

Proposed Paris Plains Pit

699 PARIS PLAINS CHURCH ROAD



A COLAS COMPANY

May 2024

About Us... The Miller Group

- Builds and supports urban and rural infrastructure across Canada
- Is a part of Colas Canada and The Colas Group of companies – a Canadian and world leader in construction and the maintenance of transportation infrastructure
- Locally known as Tri City Materials and Tri City Ready Mix
- Recently celebrated 107 years of time-proven construction methods and innovative technology
- For over 30 years, the Miller Group has been a leading supplier of construction materials for the production of asphalt and concrete, and for use in a variety of construction and rehabilitation projects
- Over 40 pits and quarries across Ontario, Nova Scotia and New Brunswick
- Miller takes pride in being an active member of local communities across the province

OUR VALUES

1 SAFETY & WELL-BEING We work safely to bring our best self home to our families.	2 COMMITMENT TO PEOPLE At our core we are our people. We succeed because we respect our people and invest in their development and well-being.	3 INTEGRITY We do the right thing because it's the right thing to do.
4 ACCOUNTABILITY We own our actions, our decisions, and our results.	5 COMMUNITY Our family, we live where we work.	6 ENTREPRENEURIAL SPIRIT We seek improvement and embrace innovation.



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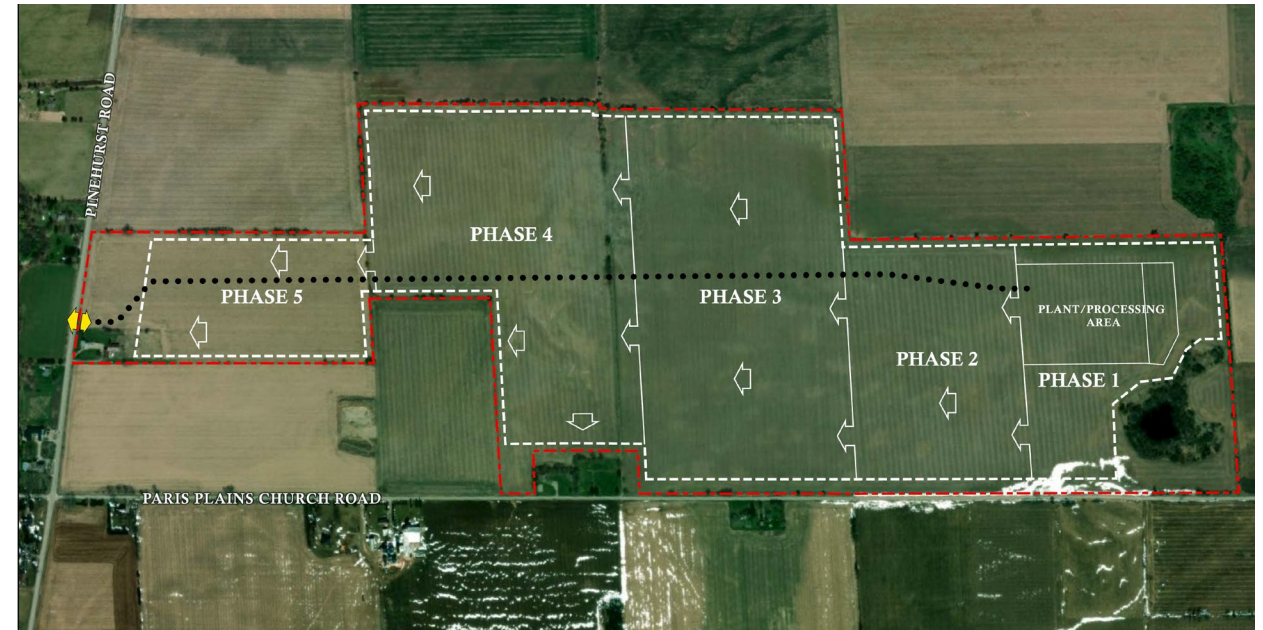


Update

- Miller has submitted its application for a sand and gravel pit above the water table to the Province (Ministry of Natural Resources and Forestry) and the County of Brant
- The application to the Province is to operate a sand and gravel pit under the Aggregate Resources Act. The application to the County is for a Zoning By-Law Amendment to allow the land to be used for a sand and gravel pit
- The Provincial application has been deemed complete and is now undergoing the review process. We are working through comments received on the County application.
- The application process can take several years
- The application process allows for several periods of public and Indigenous consultation
- Separate notices (and public meeting) will come from the County of Brant

