act.
- c) Based on the City's review of the Planning Act, 1990, the Provincial Policy Statement (2020), the Provincial plans (2019), the Regional Official Plan, the City's Official Plan and public and agency consultation, City staff is of the opinion that the Amendment is consistent, or does not conflict, with Provincial, Regional policies and City policies plans and, therefore, represents good planning.

#### PART B - THE AMENDMENT

#### **Introductory Statement**

All of this part of the document entitled **<u>PART</u> "B"** – "The Amendment" consisting of the following text and map designated Schedule "A" constitutes Amendment No. \_\_\_\_\_ to the Official Plan for the City of Port Colborne. The Official Plan of the City of Port Colborne is hereby amended as follows:

#### **Details of the Amendment**

The Official Plan for the City of Port Colborne Planning Area is hereby amended as follows:

The following text is inserted into Policy G.12 of the Official Plan for the Port Colborne Planning Area: Page 13 of 52 (\_) An expansion to the existing Port Colborne Quarries Inc. quarry is permitted and referred to as Pit 3 Expansion being eastwardly on approximately 71.12 hectares (175 acre) site located on the lands bounded by Regional Road 84 (Miller Road), Provincial Highway 3 (Main Street) and Second Concession Road, on Part Lot 17, 18, 19 Concession 2 and Plan 59R-16702 in the City of Port Colborne.

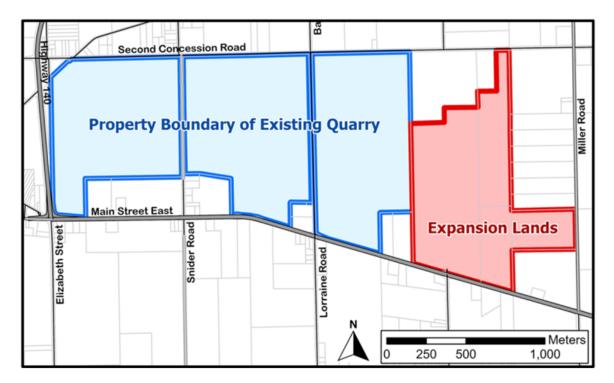
The following changes are made to Schedule C: Mineral Aggregate and Petroleum Resources:

1. That the area be shown as Mineral Aggregate Operation and corresponding to the Legend.

#### PART C – DEFINITIONS

Also constitutes a part of this Amendment.

Schedule "A"



#### The Corporation of the City of Port Colborne

By-law no. \_\_\_\_\_

Being a by-law to amend Zoning By-law 6575/30/18 respecting lands legally described as Part Lot 17, 18, 19, Concession 2, and located on the north side of Main Street East/Highway 3, south of Second Concession Road, and west of Miller Road.

Whereas By-law 6575/30/18 is a by-law of The Corporation of the City of Port Colborne restricting the use of land and the location and use of buildings and structures; and

Whereas, the Council of The Corporation of the City of Port Colborne desires to amend the said by-law.

Now therefore, and pursuant to the provisions of Section 34 of the *Planning Act, R.S.O. 1990*, The Corporation of the City of Port Colborne enacts as follows:

- 1. This amendment shall apply to those lands described on Schedule "A" attached to and forming part of this by-law.
- 2. That the Zoning Map referenced as Schedules "A4" and "A5" forming part of By-law 6575/30/18 is hereby amended by changing those lands described on Schedule A from Agriculture (A) to MAO-XX (Mineral Aggregate Operation with special provision).
- 3. That Section 37 entitled "Special Provisions" of Zoning By-law 6575/30/18, is hereby further amended by adding the following:

#### <u>MAO-XX</u>

Notwithstanding the provisions of the Mineral Aggregate Operation (MAO) zone, the following regulations shall apply:

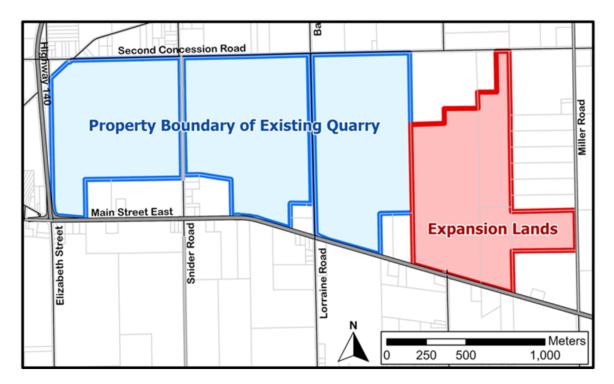
- a) No pit, quarry or excavation shall be made or established within 15 metres of any lot line which does not abut a public street or 30 metres of any lot line which abuts any other public street.
- 4. That this by-law shall come into force and take effect on the day that it is passed by Council, subject to the provisions of the *Planning Act*.
- 5. The City Clerk is hereby authorized and directed to proceed with the giving notice of the passing of this by-law, in accordance with the *Planning Act*.

Enacted and passed this day of

, 2023.

William C Steele Mayor

Nicole Rubli Acting Clerk Schedule "A"



#### Appendix C to Report 2023-42

#### Port Colborne Quarries – Proposed Pit 3 Extension

#### ROPA, LOPA, ZBLA Applications – List of Technical Material Submitted

#### Documents can be accessed on the Port Colborne Quarries Website:

#### Port Colborne Quarry PIT 3 Application (https://portcolbornequarries.ca/quarry-expansion-document)

ltem	Date Submitted
<ol> <li>Planning Justification Report, prepared by IBI Group (dated Febru 17, 2021</li> </ol>	• March 17, 2021 (1 <sup>st</sup> Submission)
<ol> <li>Agricultural Impact Assessment, prepared by Colville Consulting (dated September 22, 2020)</li> </ol>	Inc. • March 17, 2021 (1st Submission)
<ol> <li>Stage 1 and 2 Archaeological Assessment, prepared by Golder Associates Inc. (dated November 24, 2020)</li> </ol>	March 17, 2021 (1st Submission)
<ol> <li>Stage 1 and 2 Archaeological Assessment - Supplementary Documentation, prepared by Golder Associates Inc. (dated Nover 24, 2020)</li> </ol>	March 17, 2021 (1st Submission) mber
<ol> <li>Cultural Heritage Screening Report, prepared by Golder Associat (dated July 17, 2020)</li> </ol>	es Inc. • March 17, 2021 (1st Submission)
<ol> <li>Land Use Compatibility / Sensitive Land Use Study, prepared by Group (dated January 8, 2021)</li> </ol>	IBI • March 17, 2021 (1st Submission)

Item	Date Submitted
<ol> <li>Air Quality Impact Assessment, prepared by Golder Associates Inc. (dated December 2020)</li> </ol>	March 17, 2021 (1st Submission)
<ol> <li>Best Management Practices Plan for the Control of Fugitive Dust (BMPP), prepared by Golder Associates Inc. (dated December 2020)</li> </ol>	March 17, 2021 (1st Submission)
<ol> <li>Noise (Acoustical) Impact Study, prepared by Golder Associates Inc. (dated December 2020)</li> </ol>	March 17, 2021 (1st Submission)
10.Blasting (Vibration) Impact Assessment, prepared by Golder Associates Inc. (dated July 2020)	March 17, 2021 (1st Submission)
11.Financial Impact Assessment / Economic Benefits, prepared by IBI Group (dated June 8, 2020)	March 17, 2021 (1st Submission)
12.Hydrological Assessment, prepared by Golder Associates Inc. (dated November 2020)	March 17, 2021 (1st Submission)
13. Hydrogeological Assessment, Level 1 / 2 Water Resources Study, prepared by Golder Associates Inc. (dated October 2020)	March 17, 2021 (1st Submission)
14.Natural Environment Level 1 & 2 Report (EIS), prepared by Golder Associates Inc. (dated October 2020)	March 17, 2021 (1st Submission)
15. Tree Preservation Plan, prepared by IBI Group (dated October 16, 2020);	March 17, 2021 (1st Submission)
16.Comprehensive Rehabilitation Strategy, prepared by IBI Group (dated October 30, 2020)	March 17, 2021 (1st Submission)

Item	Date Submitted
17.Social Impact Assessment, prepared by IBI Group (dated January 8, 2021)	March 17, 2021 (1st Submission)
18. Traffic Impact Study, prepared by IBI Group (dated October 19, 2020)	March 17, 2021 (1st Submission)
19. Visual Impact Assessment, prepared by IBI Group (dated December 23, 2020)	March 17, 2021 (1st Submission)
20. Completed Application to Amend the Regional Official Plan	March 17, 2021 (1st Submission)
21. Draft Regional Official Plan Amendment	March 17, 2021 (1st Submission)
22. City of Port Colborne – Application for Official Plan Amendment	March 17, 2021 (1st Submission)
23. Draft City of Port Colborne Official Plan Amendment	March 17, 2021 (1st Submission)
24. City of Port Colborne – Application for Zoning By-Law Amendment	March 17, 2021 (1st Submission)
25. Draft City of Port Colborne Zoning By-Law Amendment	March 17, 2021 (1st Submission)
26.Public Consultation Plan, prepared by IBI Group (dated March 15, 2021)	March 17, 2021 (1st Submission)
27.Site Plan Drawings (1-8), prepared by IBI Group (dated February 9, 2021)	March 17, 2021 (1st Submission)
28.Landscaping Plans (1-2), prepared by IBI Group (dated December 21, 2020)	March 17, 2021 (1st Submission)
29. Phase One Environmental Site Assessment (ESA), prepared by Golder Associates Inc. (dated June 16, 2021)	• June 2021

Item	Date Submitted
30.Conceptual Soil Management Plan, prepared by Golder Associates Inc. (dated June 28, 2021)	• June 2021
2 <sup>nd</sup> Submission	
31.PCQ Application – 2nd Submission Cover Letter, prepared by IBI (dated January 31, 2022)	• January 31, 2022 (2nd Submission)
32.Revised Planning Justification Report, prepared by IBI Group (dated January 28, 2022)	• January 31, 2022 (2nd Submission)
33.AIA Response to JART Comments Letter, prepared by Colville Consulting Inc. (dated October 5, 2021)	• January 31, 2022 (2nd Submission)
34. Updated Agricultural Impact Assessment, prepared by Colville Consulting Inc. (dated October 18, 2021)	January 31, 2022 (2nd Submission)
35.Financial Impact Assessment / Economic Benefits – Revised Report, prepared by IBI Group (dated October 20, 2021)	January 31, 2022 (2nd Submission)
36.Response to JART Hydrology Peer Review Comment – Technical Memorandum, prepared by Golder Associates Inc. (dated January 28, 2022)	• January 31, 2022 (2nd Submission)
37.Response Letter to MTO Comments, prepared by IBI Group (dated October 20, 2021)	• January 31, 2022 (2nd Submission)
38.Revised Hydrogeological Assessment, Level 1 / 2 Water Resources Study, prepared by Golder Associates Inc. (dated October 2021)	• January 31, 2022 (2nd Submission)

