## **PROJECT INFORMATION**

PENNECON MARINE BASE LTD. PROPOSED WHARF AND LAYDOWN AREA RIVERHEAD, NEWFOUNDLAND

Submitted by:

Dhiraj KC Pennecon Marine Base Ltd. 650 Water Street P.O Box 1083 St. John's, NL A1C 5M5

March 2021

| 1.0 | NAME OF UNDERTAKING      | Riverhead Commercial Wharf                                    |
|-----|--------------------------|---|
| 2.0 | PROPONENT                | Pennecon Marine Base Ltd.                                     |
| 2.1 | Address                  | 650 Water Street<br>P.O Box 1083<br>St. John's, NL<br>A1C 5M5 |
| 2.2 | Principal Contact Person | Dhiraj KC, P. Eng<br>General Manager                          |

### **3.0 THE UNDERTAKING**

### 3.1 Nature of the Undertaking

The proponent proposes to develop the area as commercial wharf and laydown area as per attached Figure 2. Pennecon Marine Base has acquired quarry permits with the Department of Natural Resources and plan to construct access roads to the quarry and from quarry to the wharf, allowing the loadout of processed aggremate materials onto vessels.

### 4.0 DESCRIPTION OF THE UNDERTAKING

### 4.1 Geographic Location

The project is located at St. Mary's Bay, near Graven Bank in the Town of Riverhead, Newfoundland, and Labrador. Please refer to Figure 1. Location of Town of Riverhead, and Figure 2. Proposed wharf development, Riverhead, NL.

Please refer to Figure 3. which indicates the nearby home. There are no recreational uses in this area. Some people cut wood in the area to heat their homes. Others might take a leisurely walk along the shore line. There are now commercial uses in the area.

The nearest human receptor is 1.2 km away from the quarry and 2.3 km away from the proposed wharf location, please refer to Figure 3. Nearby Human Receptor.

There are no recreational, commercial, or industrial users of this embayment, including tour boat operators and fish harvesters.

The area across the water from the proposed development has a fisherman's wharf where boats fishing crab come in to unload their produce. Boats tie up there during fishing season and are lifted out in the fall to spend winter on land. Occasionally a pleasure boat may come up and down the arm.



Figure 1. Location of Town of Riverhead

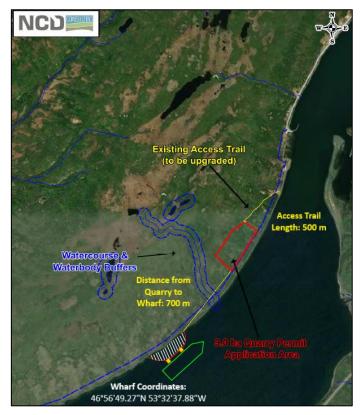


Figure 2. Proposed Wharf Development



Figure 3. Nearby Human Receptors

### 4.3 CONSTRUCTION

The construction phase of site development will consist of the following main components:

- Access road development
- Commercial wharf construction
- Rock crushing operations

### 4.3.1 Access Road Development

Access to the site will be from an existing access road, which will be upgraded as required and extended approximately 500 m. The access road will be used to transport equipment necessary for the construction of the commercial wharf.

Residents rarely use the existing access trail for leisure walks or, ATV rides along the shore line. The existing trial will be upgraded to provide access to the quarry site while the propose 700 m access road will be used to transport the finished rock products to the marine terminal & further load the material onto bulk carries, or rock placement vessels. The following steps outline the upgrade of the existing access trail and the new 700 m access road connecting quarry to the wharf/laydown location.

- The first step would be to construct "Tote road". A "tote road" is a rough access road following the route of the permanent road used as an access from which to construct the permanent structure. The tote road will be constructed mainly out of rock-fill or, oversize material from the quarry operations.
- The second stage involves the gradual improvement of the tote road. This stage involves the widening of the tote road. Cut and fill operations will continue along the route until final limits are established.

 The third & the last stage of access road construction involves preparation of driving surface using reject or, unsuitable material. During this stage, reject material (finer material) will be hauled and compacted along the whole access road.

