

O. Technical Recommendations

- 1. Agriculture**
- Lands that are currently in agricultural production, and not required for immediate extraction and site preparation, shall be kept in agricultural production for as long as practicable limits.
 - The licensee shall document any complaints involving the local agricultural community, and as part of the Annual Compliance Assessment Report, shall provide information to MNRF on the nature of the complaint and actions taken by the licensee to address the issue.
- 2. Blasting**
- All quarry blasts shall be monitored at the closest residences in front of and behind the blast for ground and air vibration effects to ensure compliance with the current MECP guideline limits.
 - All quarry blasts shall be monitored within 300 metres of the nearest pipeline on the ground above that pipeline to ensure compliance with the current MECP vibration limits.
 - All quarry blasts shall be monitored within 300 metres of the farmhouse and barn located at 18722 Main Street, the farmhouse located at 18607 Mississauga Road, the farmhouse located at 18607 Mississauga Road and the house (to be converted to office/warehouse during operation) located at 14201 Charleston Sideroad to ensure compliance with the ground vibration limit of 50 mm/s. Once the farmhouse(s) located at 18607 Mississauga Road and 18607 Mississauga Road is relocated outside of the licence area, all quarry blasts shall be monitored to ensure compliance with the current MECP guideline limits. See cultural heritage technical recommendations Section 0.4 for additional information.
 - The vibration monitoring shall be carried out by an independent third-party engineering firm with expertise in blasting and monitoring.
 - Notification shall be provided to Earthlink when blasting approaches within 300 metres of the pipeline.
 - No extraction within 30 metres of the pipeline without authorization from Earthlink.
 - Blasting shall be carried out by persons experienced, trained and qualified to conduct blasting operations.
 - The licensee shall establish a blasting notification program for residents within 500 metres.
 - Blasting shall not occur on Saturday, Sunday and all Statutory holidays.
 - If there are exceedances of the vibration limits, blast design parameters shall be altered to bring results back into compliance.
 - When blasting within approximately 440 metres of adjacent residences, the quarry design shall regularly review blast procedures in conjunction with the blast monitoring results to assess if it is necessary to modify blast design parameters of the blasts.
 - Blasting procedures, such as drilling and loading, shall be reviewed annually and modified as required to ensure compliance with current standards.
 - The licensee shall maintain 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 MNRF and the MECP, upon written request. The blasting reports shall include the following information:
 - Location, date and time of the blast.
 - Details of the blast including: photographs, if necessary, of the location of the blasting operation, and nearest point of reception.
 - Physical and geological description of the ground between the source and the receptor location.
 - Type of material being blasted.
 - Number and weight of charges.
 - Prevailing meteorological conditions including wind speed in m/s, wind direction, air temperature in °C, relative humidity and barometric pressure.
 - Number and depth of holes.
 - Size of holes.
 - Depth of collar (or stemming).
 - Depth of hole.
 - Weight of charge per delay.
 - Number and weight of delays.
 - The result and calculated value of Peak Pressure Level in dB, and Peak Vibration Velocity in mm/s.
 - Applicable limits.
 - The exceedance, if any, over the prescribed limit.
 - The first five regular production blasts in the Main Area of the Licence shall be monitored at a minimum of five locations at varying distances from each blast to better define the ground and air vibration attenuation characteristics of the nearest receptors to assist with future blast design. This shall entail establishing monitoring stations between the blast site and neighbouring receptors (residences).
- 3. Air Quality**
- The Site shall operate in accordance with the Fugitive Dust Best Management Practices Plan (BMP) dated December 2022 (revised July 2023). The BMP shall be reviewed annually and updated if required based on current Site operation and new best management practices.
 - Unpaved haul roads shall be watered using a water truck and/or dust suppressant. The application of water shall be dependent on weather conditions but should be designed to achieve a watering rate of at least 2 L/m²/hour. Site personnel shall conduct only water inspections of visible dust from the haul roads, which shall be used to inform additional watering activities if high opacity dust is reported. When temperatures fall below 4 °C, a Ministry of Environment, Conservation and Parks chemical suppressant shall be used in place of water.
 - Unpaved haul roads shall be re-graded regularly (as so needed based on observations) using compact material.