Item	Date Submitted
39. Revised Land Use Compatibility / Sensitive Land Use Study, prepared by IBI Group (dated December 15, 2021)	January 31, 2022 (2nd Submission)
40.Addendum to the Noise Impact Assessment Report – Technical Memorandum, prepared by Golder Associates Inc. (dated January 21, 2022)	<ul> <li>January 31, 2022 (2nd Submission)</li> </ul>
41.Response to the Joint Agency Review Team Letter - Air Quality Impact Assessment – Technical Memorandum, prepared by Golder Associates Inc. (dated December 10, 2021)	<ul> <li>January 31, 2022 (2nd Submission)</li> </ul>
42. Addendum to the Air Quality Impact Assessment Report – Technical Memorandum, prepared by Golder Associates Inc. (dated January 14, 2022)	<ul> <li>January 31, 2022 (2nd Submission)</li> </ul>
43.Response to Comment Letter from Joint Agency Review Team (JART) [Blasting (Vibration) Impact Assessment], prepared by Golder Associates Inc. (dated October 4, 2021)	January 31, 2022 (2nd Submission)
44. Flyrock Impact Assessment – Technical Memorandum, prepared by Golder Associates Inc. (dated January 7, 2022)	January 31, 2022 (2nd Submission)
45. Response to JART Comments on the Natural Environment Level 1 & 2 Report (EIS) – Technical Memorandum, prepared by Golder Associates Inc. (dated November 24, 2021)	January 31, 2022 (2nd Submission)
46. Supplemental Bat Survey in Support of the Natural Environment Level 1 & 2 Report (EIS) – Technical Memorandum, prepared by Golder Associates Inc. (dated January 31, 2022)	• January 31, 2022 (2nd Submission)

Item	Date Submitted
47. Revised Comprehensive Rehabilitation Strategy, prepared by IBI Group (dated December 15, 2021)	January 31, 2022 (2nd Submission)
48.Revised Social Impact Assessment, prepared by IBI Group (dated December 15, 2021)	• January 31, 2022 (2nd Submission)
49. Revised Visual Impact Assessment, prepared by IBI Group (dated December 15, 2021)	• January 31, 2022 (2nd Submission)
50. Revised Site Plan Notes (dated January 13, 2022)	January 31, 2022 (2nd Submission)
51.Revised Site Plan Notes – with changes noted (dated January 13, 2022)	• January 31, 2022 (2nd Submission)
52.Revised Site Plan Drawings (1-9), prepared by IBI Group (dated November 15, 2021)	• January 31, 2022 (2nd Submission)
53.Response to JART Hydrogeology Peer Review Comments, prepared by Golder (dated October 1, 2021)	• May 16, 2022
54. Additional Response to Updated Peer Review Hydrogeological/Ground Water Study, Port Colborne Quarries Pit 3 Extension – Technical Memorandum, prepared by Golder (dated May 16, 2022)	• May 16, 2022
55. Review and Entry into the Ontario Public Register of Archaeological Reports: Stage 1 & 2 Archaeological Expansion – PCQ Expansion, prepared by the Ministry of Heritage, Sport, Tourism, and Culture Industries (dated February 15, 2021)	• May 30, 2022

Item	Date Submitted
56.Comment Letter on ARA Application, prepared by the Ministry of Natural Resources and Forestry (dated May 5, 2021)	September 7, 2022
3 <sup>rd</sup> Submission	
57.3rd Submission Covering Letter and Updates to Planning Justification Report, prepared by IBI (dated October 4, 2022)	October 4, 2022 (3 <sup>rd</sup> Submission)
58. Revised Site Plan Drawings, prepared by IBI (various dates)	October 4, 2022 (3 <sup>rd</sup> Submission)
59.Revised Site Plan Notes (with changes highlighted), prepared by IBI Group (dated October 3, 2022)	October 4, 2022 (3 <sup>rd</sup> Submission)
60.Updated Financial Impact Assessment and Economic Benefits Analysis, prepared by IBI Group (dated June 20, 2022)	October 4, 2022 (3 <sup>rd</sup> Submission)
61.Hydrology/Surface Water Comment Table, prepared by WSP/Golder (dated August 25, 2022)	October 4, 2022 (3 <sup>rd</sup> Submission)
62.Additional Response to Updated Peer Review Hydrogeological/Groundwater Study, Port Colborne Quarries Pit 3 Extension – Technical Memorandum, prepared by Golder (dated August 18, 2022)	October 4, 2022 (3 <sup>rd</sup> Submission)
63.Response to JART Comments on the Natural Environment Level 1 & 2 Report - Technical Memorandum, prepared by WSP/Golder (dated August 31, 2022)	October 4, 2022 (3 <sup>rd</sup> Submission)
64.Revised Figure 5 for the Comprehensive Rehabilitation Plan, prepared by IBI Group (dated August 29, 2022)	October 4, 2022 (3 <sup>rd</sup> Submission)

Item	Date Submitted
65.Copy of the IBI Group E-mail dated May 30, 2022 addressing traffic related concerns & Updated Traffic Impact Study, prepared by IBI Group	October 4, 2022 (3 <sup>rd</sup> Submission)
66. Updated Memo to Paul Marsh re: Wignell Drain Realignment, prepared by IBI Group (dated October 3, 2022)	October 4, 2022 (3 <sup>rd</sup> Submission)
67. Air Quality Study Response E-mail (dated August 22, 2022)	October 5, 2022
68.Technical Memorandum – Response to JART – Request for Supplemental Information Related to the Noise Impact Assessment (dated December 3, 2021)	• October 5, 2022
69.Response to JART Letter – Air Quality Impact Assessment, prepared by Golder (dated December 10, 2021)	• October 20, 2022
70.Addendum to the Hydrological Assessments, prepared by WSP/Golder (dated December 5, 2022)	• December 5, 2022
71.Response to MNRF Comments on the Natural Environment Report, prepared by WSP/Golder (dated December 6, 2022)	December 8, 2022
72. Technical Memorandum documenting 2022 Natural Environment Surveys, prepared by WSP/Golder (dated December 16, 2022)	• December 19, 2022

## Port Colborne Quarries Inc. Pit 3 Extension

City of Port Colborne Statutory Public Meeting Tuesday March 7<sup>th</sup>, 2023

Official Plan Amendment D09-02-21 Zoning By-law Amendment D14-09-21





**IBI GROUP** 

PC@ga@Pit 52 Extension - Statutory Public Meeting

## Introductions



**\\\\**]

Shawn John

John MacLellan

Sean McFarland

David Sisco

**IBI GROUP** 

ARCADIS

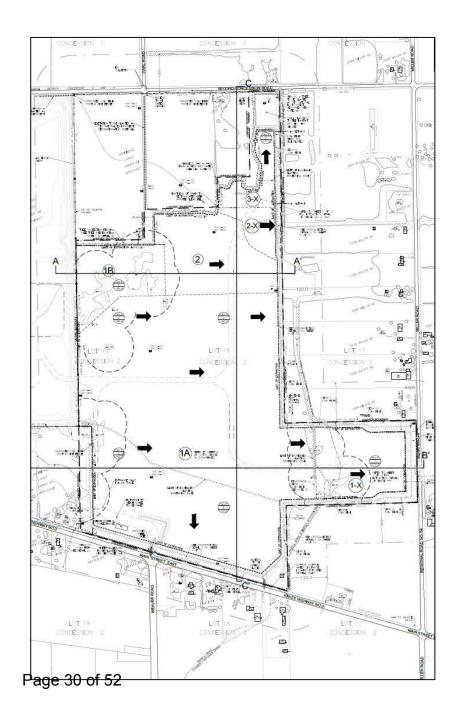
## Aerial Image of PCQ Inc. Pit 2 & Pit 3



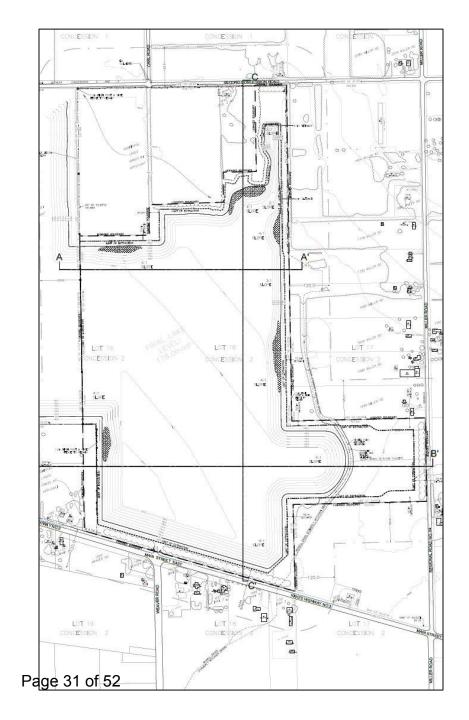
Aerial Image of PCQ Inc. Pit 2 & Pit 3 and Proposed Pit 3 Extension