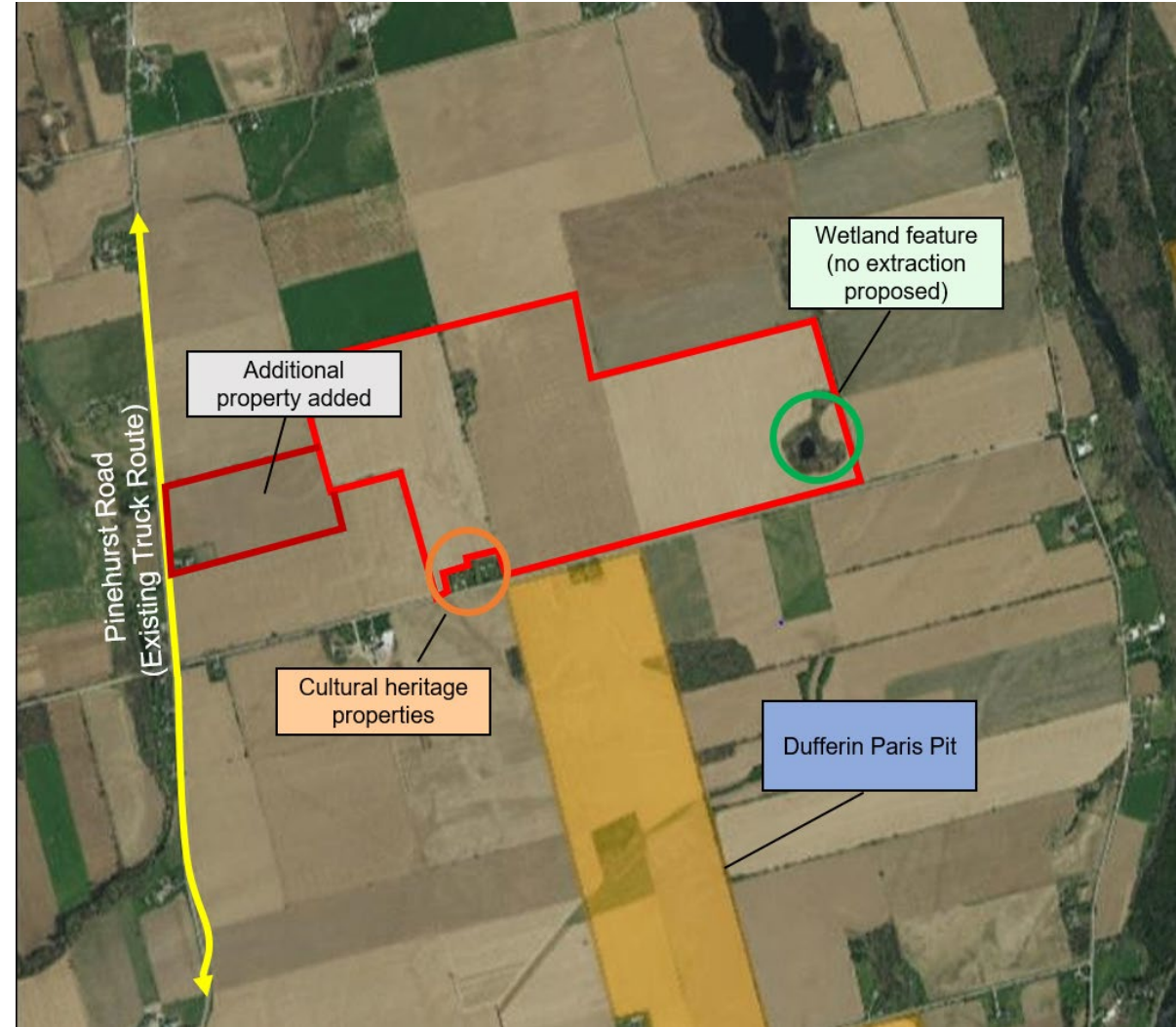
Proposed Paris Plains Pit

- The site is located about 1 km north of Paris
- Located in a primary aggregate deposit as mapped by the County of Brant and Province of Ontario
- Proposed sand and gravel pit with extraction above the water table only



Project Context

- Property is currently used for agricultural purposes
- Licence area of approx. 125.8 ha and extraction area of approx. 105.4 ha
- Adjacent to existing and historical aggregate operations
- Will utilize existing designated haul routes via Pinehurst Road
- Small on-site wetland feature will not be extracted and will be protected
- Working with Paris Plains Cemetary Association to donate adjacent land



Proposed Operations

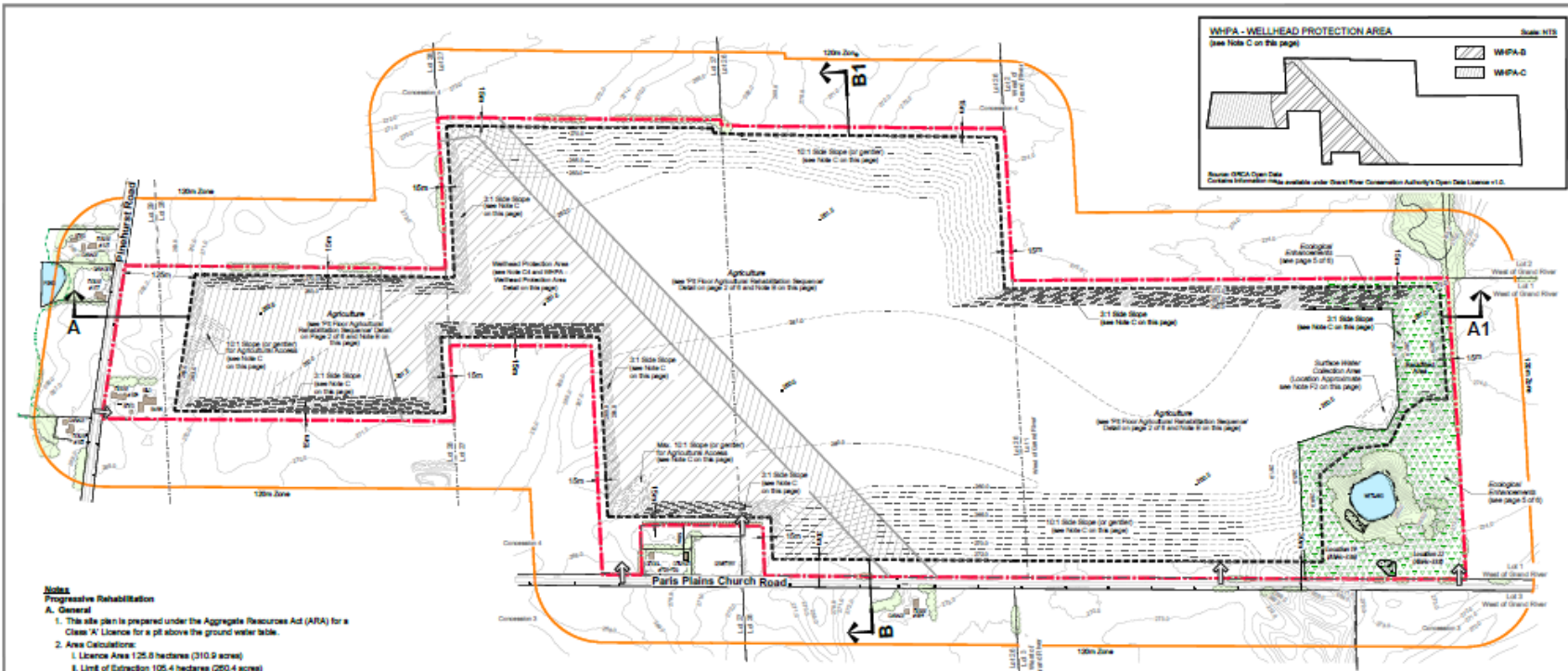
- Five sequential extraction phases
- Processing will occur outside of the WHPA
- Plan includes setbacks, buffers, and mitigation measures to minimize impact
- 1,000,000 annual tonnage limit
- Proposed Hours of Operation
 - Weekdays: 7:00 am to 7:00 pm
- Proposed Hours of Shipping
 - Weekdays: 6:00 am to 6:00 pm
 - Saturday: 8:00 am to 2:00 pm



