



Legal Description
 Part of Lot 7
 Concession 2
 (former Geographic Township of Nassagaweya)
 Town of Milton
 Regional Municipality of Halton

- Legend**
- Boundary of Area to be Licensed
 - Additional Lands Owned by Applicant
 - Elevation, Contour
METRES ABOVE SEA LEVEL
 - Access Points
 - Existing Vegetation
APPROXIMATE LOCATION
 - Wetlands
FROM NATURAL ENVIRONMENT REPORT (JUNE 2018)
 - Provincially Significant Wetlands
FROM LIO AND ADJUSTED TO REFLECT ELC BOUNDARIES ON FIGURE 11 IN THE NATURAL ENVIRONMENT REPORT
 - Ponds and Other Wetlands
FROM BASE MAPPING AND ELC BOUNDARIES ON FIGURE 11 IN THE NATURAL ENVIRONMENT REPORT
 - Cross Sections
SEE PAGE 6 FOR EXISTING/REHABILITATED CROSS SECTIONS
 - Limit of Extraction
ALL SETBACKS ARE DRAWN TO SCALE AND SHOW LABELED DISTANCES
 - Proposed Contour
METRES ABOVE SEA LEVEL
 - Proposed Elevation
REHABILITATED ELEVATION
 - Post Extraction Pond
 - Tree Planting Area
 - Vertical Face
 - Shallow Littoral Area
SEE ALSO NATURAL ENVIRONMENT REPORT (JUNE 2018)
 - Amphibian Pond
SEE ALSO NATURAL ENVIRONMENT REPORT (JUNE 2018)
 - Turtle Nesting Area
CONCEPTUALLY SHOWN
SEE ALSO NATURAL ENVIRONMENT REPORT (JUNE 2018)
 - Osprey Nesting Platform
CONCEPTUALLY SHOWN
SEE ALSO NATURAL ENVIRONMENT REPORT (JUNE 2018)

Site Plan Amendments

No.	Date	Description	By

PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
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MNRF Approval Stamp

Applicant

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Greg Sweetnam
 Greg Sweetnam
 James Dick Construction Limited (JDCL)
 Executive Vice-President

Project **Reid Road Reservoir Quarry**
 Part of Lot 7, Concession 2
 (former Geographic Township of Nassagaweya)
 Town of Milton, Regional Municipality of Halton

MNRF Licence Reference No.	Pre-approval review: For submittal to MNRF - Jun. 27, 2018 ARA Complete - Jul. 16, 2018 Revs. per MNRF and MOECP comments - Jan. 31, 2019 Revs. per MNRF comments - Jun. 17, 2019 Revs. per Agency review comments and Addendum Reports - November 2020
Plan Scale 1:2500 (Arch D)	Plot Scale 1:2.5 [1mm = 2.5 units] MODEL
SCALE 50 0 METRES 50 100	Drawn By D.S. File No. 9633L Checked By J.P.

File Name **REHABILITATION PLAN**
 Drawing No. **5 OF 6**

Rehabilitation Notes
 NUMBERING SCHEME USED FOR REHABILITATION NOTES REFERS TO AGGREGATE RESOURCES ACT PROVINCIAL STANDARDS FOR A CLASS 'A' CATEGORY 2 LICENCE APPLICATION.

Sequence and Direction
 1.3.1 Progressive and final rehabilitation will be completed in direct correlation to the development of the quarry as the extraction limits are reached and enough area is available to ensure that rehabilitation activities will not interfere with the production, stockpiling and processing of aggregate materials. Progressive rehabilitation will commence in Phase 1 and will work through the subsequent phases as extraction is being completed. The sequence is further described in the Phase notes on page 2.

Topsoil and Overburden
 1.3.2 Where still existing on the site, all topsoil and overburden stripped in the operation will be used in the rehabilitation of the site. Topsoil will be used in the progressive rehabilitation of the above water extraction areas in Phases 1 and 2. These areas will be covered with a minimum 150mm of topsoil/organic matter. Adequate vegetation will be established and maintained to control erosion of any topsoil or overburden replaced on the site for rehabilitation purposes.

