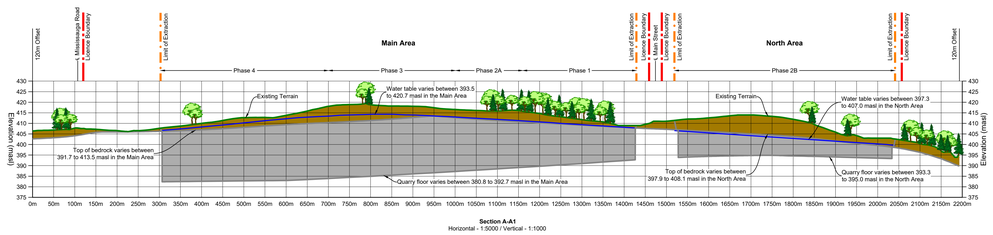
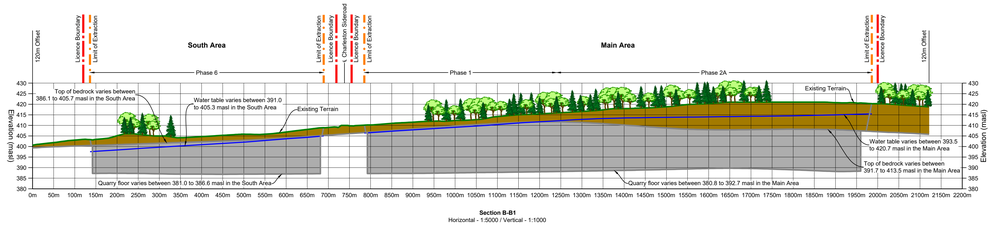
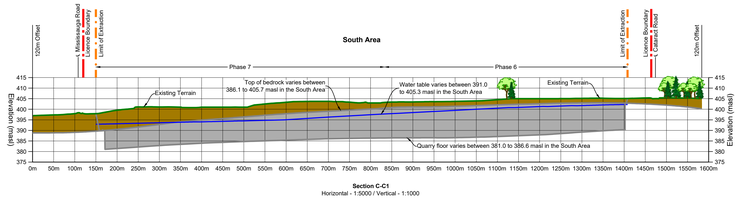


