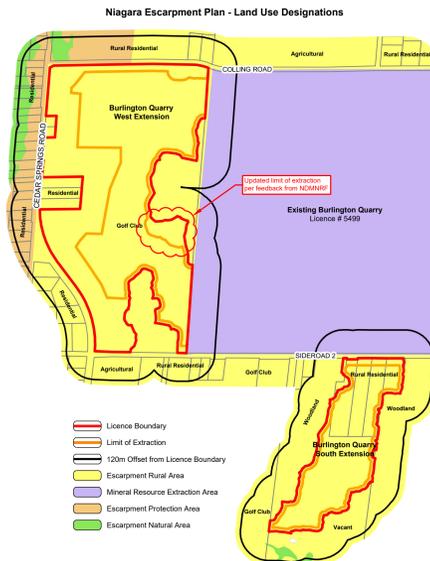
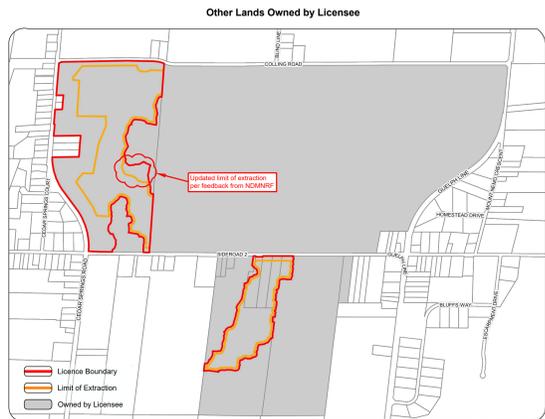


- A. General**
- This site plan is prepared under the Aggregate Resources Act (ARA) for a Class 'A' Licence, Category 2.
 - Area Calculations:

L. Licence Area (total)	76.9 ha
• South Extension	18.1 ha
• West Extension	58.8 ha
- B. References**
- Contours were obtained from the City of Burlington's Open Data Catalogue based on 2017 data and are displayed in one metre intervals. Elevations shown are in metres above sea level (masl).
 - Topographic information was obtained from numerous sources including Ontario Geospatial (Land Information Ontario), City of Burlington's Open Data Catalogue, Google Earth Pro aerial photography captured on May 7, 2018 and test investigations for technical reports.
 - All topographic features and structures are shown to scale in Universal Transverse Mercator (UTM) with North American Datum 1983 (NAD83), Zone 17 (metres), Central Meridian 81 degrees west coordinate system.
 - The licence boundaries were established using Municipal Property Assessment Corporation (MPAC) parcel fabric data. Distances are approximate and for reference purposes only.
 - Land use designations on and within 120 metres of the licences are from the Niagara Escarpment Plan, Map 3 - Regional Municipality of Halton, approved June 1, 2017. The Burlington Quarry Extension lands are designated Escarpment Rural Area.
 - Land use information and structures identified on or within 120 metres of the licence boundaries were determined using Google Earth Pro aerial photography captured on May 7, 2018.
- C. Drainage**
- Surface drainage on and within 120 metres of the licence boundaries are by overland flow in the directions shown by arrows on the plan view, or by infiltration.
- D. Groundwater**
- The established groundwater table varies between 264 masl to 273 masl in the South Extension and 263 masl to 265 masl in the West Extension (EarthFX 2020).
- E. Site Access and Fencing**
- There are four existing site accesses on Side Road No. 2 and a single existing site access on Cedar Springs Road.
 - Post and wire fencing (unless noted otherwise) exists in the locations shown on the plan view.
- F. Aggregate Related Site Features**
- There are no existing aggregate operations or features on either Extension such as internal haul roads, processing stockpiles, scrap, fuel storage, berms or excavation faces.
- G. Cross Sections**
- See drawing 4 of 4.
- H. Technical Reports - References**
- Adaptive Management Plan, Proposed Burlington Quarry Extension, EarthFX Inc., Savanta, and Tatham Engineering, April 2020 March 2022.
 - Agricultural Impact Assessment, Nelson Aggregate Co. Burlington Quarry Extension, April 2020.
 - Air Quality Study for Nelson Aggregate Co., Burlington Quarry Extension, BCX Environmental Consulting, March 2020.
 - Archaeological Assessment (Stages 1, 2 & 3), Nelson Aggregate Quarry Extension, Archaeologic Inc., August 2003.
 - Archaeological Assessment (Stage 4), Nelson Aggregate Quarry Extension, Archaeologic Inc., August 2004.
 - Stage 1-2 Archaeological Assessment, Proposed West Extension of the Burlington Quarry, Golder Associates, September 2020.
 - Blast Impact Analysis, Burlington Quarry Extension, Ecliptech Engineering Ltd. June 16, 2021.
 - Cultural Heritage Impact Assessment Report, Burlington Quarry Extension, MacNaughton Hermsen Britton Clarkson Planning Limited (MHBC), June 2021.
 - Financial Impact Study, Proposed Burlington Quarry Extension, Nelson Aggregate Co., September 30, 2021.
 - Level 1 and 2 Hydrogeological and Hydrological Impact Assessment Report, Proposed Burlington Quarry Extension, EarthFX Incorporated, April 2020.
 - Level 1 and 2 Natural Environment Technical Report, Proposed Burlington Quarry Extension, Savanta, April 2020.
 - Noise Impact Assessment, Nelson Aggregate Quarry Extension, Howe Gastmeier Chapkin Limited, November 15, 2021.
 - Nelson Aggregate Company, Burlington Quarry Extension Traffic Report, Paradigm Transportation Solutions Limited, February 2020.
 - Surface Water Assessment, Burlington Quarry Extension, Tatham Engineering, April 2020.
 - Visual Impact Assessment Report, Proposed Extension of the Burlington Quarry, MacNaughton Hermsen Britton Clarkson Planning Limited (MHBC), June 2021.
 - Safety Review of the Proposed Access Plan for a Proposed Quarry Extension, True North Safety Group, June 2021.