 - A speed limit of 25 km/hour on all site roads shall be implemented.
 - Stockpiles shall be placed below grade where possible with drop-heights of less than 1 metre maintained for fine material.
 - The processing plant shall be equipped with a water spray system with the watering rate to suppress visible dust.
 - The processing plant shall be located below grade as soon as feasible.
 - Dolls shall be equipped with dust suppression systems.
 - If sustained winds exceed 40 km/hour, on-site processing activities, including drilling and blasting, will cease and not resume until low consecutive hours of winds below 40 km/hour are recorded.
 - A record of the visual inspection of roads, dust mitigation activities and complaints shall be kept in the onsite filing system, as identified in the BMP.

- Implement the recommendations of the blast impact assessment to ensure the structural integrity of the farmhouse is maintained.
 - A Heritage Documentation Plan shall be prepared for the barns and mature vegetation on the property.
 - A Structural Engineer shall be consulted to confirm whether the farmhouse is structurally sound enough to withstand relocation. If the structural engineer determines that the farmhouse cannot be relocated the following shall be implemented:
 - Alternative-level regrade (Corner Alternative) - 10%
 - Alternative-level regrade (Corner Alternative) - 10%
 - White pine (Pine Species) - 30%
 - White pine (Pine Species) - 30%
 - Planting of the visual planting screen for the Main Area shall occur within 1 year of issuance of the licence, and for the North and South Areas within 5 years of issuance of licence.
 - Monitoring of trees survival shall be conducted within the first year following planting and equipment replacement planting shall be carried out if more than 20% of trees die or are damaged.
 - Rehabilitation shall be implemented as illustrated on drawing 4 of 4.
- 7. Water**
- The maximum predicted groundwater table, based on groundwater levels monitored over a 12 month period from January to December 2021, are as follows:
 - Main Area - Ranges from 420.7 to 393.5 m east (north to south)
 - North Area - Ranges from 419.0 to 392.3 m east (north to south)
 - South Area - Ranges from 405.3 to 391.0 m east (north to south)
 - Prior to site preparation in Phase 4 erect fencing 50 m from the farmhouse to identify a "no-go zone" to reduce the risk of accidental damage from vehicles, heavy equipment operation, or other activities of the mineral aggregate operation.
 - Implement the recommendations of the blast impact assessment to ensure the structural integrity of the farmhouse and summer kitchen.
 - A Heritage Conservation Plan shall be prepared for the farmhouse and summer kitchen with the existing proper located outside of the licence boundary and complete documentation and savings for the remaining landscape and outbuilding components.
 - Prior to extraction in Phase 4 relocate the farmhouse and summer kitchen within both the existing proper located outside of the licence boundary and complete documentation and savings for the remaining landscape and outbuilding components.
 - To achieve this conservation strategy, the following mitigation measures shall be implemented:
 - If the farmhouse and summer kitchen is vacated prior to the relocation a qualified specialist shall develop a method plan for the farmhouse and summer kitchen, with a maintenance and inspection schedule, to conserve the structure until further action is implemented.
 - The following short-term conservation actions, shall be implemented prior to relocation of the farmhouse and summer kitchen:
 - Prior to site preparation in Phase 4 erect fencing 50 m from the farmhouse and summer kitchen to identify a "no-go-zone" to reduce the risk of accidental damage from vehicles, heavy equipment operation, or other activities of the mineral aggregate operation.
 - Implement the recommendations of the blast impact assessment to ensure the structural integrity of the farmhouse and summer kitchen.
 - A Heritage Documentation Plan shall be prepared for the barn complex, Outbuilding No. 1, Redstone wall, and mature vegetation on the property.
 - A Structural Engineer shall be consulted to confirm whether the farmhouse is structurally sound enough to withstand relocation. If the structural engineer determines that the farmhouse cannot be relocated the following shall be implemented:
 - Alternative-level regrade (Corner Alternative) - 10%
 - Alternative-level regrade (Corner Alternative) - 10%
 - White pine (Pine Species) - 30%
 - White pine (Pine Species) - 30%
 - If the house is to be relocated by the licensee a commercial site plan shall be installed at 1056 Charleston Sideroad to document the heritage attributes of the property. The conservation strategy should be implemented during the installation of the project, allowing the completion of quarrying activities.