### 4.3.2 Wharf Development

The Rock Loading Wharf is designed to handle vessels less than 20,000 DWT; the marine footprint will be approximately 10,000 m<sup>2</sup>. It will consist of two (2) wooden cribs, approximately 12 x 12 m<sup>2</sup> and 12.3 deep filled with blast rock (refer to Figure 4. Concept drawing of rock loading wharf). Cribs will be constructed on a sloped rock fill launch pad to a height of approximately 3 m. Timber cribs will be constructed 250 mm x 250 mm x 12.2 m long timber. They will then be launched, towed to the final location, and sunk in position with ballast rock. When cribs are firmly seated on the bottom, they will be built-up to the final elevation, leveled if necessary, and filled with ballast rock. Ballast rock will range from 250 mm – 500 mm and will be placed by an excavator from a barge.

The construction of the rock loading wharf will take approximately five (5) months. The approximate location of wharf is (<u>46°56'49.27"N</u>, <u>53°32'37.88"W</u>) in WGPS84 Map Datum.

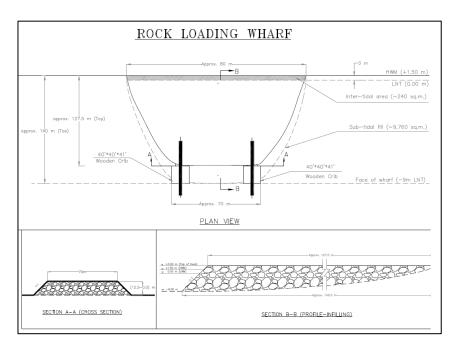


Figure 4. Concept Drawing of the Rock Loading Wharf

### 4.4 Project Related Documents

Applications have been submitted to Crown Lands for the Laydown Area/Wharf and the Access Road and to Transport Canada for the Navigation Protection Program.

The Town of Riverhead has provided a "Municipal Recommendation Form for Crown Land Applications for Grant of Land Under Section 36 of the Lands Act" (Appendix A) and the area has been successfully rezoned.

Quarry Permit has been approved for the new location (Appendix B).

### **5.0 APPROVAL OF THE UNDERTAKING**

The following is a list of the likely permits, licenses and approvals required for this project, some of which are already in progress, as noted in Section 4.4.

The quarry did not go through EA review but were referred to various governmental authorities prior to approving our quarry permit, refer to Figure 5. Referral E-mail.

| APPROVALS/CERTIFICATE/PERMITS       | REGULATORY AUTHORITY                   |
|-------------------------------------|--|
| Permit to Alter a Body of Water     | NL Department of Environment and       |
|                                     | Conservation, Water Resources Division |
| Lease / Permit to Occupy Crown Land | NL Department of Environment and       |
|                                     | Conservation, Crown Lands Division     |
| Navigation Protection Program       | Transport Canada                       |
| Municipal Recommendation            | Town of Riverhead                      |
| Request for Review                  | Department of Fisheries and Ocean      |

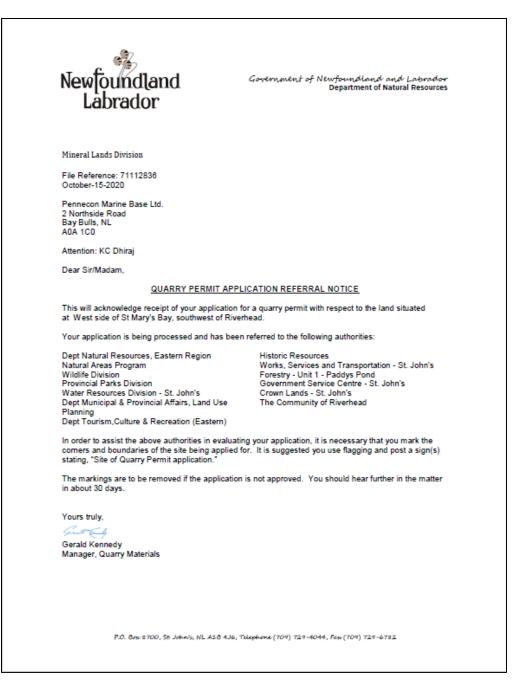


Figure 5. Referral E-mail

Attachment 1



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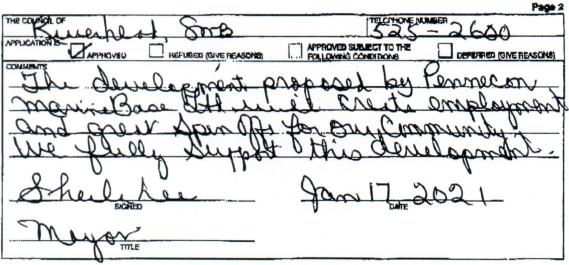
### MUNICIPAL RECOMMENDATION FORM FOR CROWN LAND APPLICATIONS WITHIN MUNICIPAL AND PLANNING AREA BOUNDARIES