Legal Description
Part Lot 1 & 2, Concession 2 and Part Lot 17 & 18, Concession 2 NDS
(former geographic Township of Nelson)
City of Burlington
Region of Halton

- Legend**
- Licence Boundary
 - Limit of Extraction
 - Contours with Elevation
 - Public Road
 - Fence
 - Water Feature
 - Irrigation Pond
 - Significant Woodlands
 - Woodlands
 - Wooded Feature
 - Wetland
 - Wetland
 - Wetland
 - Wetland
 - Wetland
 - 120m Offset From Licence Boundary
 - Existing Licence
 - Parcel Fabric
 - Diversion or Discharge Pipe
 - Discharge Location
 - Jefferson Salamander Regulatory Boundary
 - Fish Habitat
 - Sun-Canadian Pipe Line
 - Entrance / Exit
 - Direction of Surface Drainage
 - Building/Structure
 - Cross Sections
 - ANSI - Earth Science
 - ANSI - Life Science

- Significant Wildlife Habitat**
- Amphibian Breeding (Woodland)
 - Bat Maternity Colony
 - Turtle Wintering Area
 - Rare Vegetation Community
- Species of Conservation Concern**
- Unicorn Clubtail
 - Eastern Wood-pewee
 - Large Toothwort Community

- Species at Risk**
- Butternut Category 1
 - Butternut Category 2
 - Bat Habitat
 - Bobolink
 - Barn Swallow Nest Observation

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licensing)

No.	Date	Description	By
1	September 2020	Update date of Archaeological Assessment Report in Section H.	CAP
2	April 2021	Included MNRF setbacks for South Extension. Added Significant Wildlife Habitat, Species of Conservation Concern and Species at Risk. Update legend.	CAP
3	January 2022	Updated to address agency comments.	CAP
4	February 2022	Updated to address agency comments.	CAP
5	March 2022	Updated limit of extraction in the West Extension. Added drifeline and setback dimensions from the drifeline to the plan view. Revised note 1.1.	CAP