Application Studies

1. Planning Justification Report and ARA Summary Statement
2. Cultural Heritage Impact Assessment
3. Traffic Impact Study
4. Noise Impact Study
5. Vibration Study
6. Air Quality Assessment
7. Environmental Impact Study & Ecological Enhancement Plan
8. Agricultural Impact Assessment
9. Water Report (Hydrogeology Study)
10. Noise Impact Study
11. Archaeological Assessment Reports
12. ARA Site Plan (Existing Features, Operations Plan, and Rehabilitation Plan)

All reports are available at www.millergroup.ca/land-management/active-projects



Notes

Progressive Rehabilitation

A. General

- The site plan is prepared under the Aggregate Resources Act (ARA) for a Class 'A' Licence for a pit above the ground water table.
- Area Calculations:
 - Licence Area 125.8 hectares (310.9 acres)
 - Limit of Extraction 102.4 hectares (252.4 acres)
- The maximum depth of extraction is identified with spot elevations and contours on the drawing and shall remain a minimum of 1.5m above the water table.

B. Phasing

- As excavation reaches the limit of extraction and/or maximum depth in each phase, progressive rehabilitation shall commence.
- Progressive rehabilitation will follow the direction and sequence of extraction described in the Phase notes on page 2 of 6, as well as illustrated in the Progressive Rehabilitation Sequence schematic on page 2 of 6.
- As outlined in the Extraction Sequence notes on page 2 of 6 and shown in the Progressive Rehabilitation Sequence schematic on page 2 of 6, each Phase of extraction shall initiate progressive rehabilitation, prior to proceeding to the next phase of extraction. Internal haul roads are permitted to remain in progressively rehabilitated areas, but shall be removed as part of final rehabilitation.
- The timing of ecological enhancement activities shall be in accordance with Table 1 on page 5 of 6.
- Progressive rehabilitation shall commence in Phase 1 and shall closely follow the westerly direction of extraction. In Phase 1, the north, south and east side slopes shall be progressively rehabilitated including the completion of ecological enhancements (see page 5 of 6). The processing area in Phase 1 shall remain until extraction in Phase 5 is complete. Progressive rehabilitation shall closely follow the westerly direction of extraction in Phase 2, Phase 3, Phase 4, and Phase 5.
- Progressive rehabilitation activities will include grading and sloping, placement of topsoil and subsoil, agricultural rehabilitation activities, seeding of side slopes and the completion of the ecological enhancement area plantings where identified on the plan view.

C. Slopes and Grading

- Progressive rehabilitation will utilize a variety of rehabilitation techniques including:
 - Backfilling extraction bays; and
 - Backfilling the pit floor
- Side slopes shall vary but will be a minimum of 3:1 and shall be created using on-site material, imported material, and fill from the settling pond. See Section M Variations from Control and Operational Standards on Drawing 2 of 3.
 - The 10:1 side slopes shown on the drawing shall be created in Phase 1, Phase 2, Phase 3, and Phase 4, using on-site or imported material.
 - The 3:1 slopes shown in all Phases on the drawing may be permafrost if sufficient on-site material is available that can be used for slope creation.
- Access ramps shall be incorporated into the side slopes in the locations shown on the plan view. Ramps shall not exceed a 10:1 (horizontal to vertical) slope.
- Excess soil, as defined in Ontario Regulation 244/97, may be imported to this site to facilitate the following rehabilitation:
 - Establishing side slopes outside of the Well Head Protection Area-B and Well Head Protection Area-C.
 - Top dressing to establish vegetation / agricultural crops outside of Well Head Protection Area-B and Well Head Protection Area-C.