## Operational Plan



### Rehabilitation Plan



## **Comprehensive Rehabilitation**



# Location of Objectors



## Submission Documents

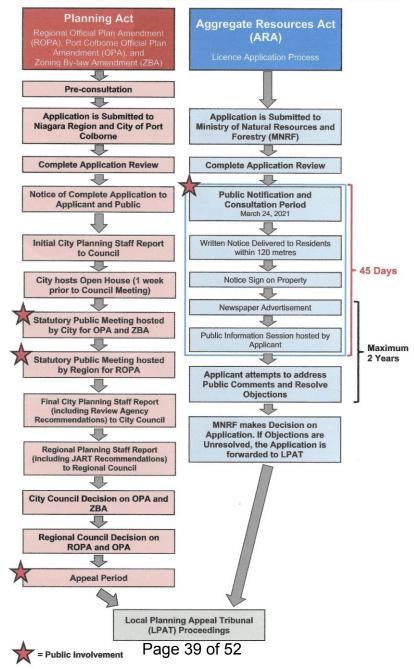


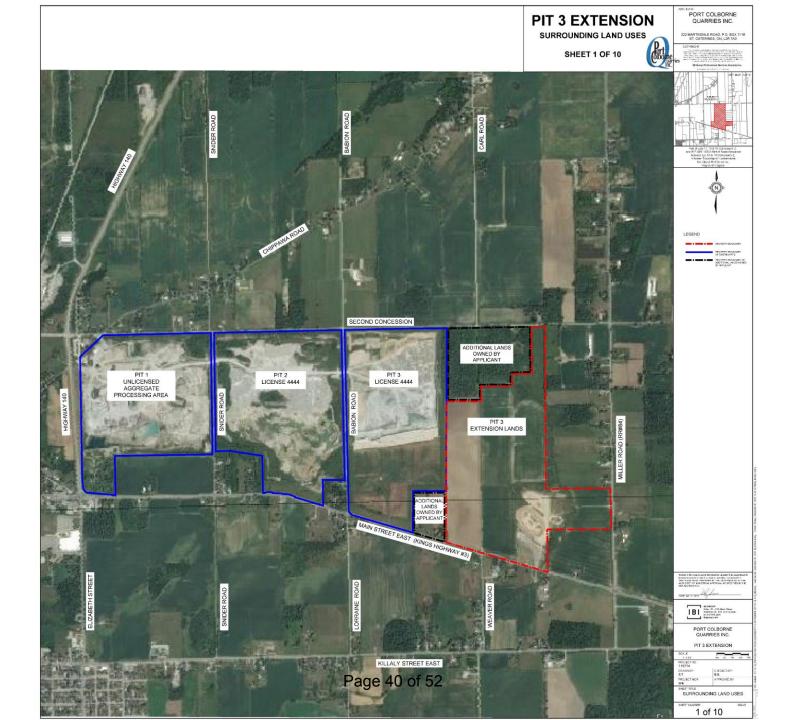
## **Project Status**

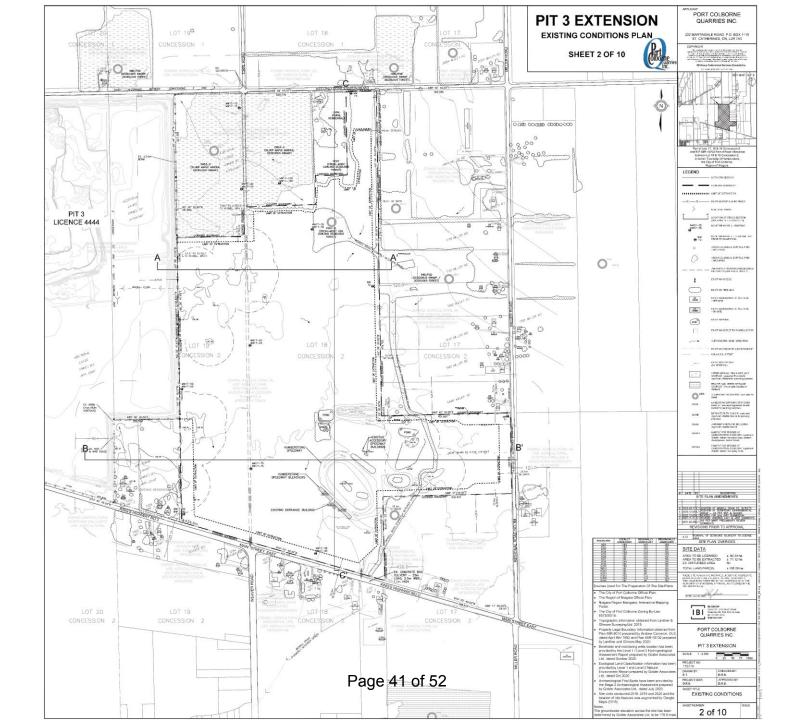
## Summary of next steps

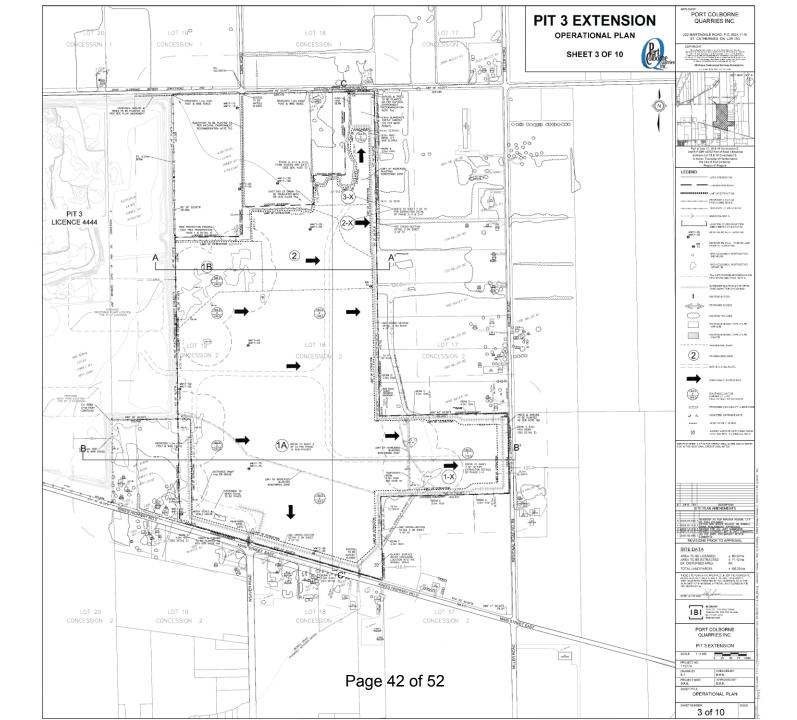
## Questions

## APPROVAL PROCESS FOR AGGREGATE OPERATIONS IN ONTARIO









GENERAL OPERATIONAL NOTES 15304, michini nel be uned la supplite the Trait Sol Management Plein such that if a constant with the On-Ba and Crists Sol Management Regulation D Reg. 4087; a set une at a set of the supplication that image be added by the MCDP. The Sin Characterization Plant of the Negatiation that image be added by the MCDP. The Sin Characterization Reg. 40(4); and the conductance of the Conceptual Sol Management Plant (June 3), 2021), and will include, ban or finite fully, a comparison of the Management Plant (June 3), 2021), and will include than or finite fully, a comparison of the Management Plant (June 3), 2021), and will include than or finite fully, a comparison of the Management Plant (June 3), 2021), and will include than the fully and the Management Plant (June 3), 2021), and will include than the fully and the Management Plant (June 3), 2021), and will include the manafestation prevent at the FG bank management Plant (June 3), 2021), and will include the management Plant (June 3), 2021, and will include that and the fully as assessment to defarme appropriate of the Singement Plant (June 3), 2021, and will deplay assessment to defarme appropriate of the Singement Plant (June 3), 2021, and will deplay assessment to defarme appropriate of the Amagement Plant (June 3), 2021, and will deplay and in the superimetrik (June 3). 153/04, which will be used to update the Final Soil Management Plan such that it is Noise Zone Equipment Specific Noise Control PORT COLBORNE **PIT 3 EXTENSION** I. <u>Tonnage</u>: It is a condition of this licence that no more than 1,000,000 tonnes of material shall be removed from this properly annually and no more than 1,815,000 ionnes of material annually combined with Licence 4444, which is also operated by Port Dobome Quarmas Inc. The area to be extracted is 71.1 becares. Orill - local barrier extending 2.0 m above major noise source associat 1 Orli - local barrier skiteding 2.4 m above major make assure wate-server with the dril. Orli - local barrier skiteding 3.0 m above major noise source associated with the dril. Dril - attenuated equipment (i.e. reduced noise emissions or replace with OUARRIES INC. 2 **OPERATIONAL NOTES PLAN** 222 MARTINDALE ROAD, P.O. BOX 1118 ST. CATHERINES, ON, L2R 7A3 1. <u>Home of Contractor</u>: J Brownel of Contractor, J Brance and Contractor and Brance an 3 quieter equipment) Extraction and processing operations will occur only during the daytime period (7:00 SHEET 4 OF 10 5. The general extraction progression to be followed is shown on the Operational Plan requirements': Disorptial Sol Management Plin - Page 6] 44 <u>Revinete</u>. Lower all the constructed to provide attinuation for roads and visual impacts. The const of the berns will be constructed of withouted the constructed of the second second second second second second second terms will not be constructed with the constructed to the second second terms will not be constructed with the constructed with a 11 indicates the constructed and executed the second constructed with a 11 indicates [2017] constructed and executed the second constructed with a 11 indicates [2017] as noted in the Value Road will be constructed with a 11 indicates [2017] as noted in the Value Road will be constructed with a 11 indicates [2017] as noted in the Value Road will be constructed with a 11 indicates [2017] as noted in the Value Road will be constructed with a 11 indicates [2017] as noted in the Value Road will be constructed with a 11 indicates [2017] be noted as a second will be readered to 110. Alternation all exercision for the second method will be constructed with and be noted in the Value Road will be constructed with a 11 indicates [2017] be noted as a second in the Value Road will be constructed with a 11 indicates [2017] be noted as a second in the Value Road will be constructed with a 11 indicates [2017] be noted as a second in the Value Road will be constructed with a 11 indicates [2017] be noted as a second in the Value Road will be constructed with a second be noted by the second be noted by the second by Setback distances between the drilling rig 7 blasting and receptors will be determinediconfirmed through the blast monitoring program. The amount of material handling at the extraction face will be reduced to less tha 4,500 kg par day when metocrological conditions require it, such as wind gual exceeding 40 km/hr, addre extraction face approaches the property line and/or sensitiv estrictions to the operational hours for drilling/blasting 7. All existing on-site/ external perimeter berms shall remain in place for the Port Colborne Quarries Inc.: Pit 1, Pit 2 and Pit 3 lands. 3. Fenning and Gates: a) Princh the stripping and extraction, a minimum 1.2 metre high post and wire ferroe shall be in place doing a learnal boundaries to ensure the site is secure. Site Plan Valance of Operational Standard 5.1 provides that the vest boundary abuting ARA Leonce 4444 is not required to be francid since the site and an over doing the provides the Gaterian and the site of the site 8. Extraction equipment will not exceed the following Overall Sound Power Levels 3. The licensee shall use water as a dust suppressant to control fugitive emissions necessary and during dry periods Overall Sound Powr nc. ) A gate will be erected at the main quarry access onto the Highway 3 entrance/exit and be locked at all times when the quarry is not operational. )) The existing entrance/exit at: a. Humberstone Speedway onto Highway 3 will be permanently closed. Source Description 4. The Best Management Practices Plan for the Control of Fugitive Dust (BMPP prepared to Colder Associates Ltd related December 2020 and as amended shall be Levels (dBA) mber 2020, and as am ded, shall be posted in the on-site pit administration office. Compliance with the BMPP is deemed to a Site Pian condition. Screen 115E - Upper deck wes Screen 115E - Lower deck west Screen 115E - Upper deck east Berm construction parallel to the upper reach of the realigned Wignell Drain will be as per Detail 3 on Sheel 4 of 10 to accommodate ongoing maintenance of the ditch by the municipality. a. Intrinsiestance operating the regiment of millowing the regimentationary device. b. Former Call Road onto Second Concession Road will be permanently closed. Refer to Note 5 for farm equipment access and pates. ) There Protection Forching shall be installed around the northern woodlobs, (SWD-2 and WD3-2) as per the Recommendations from the Tree Preservation Plan (See Sheet 5 of eological Assessment, Stage 1 and 2, Golder Associates Inc., dated July 2020 Screen 115E - Lower deck east Impact Crusher 177 - west Achebeological Assessments, Daya Land Z. Colder Associates (i.e., dense July 2020) The architectory and the on the statication (in Prin Identified at Association (IACD-2020) (IACD-2020 17. Quarty Sidesippes. a) Final Quarty sidesippes will vary from a maximum 2:1 slope and increase to 3:1 - 4:1 slope generally with inboe areas shown on the Plan. b) The Licensee will create the side slopes by: Impact Crusher 187 - east Jaw Crusher Norberg Impact Crusher 154 Wash plant 155E - west screen to Existing Buildings: The timing of the removal of the following buildings will occur during Phase 1A: i. Spectary usewing stand at the Humberstone Speedway.
 ii. All ancillary buildings and structures at the Humberstone Speedway.
 104 i) Angled blasting, ii) Use of broken s Wash plant 155E - west screen wa Wash plant 155E - east scoren to 5. <u>Biological and provide the solution are solution and solution and solutions of the provide term of the solution of the solution and the</u> iii) On-site overburden Wash plant 155E - east side wall entative sample of antifacts, and aid in determining the need for Stage 4 mitigation Loader Extraction Haul Truck empt of impacts a) All berms shall be seeded as per the Level 1 and 2 Natural Environment Report 2. Unit such the first Location 1 (MR3/268), Location 17 (MR3/269), Location 0 24 (MR3/267), Location 25 (MR3/267), Location 21 (MR3/267), Location 23 (MR3/267), Location 24 (MR3/2 Recommendations (See Sheet 5 of 10). a) All rehabilitated side slopes are to be vegetated with native, non-invasive seed mixture Haul Truck full Highway Truck Rapid germination and growth, Interes providerse fourier est interest in en aducedo alter num. 5. Should the Stage at antenelogical interestiente of Location 1 (AVG-296), Location 17 (AVG-296), Location 22 (AVG-296), Location 30 (AVG-296), Location 31 (AVG-296), (AVG-391), and Location 24 (AVG-396), and a concentrational for Stage 4 integration of mapsAc, the risk in question at insight the development and implementation of attract of mapsAc, the risk in question at insight the development and implementation of attrac-tion of the state to be impacted. The development of attraction of the state of the best parameters of interestical topological concentrations taking must involve the engigement of interestical topological concentrations taking must motive the engineering of interestical topological concentrations communities 8. <u>Entrance/Exit</u> Once the Highway 3 entrance/exit has been established: a) A road sweeper will be maintained on-site (or within Licence 4444) and used on a rearround basics as required. The entrance and associated paved shoulders will be wept to pick up and dispose of quarry related debris at least once per week, and as 12. As noted in General Note 5b), during the extraction of Phase 1A, a new processing plant will be located within PH 3 (Lionnee 4444) for which the Lionnee has completed a Noise Impact Assessment (NA) based on a specific plant configuration and equipment. If the final plant configuration differs, or alternate equipment is used, the Lionnee shall uently as conditions warrant. requently as conditions warrant. b) A steel grating system will be installed at the weigh scale area, and cleaned regularly. c) The scale entry and exit areas will be paved for a minimum distance to the weigh scale. Street fromtage to create a long-term shade campy. The tree stock at the time of planning shall be used as an invitance of 15 medies in helph and • for decisions there, a more more of the more call • Monting of all vegetation within the sebacks and on herms will continue throughout the life of the query and 1 any vegetation dies, it will be replaced immediately (during the proper planning assam). inimize dust/mud drag-out on truck sires update the NIA <sup>1</sup> <u>Farm Access</u> () For Phase 1A farm equipment will access the site via Licence 4444 (Pit 3) () Phase 1B, 2, 2:X and 3:X farm equipment will access via 1645 Second Concession Road, A locked gate will be encided at the Licensed Boundary. Agricultural Impact Assessment, Colville Consulting Inc., dated September 2020 4. The protected silles must be fenced (post and wire) prior to commencing ext Excess topsoil not required for term construction or post-extractive rehabilitation and which would be otherwise displaced, shall be available for re-use to improve the agricultural conditions for cultivation at other locations where opportunities exist. 19.<u>Benching:</u> The maximum blasting depth will be 6.0 metres resulting in two (2) excavation benches. In locations where the rock continues deeper, a shallower third 5. All alterations are prohibited within the limits of the protected areas of the sites un Internal Haul Road. Internal haul routes will be constructed and diabanded as required to access the active quarry face. The location of the internal roads shown on the She Plana are general and anticipated but will vary depending on changing site conditions and truck traffic flow requirements. such time that the MHSTCI has entered a report(s) in the Ontario Public Register of Archaeological Reports where the report(s) recommends that the archaeological site is of no further cultural heritage value or interest. bench may be required. 