MHBC
PLANNING
URBAN DESIGN
& LANDSCAPE
ARCHITECTURE
113 COLUER STREET, BARRE, ON, L4W 1H2 | P: 705.728.0045 F: 705.728.2010 | WWW.MHBCPLAN.COM

MNRF Approval Stamp | MHBC Stamp

DRAFT

Applicant: **NELSON AGGREGATE CO.**
2433 No. 2 Street
P.O. Box 1077 Burlington Ont. L7R 4L8
phone: (905) 335-5250

Project: **Burlington Quarry Extension**

MNRF Licence Reference No. 626477 | Pre-approval review: **March 2022**

Plan Scale: 1:3000 (Arch E) | Date: **March 2022**

0 100 200 Meters | Drawn By: C.P. | File No.: **9135D**

Checked By: B.Z.

File Name: **Existing Features**

Drawing No.: **1 of 4**

File Path: N:\Burlington\155D-Nelson - Project Sideways\Drawings\ARA Site Plans\Extension Site Plan\CAD\9135D - Site Plan.dwg

A. General

- 1. Area Calculations: Licence Area (total) 76.9 ha, South Extension 18.1 ha, West Extension 58.8 ha... 2. The maximum annual storage is 2,000,000 L... 3. The existing golf course use in the West Extension may continue to operate until site preparation for that Extension commences.

B. Hours of Operation

- 1. Hours of operation are Monday to Friday from 7:00am to 6:00pm excluding statutory holidays... 2. Blasting is permitted Monday to Friday between 8:00am to 6:00pm excluding statutory holidays... 3. The license shall implement all or quality recommendations outlined in Section N. Report Recommendations.

C. Site Access and Fencing

- 1. Prior to extraction within the South or West Extension, post and wire fencing (at least 1.2 metres in height) shall be erected and maintained... 2. The maximum annual storage is 2,000,000 L... 3. The license shall implement all or quality recommendations outlined in Section N. Report Recommendations.

D. Drainage and Erosion Control

- 1. Drainage of undisturbed areas will continue in the directions shown on drawing 1 of 4... 2. Prior to site preparation, an Erosion and Sedimentation Control (ESC) Plan shall be prepared and implemented to prevent erosion... 3. Prior to extraction in the West Extension, the infiltration pond located in the west setback including the downwash/diversion pipe and storm drain shall be constructed.

E. Site Preparation

- 1. All existing structures within the South Extension (including the house and barn located at 2280 Side Road No. 2) and West Extension (including the house and barn located at 2270 Side Road No. 2) shall be demolished prior to extraction... 2. No new buildings are proposed for either Extension... 3. Timber resources (if any) will be salvaged for use as saw logs, fence posts and fuel wood where appropriate.

F. Berms and Screening

- 1. Acoustic and visual berms shall be constructed to the heights or elevations specified in the locations shown on the plan view... 2. Berms adjacent to any natural heritage features shall be constructed in accordance with Section N. Report Recommendations... 3. Berms in the West Extension shall be constructed prior to extraction in that extension.

G. Site Driveway

- 1. During the initial stages of extraction within the South Extension, a temporary setting pond will be constructed within the extraction area (G-1)...

H. Extraction Sequence

- 1. General: Prior to site preparation in each phase, ensure all requirements contained in Sections C through G are met... 2. Phase 1: Prepare Phase 1 (South Extension) for extraction and ensure all requirements pertaining to this Extension in Sections C through G are met... 3. Phase 2: Prepare Phase 2 in accordance with the Site Preparation notes (see Section E) and Agricultural Rehabilitation notes (see Section N.9) in sequence as extraction progresses in a southerly direction.

I. Water Resources

- 1. Based on current approvals for the existing quarry, the flow discharged during both locations will increase once extraction is complete, which would have a negative impact on the water and associated fish habitat in these watercourses (Swinville, 2020)...