- Liquid soil, as defined in Ontario Regulation 405/19 under the Environmental Protection Act, is not authorized for importation to the site.
- The quality of excess soil imported to the site for final placement must be equivalent to or more stringent than the applicable excess soil quality standards as determined in accordance with Ontario Regulation 244/97 as amended from time to time and must be consistent with the site conditions and the end use identified in the approved rehabilitation plan.
- Where a qualified person is retained or required to be retained in accordance with Ontario Regulation 244/97, the quality, storage, and final placement of excess soil shall be done according to the advice of the qualified person.
- Excess soil imported to facilitate rehabilitation as described on this site plan shall be undertaken in accordance with Ontario Regulation 244/97 under the Aggregate Resources Act, as amended from time to time.
- The cumulative total amount of excess soil that may be imported to this site for rehabilitation purposes is 1,000,000 m³.
- The final rehabilitated landscape established using the rehabilitation techniques mentioned above will consist of side slopes, a relatively flat pit floor (that allows for surface drainage across the rehabilitated field) and ecological enhancements.

D. Topsoil and Overburden

- All on-site topsoil and subsoil shall be used in progressive and final rehabilitation.
- Refer to Agriculture notes under Section L5 Report Recommendations on page 2 of 6 for details regarding the handling and placement of topsoil and subsoil. Also refer to "Pit Floor Agricultural Rehabilitation Sequence Detail" on this page.

E. Seeding

- Any 3:1 side slopes shall be top-dressed with 10-15 centimetres of topsoil. Slopes shall be seeded with the Ministry of Transportation - Ontario (MTO) Standard Roadside Mix (OPSS-MUNI 804) or equivalent to establish vegetation quickly and reduce the potential for erosion. The MTO Standard Roadside Mix is comprised of 50% Creeping Red Fescue (Festuca rubra), 30% Perennial Ryegrass (Lolium perenne), 10% Kentucky Bluegrass (Poa pratensis) and 5% White Clover (Trifolium repens). The MTO Standard Roadside Mix shall be applied at an application rate of 130 kilograms per hectare.

F. Drainage

- The final surface drainage will follow the rehabilitation contours as shown on the plan view and/or will be by infiltration.
- A surface water collection area shall be located in Phase 1.

F. Agricultural Rehabilitation

- Within the extraction area, a minimum of 92.5 hectares shall be returned to an agricultural condition (in accordance with the "Pit Floor Agricultural Rehabilitation Sequence" detail on this drawing) with an average soil capability classification of CUI Class 1. The areas returned to an agricultural condition shall consist of the pit floor and maximum 10:1 side slopes (gender if enough soil available).
- The technical recommendations from the Agricultural Impact Assessment, included in note L5 on page 3 of 6, shall be implemented during progressive and final rehabilitation to restore 92.5 hectares of the extraction area to an agricultural condition.

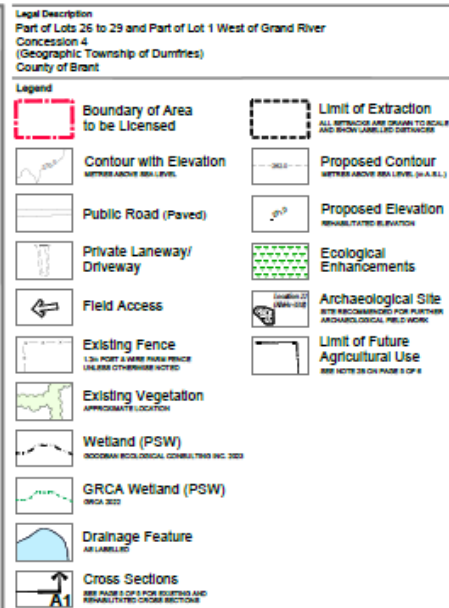
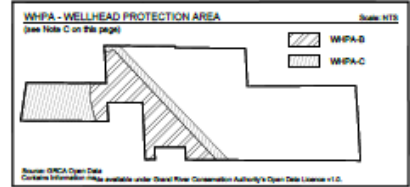
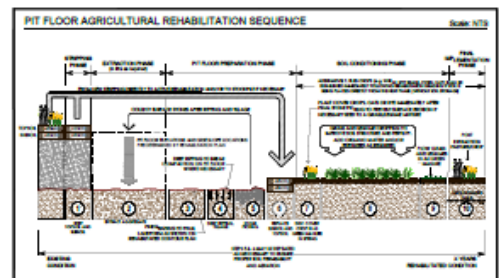
G. Ecological Enhancements

- Approximately 8.6 ha within the western portion of the site shall be rehabilitated as per Ecological Enhancement Plan and Rehabilitation Plan (Natural Environment) See page 5 of 6 for details.

Final Rehabilitation

A. General

- All equipment shall be removed from the site.
- No buildings, structures or haul roads on the pit floor shall remain.
- Access ramps shall remain to access the rehabilitated floor.
- The water table encountered on-site ranges between an elevation of approximately 251.3 and 257.3 (metres above mean sea level) mAMSL. The maximum predicted water table is shown on each cross section Drawing 4 of 5 and Drawing 1 of 3.
- The anticipated final end use is primarily agricultural with ecological enhancements. Also, a surface water collection area in Phase 1 will be created to assist with pit floor drainage following extraction.



No.	Date	Description	By

MHBC
PLANNING
URBAN DESIGN
& LANDSCAPE
ARCHITECTURE

30-40 HOBART STREET DR. (2ND FLOOR) HOBART, TAS 7000
P: 081 434 3400 | F: 081 434 3401 | WWW.MHBCAUSTRALIA.COM

MNRP Approval Stamp

MHBC Stamp

Signature: [Signature]

Applicant

Miller Aggregates
281 Hillmount Road
Suite 101
Markham, Ontario
L3C 2G3

Applicant's Signature

Signature: [Signature]

Van Zuydam
Miller Aggregates

Project

Paris Plains Pit

ARA Licence Reference No.