2. Lands not immediately required for extraction shall remain available for agricultural 20.Direction of Extraction: Extraction of each phase shall be in the direction as shown on the plan, with an intent to be working towards the nearest sensitive receiver 6. Any archaeological site that is of further cultural heritage value or interest that remains within the licensed area at the time of surrender of the licence will be protected through a 11 <u>Aggraphics Disposition</u> <u>Aggraphic processing will initially court of shall in the Deut Colormo Damme De 11. During Prives A structuro. In the processing plant and wash plant will be relocated to Lineau 4444 (PR 3) and to accommodate IIIs, a Site Plant memodater of Ducesa 4444 will be initiated. A conveyory system may be used to accommodate this, a Site Plant Site and Site </u> 3. The licensed boundary area should be aligned with existing property boundaries <u>Weight Scale</u>: The weigh scale to be used for this Licence will initially be located off-sike at the Port Colorne Quarties Inc. Pt 1. During Phase 1A extraction, once a new processing plant is relocated to Licence 4444 (Pt 3), a weight scale and scale house will be established near the Highway 3 entrance/exit generally as shown on the Site Plans. trictive covenant on title 7. Overall Quarty Site Should previously unknown or un-assessed despty buried archaeologiail resources be uncovered during the development, they may be a new the proposent or period discovering the archaeologiail resources muit oreas alteration of the site immediately and engage a literated archaeologist to carry out anchaeologist factured. If a site immediate with a site of 40 (1) of the Ontern Heritiga Act. 4. Appropriate buffering abutting agricultural lands shall employ such things as: repropriete burning according approximate ranks share employ such single as. a) Vegetated berms, which can offer both visual and physical buffers, b) Dust suppression techniques and noise management according to appropriate 0. Groundwater Status: The groundwater elevation across the site has been determined y Golder to be approximately 178.0 masl. 1. Scrap: No scrap will be stored on-site but will be stored either in the Port Colborne tuarries Inc. Pit 1 or within Licence 4444 (Pit 3). 22.Stockpiles: Aggregate stockpiles will be located primarily off-site however, when limited processing does occur at the quarry face. It shall occur on the lowest quarry floor 5. When agricultural vehicles utilize interior quarry roads to access agricultural lands, a safety protocol will be developed to ensure the safety of all farm traffic through the licensed area, or alternate access shall be provided. 8. Any person discovering human memain must immediately notify the police or conner and the regulator of cambatines, Ministry of Covamment Sankos, All work in the vicinity of the discovery will be suspended immediately. Other government staff may be contacted as appropriate, however, modia contact shall not be made in regard to the 12.Eusl Storage: Fuel Storage: There will be no on-site fuel storage. Fuel storage will continue to be located in the Port Colborne Quanties Inc. Pit 1. Portable explorent within the quarty (i.e., crushers, screnetrors, generators, etc.) will be refueded by a mobile fuel nuck or equivalent and follow all applicable Liguid Fuels Handling code requirements. available and be adjacent to the active guary face and not exceed 20.0 metres in height 23.<u>On-Site Equipment</u>: Proposed extraction equipment to be used on site is defined by the Noise Assessment as noted under the Technical Recommendations. 6. Perimeter fencing shall be established to minimize the potential for trespass and 24.Recycling: Recycling of asphalt and concrete will not be permitted on this site 3 Equipment Site preparation, extraction and rehabilitation on the site will be Monitoring of all vegetation within the setbacks and on berms will continue throughou the life of the quarry and if any vegetation dies, it will be replaced immediately (during the proper planning season). 25.<u>Dust Control</u>. Dust will be mitigated on-site as per the Air Quality Assessment as indertaken using scrapers, front-end loaders, haul trucks, dozers, excevators, drill-rigs to as necessary. As well, portable crushers, screener may be used on occasion at the Blast (Vibration) Impact Assessment, Golder Associates Inc., dated July 2020 Technical Reco their content inspect transmission. User reactions the transmission of the transmissi arry face. 26.Blasting: Blasting impacts will be mitigated as per the Blast Impact Analysis as noted under the Technical Recommendations. Blasting will occur as required to provide a suitable inventory, but on average approximately twice per week. I Tree Removal: Any trees removed within the Limit of Extraction will be either:
 I. Chipped with the material distributed within proposed vegetation zones.
 Burned on-site subject to an applicable maniperial.
 Use of re-located to the quary adealoges within the squartic habital littoral zones to resittate post-ordicative fish habitat. 8. Erosion/Vegetation Monitoring: If there is any substantial areas of erosion that would 5. Ecosonrivegetation Nonkonng. If there any substitutial areas of errors that would result in increased lavels of adamtation either during the quary oparation or during the progressive rehabilitation stage, those areas shall be expanded and re-seeded immediately. If there is any substitutial vegetation dis-out, including borm vegetation, upland treessimula, aquado vegetation, it shall be replaced immediately and/or during the next appropriate participa season. 27.<u>Final Quarty Elevation</u>: The final quarty floor will vary from 162.0 masi at the south limit to 169.0 masi at the north. The quarty floor will blend in with the quarty floor for Licence 4444 which will be at approximately 169.0 masi. 28.Extraction Area: The total area to be extracted is 71.1 hectares. 5.Topsoil/Subsoil/Overburden Stripping; ) In advance of extraction, a sufficient area of topsoil, subsoil and overburden will be 9. The groundwater monitoring program shall identify and monitor any changes related to ground water resources surrounding the quary operation to ensure farm operations dependent on ground water are not impacted. If any well interference issues are identified, the Licensee shall ensure that adequate water supply is available for adjacent 29.Refer to Sheet 6 of 10 and 9 of 10 for cross sections. toped to allow for approximately 2-3 years of extraction. The stripped topsoil, subso d overburden will be used for: 30.Refer to Sheet 6 of 10 and 7 of 10 for progressive extraction and progressive i) Berm construction ii) Rehabilitation of final quarry slopes arm operations. 31.Extraction will follow the following phasing schedule; • Phase 1A-i, Phase 1A-ii, Phase 1A-iii In renabilitation of final quarty slopes Once operations cease for the Humberstone Speedway and PCQ is prepared to begin 10. The Licensee shall ensure that quarry signage on Main Street (Highway 3) includes a phone number for neighbours to call if any issues should arise. 3. Maintained a record of all blasting details including a seismic record of the ground and air vibration monitoring results. The blast details and monitoring results shall be made available to the Ministry of Natural Resources and Forestry (MNRF) and the Ministry of Environment, Conservation and Parks (MECP) upon request. opment of the property as a limestone quarry, there will be an intrusive investigation leted to prepare a Phase Two ESA report for the Sile in accordance with O. Reg. • Project 2 • 11. The Licensee shall ensure that all MOECC standards regarding blasting, noise and DETAIL 1 WETLAND ENHANCEMENT FEATURES 12. The Licensee shall use non-invasive, native plant species for berm plantings and 4. Prohibit blasting on Saturdays. Sundays and Statutory holidays. other landscaped features surrounding the quarry operation 5. When biasting within approximately 300.0 metres of adjacent residences, (as shown on Sile Flans as "Limit of Increased Blast Monitoring) the quary shall regularly review their blast proceedings in conjunction with the blast motibility results be assess when the blast. The termination port of the blasting operations will be governed by the results of SIII the strain processing operations will be governed by the results of SIII the strain post of the blasting operations will be governed by the results of SIII the strain post of the blasting operations will be governed by the results of SIII the strain post of the blasting operations will be governed by the results of SIII the strain post of the blast results of strain post of the strain strain post of the blast results of SIII the strain post of the blast results of strain post of the strain strain post of the blast results of SIII the strain strain post post of the blast results of SIII the strain strain post of the blast results of SIII the strain str 13. The Licensee shall document any complaints involving the local agricultural community and annually, confirm to MNRF how they were resolved. Subject to the above noted approval. Phase 1-X will be undertaken in advance of Sub-phase 1ii) and 1 ii). Phase 2-X will be undertaken after Phase 2 and Phase 3-X will be undertaken after Phase 2-X. Air Quality Assessment, Golder Associates Inc., dated December 2020 All duality assessment, uoder Associates Inc. dated becomer 2020 1. The amount of explosive used will be reduced to less tan 6.160 kg when meteorological conditions require it, such as wind guista exceeding 40 km/h, and/or when the extraction face is within 300 metters of sensitive receptors. The actual reduced amount of explosive will be determined through the blast monitoring program. the on-site monitoring program. TTATOTION OF NOISE REPORT NOTE 12 RECOMMENDATIONS FROM TECHNICAL REPORTS continued on Sheet 5 of 10 - Additional Operational Notes Plan TRUCED FOR THE ANT SUBJECTS HOTE AND DOBING CHANGES AN AND TO Noise (Acoustical) Impact Study, Golder Associates Inc., dated December 2020 The following minimum perimeter berms (or acoustically equivalent measures/barrier) be implemented prior to extraction: DETAIL 3 DETAIL 4 STRUCTS SKETCH OF BERM ABUTTING PROPERTY SKETCH OF BERMS ABUITTING PROPERTY III be implemented prior to advtaction: A 4 meter help(labove existing grade) berm along the south property line. A minimum 2 motion high (above existing grade) berm along the east and north property lines of the extension area. effer to Visual Impact Assessment Recommendations for maximum berm heights. BOUNDARIES NOT ADJACENT TO WIGNELL DRAIN. 0 . 0 B 2 BOUNDARY WITH WIGNELL DRAIN. REVISIONS PRIOR TO APPROVAL LOPES SEEDED WITH SLOPES SEEDED WITH NATIVE HERB -/ GRASS SEED MIX TO PREVENT EROSION OF THE BERM SURFACE SITE DATA NATIVE HERB KING MIGNELL DRAIN AREA TO BE LICENSED ± 80.34 ha AREA TO BE EXTRACTED ± 71.12 ha EX\_DISTURBED AREA NU ZONE B.S.C. Oriba can receive both fearting and ENT EROSIDN OF BERM SURFACE 2. The location of the herms is shown on the Operational Plan. In addition to 1 above 1.5:1 SLOPE 2. The location of the berms is shown on the Operational Plan. In addition to 1 above, specific berm requirements, including additional required berm heights, will be determined through both noise and blast monitoring as the areas of extraction move towards the Points of Reception (PORs) as shown on the Operational Plan within the Increased Blast Monitoring Zone'. SLOPE TAL LAND PARCEL ± 106.29 h 3:1 SLOPE 3:1 SLOPE MAK, WATER LEVEL 3. Areas requiring additional and/or specific noise controls and/or quieter types of eou/generit are shown on the Operational Plan as Noise Zone 1. Noise Zone 2 and Noise Zone 3. The local barrier height and alternative controls required to achieve compliance with applicable noise limits within the identified areas are noted below: 2.25m 0.8m -4.0m--4.0m æ STE 2015 2221 → 3.0m + -15.0m SETBACK-BI BI SHOW NOL DO CANADA DETAIL 2 DETAIL 5 PORT COLBORNE SKETCH OF BERM ABUTTING BOTH SKETCH OF SECOND CONCESSION QUARRIES INC. HIGHWAY #3 AND MILLER ROAD. ROAD SETBACK. SLOPES SEEDED WITH NATIVE HERB PIT 3 EXTENSION - / GRASS SEED MIX TO PREVENT EROSION OF THE BERM SURFACE \_\_\_\_ 0.5m HIGH BERM, 3:1 SLOPE WITH VEGETATION (SEE 1:2.500 ALIGNMENT OF WIGNELL DRAIN → DURING PHASE 1-X EXTRACTION WIGNELL DRAIN PRO ECT NO 2:1 SLOPE 4:1 SLOPE NATURAL ENVIRON. NOTE 714 1.5.1 CHECKEDS DRAWN IT SLOPE Page 43 of 52 . DJECTIMSR OPERATIONAL NOTES PLAN 0.8m + + 0.8m + 0.6 he BLANDING'S TURTLE COMPENSATION HABITAT - 30.0m SETBACK-N.T.S NTS