J. Equipment and Processing

- 1. Equipment used for site preparation, extraction, pond construction, and site rehabilitation includes drills, front-end loaders, graders, bulldozers, backhoes, conveyors, water trucks, fuel trucks and haul trucks... 2. Fuel trucks will be used to transfer fuel to on-site equipment in accordance with the Liquid Fuels Handling Code... 3. A Spills Contingency Program will be developed prior to site preparation.

K. Fuel Storage

- 1. No fuel shall be stored in the South or West Extension... 2. Fuel trucks will be used to transfer fuel to on-site equipment in accordance with the Liquid Fuels Handling Code... 3. A Spills Contingency Program will be developed prior to site preparation.

L. Dust

- 1. Dust shall be mitigated on-site... 2. Water or another provisionally approved dust suppressant shall be applied to haul roads as often as required to mitigate dust... 3. The license shall implement all or quality recommendations outlined in Section N. Report Recommendations.

M. Scrap and Recycling

- 1. No scrap shall be stored in the South or West Extension... 2. No recycling shall occur in the South or West Extension.

N. Report Recommendations

- 1. All quarry shall implement their Best Management Practices Plan (BMPP) for the Control of Fugitive Dust dated March 2020... 2. The Licensee shall construct the acoustic berms as shown on the operational plan. See Section F for additional detail.

O. Variations from Provincial Standards

- 1. The West Extension discharge location in the West Arm of the West Branch shall be installed between July 16 and March 14 to prevent disturbance to fish and fish habitat... 2. The license shall implement all or quality recommendations outlined in Section N. Report Recommendations.

P. Tree Protection Zone Detail

- 1. The Tree Protection Zone (TPZ) for woodlands extends the length of the woodland edge... 2. Prior to site preparation in the South and West Extension, their fencing shall be erected along the license boundary... 3. Fencing material shall consist of orange plastic with snow fencing and/or pipe wire fencing in a 2:1 ratio.

Q. Typical Acoustic & Visual Berm

- 1. The berm shall be a minimum of 1.2m in height above grade... 2. The berm shall be a minimum of 1.2m in height above grade... 3. The berm shall be a minimum of 1.2m in height above grade.