 - A Heritage Conservation Plan shall be prepared for the farmhouse and summer kitchen to guide the relocation and outline how to retain the general geographic and visual setting of the structure and conserve the contextual value of the farmhouse and summer kitchen.
 - Relocate the farmhouse and summer kitchen on the portion of 18607 Mississauga Road that is located outside of the licence boundary to retain the general geographic and visual setting of the structure and conserve the contextual value of the farmhouse and summer kitchen.
 - The relocated farmhouse and summer kitchen shall be in habited for residential use.
- 8. Accession**
- A Stage 3 Archaeological Assessment shall be required for the following sites: Location 1 (AHA-23), Location 2 (AHA-24), Location 4 (AHA-26), Location 7 (AHA-26), Location 8 (AHA-27), Location 10 (AHA-28), Location 12 (AHA-29), Location 15 (AHA-31), Location 18 (AHA-32), Location 18 (AHA-33), Location 18 (AHA-33), Location 20 (AHA-33), Location 20 (AHA-33), Location 27 (AHA-34), and the Common Site (AHA-9).
 - The limits of these archaeological sites, plus a 70 metre buffer, are identified on the plan view of this drawing and referred to as an "Archaeological Protection Area".
 - Alterations are prohibited within the limits of the "Archaeological Protection Area" until such time that the Ministry of Citizenship and Multiculturalism (MCM) has entered a report in the Ontario Public Register of Archaeological Reports (where the report) recommends that the archaeological site is of no further cultural heritage value or interest.
 - Any archaeological site that is located outside of the licence area shall be identified on the licence area at the time of issuance of the licence and shall be protected through a restrictive covenant on title.
 - The protected sites shall be fenced (cut and wire) prior to commencing extraction.
 - Should buried archaeological remains be found during the course of site preparation and/or extraction related activities, the MCM shall be notified.
 - In the event that human remains are encountered during construction or extraction activities, the licensee shall immediately notify both the MCM and the Registrar or Deputy Registrar of the Conservation Regulation Unit of the Ministry of Environment and Consumer Services (MCCS).
- 9. Visual**
- Berms shall be designed to mitigate visual effects and shall be constructed along the perimeter of each area (Main Area, North Area & South Area) as shown on the plan view of this drawing. The berms shall be 1 to 2 metres high, 10 metres in height, and constructed with material from each extraction area, prior to extraction commencing in the Main Area, North Area and South Area.
 - Berms shall remain in place throughout the operational phases in each of the Main Area, North Area and South Area until all extraction operations are completed in each area. The berms shall be removed and the material from the berms shall be used for rehabilitation.
 - The berms shall be seeded with a grass/legume seed mix in order to stabilize the soils on the berms and groundwater infiltration trench. The grass/legume seed mix shall be applied at a rate of 125 kg/ha. The mix should consist of 50-70% grasses in minimum of three species and 30-50% legumes, and may include the following species, as available at the time of application:
 - Annual ryegrass (*Lolium perenne*)
 - Perennial ryegrass (*Lolium perenne*)
 - Tall fescue (*Lolium arundinaceum*)
 - Red clover (*Trifolium pratense*)
 - Alfalfa (*Medicago sativa*)
 - Orchard grass (*Dactylis glomerata*)
 - White clover (*Trifolium repens*)
 - Orchard grass (*Dactylis glomerata*)
 - Red fescue (*Festuca rubra*)
 - When constructing the berms, as much of the existing perimeter tree line as possible shall be left in place for additional visual screening.
 - Deciduous trees shall be planted with approximately 10 m spacing on either side of the water infiltration trench, within 1 year of issuance of the licence. The trees shall include the following species and percentage mixture:
 - Sugar Maple (*Acer saccharum*) - 50%
 - Red Oak (*Quercus rubra*) - 50%
 - All rehabilitated pond levels and outlets will be passive and not require pumping.

- Trees and shrubs shall be planted as per the visual planting areas (see plan view on this drawing for locations) with appropriate tree species and percentages in the visual planting areas and are only permitted to occur during the daytime period (i.e. 7:00am to 7:00pm) Monday to Friday except statutory holidays.