95m setback

4 of 10

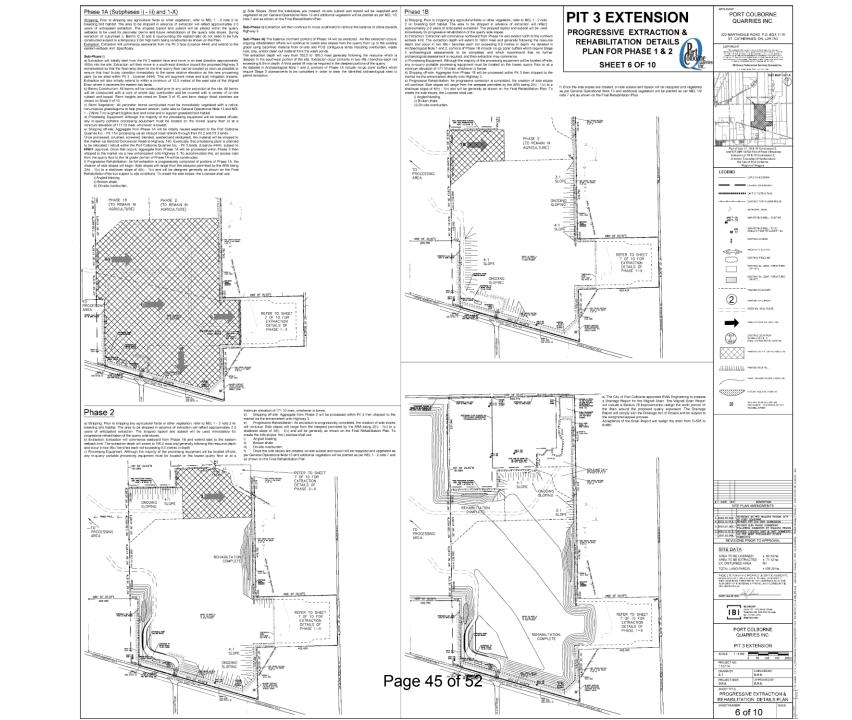
5. Detailed blast records shall be maintained and shall include the following: 5. Grouting: The bedrock along the guary wall could be grouted to seal the fractures and adapted genetics of the species. Plantings from local sources are likely to be well PORT COLBORNE Location, date and time of the blast: remove the hydraulic connection to adjacent wells. adapted to the local climate and growing conditions and may have a higher likelihood of successful establishment. Therefore, plantings will be procured from local sources to the PIT 3 EXTENSION Dimensioned sketch including photographs, if necessary, of the location of the blasting operation, and nearest point of revention: OUARRIES INC. 6. Low Permeability Sid Slopes: The guarry walls could be sloped with low permeability vii) All rehabilitated side slopes are to be vegetated with a seed mixture capable of: Physical and topographical description of the ground between the source and the clavey meterials to line the fractures on the quarry wall ADDITIONAL OPERATIONAL · Rapid germination and growth, 222 MARTINDALE ROAD, P.O. BOX 1118 ST. CATHERINES, ON, L2R 7A3 Type of material being blasted 7. Recharge Wells: Recharge wells could be installed to maintain groundwater levels in Controlling erosion NOTES PLAN Maintaining or enhancing soil fertilit Sub-soil conditions, if known; wastrating or enhancing so trently.
 The seeding is to be established in a timely manner and if necessary, facilitated by the application of fertilizer, water and/or additional seeding. Prevailing meteorological conditions including wind speed in m/s, wind direction, air The requirement for any of these mitigation measures would be determined based on the results of the groundwater monitoring program. The results of the monitoring and response program will be incorporated into a report that will be submitted to the MECP on an annual basis as part of the future requirements for a site-wide Permit to Take Water temperature in "C, relative humidity, degree of cloud cover and ground moisture SHEET 5 OF 10 8. Wignell Orain: Prior to undertaking operational activities that have the potential to impact tish habitat in the Wignell Drain, including drain realignment and stroppinglexication west of the drain within approximately 30 m. the appropriate agency/agencies shall be contacted, and the required authorizations will be obtained. An occlogies with be related to determine the appropriate course of action at that time. Number of drill hole Pattern and pitch of drill holes Size of holds: The following is the process that shall be carried out if tree removals are reque Depth of drilling; The isolowing is the process that arise to carried out if the removals are reque during the restricted time findicated in the Migratory Birds Convention Act. I. Contact a qualified individual (i.e., wildlife biologist or omthologist), determine if nestina birds are within the tree removal distubance area. Permit to Take Water 1. Any future Permit to Take Water (PTTW) application by the Licensee to MECP and Depth of collar (or stemming Depth of toe-load; 9. Blanding's turtle Habitat annual monitoring reports, shall be subject to peer review by the Regional Municipality of ) Weight of charge per delay: ii. If the bird specialist has determined that there are nesting birds on site, then no tree removals/chipping conducted within the boundary set out by the specialis emovals can resume within this once the migratory bird specialist has determine s) To provide compensation habitat for Blanding's turtle, the Licensee shall create a Number and times of data cated / enhanced 0.6 Ha habitat located between Second Concession Road and The results and calculated alue of Peak Pressure Level in dBL and Peak Vibration in Natural Environment Report, Golder Associates Inc. dated October 2020 Phase 3-X. Supplementary compensation habitat will be created within the former Car Road right-of-way where it traverses the Silver Maple Mineral Deciduous Swamp that the nest is no longer utilized Setbacks: All extinction embacks for Phases 18, 2 and 3 shall be clearly demarked where they are contiguous to environmental features and specifically those identified as CVR4. FOD7. CUM14. FOD7.2, SWD3-2. that the next is no larger utilized. It if the loss possible determines there are no migratory lords nexting within the disclorance area, the contractor will have a problemmined clearance window to conduct removals and charging an not completion, the loss good will include the late and proceed with another assessment/mest sweep. This process will continue until all removals and charging a complete. The excess, if any over the prescribed lim >) The design of the habitat must be approved by the Ministry of Enviro Conservation and Parks (MECP) prior to or concurrently with the removal of the existing Category 2 hotitst (i.e., three man-made ponds associated with the Humberstone Speedway lands). 2. Bird Breeding Habitat: The Licensee shall avoid vegetation removal including agricultural fields during the active breeding beason for birds between April 15 and August 15 unless construction disturbance is preceded by a needing survey. If nets are found, a buffer will be installed around he nest and not removed until young have fieldged lyrock Assessment by Golder Associates Inc., dated December, 2021 The Licensee shall undertake an assessment of proposed blast design(s) for flyrock sofertial using an industry standard flyrock model which must be conducted: c) The compensation habitat shall not be designed as an on-line feature of the realigned 361 Monell Dre 3. The TPZ is the area around a relained tree that is to be contented by free protect d) Due to the potential for turtles to overwinter in the Humberstone Speedway ponds. Following requir 3. The TP2 is not be used for any type of storage (e.g. storage of debts, construction material, surplus solls, and construction equipment). No trenching or tunneling for underground services shall be located within the TP2. Construction equipment shall not be allowed to idle or enhaust within the TP2. Prior to removal of vegetation in agricultural fields, the Licensee shall confirm that here is no suitable habitat for bobblink or eastern meadowlark present. If present, emitting under the ESA may be required to remove the habitat. removal of Category 2 habitat (equatic habitat) will occur during the active season when turtles can be captured and relocated outside of the footprint. The Licensee shall ensure that the orientation of each blast is to direct flyrock away e) A turtle relocation program will be implemented prior to removal of existing Category 2 habitat. Any Blanding's turtle individuals captured will be relocated to the proposed The Licensee shall provide training of drilling and blasting to crew(s) to ensure they permany avere the earning verteques to hence a solution of the solution. All vegetation communities with the potential to provide nesting sites to migratory birds will require nesting surveys if they are removed between April 15 and August 15. This will include the FOD7-2 and the CUM1-1 in extraction area 3 north of the CO7-2, and the CUM1-1 in extraction area 1.4 around the Humberstone Speedway. If instand the PCQ's approach to flyrock prevention on-site suitable habitat immediately by qualified individuals in accordance with the Ontario SAR Handling Manual for ESA Authorization Holders. The Licensee shall provide quality control of drilling and blasting operation by: 4. Trees shall not have any rigging cables or hardware of any sort attached or wrap 4. Trees shall not have any rights, cables or hardware of any sort attached or wrapped around here, nor whall any contaminants be dunged within the protective areas. Further, no contaminants shall be duringed within the protective areas. Further, no contaminants shall be duringed within the protective areas. Further, no contaminants shall be duringed within the protective areas. Further, no contaminants and the proper actions control with the protective and be provided within the protective areas the provided and the proper actions conforming to City Policies and Bry-Laws shall be carried out. ) Prior to loading any shot, blast designs shall be reviewed and approved by f) A worker awareness program will be implemented for all personnel traveling or working on the site to mitigate harm to individuals. Prior to building any shot, basis designs share to revenue and approved by in engineer with experience in quarties and blasting.
 Drilling accuracy and deviation will be monitored. The use of face mapping. areas of the open agricultural lands have transitioned into fallow post-agricultural lands nesting surveys will also be required in those areas if clearing is to take place during the sols (e.g., laser contouring) is required to ensure that face burdens are controlle Free Preservation Plan ) The use of high-speed video is required to enable estimation of the fragment launch 1. All woodbands, breeds and hedgerows located beyond the defined proposed extractor limits shall be preserved and protected in their entirety. Tree Protection Fencing shall be installed at minimum of the drip line plus one metre, par locations and extents noted or slocity which will be used in the refinement of flyrock models (i.e., bench top and bench 3. Fish Habitat: The nonda within the former Humberstone Speedway lands may contain 3. Fish Habitat: The ponds within the former Humberstone Speedway lends may contain the, and it present, they shall be removed prior to destructing and/or destruction of the ponds. This will require a NNRF permit to collect fish and it shall be obtained prior to relocation to avoid construction of the fedoral Fisheris Act. Any make fish present are to be relocated to suitable nearby habitat and non-native fish are to be euthenized. 5. Upon completion of the tree removals, refer to Operational Note 12. Any chipping Detailed drill logging program will be designed. Anomalies indicating potential the Site Plans. 5. Upon completion of the tree removals, refer to Upsettonil Note 12. Any chipping, cutting or hank learnup is to be completed outside the tieri nealing assam. If these activities are to occur within the restricted activity period, due dispense messures, including pre-charam genes tawayes will be engloyed to reduce risk to nearing break protected under the Migratory Birds Convention Act, 1944 and Migratory Birds Regulators. There survives all be completed by adjusting birds and Migratory Birds. problematic zones will be recorded and communicated to the blasting supervisor so that measures can be taken to prevent the potential impact of those zones. 2. Tree Removal: Trees located within EQ07-2 are recommended for removal to permi 2. Tree Kemovik: Trees localed within FOU/2 are recommended for removal to permit the Phase 2 exhibition work of the proposed quarty expansion. The presence of Emerald Ash Borer damage, high occurrence of Ash trees, pioneer species and possible restoration priority young age of the trees present on site contribute to a low preservation priority for the FOD7-2 feature. All rememol/schell the in anordenment this the following no refer. The blast site will be reviewed to ensure compliance with the detailed drill program Sediment/Erosion Control: Sediment and erosion control measures shall be e: deministration control: seministration endotro control messales team be implemented proto to and during construction, and be implemented from pulsout the entre site, specifically in areas adjacent to the deciduous swamp and the East Wignel Drain. This may include the use of sit flancing, check dams, straw bales, np-rag and/or other to the seministration of the semin All blasts will be videoed and reviewed to ensure blast performance quality Periodic third-party audits must be carried out twice per year, to complimen 6. Excavation adjacent to trees to be preserved must be completed with due care as ntinuous quality contr emovals shall be in accordance with the following notes: e. Eccavator appartir to return to be preserved matc to compared term due care and advantation. Enzywator shall be any server the node prior to instripting and ennoval of soil. Should node to enzywator advantation advan echniques when and where as required Construction Impact Mitigation drological Study by Golder Associates Inc., dated October 2020 All monitoring requirements with respect to the querry discharges and the receiving system will be regulated by the industrial Sewage Works Environment Compliance Approval, (MECP) to be amended prior to the dewatering of Pit 3 Extension. 