GENERAL OPERATIONAL NOTES

1. Tonnage: It is a condition of this licence that no more than 1,000,000 tonnes of material shall be removed from this property annually and no more than 1,815,000 tonnes of material annually combined with Licence 4444, which is also operated by Port Colborne Quarries Inc. The area to be extracted is 68.7 hectares.

2. Hours of Operation

a) The hours of operation shall be from 7:00a.m. to 7:00p.m. Monday to Friday excluding statutory holidays and 8:00a.m. to 3:00p.m. on Saturdays. At no time shall crushing, rock breaking or blasting take place on a Saturday, Sunday or Statutory Holiday, nor any blasting between the hours of 6:00p.m. and 8:00a.m. Maintenance and, where required for highway construction night contracts, only loading and scale operations may take place outside of normal operating hours. b) Refer also to the Recommendations from: i) Blasting Impact Assessment (Note 4) for further restrictions to the operational hours during drilling/blasting.

3. Fencing and Gates:

a) Prior the stripping and extraction, a minimum 1.2 metre high post and wire fence shall be in place along all external boundaries to ensure the active quarry extraction operation site is always secure. Site Plan Variance of Operational Standard 5.1 provides that the west boundary abutting ARA Licence 4444 is not required to be fenced since those lands are also owned by Port Colborne Quarries Inc.

b) A gate will be erected at the main quarry access onto the Highway 3 entrance/exit and locked when the quarry is not operational. The gate will be erected internally near the weigh scales which will provide on-site queuing room for up to 11 trucks. c) The existing entrance/exit at:

i) Humberstone Speedway onto Highway 3 will be permanently closed. ii) Former Carl Road onto Second Concession Road will be permanently closed.

d) Refer to Note 5 for farm equipment access and gates. e) Tree Protection Fencing shall be installed around the northern woodlots, (SWD-2 and SWD3-2) as

per the Recommendations from the Tree Preservation Plan (See Sheet 5 of 10). 4. Existing Buildings: The house at 1645 Second Concession Road to remain as it will be outside the

Limit of Extraction. The timing of the removal of the following buildings will occur during Phase 1A:

i) Spectator viewing stand at the Humberstone Speedway. i). All ancillary buildings and structures at the Humberstone Speedway.

5. Site Access

7. Farm Access

a) Initial Extraction Stage: Haul truck access during the initial extraction of Phase 1Ai) will be routed internally westward via the Port Colborne Quarries Inc. spell check 4444 (Pit 2 and 3) to the Pit 1 entrance/exit onto Ramey Road and to Highway 140.

b). Prior to extraction occurring in Phase 1A ii) or Phase 1-X, an aggregate processing plant / wash plant will be constructed within Licence 4444 (Pit 3) and concurrently, a new quarry entrance/exit will be established directly onto Highway 3 at the Licensee's expense. All applicable entrance permits and design approvals for a deceleration lane shall be secured from the Ministry of Transportation prior to the construction and use of this access.

6. Entrance/Exit: Once the Highway 3 entrance/exit has been established: a) A road sweeper will be maintained on-site (or within Licence 4444) and used on a year-round basis as required. The entrance and associated paved shoulders will be swept to pick up and dispose of quarry related debris at least once per week, and as frequently as conditions warrant.

b) A steel grating system will be installed at the weigh scale area and cleaned regularly. c) The scale exit area will be paved from the weigh scale to Highway 3 to minimize dust/mud drag-out on truck tires.

a) For Phase 1A: farm equipment will access the site via Licence 4444 (Pit 3). b) For Phases 1B, 2, 2-X and 3-X, farm equipment will access via 1645 Second Concession Road.

8. Internal Haul Road: Internal haul routes will be constructed and disbanded as required to access the active guarry face. The location of the internal roads shown on the Site Plans are general and anticipated but will vary depending on changing site conditions and truck traffic flow requirements.

9. Weigh Scale: The weigh scale to be used for this Licence will initially be located off-site at the Port Colborne Quarries Inc. Pit 1. During Phase 1A extraction, once a new processing plant is relocated to Licence 4444 (Pit 3), a weigh scale and scale house will be established near the Highway 3 entrance/exit generally as shown on the Site Plans.

10. Groundwater Status: The groundwater elevation across the site has been determined by WSP-Golder to be approximately 178.0 masl.

11. Scrap: No scrap will be stored on-site but will be stored either in the Port Colborne Quarries Inc. Pit 1 or within Licence 4444 (Pit 3).