Pre-approval review

Plan Scale: 1:4 (1mm = 4 units) MODEL

Drawn By: D.G.S.

Checked By: C.P.

File No.: 21236A

File Name

REHABILITATION PLAN

Drawing No.

4 OF 6



Traffic

- Direct access to Pinehurst Road with improvements including southbound turning lane
- Pinehurst Road is approved truck route
- No truck traffic or need for improvements to Paris Plains Church Road
- No truck traffic in front of church or cemetery
- Predicted Traffic Flow
 - 75 % travelling northbound
 - 25 % travelling southbound
- At maximum capacity, we expect up to 30 trucks (60 two-way truck movements) an hour
- Studies based on peak volumes in a given hour
- We do not anticipate these type of volumes throughout a full day of operation or every day of the operation.



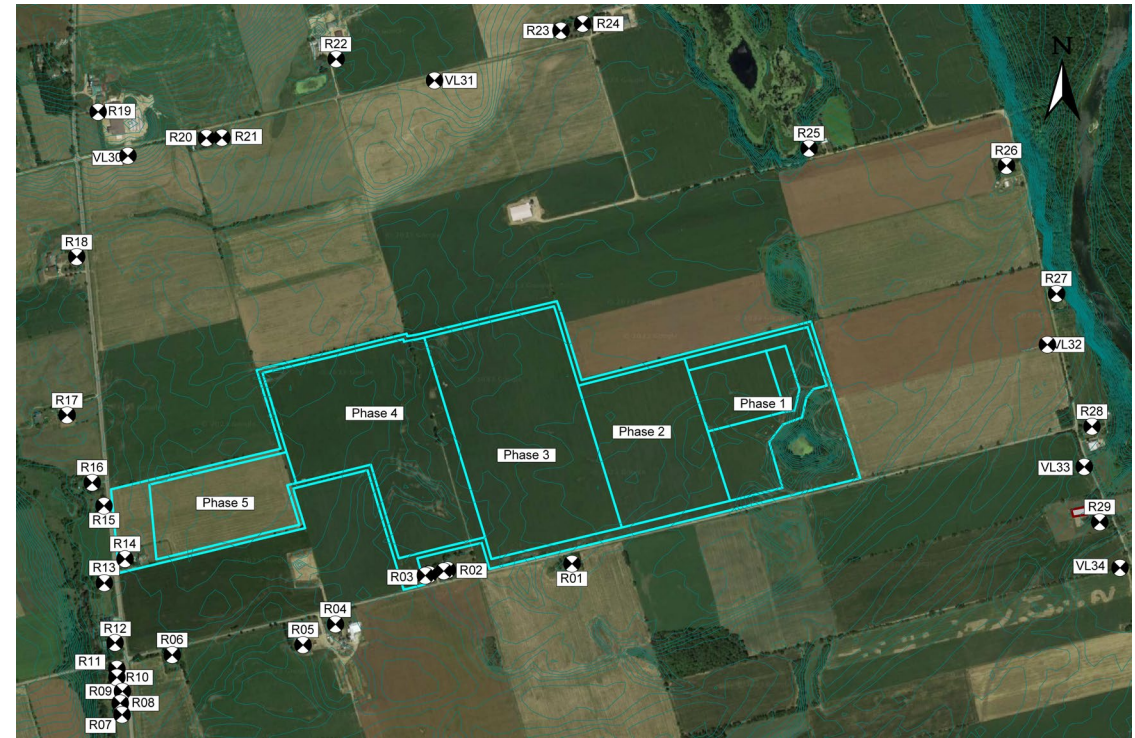
Hydrogeology and Water Quality

- Extraction will occur at least 1.5 meters above the water table
- Average 10m depth across the site
- Extracted floor will be returned to agricultural use
- 10 monitoring wells in place and have data loggers to monitor water levels. Baseline water quality measurements have also been collected
- On-site wetland/water feature will be protected and enhanced
- Mitigation measures have been developed and implemented to ensure Source Water Protection Plan
- Domestic wells are protected
- Includes baseline study of wells within 1 km of site
- Annual monitoring and report