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|--|-------------------|--|--|--|---|
| Pennecon Marine Base Ltd.                    |                   |  |  | DATE OF  | APPLICATION:  |
| MAILING ADDRESS 650 Water St.                | ter               |  |  | 122  | 5/2020  |
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### INSTRUCTIONS

### A. APPLICANT:

- 1. THIS IS NOT A GROWN LANDS APPLICATION FORM
- 2. This form provides Council's recommendation only. Final approval decision on your application is the responsibility of this Department and no occupation or development of the site is permitted until a formal title document has been issued by the Department
- 9. Complete part A of this form and include an accurate sketch of the area requested or attach a map,
- 4. Submit this form to the office of the Council in which the Crown land you would like to obtain is located.
- 5. When the Council has completed its recommendation you may submit your application elong with this approval form to the appropriate Government Service Centre or Regional Lands Office.
- 5. This form provides Council's recommandation only. Final approval decision on your application is the reaconsibility of this Department can accept your Crown Lands Application Form.

### R. MUNICIPAL COUNCIL:

- 1. Please complete this form and roturn if to the applicant. A copy may be taken for your records.
- 2. This form must be completed for all requests for Grown land within your Municipal planning area boundary.
- 3. If you have any questions on the proposed development, please contact the applicant directly.
- 4. Questions pertaining to the processing of applications may be made to the nearest Regional Lands Office.
- 5. The Department reserves the right to accept an application without an approved Municipal Recommendation Form, when, in the opinion of the Dopartment, the Recommendation Form had not been processed by Council in a timely manner. In such cases, the Regional Landa Office will proceed with referrals in the normal manner, including a referrel to the Municipality.

### **GOVERNMENT SERVICE CENTRES/REGIONAL LANDS OFFICES**

Department of Government Services Bovenamoni Service Centre \$ Micros Piece, IP O. Box 5700 81. Jahris, NJ. A18 4J6 Tamphone: (709) 720-5699 Faustmist: (709) 720-2071

Department of Environment and Conservation

Eustern Regional Lands Office S. Maws Place, P. O. Boa 8700 St. John's, M. A18 4JB Telephone: (709) 729-2654 Facsimde: (709) 729-0728

Denniment of Government Services Guvernment Scivice Contre Guvernment Scivice Contre McCurdy Comptex, F.O. Box 2222 Gander, NL A1V 249 Taksphaner, (708) 258-1420 Facsimilie: (709) 258-1438

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Government, Services and Lands Government, Service Centre The Nolou Bullsing, P. O. Box 2006 Corner Brook, NL A2H 6J8 Telephone: (709) 637-2387 Fucsimile: (709) 637-2385

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Department of Environment and Conservation Western Regional Lands Diffice The Nation Building, P.O. Box 2006 Corner Brook, RT, A2H 8.0 Teleptone: (708) 637-2242 Facsionie: (709) 637-2905

Departiment of Government Services Government Service Centra 9 Onecraway Grant Falls-Windson, NL A28 1/2 Telephone (1709) 282-4206 Facelentin: (709) 282-4528

Depart trivent of Government Services Government Service Cease The Theores Building, P. O. Box 3014, 51n, "8" . 13 Charchill Street Happy Vellay-Sance Bay, NL, ADP 1EO Telepicane: (709) 696-2561 Faceinale: (708) 606-4340

Department of Environment and Conservation Labrador Ragiusal Lands Offices Una Thomas Building, P. O. Box 3014, Sin. "D" 13 Churchul Street Happy Valida-Gaze Bay, ML. ADP 150 Teluptorur (700) 835-2488 Facsimilic: (709) 835-9556