12. Fuel Storage: There will be no on-site fuel storage. Fuel storage will continue to be located in the Port Colborne Quarries Inc. Pit 1. Portable equipment within the guarry (i.e., crushers, screeners, generators, etc.) will be refueled by a mobile fuel truck or equivalent and follow all applicable Liquid Fuels Handling code requirements.

13. Equipment: Site preparation, extraction and rehabilitation on the site will be undertaken using scrapers, front-end loaders, haul trucks, dozers, excavators, drill-rigs etc. as necessary. As well, portable crushers and screeners may be used on occasion at the quarry face.

14. Tree Removal: Any trees removed within the Limit of Extraction will be either:

i) Chipped with the material distributed within proposed vegetation zones, ii) Burned on-site subject to an applicable municipal burn permit,

iii)Cut and used on the guarry sideslopes within the aguatic habitat littoral zones to facilitate post-extractive fish habitat.

15. Topsoil/Subsoil/Overburden Stripping:

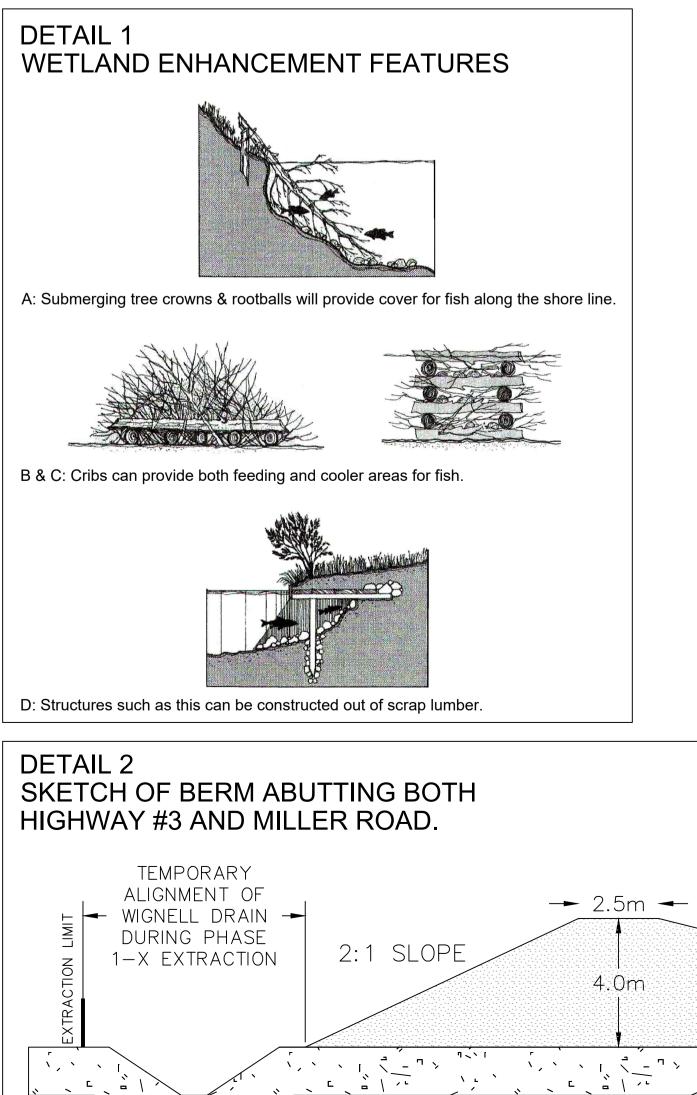
a) In advance of extraction, a sufficient area of topsoil, subsoil and overburden will be stripped to allow for approximately 2-3 years of extraction. The stripped topsoil, subsoil and overburden will be used for: i) Berm construction

ii) Rehabilitation of final quarry slopes

16. Perimeter Berms: Perimeter berms will be constructed to provide attenuation for noise, dust and visual impacts. The core of the berms will be constructed of overburden clay from the site and then a veneer of subsoil and topsoil applied to the berms. The berms will then be vegetated as specified in General Operational Note 18. If moderate or extensive erosion or gullying occurs during the life of the quarry, that portion is to be re-graded / re-seeded as necessary. The external (public) side of the berms fronting onto Highway 3 and Miller Road will be constructed with a 4:1 slope and maintained (cut) on a regular basis. The berms will be constructed to the heights noted on the Plan and as noted in the Visual Impact Assessment Recommendations. Refer also to Berm Sketch - Detail 2, 3 and 4 on Sheet 4 of 10.