5. Noise and Dust Mitigation: Appropriate noise and dust mitigation measures shall be Potential Construction Impacts to Tress a) Polential Construction Impacts to Trees These are living operations that rates to branges in their environment. These can be descripted using construction without showing signs of demoge and some years to are as a result of its insertion without the some signs of the some of the some section are descriptions of the polential impacts the project may have on the trees, and maccimisation methods that are interested to aid in the mission of impact during the some signs of its insertions that are interested to aid in the mission of impact during the some signs of the mission signs of the some signs of the some signs of the some signs of the some signs of the mission signs of the some si nplemented during both site preparation and during the extraction operation 3. Vetland Vegetation Monitoring Program: A "Wetland Vegetation Monitoring Program" shall be implemented to monitor the deciduous swamp to accurately monitor any hanges in the wetland community over time and to measure the success of management actions. These long-term monitoring plots and/or monitoring transacts shall Visual Impact Assessment, IBI Group dated December 2020 The increased runoff under operational and rehabilitated conditions will be directed to te east and west branches of the Wignell drain, increasing the annual flows within these That Berm A: a 4.0 metre-high berm along the Second Concession frontage be built with a 3:1 slope on the external side and with vegetation plant between the berm and boundary fronce as per Naturel Environment Report Recommendation Nete 7/v). ater feature e established to include a count of the number of stems and percent cover for all plant species prevent. Baseline monitoring shall be conducted in the year proc to the commonsement of avariancin of Plass IB of 2, whichware oncurs first. Monkhing shall be conducted annually at a similar time of year (i.e., late July) for the duration of The Intelling cause of construction the Intelling Cause of Change the Intelling Cause of Construction the Intelling Cause of hydrogeological Study by Golder Associates Inc., dated October 2020 2. That Berm B: a 2.0 metre-high berm along the northern portion of the eastern of The following existing on-site monitoring wells shall be monitored with groundwater exists taken monthly and water quality samples taken every five years. Groundwater quality parameters to be tested for induce; to instruct the second exercises of HPAsses 119, 2 and 3. For all plants identified as part of Wetland Vegetation Monitoring Program, they shall be categorized by the veriness index based on the Floristic Quality Assessment System 3. Berm C: a 2.0 metre-high berm along the northern portion of the 'eastern-tab' built with eneral Chemistry pH, EC, TDS, Hardness a 3.1 since free also note 9 heims Total ammonia, Nitrate, Nitrite, DDC, Orthophosphate The groundwater monitoring program results and specifically the groundwater lutrients/Organic Indicators: drawdown levels and surface groundwater monitoring results will aid in demonstrating any potential impacts to the wetland function. Major and Minor lons: Alkalinity, calcium, chloride, magnesium, potassium, sodium, sulphate, anion sum, cation sum. 4. Bern D: a 4.0 metre-high berm stong the Miter Road frontage and extending latte for 100.0 metres along the northern and southern property limits of the 'assem-tab' at a 4.1 slope on the external side and 2.1 on the internal side. Both conferous a dicciduous threa are to be planted between the berm and the Miller Road boundary fre dicciduous these are to be planted between the berm and the Miller Road boundary for sooium, supnate, anion sum, canon sum, aluminum, animony, aneneis, barium, benyllium, boron, cadmium, chromium, cobalt, copper, iron, lead, manganese, moltow, silver, strontium, thallium, teanium, uranium, vanadium, zinc. ny potential impacts to the wetland function. Annually, the results of the Wetland Vegetation Monitoring Program will be a submitted NINRF prior to December 31 and available to the Region of Niagara, NPCA and City of issolved Metals Protection Fencing. ort Colbarne upon request Mechanical Damage The monitoring program will also include annual breeding bird surveys and anuran call Mechanical Damage Equipment can physically damage the trees through striking the trunk, limbs, and/or roots. Felled trees can also cause damage during the tree removal stage of construction. Some damage is unaviolable due to the provinity of adjacent trees, however, through the use of proper equipment and best menagement practices the damage to the trees immimded. The Contractor shall be hid responsible for all avoidable durings to the trees (Refer to Detail 2 and also Note 9 helow) count surveys within the deciduous swamp following the same methods used for the VEL1/2 baseline studies. The purpose of the widitle monitoring is to document winether he proposed extraction activities negatively impact species diversity and abundance. Mentering should be conducted for the duration of extraction Phases 19, 2 and 3. 5. Bern E: a 2.0 metre-high bern along the southern portion of the 'eastern-tab' built w Monitoring Well Number MW17-15, MW17-25, MW17-35, MW17-45, MW17-55, MW17-65, MW17-75, MW17-85, MW17-95, MW17-105, 8. Berm F: a 2.0 metre-high berm along the eastern boundary of the property extensouth to Main Street and built with a 3:1 slope. Following rehabilitation, anuran call count surveys will be completed within the wetland during all stages of development. Note: trees shall always be felled away from adjacen MW17-1D, MW17-2D, MW17-3D, MW17-4D, MW17-5D, abilitat amund the periphery of the extraction area to evaluate the success of these habital around the perpetery of the extraction nees to evaluate the success of these features as thereafting habital for emphasism. Nontrolling will be conducted for a period of these parts. Following mahabitation, the welland habital will be evaluated for a utabitity as anapping furth forming and overwritering habitat. Because the cannot be determined how long it may take for sinapping turthes to colorabe the habitat, the evaluation will loca on the subabity of the habitat raths than the presence or absence of associpting turties. MW17-6D, MW17-7D, MW17-8D, MW17-9D, MW17-10D 7. Berm G: a 4.0 metre-high along the Main Street frontage built with a 4:1 slope on th Root Damage 2. Three additional monitoring wells are to be installed prior to quarrying and are shown on the Site Plans and induce; i) on the Second Concession Read frontage mid-way along the northern limited extraction; (ii) mid-way along the asstern procept hourdary and ii) at the northern entent of the Miller Road tontage. These wells will be also be monitored at the same frequency as the oxisting wells. The success of tree preservation is dependent not only on protecting the root zone from compaction and damage; it is also contingent upon the ability to ensure that the structure roots within the root plate are not disturbed. Impacts to this area may result in the structural failure of these trees. Excavating soil 1 metre outside a tree's drip line, or within external side with deciduous and conferous trees planted between the berm and boundary fence (see Detail 2) 8. Berm H: a 3.0 metre-high berm along the western property boundary associated a drip line can damage roots by tearing and spitting back to the stem. This damage can later lead to rot that can kill the tree. All work within the drip line of an existing tree sha 1325 Main Stre 7. Proceedings Vogataco.
7. Proceedings Vogataco.</p 9. Temporary Berm: During the extraction of Phases 11 – 11iii, a temporary berm will be erected just vest of the Wignell Drain and be 2.2m high with 21 side slopes. The berm will recessitate only 100 on of Berms C and E to be constructed at ther western extent Subject to approval of Phase 1-X and the comprision of Phase 1-11, the temporary berm will be removed and the full detect of Berms C.2 and E to be constructed at the two stars of the set 3. The results of the Groundwater Quality Monitoring will be used to evaluate potential changes in water quality as the proposed quarry expands. The groundwater level monitoring will be used to assess the groundwater level drawborm associated with quarry devettering as the quarry expands. The monitoring program will be used to evaluate potential match survivating wata and used as part of the hydropological drawbare potential match survivating wata and used as part of the hydropological be approved by an Arborist. When excavating the top 30-60 cm of soil adjacent to trees, care must be taken. Excavation shall clearly sever the roots prior to stripping and removal of soil. Exposed roots with a clameter greater than 2.6 cm (1 inch) shall be pruned back to the soil face to prevent damage to the tree. i) Wetland and equatic plants that may be planted in the nearshore or shoreline b) Protecting and Managing Trees During Construction ed to provide appropriate tree protection and The following recommendations are presented to provide appropriate tree management during the future development and construction of this project During the initial 8.0 m deep excavation lift, all stockpiles within 200.0 m of Milk Road and Highway 3 (Main Street), shall not exceed 10.0 m in height. 6. In order to implement appropriate response actions in a timely manner, the Licensee all retain qualified personnel in the areas of hydrogeology and will have water well contractors and a plumbing contractor on retainer in the event that the need for these 1. The Protection Provides (TPT) shall be inseleded to predict all three identified for instantionation and advances to EQ of Dire Coloman statutions, to provide the EQ of Dire Colomaton and advances to EQ of Dire Colomaton and advances that contrast the Properties Advance to the two predictor tendors and advances that contrast the Properties Advance to environ and advances and the provided to the CQ. The protection function gamma and an advances are related to the CQ. The protection function gamma and an impact and monthly and explained as a required. The tencorg shall be entroped to the CQ. The protection function gamma and the comparison of the tencorg to the tencorg to the tencorg to the tencorg the comparison of the exclusions works. 11. Both coniferous and deciduous trees are to be planted between the berm and the Highway 3 (Main Street) and Miller Road boundary fence. ing program will be discontinued once the quarrying is completed and the allowed to flood through natural surface water and groundwater inflows, livater will recover to static conditions. 12. Existing hedgerow vegetation is to be retained where possible. A DATE BY DESCRIPTION 13. That all berms be immediately vegetated with a grass type legume ground cov avoid erosion, sedimentation and dust. rivate Well Complaints Response Program he following description provides the decision process to be followed when a well 5 022102178 TACENTAL OF PERMIT TO TAKE ANTER 4 002210148 TREVEND FOR Dist JUST SUM 2020 2 Lippon receiving the necessary project approvals and prior to the comme 11-5 C TROWING DOWNED LINET & LINET COMME D2.000 1 051 MARY FMC LINET & LINET COMME The well will be inspected by a Hydropeologist and/or a Licensed Well Contractor to tree removals, all trees designated for preservation must be flagged in the field. All itially evaluate the complaint. An analysis and impact assessment will then b designated preservation areas must be left standing and undamaged during site works. REVISIONS PRIOR TO APPROVAL inducted by a Hydrogeologist to evaluate potential impacts for groundwater level rawdown to affect the water supply of the well. An assessment of the well system Removals are to be completed outside of migratory bid nesting season, generally from April 1 to August 31. If removals occur within the restricted activity period, they shall be in SITE DATA ormance will then be carried out by the Hydrogeologist and Contractor accordance with the Migratory Birds Convention Act, 1994. Due diligence me tocketbanker who the neglect systems Converse that the neglecter including per-inducing per-clearing newsystems can be employed to reduce risk to nesting birlds and to comply with Migratory Birds Regulations. These surveys will be completed by a qualified person such as a wildlife biologist or omthologist. EA TO BE LICENSED EA TO BE EXTRACTED emerald ash borer iii) The segment of Carl Road that bisects the deciduous swamp is to be If it is determined by a Hydrogeologist that there is a significant potential for interruption of the water supply of the well or the water supply of the well has been rehabilitated following the decommissioning of the road. Excavations in three or four areas along the length of the road shall be created to improve surface water drainage. ITAL LAND PARCEL ± 106.29 h interrupted, then the water bopping protocol or program will be initiated. If the initial measures are not successful, then miligation measures will be implemented in the interim until a successful response is achieved. This could involve the implementation of Plantings along this segment of Carl Road shall include the dominant tree and shrub species found in the deciduous swamp including silver maple, pin oak, swamp white oak. TREE PROTECTION FENCING nal contingency measures until a successful result is achieved ar oak, red maple, and spicebush 5-37 Invasive shrub species including multiflora rose, common buckthorn, and Tartarian ATTECHNENT OF PERCENTS TO TREAS VILL BOT AN NORMETED TE 2015 2221 If there is no significant notential for the internuction of water supply then no honeysuckle have become established in this area and may prevent the successful establishment of the native plantings. These invasive shrubs shall be removed prior to . In dense is no agintum potential to set interruption of water supply, then to estoration action will be undertaken, and the temporary water supply will be focusing the single supervised of the single set o Anniholi S LANCELO M COLORADO EDERM ARCITOSE MACIPALINED LO VE PROPER MACINGE TAKA, PARTICES. TO MA DESTRICT the planting of Carl Road BIGHOW Res (0) - BID Able Real Plan to Oli Not 200 Canada MUNDE 200 iv) The setback area at the north end of extraction area 3-X and east of the 189 ADDITION TO WITHOUTS WALLAW CONSTRUCTOR WITHOUTS SUBJECT OF VERSION BE PLACED WITHIN THE TRUE PROTECTION ZONE. bi) The setBack area at the north end of extraction area 2-X and said of the exclusions saves (the cost 444) is asynophismetic with additional planning to enhance the exclusion of the setDate of the setBack and the setBack and the indepense located east of the two works of a cutural meson. The entibilitation of associated area will create a control inflaving the north and of the deciduous areamy with and graves the setBack and the setBack and the setBack and the displaves of the setBack and the setBack and the setBack and the displaves that will inflave memory and the setBack and the setBack and the displaves that the setBack and the setBack and the setBack and the displaves that the setBack and the setBack and the setBack and the those areas and may include red day, templing apen, seaker while coder, red naples, normans). A while the reservation systems and area depanded (the commons). LE FILL otential Mitigation Options ALL TIME PROTECTION TO BE ENOTED FIRST TO ANY CONSTRUCTION ACTIVITY AND RESALT IN PLACE UNIT, ALL CONSTRUCTION AND RESALT COMPLETE 5. THEF PROTECTION, PRODUCT OF A RESALT OF A RESALT OF THE PROTECTION. AND/OR VED/L'AT ON There are several mitigation strategies that could be implemented to affect the supply of unrounding water wells, to counteract the effect of quarry-related groundwater level readown. If required, based on the results of the monitoring and complaints resonance the second PORT COLBORNE 17 with Chill NuClear WHY PENDS MICLARIE TO ADRIE T-AMAKAN THE MICLARIE QUARRIES INC CHECK OF ACCOUNT IN CHECK TO REPORT UNCOMPAGE THE DREAT AND D VeliDeopening: This would be effective. for example, for shallow bedrock wells that to longer have a sufficient water column due to quary-velated groundwater level rawdown. The results of the hydrogeological program indicate that well deepening is abile, since water supply is obtained from duplicate private water wells and municipal PIT 3 EXTENSION ALL THELE WHO REST OVER LIKENING THE ALL BLE HEADONLE PRICE TO PROJECT HEAVE ANY RESEARCH TO PROJECT HEAVE \_\_\_\_ 1:2.500 PRO IECT NO v) The area north of the existing quarry (Pit 3) and west of the northern end of the •) The unser orth of the existing surrer (P13) and exist of the nonderm end of the non DRAWN P . Well Replacement: This measure could be introduced for wells where well deepening as not sufficient and could also be positioned further from the quarry. ail Wells: Additional wells could be installed and connected by plumbing int noe by piping as such that there is a common feed of water from multiple wells ADDITIONAL OPERATIONAL