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# Attachment 2



Mineral Lands Division

### **QUARRY PERMIT NUMBER: 143673**

This quarry permit, issued under the provisions of The Quarry Materials Act, 1998 entitles: Pennecon Marine Base Ltd. of Bay Bulls, NL.

to dig for, excavate, remove, and dispose of Armour Stone, Borrow Material, Rock, by Crushing, Drilling & Blasting, Pit Run Removal, Ripping, Screening,

for an area comprising approximately 9 hectare(s) located in the district of: Placentia - St. Mary's

and being more particularly indicated on a map under File Number 71112836 in the Department of Industry, Energy and Technology and generally described and shown as indicated on the attached map at: West side of St Mary's Bay, southwest of Riverhead .

Removal of topsoil is not allowed under this permit. This permit is non-transferrable and expires on: **13-Dec-2021** 

# Subject to the following terms and conditions: Definitions

"the Act" means the Quarry Materials Act, 1998.

"angle of repose" means the steepest angle of descent or dip relative to the horizontal plane to which a material can be excavated or stockpiled without slumping. The angle of repose can range from  $0^{\circ}$  to  $90^{\circ}$  or be described as a ratio of horizontal and vertical distances (e.g. 2:1 means 2 horizontal units of measure for 1 vertical unit of measure).

"blaster" means a person who holds a valid blaster's certificate granted by the Department of Advanced Education, Skills and Labour.

"Crown" means any department of the Province of Newfoundland and Labrador.

"Department" means the Department of Natural Resources.

"designated blast area" includes the danger area, which is the zone in which there exists a possibility of hazard to a person or property from fly rock, fume, air blast or ground vibrations, and is the area where the blaster has made arrangements to evacuate all persons whose safety might be threatened by the blasting operation.

"final rehabilitation" means rehabilitation carried out upon exhaustion/depletion of a part or all of the Quarry Permit area in accordance with the Act, the Regulations, and terms and conditions of the Quarry Permit and is supplemental to any progressive rehabilitation that has been completed.

"flyrock" means rock that becomes airborne as a direct result of a blast.

"grubbing" means the stumps, organic material and topsoil that are stripped to access quarry materials.

"inert" means material that is deemed acceptable for disposal at a location other than at an approved waste disposal facility in accordance with the Department of Environment and Climate Change's legislation and regulations.

P.O. Box 8700, St. John's, NL A1B 4J6, Telephone (709) 729-4044, Fax (709) 729-6782

"Minister" means the Minister of Natural Resources.

"overburden" means any unconsolidated materials located between the grubbing and bedrock.

"peak particle velocity (PPV)" means the maximum component velocity in millimetres per second that ground particles move as a result of energy released from explosive detonations.

"permittee" means the person or company to which a Quarry Permit has been issued. Where applicable, permittee means the person or company to which a Subordinate Quarry Permit has been issued.

"pre-blast survey" means a detailed record, accompanied by film or video, as necessary, of the condition of private or public property prior to the commencement of blasting operations.

"progressive rehabilitation" means rehabilitation done sequentially during the term of the Quarry Permit, within a reasonable time following individual quarry operations, in accordance with the Act, the Regulations, and terms and conditions of the Quarry Permit.

"quarry material" is defined under Section 2(1)(j) of the Act.

"the Regulations" means the Quarry Materials Regulations, 1996.

"rehabilitate" means to treat land from which quarry materials have been excavated so that the use or condition of the land is:

- a) restored to its former use or condition; or
- b) changed to another use or condition that is or will be compatible with the use of adjacent land.

"sensitive receptor" means a place of residence or commercial place of business, where people normally occupy at any given time. A - General