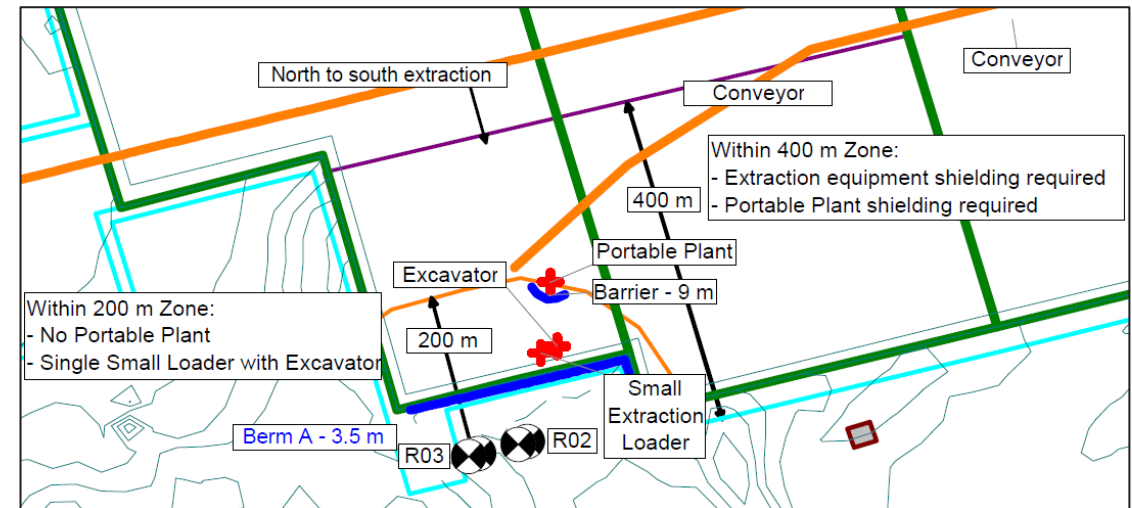


Noise and Dust

- Miller is committed to ensuring minimal noise and dust for nearby homes and businesses
- Operations will not exceed noise thresholds outlined in provincial guidelines
- Air Quality and Noise Impact mitigations will be in place, for example:
 - Additional setbacks behind church and cemetery
 - Strategic location of processing plant
 - Noise and visual berms along Paris Plains Church Rd
 - Localized equipment restrictions in specific phases/areas within site
 - Dust management plan
 - Annual noise monitoring



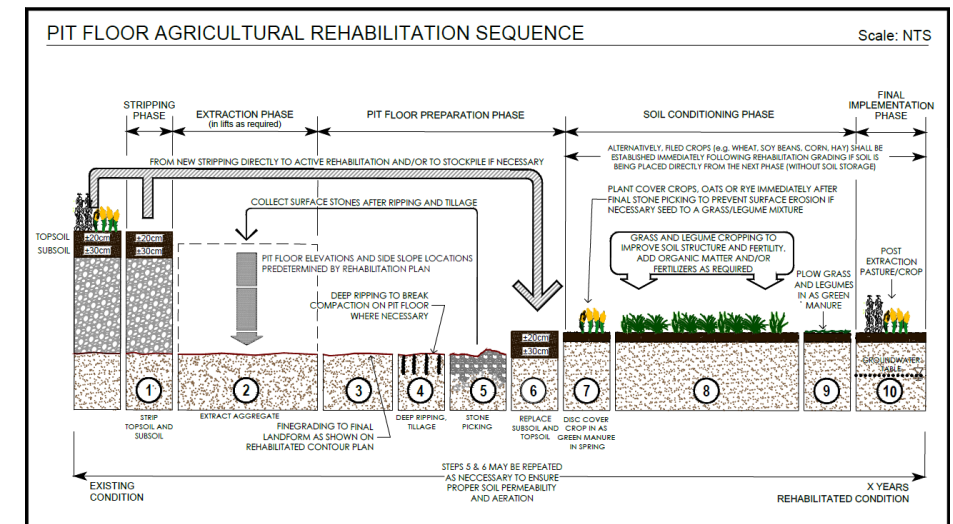
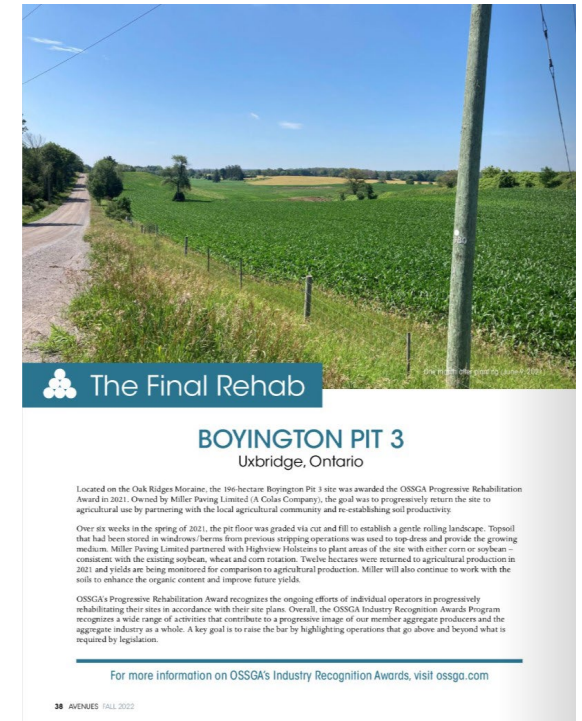
 = Receptor