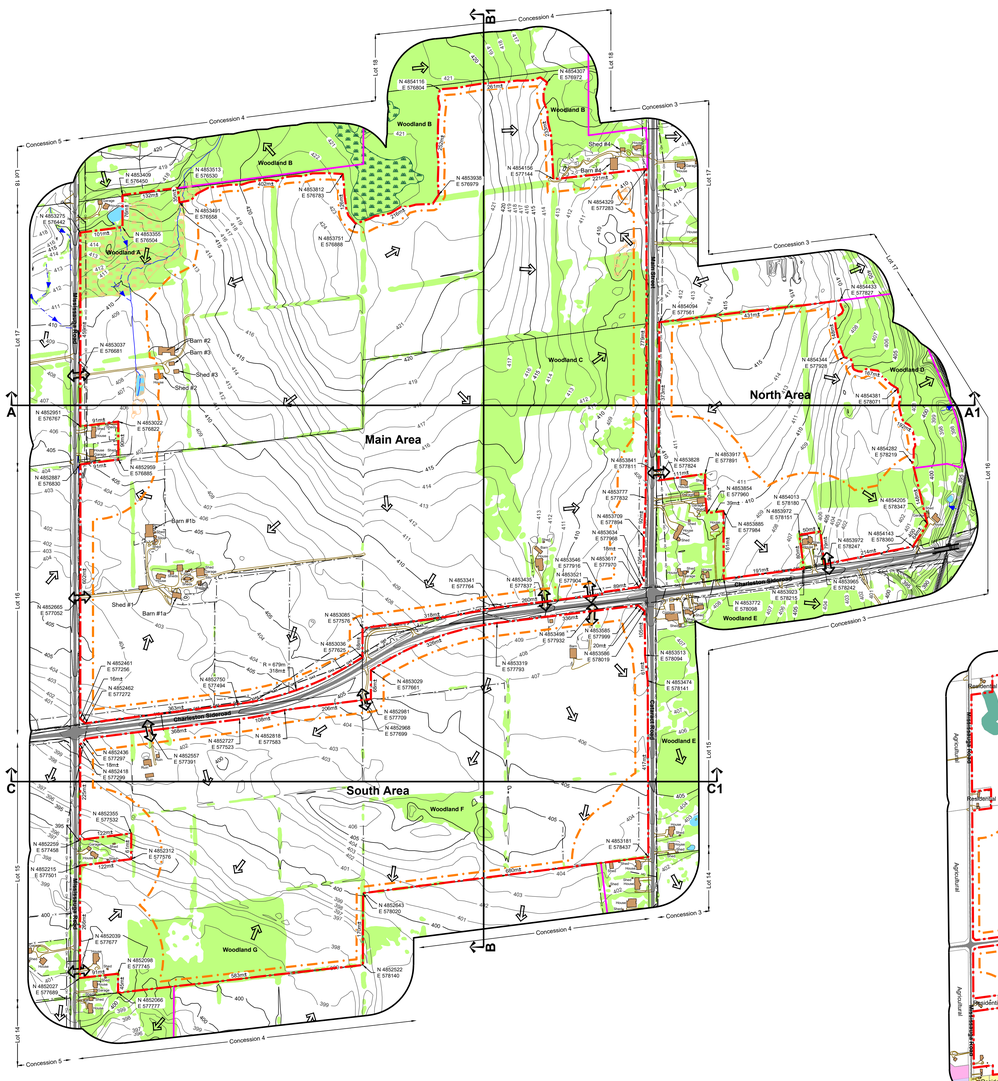
Section A-A1
Horizontal - 1:5000 / Vertical - 1:1000



Section B-B1
Horizontal - 1:5000 / Vertical - 1:1000



Section C-C1
Horizontal - 1:5000 / Vertical - 1:1000



A. General

1. This site plan is prepared under the Aggregate Resources Act for a Class 'A' licence for a pit and quarry below the ground water table.
2. Area Calculations:
   - 2.1. Licence (total) **262.0 hectares**
   - Main Area 152.3 hectares
   - North Area 30.3 hectares
   - South Area 79.4 hectares
2. Northing and easting coordinates have been provided for select corners of the licence boundaries and at the centre point of every entrance and exit that intersects the licence boundaries on the plan view of this drawing.

B. References

1. Contours were obtained from First Base Solutions and are displayed in one metre intervals. Elevations shown are in metres above sea level (MASL).
2. Topographic information was obtained from numerous sources including First Base Solutions, Land Information Ontario and field investigations for technical reports.
3. All topographic features and structures are shown to scale in Universal Transverse Mercator (UTM) with North American Datum 1983 (NAD83), Zone 17 (metre), Central Meridian 81 degrees west coordinate system.
4. The Main Area licence boundary was established based on a compiled plan of survey completed by Delphi & Jenkins North Limited, Ontario Land Surveyors, on February 14, 2022 which utilized the following information: Plan 43R-39683, 43R-24507, 43R-23355, 43R16517, 43R-17782, 43R-4021, 43R-21423, 43R-2743, and instruments RO1144974 and RO1014831. The North and South Area licence boundaries are based on the Municipal Property Assessment Corporation's parcel fabric.
5. Existing zoning on and within 120 metres of the licence boundaries are from the Town of Caledon Zoning By-law 2006-50, Schedule 'A', Zone Maps: 84 (last updated August 21, 2015), 74 (last updated March 24, 2016) and 75 (last updated August 21, 2015). The Main Area is currently zoned Agricultural Zone (A1) and Environmental Policy Area 2 Zone (EPA2) while the North and South Areas are currently zoned Agricultural Zone (A1).
6. Existing land use designations within 120 metres of the licence boundaries are from the Niagara Escarpment Plan - Map 4, dated June 1, 2017.
7. Land use information and structures identified on and within 120 metres of the licence boundaries were determined using aerial photography captured in the spring of 2021 from First Base Solutions.