- 1) This Quarry Permit does not relieve the permittee from:
  - a) adhering to other Provincial and Federal legislation or regulations; and
  - b) obtaining all other permits and authorizations that may be required for the quarry operation (e.g. municipal development permits, development control permits, crown land access and highway access permits, forestry cutting and operating permits, environmental permits for asphalt plants, stream crossing, etc.).
- 2) A rental fee of \$120.00 per hectare and an annual quarry permit application fee of \$100 are payable in advance.
- 3) A royalty of \$0.75 per cubic metre for quarry material removed is payable within two months from the expiration of this Quarry Permit.
- 4) The permittee shall retain any existing tree screens between quarrying and adjacent roads, highways, waterbodies (including wetlands), or other land uses.
- 5) Where no tree screens exist, earth berms and/or other measures approved by the Department shall be implemented to screen the operation from the general public on adjacent roads, highways, or other land uses.
- 6) The Crown reserves the right to quarry and remove from the Quarry Permit, at any time, any required quarry materials free of charge without obligation to compensate the permittee in any way.
- 7) A copy of this Quarry Permit shall be at the quarry site and available for inspection at all times during operations.
- 8) Any person authorized by the Minister may at any time enter upon the Quarry Permit for Departmental purposes in order to inspect, map or examine the quarry operation.
- 9) This Quarry Permit may be cancelled by the Minister without notice if operations fail to comply with any of the terms and conditions of this Quarry Permit, the Act, or Regulations.
- 10) Any Subordinate Quarry Permit issued for this site is subject to all applicable terms and conditions of the Quarry Permit.

### **B** - Restrictions

- 1) There shall be no quarrying within:
  - a) 300 metres of a sensitive receptor without permission in writing from the Minister;
  - b) 15 metres of private property without the written permission of the private property owner(s) Land title documentation shall be provided to the Department for verification;
  - c) 90 metres of the road centerline of a protected roadway as designated under the Protected Road Zoning Regulations;
  - d) the building control line of a protected roadway without a development permit issued under the Protected Road Zoning Regulations. As set out in the Protected Road Zoning Regulations, building control lines are located at the following distances measured perpendicular from the road centreline:
    - i. 100 metres within a municipal boundary;
    - ii. 150 metres within a municipal planning area but outside of a municipal boundary;
    - iii. 400 metres within an unincorporated community or outside of a settled area;
  - e) 50 metres of a road not specified in subsections (a), (b), (c), and (d); and
  - f) 50 metres of any waterbody or 30 metres of wetlands and ephemeral watercourses.
- 2) Removal of grubbing (e.g. topsoil) is prohibited, unless otherwise stated.
- 3) The permittee shall prevent unauthorized access to the Quarry Permit area.
- 4) The permittee shall neither pollute nor permit the pollution of any pond, brook, river or other waters, including wetlands.
- 5) The Fisheries Act requires that projects avoid causing serious harm to fish unless authorized by the Minister of Fisheries and Oceans Canada. This applies to work being conducted in or near waterbodies that support fish that are part of or that support a commercial, recreational or Aboriginal fishery. If quarrying related activities (e.g. access road construction) are to take place in or near a waterbody, please complete the Department of Fisheries and Oceans (DFO) Self-Assessment at: http://www.dfompo.gc.ca/pnw-ppe/index-eng.html.
  - a) As per Section 38(5) of the Fisheries Act, every person has a duty to notify DFO of an occurrence that results in serious harm to fish, or the deposit of a deleterious substance in water frequented by fish. Should such an occurrence take place, the Proponent shall contact DFO at 709-772-4140 or FPP-NL@dfo-mpo.gc.ca.
- 6) Except with the consent in writing by the Minister of Environment and Conservation, the permittee shall not interfere with any pond, brook, river or other waters, including wetlands.
- All access roads to the Quarry Permit that traverse watercourses (e.g. streams, creeks, rivers) shall be constructed in accordance with the Department of Environment and Climate Change's regulations and policies.
- 8) Except with the written permission from the Minister, quarrying is not permitted to result in excavation below the water table and cause the accumulation or ponding of water. Creation of settling ponds for quarry production purposes requires both the written permission of the Minister and the Department of Environment and Climate Change.
- 9) Buildings or structures shall only be erected in the Quarry Permit area with written permission from the Minister. Any erected buildings, structures and equipment approved for this permit shall be temporary in nature and kept in good repair and working order.

10) The Quarry Permit area shall be kept free of scrap materials including, but not limited to refuse and abandoned or derelict vehicles, equipment, and buildings.

### **C** - Site Preparation

- 1) The permittee, prior to commencing operations, shall establish suitable corner posts or rock cairns at least one-metre high and carry out suitable blazing of trees, placement of flagging, erection of fencing, or other appropriate methods to outline the area under Quarry Permit.
- 2) All boundary markings shall be maintained during the term of the Quarry Permit.
- 3) The area to be excavated shall be cleared of all vegetation prior to the removal of any quarry materials. Unless otherwise approved by the Minister, only an area necessary for the term of the Quarry Permit shall be cleared. The nearest Forestry Management office must be contacted to obtain any necessary wood cutting permits and instructions regarding the salvage of wood.