Example of Noise Mitigation Measures

Proposed Rehabilitation

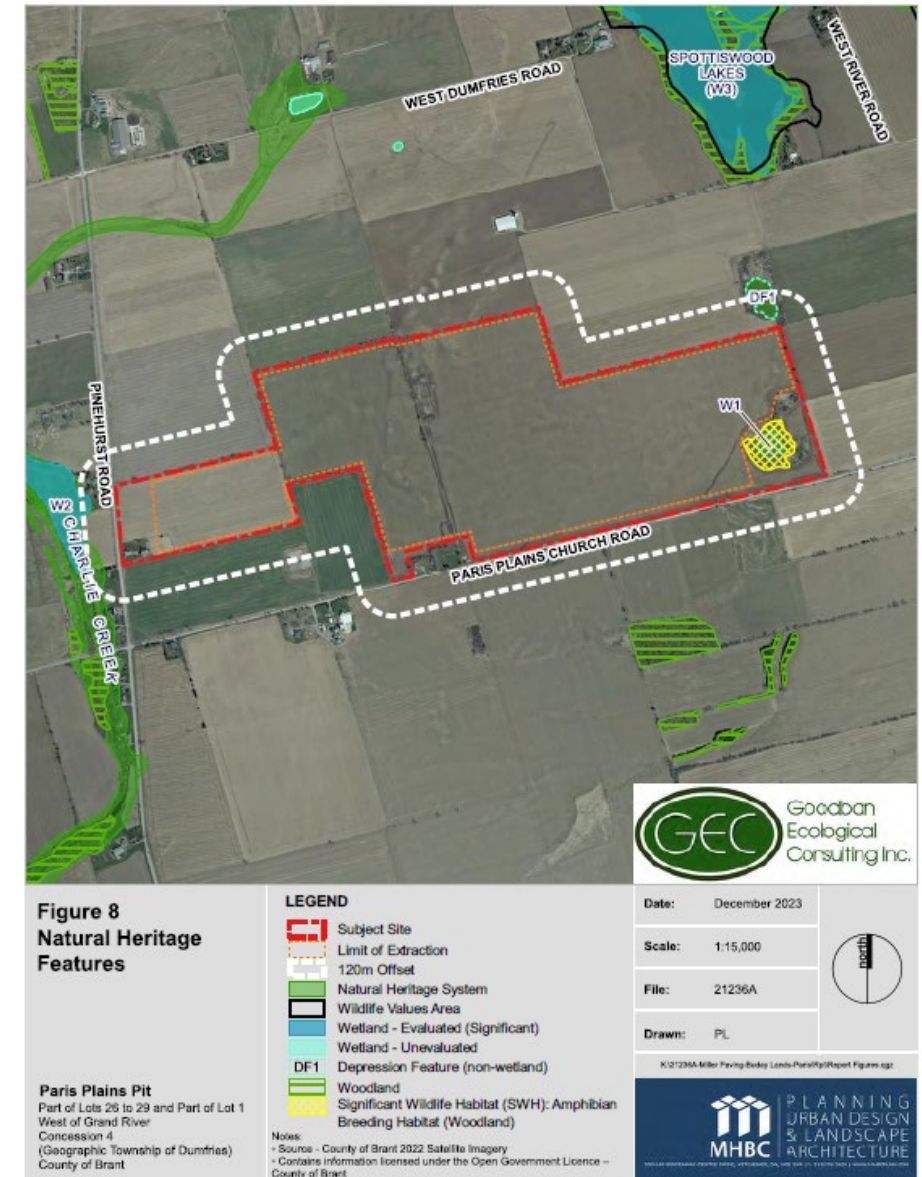
- Progressive and final rehabilitation back to an agricultural condition
- Includes ecological enhancements in and adjacent to Phase 1
- Use of Agricultural Rehabilitation Best Management Practices, for example:
 - Careful soil handling and storage
 - Ripping and tilling to alleviate soil compaction
 - Grading/sloping to control drainage and air flow
 - Stone picking
 - Use of soil amendments and cover crops to improve condition and fertility of soil
 - Monitoring and reporting
 - Relationship with local farmers



Environmental Impact Study

Based on recommendations with respect to the extraction footprint, operational plan, Ecological Enhancement Plan (EEP) and Rehabilitation Plan (Natural Environment):

- Implement as shown on the Site Plans
- No negative effects on Endangered and Threatened species, Significant Wetlands, Fish Habitat and Significant Wildlife Habitat.
- From a natural environment perspective, the Paris Plains Pit will result in a net environmental gain
- Onsite Wetland W1 will be protected with generous buffers.
- Existing vegetation features will be enhanced and new habitats created at the east end of the site.



Ecological Enhancement Plan (~ 8 ha)

Implementation of the EEP and Rehabilitation Plan (Natural Environment) will:

- Enhance existing natural and semi-natural habitats and agricultural land
- Naturalization of new rehabilitation side slopes and terraces
- Creation of a combined 8.0 ha of 'new habitats'
- Plant 1070 trees, 2210 shrubs, 3312 wildflower plugs and 750 sedgeplugs;
- Install 117 habitat features, including 102 rock piles and 15 woody debris features
- Create an ecological linkage between Wetland W1 and its related habitats and Depression Feature DF1 (north of the northeast corner)

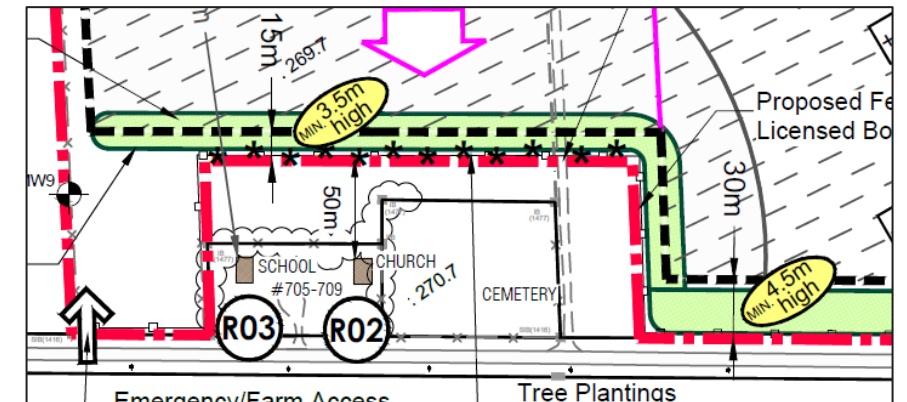


Preserving Cultural Heritage

- The proposed location is adjacent to the Paris Plains Stone Church, cemetery and Maus Schoolhouse
- Active and ongoing consultation with the Cemetery preservation group
- Engineering Structural Condition Assessment of Paris Plains Church and the Maus Schoolhouse completed in October 2022
 - Vibration monitoring plan for berm construction within 60m
- Mapping of cemetery underway in consultation with Ministry of Tourism, Culture, and Sports and Bereavement Authority of Ontario (BAO)
- Miller will ensure that no adverse effects on the buildings or cemetery
- Additional lands to be donated to the Cemetery preservation group