C. Drainage

1. Surface drainage on and within 120 metres of the licence boundaries is by overland flow in the directions shown by arrows on the plan view, or by infiltration.

D. Groundwater

1. The maximum predicted groundwater table, based on groundwater levels monitored over a 12 month period from January to December 2021, are as follows:
   - 1.1. Main Area - Ranges from 420.7 to 393.5 masl (north to southwest)
   - 1.2. North Area - Ranges from 407.0 to 397.3 masl (northwest to southeast)
   - 1.3. South Area - Ranges from 405.3 to 391.0 masl (northeast to south)
2. The maximum predicted groundwater table elevations are shown in each cross section on drawing 1 of 3 and 3 of 3.

E. Site Access and Fencing

1. The Main Area has four existing access points (two on Mississauga Road and two on Charleston Sideroad), the North Area has two existing access points (one on Main Street and one on Charleston Sideroad), and the South Area has four existing access points (one on Mississauga Road and three on Charleston Sideroad). None of the existing access points are gated.
2. Post and wire fencing (unless noted otherwise) exists in the locations shown on the plan view.

F. Significant Natural and Human-Made Features on and Within 120 Metres

1. There is a pond and Ministry of Natural Resources and Forestry (MNRF) identified unevaluated wetlands within the Main Area licence boundary.
2. There is Significant Wildlife Habitat and habitat for endangered and threatened species within the Main and South Area licence boundary.
3. There are Significant Woodlands, Significant Wildlife Habitat, habitat for endangered and threatened species and MNRF identified evaluated wetlands (non-significant) outside of the licence boundaries within 120 metres.
4. See Key Natural Heritage Features Schematic on this drawing for additional information.

G. Aggregate Related Site Features

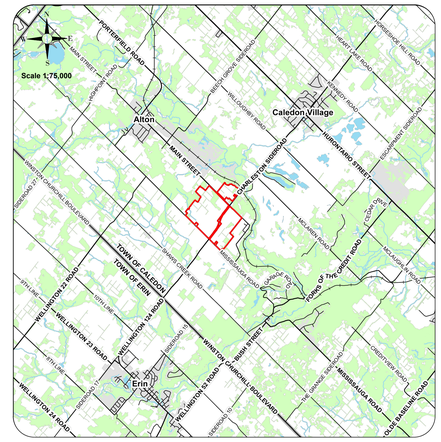
1. There are no existing aggregate operations or features on-site such as processing areas with stationary or portable equipment, stockpiles, recyclable materials, scrap, fuel storage, haul roads, berms or excavation faces.

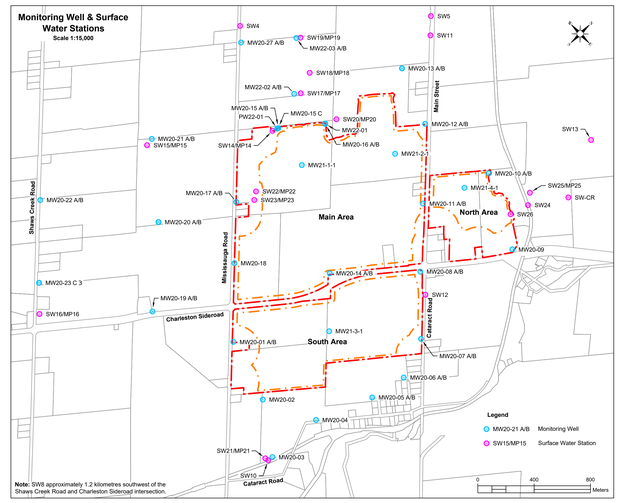
H. Cross Sections

1. Cross sections depicting existing conditions are shown on this drawing.
2. Cross sections depicting post rehabilitation conditions are shown on drawing 3 of 3.
3. Cross section locations are identified on the plan view of each drawing.