R. Typical Acoustic & Visual Berm

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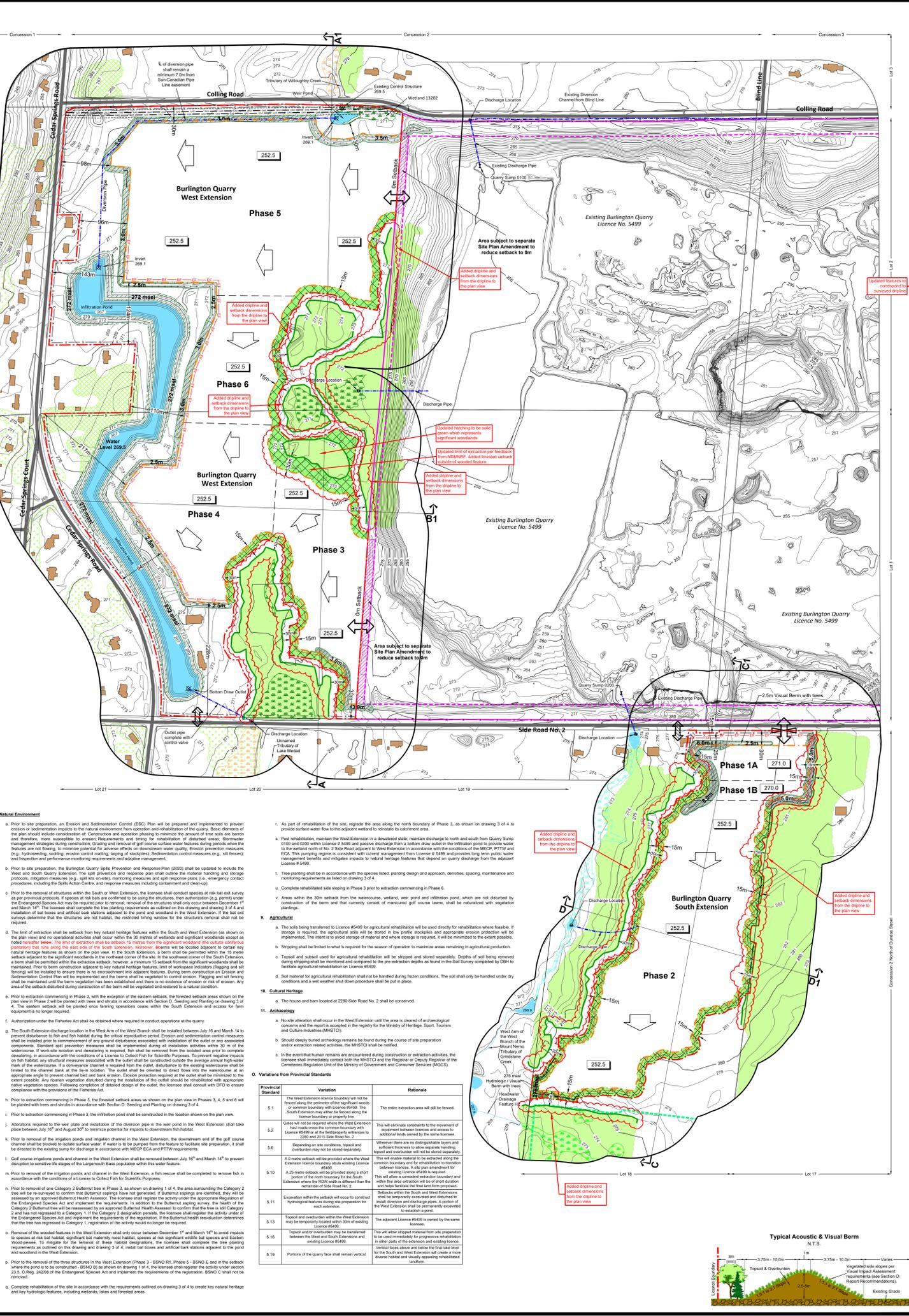
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Legend

- Licence Boundary: Red dashed line
Limit of Extraction: Blue dashed line
Contours with Elevation: Brown lines
Public Road: Grey line
Fence: Black line
Exclusion Fence: Red dashed line
Water Feature: Blue area
Significant Woodlands: Green area
Woodlands: Light green area
Wooded Feature: Dark green area
Wetland: Yellow-green area
Wetland: Green area
Wetland: Light green area
Wetland: Yellow-green area
Forested Setbacks: Green area
120m Offset From Licence Boundary: Red dashed line
Existing Licence: Yellow area
Parcel Fabric: Grey area
Diversion or Discharge Pipe: Blue line
Discharge Location: Blue area
Jefferson Salamander Regulatory Boundary: Red dashed line
Sun-Canadian Pipe Line: Blue line
Entrance / Exit: Black line
Gate: Black line
General Direction of Excavation & Boundary: Red dashed line
Berm - Acoustic: Green area
Berm - Hydrologic: Blue area
Berm - Visual: Yellow area
Building/Structure: Brown area
Quarry Floor: Grey area
Cross Sections: A1



- 1. The Tree Protection Zone (TPZ) for woodlands extends the length of the woodland edge... 2. Prior to site preparation in the South and West Extension, their fencing shall be erected along the license boundary... 3. Fencing material shall consist of orange plastic with snow fencing and/or pipe wire fencing in a 2:1 ratio.

Site Plan Amendments

Table with columns: No., Date, Description, By

Site Plan Revisions (Pre-Licensing)

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MHBC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE logo and contact information.

MNRF Approval Stamp

MHBC Stamp logo.

DRAFT

NELSON AGGREGATE CO.