Cemetery donation lands

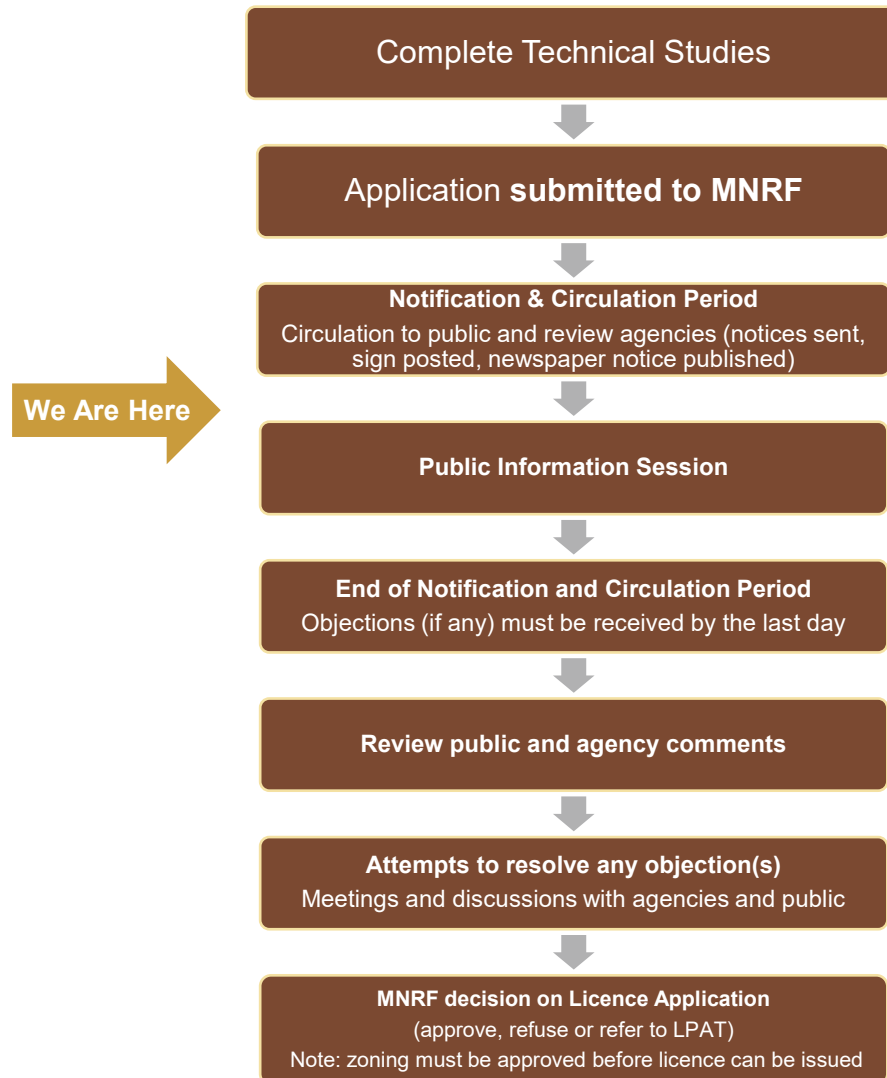


Berm around schoolhouse, church and cemetery from Site Plans

Archeology & Indigenous Consultation

- Archaeological Assessments Timeline:
 - **November/December 2021:**
 - Stage 1 & 2 Assessments of Paris Plains Property
 - **May 2022:**
 - Stage 3 Assessment of Paris Plains Property
 - **April/May 2023:**
 - Stage 1 & 2 Assessments of Pinehurst Property
- Mississaugas of the Credit First Nation, Six Nations of the Grand River Elected Council and the Haudenosaunee Confederacy Chiefs Council participated in the fieldwork and review processes
- Miller is committed to ongoing consultation with First Nations

Aggregate Resources Act Application Process



- Planning Act Application and Aggregate Resource Act Licence Application required
- Ontario's Aggregate Resources Act (ARA) is one of the most stringent aggregate application processes in the world
- The ARA sets out a comprehensive set of study requirements
- Requires detailed site plans with conditions and mitigation requirements
- Full agency review required
- Mandated public notice and consultation
- Indigenous duty to consult
- Unresolved objections (if any) decided by OLT

Public Consultation

- Committed to going above and beyond the requirements of the Planning Act for Zoning By-Law Amendment application
- ARA requires public consultation including landowner notification, notice sign, newspaper notice, Public Information Session. Applicant is required to attempt to resolve all comments received.
- One on-one-meetings with immediate neighbours ongoing to obtain feedback throughout process
- Website and handouts
- Committed to working closely with the public and all levels of government to ensure a transparent and collaborative application process



Next Steps

- Ongoing public comment period
- ARA-mandated public meeting on Thursday May 2nd from 6:00pm to 8:00pm
 - To register, email property@millergroup.ca
 - Upon registering, you will receive a confirmation email containing information about joining the webinar
- Official Public Comment Period ends **June 10th**
 - Official Comments directed to property@millergroup.ca and ARAApprovals@ontario.ca
- Review of Public and Agency comments begins
- County of Brant public meeting
- Updates will be available on our website
 - www.millergroup.ca/land-management/active-projects