I. Technical Reports - References

1. Agricultural Impact Assessment, Colville Consulting Inc., December 16, 2022.
2. Stage 1 and 2 Archaeological Assessment, Golder Associates Ltd., November 14, 2022.
3. Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment, Golder Associates Ltd., December 16, 2022.
4. Air Quality Impact Assessment, Golder Associates Ltd., December 16, 2022.
5. Noise Report, Golder Associates Ltd., December 16, 2022.
6. Blast Impact Assessment, Golder Associates Ltd., December 16, 2022.
7. Natural Environment Report, Golder Associates Ltd., December 16, 2022.
8. Water Resources Report, Golder Associates Ltd., December 16, 2022.
9. Visual Impact Assessment Report, Golder Associates Ltd., December 16, 2022.
10. Planning Justification Report and Aggregate Resources Act Summary Statement, GSAI and MHBC, December 16, 2022.





Note: SW8 approximately 1.2 kilometres southwest of the Shaws Creek Road and Charleston Sideroad intersection.

Table 1 Notes:

1. Groundwater level to be monitored by logger set to record on 15-min intervals, with quarterly logger downloads and quarterly manual measurements.
2. Surface water level and temperature to be monitored by logger set to record on 15-min intervals, with quarterly logger downloads and quarterly manual measurements.
3. Water discharge from the Settling Pond to be monitored as per requirements to be approved by the MECP based on the Permit to Take Water and Environmental Compliance Approval to be obtained by the Applicant prior to the initiation of any off-site discharge.
4. These wells only need to be monitored until they are required to be decommissioned in accordance with MECP requirements to allow for on-site operations

Table 2 Notes:

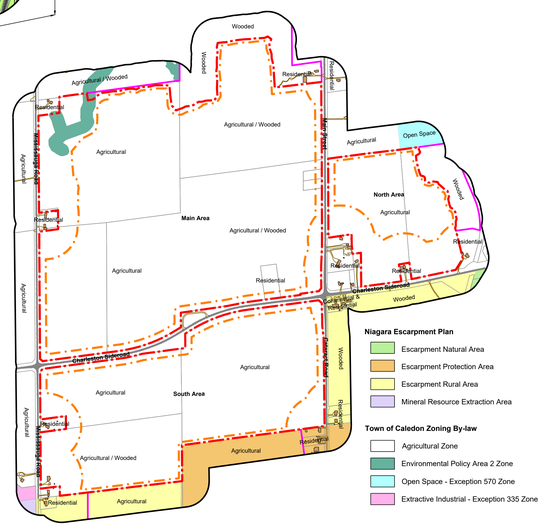
1. Groundwater level to be monitored by logger set to record on 15-min intervals, with quarterly logger downloads and quarterly manual measurements.
2. Surface water level and temperature to be monitored by logger set to record on 15-min intervals, with quarterly logger downloads and quarterly manual measurements.
3. Located on lands owned or controlled by the licensee or where the licensee has an agreement in place for long-term monitoring.
4. Located on public lands and monitoring to be completed subject to permission by the applicable public authority.
5. Water quality to be sampled and monitored in the Credit River 2x / year (April and September) for: Hardness (CaCO3), General Chemistry (i.e., pH, temperature, conductivity, dissolved oxygen, turbidity), Total Ammonia-N, Total Phosphorus, Alkalinity (Total as CaCO3), Dissolved Chloride (Cl-), Nitrite (N), Nitrate (N), Nitrate + Nitrite (N), Total Kjeldahl Nitrogen (TKN), Total Suspended Solids, Total Oil & Grease, Total Metals.