Project Burlington Quarry Extension

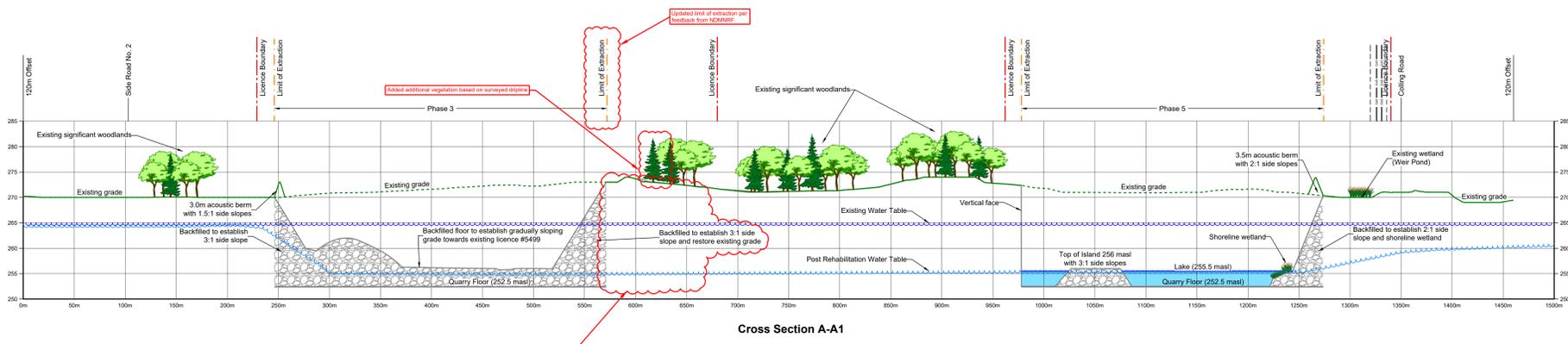
MNRF Licence Reference No. 626477, Pre-approval review: CAP

Plan Scale: 1:3000 (A3/E), Date: March 2022

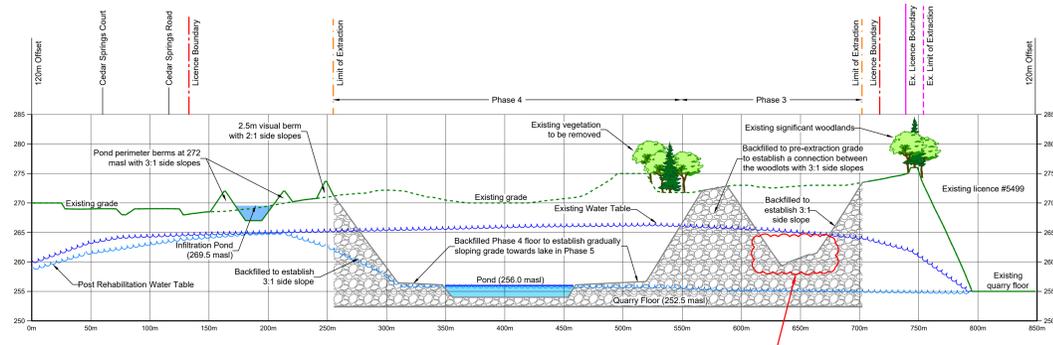
Drawn By: C.P., Checked By: B.Z., File No: 9135D