 - Activities for site operations, such as extraction, processing and drilling are permitted to occur during the daytime period (i.e. 7:00am to 7:00pm) Monday to Friday except statutory holidays.
 - Activities related to shipping are permitted from 07:00 to 17:00 Monday to Saturday, except statutory holidays. Shipping is permitted from 17:00 to 05:00 only where required to support public safety activities that necessitate the delivery of supplies to critical locations. Shipping outside of hours shall be limited to highway trucks and shipping trailers and no other operations shall be permitted.
 - A 5 m high audiovisual barrier shall be installed around the Main Area, North Area and South Area prior to extraction commencing in the identified areas. A 20 m high audiovisual barrier shall be constructed to a 7 m high audiovisual barrier (see plan view for locations). The berm along the west part of the Main Area property boundary shall be constructed to a 7 m high audiovisual barrier (see plan view for locations). The berm along the east part of the Main Area property boundary shall be constructed to a 7 m high audiovisual barrier (see plan view for locations). The berm along the east part of the Main Area property boundary shall be constructed to a 7 m high audiovisual barrier (see plan view for locations). The berm along the east part of the Main Area property boundary shall be constructed to a 7 m high audiovisual barrier (see plan view for locations).
 - The temporary processing plant shall be mitigated by noise controls in the form of berms or acoustically equivalent treatment (e.g., equipment mounted) to reduce the noise emissions. A 13 m high, approximately 117 m long barrier located 20 m east and a 6 m high, approximately 66 m long barrier located 20 m west of the processing plant shall be installed.
 - The permanent processing plant shall be mitigated by noise controls in the form of berms or acoustically equivalent treatment (e.g., equipment mounted) to reduce the noise emissions. A 13 m high, approximately 106 m long barrier located 20 m east and a 6 m high, approximately 66 m long barrier located 20 m west of the processing plant shall be installed.
 - Proposed berms can be constructed of earth, bents, product stockpiles or other suitable acoustic barriers such as trailers or shipping containers as long as the height and the density requirements of 20 kg/m³ without gaps are maintained.
 - Extraction loads shall be generally operating within 30 m of the active working face to maximize noise screening by the working face.
 - Dolls produced in the Site operations shall be mitigated (e.g., manufacturer installed noise control) resulting in a sound power level of 110 dBA. In addition, when operating within the identified areas on the Noise Mitigation Schematic, the dolls shall be equipped with a 4.5 m high "C" shaped and 22 metre long barrier located at the distance of 2 m from the equipment (or acoustically equivalent) in single, operational restriction shall be considered for dolls operating in specific areas as indicated on the Noise Mitigation Schematic.
 - Area 1 - operation of a single unmitigated doll.
 - Area 2 - operation of a single mitigated doll.
 - Area 3 - operation of two mitigated dolls.
 - Area 4 - operation of one or two unmitigated dolls.
 - The number of extraction loads shall be reduced from three to two units when equipment operates in the areas identified as Area 5 (Broom Area) and shown on the Noise Mitigation Schematic. In addition, the licensee operating in Area 5 shall be limited to the plant loader with sound power levels of 107 dBA.
 - The licensee shall utilize an alternative to handle back up axams that meet Ministry of Labour safety requirements for on-site operation.
 - Prior to extraction commencing, sound measurements of the equipment used on the Site shall be undertaken by a qualified professional to confirm maximum sound power levels are not exceeded.
 - To confirm that sound levels from the Site operations are in compliance with the MECP noise guideline limits, an acoustical audit shall be completed by a qualified professional once extraction and processing activities commence in the Main Area.
 - Proposed mitigation shall be substituted through equipment modification, other control measures and/or local barriers if an acoustical audit is not conducted in compliance with the MECP requirements. If any active noise is found during the testing survey, the licensee shall be notified and the licensee shall be required to take corrective action to bring noise levels into compliance with the MECP noise limits at surrounding sensitive receptors. Prior to any modification, notification shall be given to MNRF.