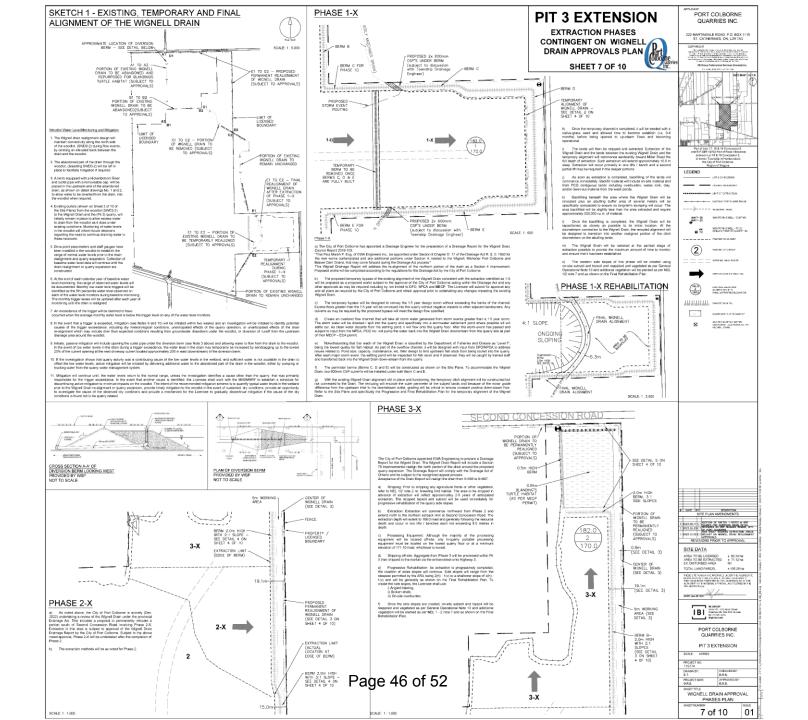
F. Trickle Wells: This would involve the pumping of the well into a storage system such