Operational Plan

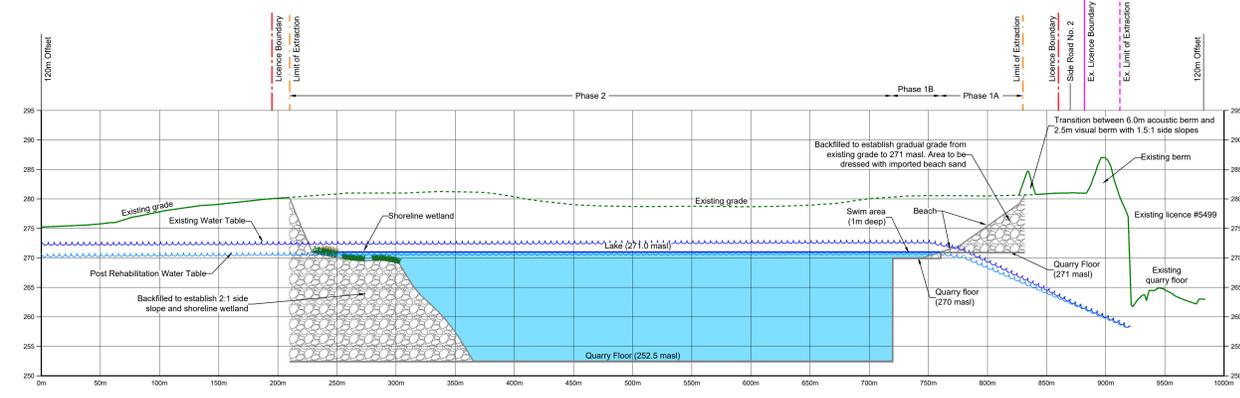
- Legend**
-  Licence Boundary
 -  Limit of Extraction
 -  Existing Licence
 -  Existing Limit of Extraction
 -  120m Offset From Licence Boundary
 -  Existing Grade - Removed / Altered
 -  Existing Grade - Undisturbed
 -  Quarry Floor / Face
 -  Berm
 -  Existing Water Table
 -  Post Rehabilitation Water Table
 -  Backfilled
 -  Lake or Pond



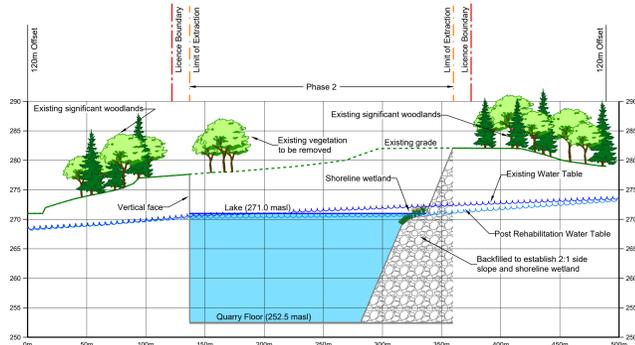
Revised final quarry floor berm on adjusted limit of extraction



Revised final quarry floor berm on adjusted limit of extraction

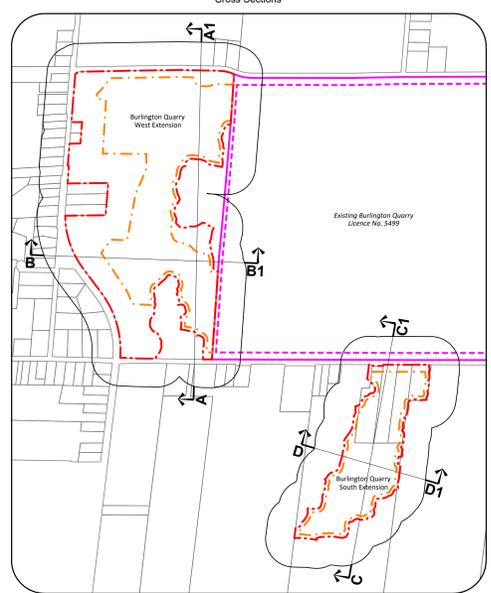


Cross Section C-C1



Cross Section D-D1

Key Map
Cross Sections



Site Plan Amendments

No.	Date	Description	By
1.	April 2021	Added additional cross section labels for clarity.	CAP
2.	January 2022	Updated to address agency comments.	CAP
3.	February 2022	Updated drawings 1, 2 and 3 of 4 to address agency comments.	CAP
4.	March 2022	Updated limit of extraction in the West Extension. Added outline to the Existing Features and Operational Plan.	CAP

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MNRF Approval Stamp MHBC Stamp

DRAFT

Applicant

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Project **Burlington Quarry Extension**

MNRF Licence Reference No. 626477	Pre-approval review:
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Plan Scale: Horizontal 1:2000 Vertical 1:400	Date March 2022	Drawn By C.P.	File No. 9135D
	Checked By B.Z.		

File Name **Cross Sections**

Drawing No. **4 of 4**