Table 1: On-Site Groundwater and Surface Water Monitoring Program

Name	Type	Northing	Easting	Monitoring Scope
MW20-01 A/B	Mon Well	4852268	577459	Water level [1]
MW20-07 A/B	Mon Well	4853250	578360	Water level [1]
MW20-08 A/B	Mon Well	4853575	578010	Water level [1]
MW20-09	Mon Well	4854157	578344	Water level [1]
MW20-10 A/B	Mon Well	4854407	577838	Water level [1]
MW20-11 A/B	Mon Well	4853921	577672	Water level [1]
MW20-12 A/B	Mon Well	4854321	577272	Water level [1]
MW20-14 A/B	Mon Well	4853100	577576	Water level [1]
MW20-15 A/B	Mon Well	4853544	576577	Water level [1]
MW20-15 C	Mon Well	4853544	576577	Water level [1]
MW20-16 A/B	Mon Well	4853807	576785	Water level [1]
MW20-17 A/B	Mon Well	4852966	576752	Water level [1]
MW20-18	Mon Well	4852659	577058	Water level [1]
MW21-1-1	Mon Well	4853485	576682	Water level [1,4]
MW21-2-1	Mon Well	4854021	577279	Water level [1,4]
MW21-3-1	Mon Well	4852814	577872	Water level [1,4]
MW21-4-1	Mon Well	4854211	577793	Water level [1,4]
MW22-01	Mon Well	4853808	576782	Water level [1]
MW22-02 A/B	Mon Well	4853794	576476	Water level [1]
MW22-03 A/B	Mon Well	4854078	576201	Water level [1]
PW22-01	Mon Well	4853535	576574	Water level [1]
SW14/MP14	SW/MP	4855098	578165	Water level & temperature [2]
SW22/MP22	SW/MP	4853125	576800	Water level & temperature [2]
SW23/MP23	SW/MP	4853050	576840	Water level & temperature [2]
SW26	SW	4854320	578155	TBD by MECP PTTW & ECA Approvals [3]

Table 2: Off-Site Groundwater and Surface Water Monitoring Program

Name	Type	Northing	Easting	Monitoring Scope
MW20-02	Mon Well	4852136	577900	Water level [1,2]
MW20-03	Mon Well	4851907	578244	Water level [1,3]
MW20-04	Mon Well	4852313	578265	Water level [1,3]
MW20-05 A/B	Mon Well	4852713	578423	Water level [1,3]
MW20-06 A/B	Mon Well	4852973	578474	Water level [1,3]
MW20-13 A/B	Mon Well	4854473	576873	Water level [1,3]
MW20-13 C	Mon Well	4854473	576873	Water level [1,3]
MW20-19 A/B	Mon Well	4852000	576907	Water level [1,3]
MW20-20 A/B	Mon Well	4852468	576476	Water level [1,3]
MW20-20 C	Mon Well	4852468	576476	Water level [1,3]
MW20-21 A/B	Mon Well	4852840	576014	Water level [1,3]
MW20-22 A/B	Mon Well	4851996	575785	Water level [1,3]
MW20-23 A/B	Mon Well	4851556	576206	Water level [1,3]
MW20-23 C	Mon Well	4851556	576206	Water level [1,3]
MW20-27 A/B	Mon Well	4853770	575954	Water level [1,3]
SW4	SW	4852963	574760	Water level and temperature [2,4]
SW5	SW	4853846	575863	Water level and temperature [2,4]
SW8	SW	4851688	576054	Water level and temperature [2,4]
SW10	SW	4850628	579129	Water level and temperature [2,4]
SW11	SW	4851869	578238	Water level and temperature [2,4]
SW12	SW	4854781	576842	Water level and temperature [2,4]
SW13	SW	4853488	578153	Water level and temperature [2,4]
SW15/MP15	SW/MP	4853501	576562	Water level and temperature [2,5]
SW16/MP16	SW/MP	4852785	576024	Water level and temperature [2,5]
SW17/MP17	SW/MP	4853803	576488	Water level and temperature [2,5]
SW18/MP18	SW/MP	4853993	576396	Water level and temperature [2,5]
SW19/MP19	SW/MP	4854106	576226	Water level and temperature [2,5]
SW20/MP20	SW/MP	4853890	576819	Water level and temperature [2,5]
SW21/MP21	SW/MP	4851865	578215	Water level and temperature [2,5]
SW24	SW	4854455	578193	Water level and temperature [2,4]
SW25/MP25	SW/MP	4854525	578138	Water level and temperature [2,4]
SW-CR	SW	4854700	578350	Water quality [4,5]