All berms shall be constructed prior to extraction, with the only exception being Berms C, D and E, subject to a temporary 2.0 m high berm being constructed between Berm B and Berm F until extraction of Phase 1-X is pending. Prior to of Phase 1-X extraction, , Berms C, D and E must be in place.

Berm construction parallel to the upper reach of the realigned Wignell Drain will be as per Detail 3 on Sheet 4 of 9 to accommodate ongoing maintenance of the ditch by the municipality.



17. Quarry Sideslopes:

a) Final quarry sideslopes will vary from a maximum 2:1 slope and increase to 3:1 - 4:1 slope generally within those areas shown on the Plan. b) The Licensee will create the side slopes by:

• Angled blasting, • Use of broken shale,

On-site overburden

18. Vegetation:

a) All berms and rehabilitation side slopes shall be seeded as per Note 7vii of the Natural Environment Report (Sheet 5 of 10) with native, non-invasive seed mixture capable of:

• Rapid germination and growth, Controlling erosion.

 Maintaining or enhancing soil fertility • for coniferous a minimum of 1.5 metres in height and

The seeding is to be established in a timely manner and if necessary, facilitated by the application of fertilizer, water and/or additional seeding. b) During the start-up stage of Phase 1 the Licensee will plant a mixture of native deciduous and coniferous trees (red maple, sugar maple, elm, black oak, white pine, black walnut, white pine and black spruce) along the Highway 3 frontage and Miller Street frontage to create a long-term shade canopy. The tree stock at the time of planning shall be:

• for deciduous trees, a minimum of 55 mm cal. c) Monitoring of all vegetation shall be as per Agricultural Recommendation Note 8 and 9

19. Benching: The maximum blasting depth will be approximately 8.0 metres resulting in two (2) excavation benches. In locations where the rock continues deeper, a shallower third bench may be required.

20.Direction of Extraction: Extraction of each phase shall be in the direction as shown on the plan, with the intent to be working towards the nearest sensitive receiver.

21.Aggregates Processing: Aggregate processing will initially occur off-site in the Port Colborne Quarries Inc. Pit 1. During Phase 1A extraction, the processing plant and wash plant will be relocated to Licence 4444 (Pit 3) and to accommodate this, a Site Plan amendment for Licence 4444 will be initiated. A conveyor system may be used to transport material within the subject lands to Licence 4444. Also, a portable crusher / screener may be used on occasion at the guarry face but any such equipment and/or stockpiles shall be located a minimum of 30.0 metres away from all property boundaries.

22.Stockpiles: Aggregate stockpiles will be located primarily off-site however, when limited processing does occur at the quarry face, it shall occur on the lowest quarry floor available and be adjacent to the active guarry face and not exceed 20.0 metres in height.

23.On-Site Equipment: Proposed extraction equipment to be used on site is defined by the Noise Assessment as noted under the Technical Recommendations.

24.Recycling: Recycling of asphalt and concrete will not be permitted on this site.

25.Dust Control: Dust will be mitigated on-site as per the Air Quality Assessment as noted under the Technical Recommendations.

26.Blasting: Blasting impacts will be mitigated as per the Blast Impact Analysis as noted under the Technical Recommendations. Blasting will occur as required to provide a suitable inventory, but on

average approximately twice per week.

27. Final Quarry Elevation: The final quarry floor will vary from 162.0 masl at the south limit to 169.0 masl at the north. The quarry floor will blend in with the quarry floor for Licence 4444 which will be at approximately 166.0 masl.

28.Extraction Area: The total area to be extracted is 68.7 hectares.

30. Refer to Sheet 6 of 10 for progressive extraction and progressive rehabilitation details

31. Extraction Sequencing and Realignment of the Wignell Drain

Extraction will follow the following phasing schedule: Phase 1A-i, Phase 1A-ii, Phase 1A-iii Phase 2

The City of Port Colborne is actively (Dec. 2022) undertaking a review of the Wignell Drain under the provincial Drainage Act. This includes the permanent relocation of the drain south of Second Concession Road involving Phases 2-X and 3-X. Extraction in these phases is subject to the final design/approval of the Wignell Drain - Drainage Report by the City of Port Colborne and any appeals via the Drainage Tribunal.

Subject to the above noted approval, Phase 2-X will be extracted after Phase 2 and Phase 3-X will be extracted after Phase 2-X.