Proposed Vegetation
 1.3.3 & 1.4.3 The rehabilitated area will be planted with native woodland and meadow species positioned in ecologically strategic locations in the above water extraction areas in Phases 1 and 2 (See detailed planting specifications on Page 3). In addition, wild rice will be planted in the shallow littoral areas and/or other suitable locations. All ground covers on overburden piles and side slopes will be established as part of the phased stripping operations that precede extraction and will be maintained and replaced should it fail to establish itself or control erosion.

Environmental Enhancement Measures
 The Environmental Enhancement Measures as outlined on Page 3 will be implemented as required, during/pre operations and as part of progressive and final rehabilitation. Subsequent to the completion of rehabilitation work in each phase of quarry operation all ecological enhancements will be annually monitored to assess their effectiveness, survival and health. Physical habitat improvements will be repaired if needed and replanting will be carried out during the next planting season if tree seedling survival falls below 80% or groundcover germination is unsatisfactory, leaving large patches of bare ground.

Slope Creation & Rehabilitated Landform
 1.3.4 & 1.4.2 Rehabilitation of this site involves the creation of four ponds in the areas previously subject to sand and gravel extraction as well as ±4.5 ha. of terrestrial landform comprised of above water extraction areas and setback areas. Final quarry landform will be generally in accordance with the drawing as shown on this page. The four ponds will consist of 2:1 shoreline slopes coinciding with the blasting setback and, vertical faces in Phase 1, and the creation of shallow littoral areas. The objective is to integrate the existing shoreline areas, with vertical faces, backfilled side slope areas and ponds with shallow shorelines. Also see note 1.2.28 D "Natural Environment" page 3 for ecological enhancement features to be created as part of rehabilitation.

Progressive Rehabilitation
 1.3.5 Progressive rehabilitation shall follow the "Sequence of Operations" diagram and notes on page 2. Progressive and final rehabilitation will be completed in direct correlation to the development of the quarry as the extraction limits are reached and enough area is available to ensure that rehabilitation activities will not interfere with the production, stockpiling and processing of aggregate materials.

Importation of Fill
 1.3.6 & 1.4.1 All remaining topsoil and overburden on the site that is stripped in the operation of the site will be used in the rehabilitation of the site. Where insufficient quantities of native topsoil and/or overburden are available for rehabilitation, clean, inert topsoil, earth, and rock may be imported for use in the establishment of the final rehabilitation grades outlined in this plan. Clean, inert concrete and brick may also be imported and utilized to establish the base of slopes that will be covered with overburden and topsoil. It is the responsibility of the licensee to ensure that all materials imported for rehabilitation meet the requirements of the Ministry of the Environment for the rehabilitation of aggregate operations and follow the MNRF Aurora District MNRF Fill Acceptance Protocol or similar approved MOECP protocol. Documentation with respect to the source, quantify and quality of imported materials will be retained by the licensee and made available upon request by the Ministry of Natural Resources and Ministry of the Environment for audit purposes. Importation of material must be noted on the annual Compliance Assessment Report.

Buildings & Structures
 1.4.4 No buildings or structures associated with aggregate operations will remain on site. The conveyor beneath the railway will be removed and the tunnel closed.

Ground Water Table
 1.4.5 The final water level of the four ponds will range from ±289m a.s.l. to ±291.0m a.s.l. The post extraction ground water table, is as shown on pages 3, 4 and 5 as per hydrogeological/hydrological assessments.

Internal Haul Roads
 1.4.6 The existing driveway accessing the site will remain following the final rehabilitation of the site.

Surface Water Drainage & Discharge
 1.4.7 Final surface drainage will follow the rehabilitated contours as shown and shall be directed towards the ponds and/or adjacent wetlands.