Legal Description

Part of Lots 15-18, Concession 4 WSCR and Part of Lot 16, Concession 3 WSCR
(former geographic Township of Caledon)
Township of Caledon
Region of Peel

Legend

- Licence Boundary
- Limit of Extraction
- Contours with Elevation — Metres above sea level (MASL)
- Public Road
- Driveway
- Railway
- Watercourse — Permanent (Direction of flow indicated by arrows)
- Watercourse — Intermittent (Direction of flow indicated by arrows)
- Water Feature
- Wooded Area
- Wetland — MNRF Evaluated - Other
- Wetland — MNRF - Unevaluated
- Additional Land Owned by Licensee
- 120m Offset From Draft Licence Boundaries
- Lots and Concessions
- Parcel Fabric
- Overhead Hydro
- Pipeline — Enbridge Gas Inc.
- Fence — 1.2 m post & wire fence unless otherwise noted
- Entrance / Exit
- Direction of Surface Drainage
- Building/Structure
- Cross Sections

TOWN OF CALEDON
PLANNING
RECEIVED
December 16, 2022

Legend - Cross Sections

- Licence Boundary
- Limit of Extraction
- Existing Grade
- Maximum Predicted Water Table
- Maximum Depth of Excavation
- Topsoil and/or Overburden
- Aggregate Available for Extraction

Site Plan Acronyms

1. ARA - Aggregate Resources Act
2. MECP - Ministry of the Environment, Conservation and Parks
3. MGCS - Ministry of Government and Consumer Services
4. DFO - Department of Fisheries and Oceans Canada
5. MNRF - Ministry of Natural Resources and Forestry
6. TSSA - Technical Standards and Safety Authority
7. MTCS - Ministry of Tourism, Culture and Sport
8. ECA - Environmental Compliance Approval
9. BMPP - Best Management Practices Plan
10. WWIS - Water Well Information System
11. HIA - Heritage Impact Assessment
12. CVC - Credit Valley Conservation
13. MASL - Metres above sea level
14. PTTW - Permit to Take Water
15. NTS - Not to Scale

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licencing)

No.	Date	Description	By

MHBC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
113 COLLIER STREET, BARRIE, ON, L4M 1H2 | P: 705.728.0045 F: 705.728.2010 | WWW.MHBCPLAN.COM

MHBC Stamp
Brian Zeman
Is authorized by the Ministry of Northern Development, Mines, Natural Resources and Forestry pursuant to Subsection 0.2(3)(e) of Ontario Regulation 244/97 to prepare and certify site plans.

MHBC Stamp
Christopher Poole
Is authorized by the Ministry of Northern Development, Mines, Natural Resources and Forestry pursuant to Subsection 0.2(3)(f) of Ontario Regulation 244/97 to prepare and certify site plans.

Applicant
Votorantim Cimentos (CBM Aggregates)
55 Industrial Street
Toronto, Ontario
M4G 3W9

Project
Caledon Pit & Quarry
18722 Main Street, Caledon, Ontario

MNRF Licence Reference No.

Applicant's Signature

Plan Scale: 1:5000 (Arch E)

Date	December 2022
Drawn By	C.P.
Checked By	B.Z.
File No.	8816AF

File Name
Existing Features

Drawing No.
1 of 3

File Path C:\Users\cpoole\Desktop\8816AF\Drawings\Site Plan\CAD\8816AF - Site Plan.dwg