A separate Drainage Act process will be required to assess a request by the Licensee to the City of Port Colborne for the temporary realignment of the Wignell Drain within the eastern tab (Phase 1-X), followed by the extraction, backfilling, and the ultimate relocation of the drain to its original location. Extraction of Phase 1-X will be subject to the final design/ approval of this future Drainage Report by the City of Port Colborne and any appeals via the Drainage Tribunal. Subject to the above noted approval, Phase 1-X will be undertaken in advance of Sub-phase 1ii) and 1 iii).

32.Spill Response Plan: A Spills Response Plan must be posted on-site at all times either in the scale house or administration office/trailer.

33.Humberstone Soils

Prior to any extraction occurring, the Licensee shall undertake an intrusive soils investigation related ensure that adequate water supply is available for adjacent farm operations. to the Humberstone Speedway lands as identified on sheet 2 of 10. Portions of the lands overlap with 70m buffer zones for archaeology sites 32-35 and any investigative boreholes that result in being located within a buffer zone, must be cleared based on archaeological surveys, prior to initiating the number for neighbours to call if any issues arise. drilling.

This investigation must be a Phase Two ESA report for the Site in accordance with O. Reg. 153/04, which will be used to update the Final Soil Management Plan such that it is consistent with the On-Site and Excess Soil Management Regulation O. Reg. 406/19, as well as any future amendments of the Regulations that may be added by the MECP" [Conceptual Soil Management Plan - Page 8]

The Site Characterization Report will be prepared as per O. Reg 406/19, and the conclusions of the Conceptual Soil Management Plan (June 28, 2021), and will include but not limited to: • a description of the soil materials which may be reused within the Site,

• with or without processing at the Project Area, and

• which soils may be deposited at a Class 1 Management Site, or licensed landfill site. The Licensee is aware that manufactured soil berm materials are present at the Site which require a separate segregation area and environmental guality assessment to determine appropriate off-site disposal or re-use requirements.

Once the 'intrusive soils investigation' is completed: a) Any contaminated soils identified beneath the footprints of Berm C, E F and G where they overlap on the Humberstone Speedway lands, must be removed prior to their construction, and b) Extraction within Phase 1Ai) may commence simultaneously with the fulfillment of the Final Soil Management Plan including off-site removal or re-use requirements of contaminated soils. However, Phase 1Ai) extraction shall not extend east of the Carl Road right-of-way until all the contaminated soil within the Humberstone Speedway lands are resolved as specified in the Final Soil Management Plan.

34. In the event of unanticipated drainage of water from the wetland into the guarry excavation occurs during operations, and as documented through the Water Level Monitoring of the Significant Wetland Area, a berm will be constructed between the wetland and the quarry as a contingency measure. This berm would be designed and constructed to mitigate any such unexpected drainage.

RECOMMENDATIONS FROM TECHNICAL REPORTS Many of the original technical documents were prepared by Golder Assoc. Inc. As a result of corporate changes, subsequent addendums/amendments are referenced as being prepared by Golder WSP, and/or WSP.

Noise (Acoustical) Impact Study, Golder Associates Inc., dated December 2020, and as

1. The following minimum perimeter berms (or acoustically equivalent measures/barrier) will be implemented prior to extraction: • A 4 metre high (above existing grade) berm along the south property line.

• A minimum 2 metre high (above existing grade) berm along the east and north property lines of the extension area. Refer to Visual Impact Assessment Recommendations for maximum berm heights.

2. The location of the berms is shown on the Operational Plan. In addition to 1 above, specific berm requirements, including additional required berm heights, will be determined through both noise and blast monitoring as the areas of extraction move towards the Points of Reception (PORs) as shown on the Operational Plan within the 'Increased Blast Monitoring Zone'.

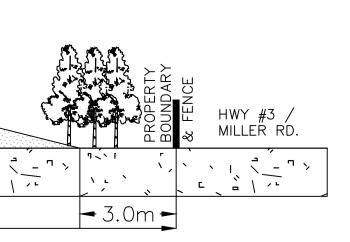
SLOPES SEEDED WITH NATIVE HERB $^\prime$ grass seed mix to prevent EROSION OF THE BERM SURFACE

4:1 SLOPE

30.0m SETBACK

N.T.S.

29.Refer to Sheet 8 of 10 and 9 of 10 for existing and rehabilitation cross sections.