### **D** - Quarry Operations

- 1) The permittee shall conduct quarry operations in an efficient manner.
- 2) All trees must be removed and grubbing carried out within five metres of the active quarry and stockpile areas; these activities shall remain within the boundaries of the quarry permit. Prior to stockpiling the grubbing material, any topsoil shall be separated and stockpiled separately. The permittee shall ensure that the quality of the topsoil is not affected by dilution with other materials.
- 3) Quarrying shall be conducted in a systematic manner taking in to account the life expectancy of the operation, the eventual slopes upon completion, the potential after-use of the site, and the various potential end-product uses of quarry materials available at the site.
- 4) Where mobile crushing and/or screening equipment is used to process quarry materials, Section 414 of the Occupational Health and Safety Regulations require, as applicable, equipment to have dust controls, adequate mechanical exhaust system(s), and adequate water spray system(s).
- 5) Noise and dust shall be mitigated on site if a sensitive receptor is within 500 metres from the Quarry Permit operation and/or for environmental reasons and in accordance with applicable industrial and environmental standards, regulations, and guidelines.
- 6) If blasting is required, it shall be performed under the direct supervision of a blaster who is present at the project and who holds a valid blaster's certificate which authorizes the performance of the particular type of work that the blaster is to conduct or supervise.
- 7) If blasting is required, the permittee and/or blaster must notify, in writing, all sensitive receptors within 500 m of the blast site.
- 8) If blasting is required, a drill and blast design plan shall be prepared by a qualified individual and monitoring for ground vibration and overpressure shall be carried out by the blaster to ensure compliance with appropriate guidelines. The drill and blast design plan shall include, as a minimum, the following:
  - a) PPV and design peak sound pressure level at 300 m radius from the area of the blast or to nearest utility, residence, structure, or facility;
  - b) Number, pattern, orientation, spacing, size, and depth of drill holes;
  - c) Collar and toe load, number and time of delays, and mass and type of charge per delay;
  - d) Setback distances to affected fish habitat;
  - e) The explosive products to be used; and

f) The designated blast area.

The drill and blast design plan shall be kept on site at all times.

9) If blasting is required, a pre-blast survey shall be prepared for all buildings, utilities, structures, water wells,

sewage disposal systems, and other facilities likely to be affected by the blast. The standard inspection procedure shall include the provision of an explanatory letter to the owner or occupant with a formal request for permission to carry out an inspection and to obtain any necessary water samples for analysis and flow testing. The pre-blast survey shall include, as a minimum, the following information:

- a) Type of structure, including type of construction and if possible, the date when built;
- b) Identification and description of existing differential settlements, including visible cracks in walls, floors, and ceilings, including a diagram, if applicable, room-by-room. All other apparent structural and cosmetic damage or defect shall also be noted. Defects shall be described, including dimensions, wherever possible; and
- c) Digital photographs or digital video or both, as necessary, to record areas of significant concern.

Photographs and videos shall be clear and shall accurately represent the condition of the property. Each photograph or video shall be clearly labelled with the location and date taken.

A copy of the pre-blast survey, including copies of any photographs or videos that may form part of the report shall be provided to the owner of that residence or property, upon request.