- B. Natural Environment**
- Barn #1A, Barn #2, Barn #3 and Woodlands F and G (as shown on drawing 1 of 4) shall only be removed outside of the bat capture period of March 1 to November 30.
 - Habitat for selected invertebrates and reptiles (as shown on the Key Natural Heritage Features Schematic on drawing 1 of 4) shall be removed outside of the bat capture period of March 1 to July 31.
 - To comply with the Migratory Birds Convention Act, Barn #1A, Barn #2, Barn #3 and Shed #10 (as shown on the plan view on drawing 1 of 4) shall not be removed during the active season for barn swallow (May 1 - August 31), unless disturbance is provided by a nesting survey conducted by a qualified biologist. If any active nests are found during the nesting survey, the structure shall not be removed until the young have fledged the nest.
 - To comply with the Migratory Birds Convention Act, removal of vegetation shall not be permitted during the active season for breeding birds (April 15 - August 31), unless disturbance is provided by a nesting survey conducted by a qualified biologist. If any active nests are found during the nesting survey, a buffer will be installed around the nest to protect against disturbance. Vegetation within the buffer shall not be removed until the young have fledged the nest.
 - Implement a minimum setback for extraction of 15 metres from significant woodlands (as shown on this drawing). There shall be no disturbance, including berms, within 10 metres of these significant woodlands.
 - Implement a minimum setback for extraction of 30 metres from the Cudworth Wetland Complex (as shown on this drawing). There shall be no disturbance, including berms, within 10 metres of these woodlands.
 - Implement a minimum setback for extraction of 30 metres from Tributary #1 and the pond (as shown on this drawing). There shall be no disturbance, including berms, within 10 metres of these woodlands.
 - Implement a minimum setback for extraction of 30 metres from unevaluated wetland units 3, 4 and 5 (as shown on this drawing). There shall be no disturbance, including berms, within 10 metres of these woodlands.
 - All conditions of Endangered Species Act (ESA) approvals shall be followed.
 - Sediment and erosion control measures shall be installed along the outline of the significant woodlands in areas where runoff has the potential to enter the woodlands, and adjacent to the Cudworth Wetland Complex prior to commencement of activities within 30 metres of the significant woodlands (i.e., 300 metres buffer shall be actively monitored and maintained for the duration of the proposed operations. Following reforestation of the areas adjacent to the significant woodlands, the controls shall be removed and the woodlands shall be actively monitored and maintained for the duration of the proposed operations. Following reforestation of the areas adjacent to the significant woodlands, the controls shall be removed and the woodlands shall be actively monitored and maintained for the duration of the proposed operations.
 - Excess water collected in the sum(s) shall be pumped to a settling pond located on the east side of the North Area, from which water will flow by gravity for off-site discharge to the Deerpny Valley Golf Course irrigation pond system, with the excess water stored in discharge through the existing pond system to the Credit River.
 - Water collected from quarry operations and discharged off-site shall be monitored for total suspended solids and temperature to ensure it meets the discharge objectives for those parameters, as specified in the environmental compliance approval.
 - Implement the water monitoring requirements for Location 1, 2, 3 and 4:
 - Location 1: Main Quarry - Northwest Area - Tributary #1 (D181618, D181619, D181620, D181621, D181622, D181623, D181624, D181625, D181626, D181627, D181628, D181629, D181630, D181631, D181632, D181633, D181634, D181635, D181636, D181637, D181638, D181639, D181640, D181641, D181642, D181643, D181644, D181645, D181646, D181647, D181648, D181649, D181650, D181651, D181652, D181653, D181654, D181655, D181656, D181657, D181658, D181659, D181660, D181661, D181662, D181663, D181664, D181665, D181666, D181667, D181668, D181669, D181670, D181671, D181672, D181673, D181674, D181675, D181676, D181677, D181678, D181679, D181680, D181681, D181682, D181683, D181684, D181685, D181686, D181687, D181688, D181689, D181690, D181691, D181692, D181693, D181694, D181695, D181696, D181697, D181698, D181699, D181700, D181701, D181702, D181703, D181704, D181705, D181706, D181707, D181708, D181709, D181710, D181711, D181712, D181713, D181714, D181715, D181716, D181717, D181718, D181719, D181720, D181721, 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