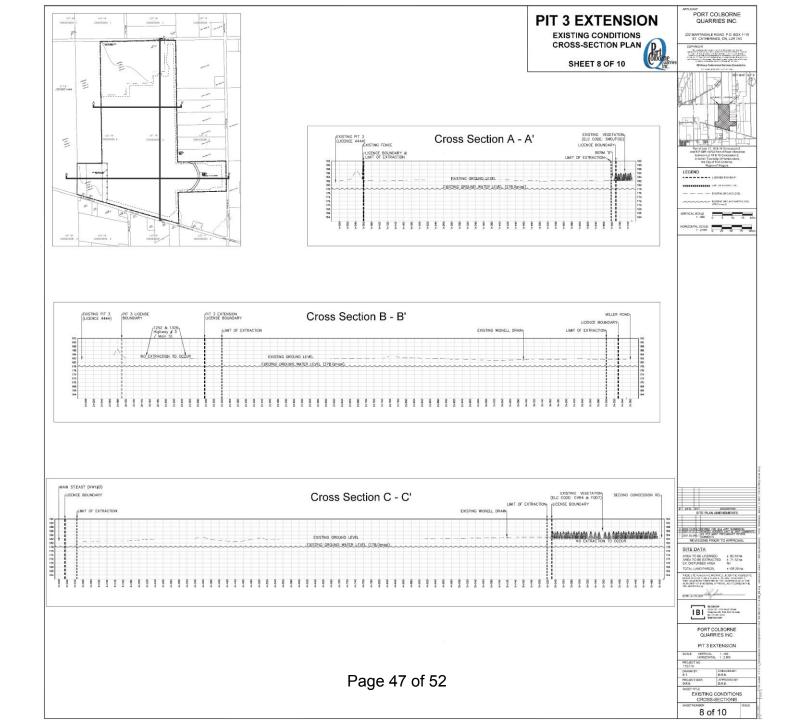
19

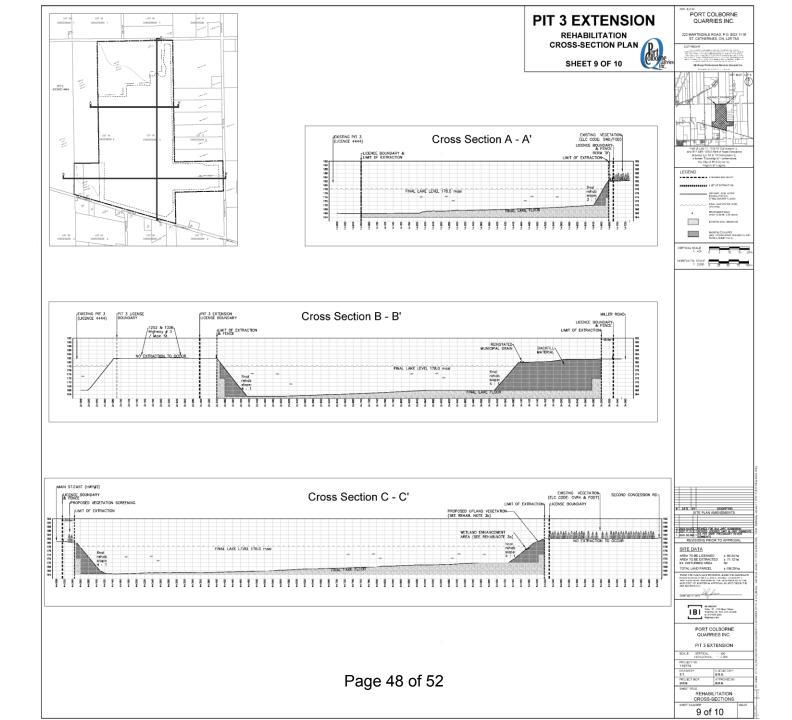
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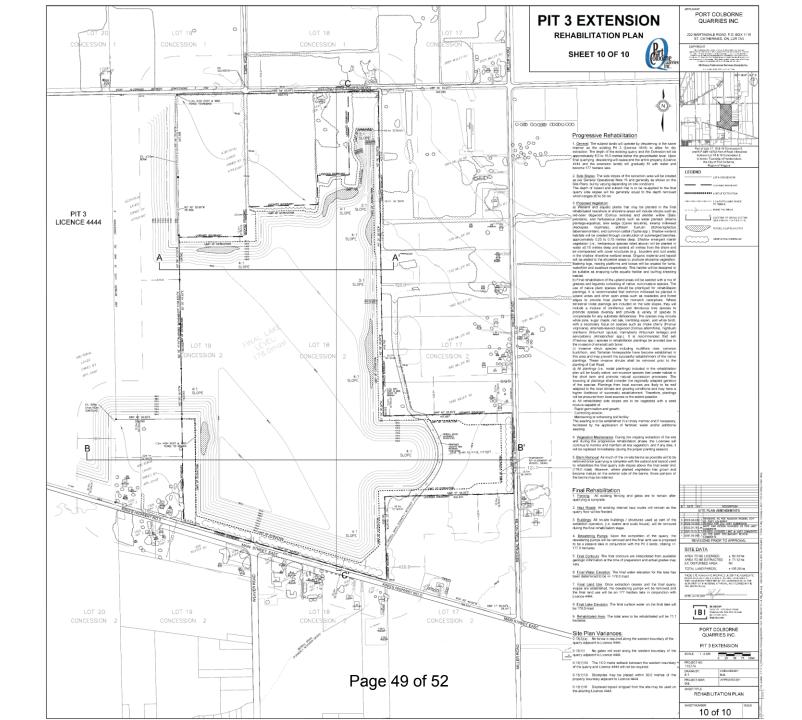
5 of 10











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Learn why this is important

My apologies,

My previous email should have been addressed to the City of Port Colborne City Clerk.

Sincerely,

Jessie

On Thu, Mar 2, 2023 at 12:55 PM Jessie Fehrman Hello Office of the Regional Clerk, wrote:

My name is Jessie Fehrman, and I am sending the following questions and considerations for the public meeting for the Official Plan and Zoning by-Law Amendment on the lands legally known as Part of Lots 17, 18, 19 Concession 2 for the Port Colborne Pit 3 extension. I want to state that our family has lived in this area, and on property surrounding the quarry for many generations, and we know better than most how accessible the rock is for an operation like a Quarry. We are supportive of the development of Port Colborne Quarries, Pit 3, and the progress this can contribute to. We have some questions to ensure the sustainability of the quarry project, our home, and farm business, but overall, hope that both the quarry operations and the surrounding residents can prosper.

Please confirm that you have received these questions and if there is anything else that is needed to consider them.

Well Water Questions:

- 1. On page 20 of the Hydrogeological Impact Assessment section 6.3 it states "The closest water wells to the proposed extension are at five houses situated south of Highway No. 3 ranging from approximately 75 m to 110 m from the proposed extension (Figure 16). The predicted drawdown for the distances of 100 m and 150 m from the quarry are approximately 2.6 m and 2.8 m respectively. The potential for drawdown will be assessed based on the groundwater monitoring program, including monthly groundwater level monitoring of monitoring wells MW17-8 and MW17-9. Any complaints will be addressed by the complaint response program". With the proposed setback from the highway being 30 meters (instead of the 90 meters that the assessment was based on) would this change the distance of the 5 houses located south of Highway 3, and the predicted drawdown of the well water?
- 2. On page 88 of the hydrogeological assessment it states "A monitoring and response program is in place for the existing quarry to detect groundwater level drawdown at the monitoring well locations. A response program will be initiated, if required, to evaluate potential impacts and implement operational measures, or contingency measures, to prevent an interruption of the water supply or to restore the supply. This monitoring and

response program will include all residences within 1,000 meters of the licence." Is there a phone number, email, or process for contacting PCQ to access their "water restoration program" or "complaint response program"? Has this process already been initiated for Pit 1 or 2? Have any residences worked through the "water restoration program from the extraction from Pit 1 or 2?

3. Within the Hydrogeological Assessment document in Table 6 – "Water Well Survey Summary, Port Colborne Quarries" is the list of wells on properties within 1km of the expansion property. Our wells are not listed on this list, and I am wondering if they should be and if others may be missing? On page 20 of the document it states that "Properties that were included in the water well survey by WSP were not included in this survey." and we wondered why they were not included as we filled out this survey? With our wells not being listed, will this affect our ability to seek assistance through the "water restoration program"?

## Blast Impact Questions:

- In the Blast Impact Assessment Document, on page 7 it states that "Sixty-three (63) sensitive receptors near the Site have been identified. These are listed in APPENDIX C, Table C1 and displayed in Figure 2. Separation distances, from the receptor to the extraction limit, shown in Table C1 are based on a 15 m extraction setback within the Quarry property limits and a 90 m setback from Hwy 3 within the Quarry Property limits". With the calculations of the blast impact on sensitive receptors (homes nearby) being done with 90 meters as the proposed setback from the highway, is there any data to show that reducing the setback to 30 meters will not affect the "sensitive receptors" /homes?
- 2. In table C1 on page 1, the distance that 1577 Highway 3 is listed at is 100 meters, which the document states include a 90 meter setback. Based on Figure 4 and Table 2 (page 10) in the Blast Impact Assessment, there is no listed safe "Max. explosive charge weight" for this reduced distance. What is the "Max. Explosive Charge Weight" that could be used at this distance, and is it possible to reduce the explosive charge weight this much and still effectively blast?
- 3. On page 12 of the Blast Impact Assessment it states that "Assuming a single hole per delay period, the maximum explosive weight per delay of 92 kg, the MECP guideline limit of 128 dBL may be complied with for all blasting beyond a minimum distance of about 284 m from adjacent receptor residences.". It appears that our home and other residences are within 284 meters with the 90 m setback and even closer with the proposed 30 m setback from the highway. Will this mean that the guideline limit for blasting will be exceeded by blasting within this distance? The above quote states "assuming a single hole delay" but table 1 on page 6 of the Blast Impact Assessment states the number of holes per delay for Pit 3 is listed at a max of 4. Will this increase in "delays" affect the impact of the blasts?
- 4. On page 14 of the Blast Impact Assessment it states that "The termination point for the blasting operations will be governed by the results of the on-site monitoring program." Will there be any monitoring of the residences off-site? Will there be any monitoring of the surrounding homes and residences that are built on the rock?

Planning Justification Questions:

1. In the Planning Justification Report on page 5 it states that the surrounding land uses are

"South: To the south is Highway 3 (Main Street) fronting onto the south side of Highway 3 are numerous rural land uses including farmland, non-farm rural residences, and light industrial uses (sales/servicing of farming machinery, kennel / pet grooming). Has the farm property and retail location at 1577 Highway 3 (called Fehrhaven Farms) been considered in the traffic assessment and decision to move the PCQ entrance to Carl road? With the Fehrhaven Farms sometimes seeing 100s of customers on busy days between the months of June – October we are wondering if this traffic was considered in the traffic study, and what the impact was on the farm operation. If the traffic assessment was done when our farm operation is not operational, the traffic from the business has the potential to cause issues with proposed travel from quarry operations.

Sincerely,

Jessie Fehrman