3. Areas requiring additional and/or specific noise controls and/or quieter types of equipment are shown on the Operational Plan as Noise Zone 1, Noise Zone 2 and Noise Zone 3. The local barrier 1 Drill – local barrier extending 2.0 m above major noise source associated with the drill.

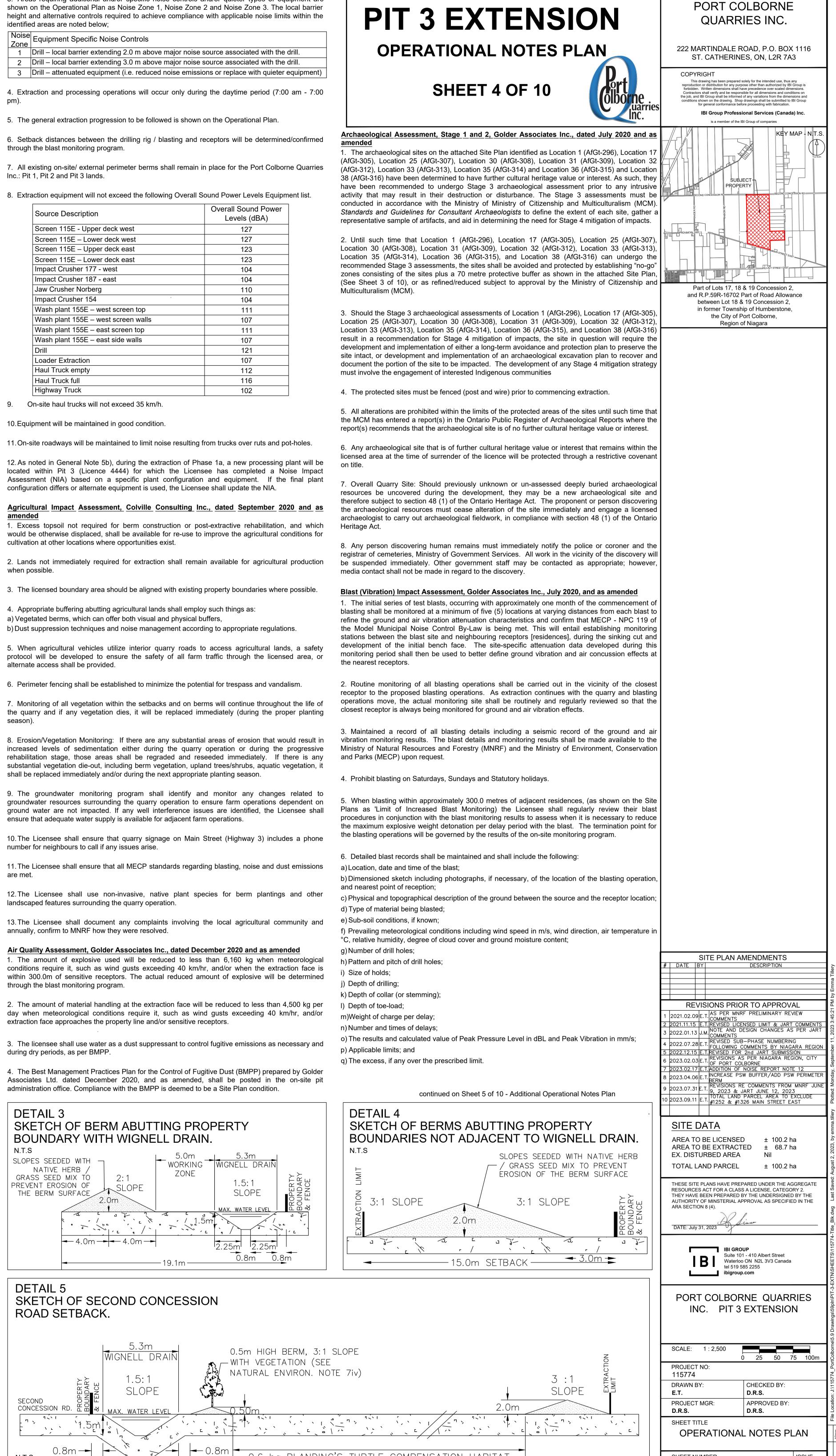
Overall Sound Power

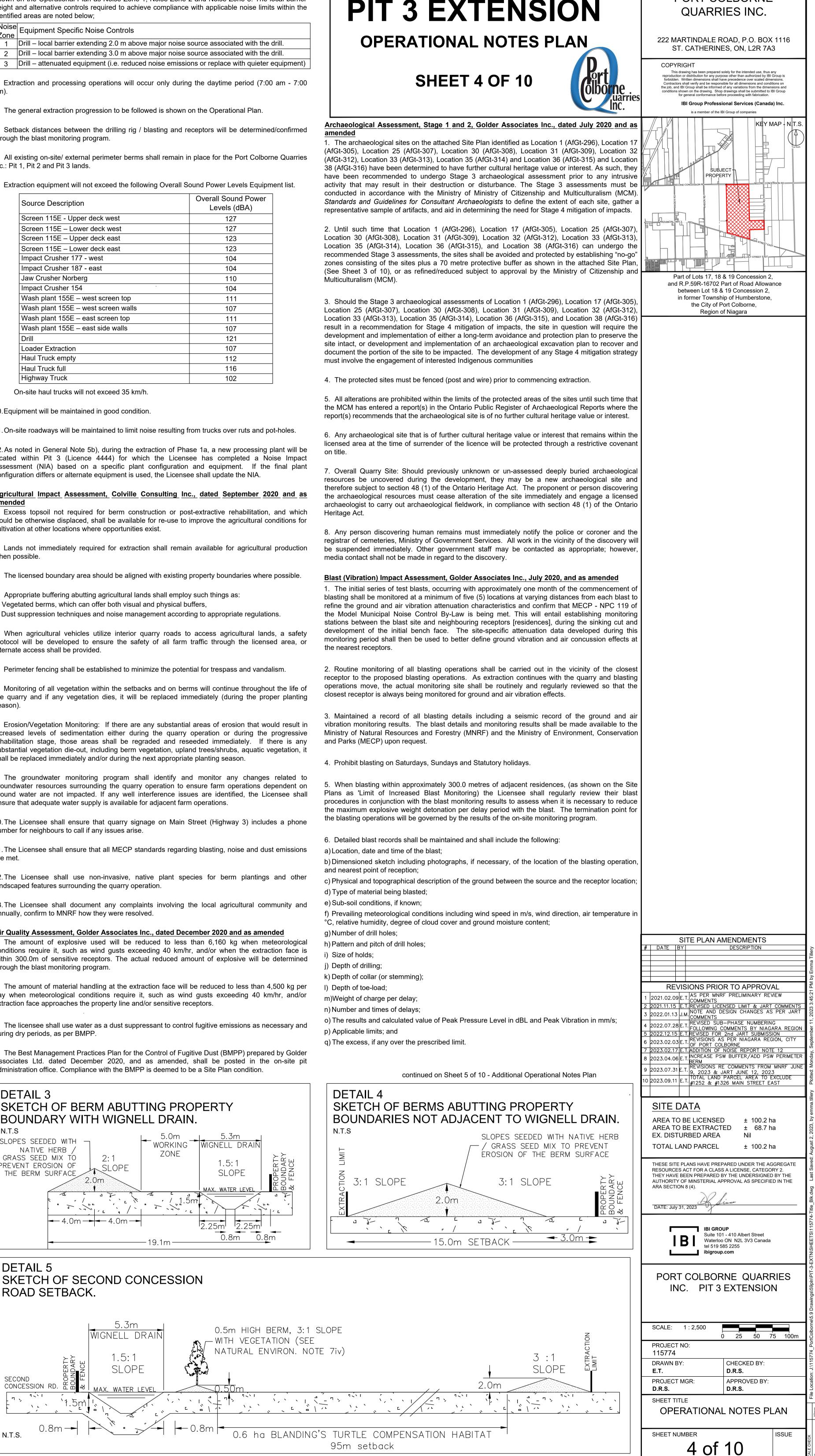
	Levels (dBA)
Screen 115E - Upper deck west	127
Screen 115E – Lower deck west	127
Screen 115E – Upper deck east	123
Screen 115E – Lower deck east	123
Impact Crusher 177 - west	104
Impact Crusher 187 - east	104
Jaw Crusher Norberg	110
Impact Crusher 154	104
Wash plant 155E – west screen top	111
Wash plant 155E – west screen walls	107
Wash plant 155E – east screen top	111
Wash plant 155E – east side walls	107
Drill	121
Loader Extraction	107
Haul Truck empty	112
Haul Truck full	116
	100

Highway Truck

Perimeter fencing shall be established to minimize the potential for trespass and vandalism.

Monitoring of all vegetation within the setbacks and on berms will continue throughout the life of







APPLICANT