- 10) If blasting is required, it shall only be carried out during daylight hours and at a time when atmospheric conditions provide clear observation of the blast from a minimum distance of 500 metres.
- 11) If blasting is required, it shall not be carried out on a holiday or between the hours of 6 PM on any day and 8 AM the following day. These time constraints do not apply if it can be demonstrated that a sensitive receptor does not exist within 1000 metres of the Quarry Permit.
- 12) If blasting is required, all fly rock shall be contained within the Quarry Permit via the use of blast mats, adjustment of drill and blast plan, or other appropriate operational measures.
- 13) Benching or other operational processes may be necessary to allow for the extraction of specific types of quarry materials or to prevent the contamination of relatively high quality materials by low quality materials. High quality materials shall not be used when lower quality would be adequate (e.g. materials suitable for hot-mix asphalt applications shall not be used for fill or road subgrade applications), unless contract requirements specify otherwise.
- 14) Without written permission of the Minister, quarry faces and bench heights shall be maintained in accordance with Section 409(2) of the Occupational Health and Safety Regulations. Specifically,
  - a) the bench/face height quarries developed in unconsolidated material shall not exceed five metres and not be higher than can be reached safely with the equipment in use;
  - b) the bench/face height of quarries developed in consolidated (bedrock) shall not exceed ten metres and not be higher than can be reached safely with the equipment in use;
  - c) where there are two or more benches, berms shall be constructed on the second and higher benches to prevent material from falling to a lower bench;
- 15) Progressive rehabilitation is required for all operations throughout the term of the Quarry Permit.

### **E** - Termination of Operations and Rehabilitation

- 1) Not less than thirty days prior to removing equipment from the Quarry Permit, the permittee shall notify the Department to arrange for an inspection of the site.
- 2) Prior to progressive or final rehabilitation of any part of the site, the site shall be inspected for waste materials (e.g. petroleum

products, garbage, plastics, metal, and waste equipment). Any waste materials shall be removed from the site and taken to an approved waste disposal facility.

- 3) Upon completion of the operation or during extended periods of shutdown, where the quarry haul road accesses directly onto a provincial road/highway, municipal road, or publicly accessible road, the quarry haul road shall be barricaded (e.g. ditch/berm, gate) to the satisfaction of the Department.
- 4) The Department may require the permittee to perform maintenance on the portion of the quarry haul road that accesses directly onto a provincially maintained road/highway, municipal road, or publicly accessible road. Any maintenance to be performed on the quarry haul road or access from the road shall be at the expense of the permittee.
- 5) For final rehabilitation, quarries developed in unconsolidated material (sand and gravel) shall be sloped at 3:1; and quarries developed in consolidated (bedrock) sloped at 2:1. If approved by the Department, the slopes may conform to that which existed prior to quarrying and/or be left at a safe angle of repose. Surplus overburden may also be used to attain proper slopes; grubbing shall then be spread uniformly over the slopes.
- 6) If approved by the Department, if there is insufficient overburden available on site, clean inert fill may be imported for the purposes of carrying out final rehabilitation described in Paragraph E(5).
- 7) If approved by the Department, if there is insufficient grubbing to completely re-cover the site after sloping is complete, an additional organic substitute material shall be used to complete the process, provided that no invasive species are introduced. Acceptable substitute materials are straw, hay, trees having been cut in other parts of the quarry area, or ground vegetation produced by seeding.
- 8) If approved by the Department, final rehabilitation of the quarry site as outlined in Condition E(5) may not be required, where the Department confirms that the excavated portion(s) of the Quarry Permit contains sufficient reserves of quarry materials for future use. In this case, final rehabilitation may be required only for depleted areas of the site. Sloping and seeding of remaining topsoil and overburden stockpiles may be required.
- 9) Upon surrender, cancellation or expiration of the Quarry Permit, the permittee shall, within thirty days after the surrender, cancellation or expiration, remove from the permit area any buildings, machinery, chattels, personal property and quarry material which have been extracted. In default of doing so, the Minister may sell or otherwise dispose of the said buildings, machinery, chattels, personal property and quarry material under such terms and conditions as is considered appropriate. In the event that the cost of disposing of the said buildings, machinery, chattels, personal property and quarry material exceeds the amount recovered by the Minister, the permittee shall pay to the Minister any deficiency.
- 10) A complete report, on the form available from the Department, stating the actual quantity and type of material removed under this permit shall be filed with the royalty payment referred to in Condition A(3) of this Quarry Permit.

"Special Terms" additional to the above terms and conditions:

Copies of all required permits or other authorizations must be submitted to this office prior to commencing any work. Failure to abide by this condition will result in cancellation of the quarry permit.

Permit to be issued for one year only. For operations beyond the one year issuance, a Quarry Lease under Section 8(9) of the quarry materials Act will be required. It is recommended that you initiate the preparation of lease plans as soon as possible so that the lease is ready for authorization before or upon expiry of the quarry permit.

Under Section 15 of the Quarry Materials Act, SNL1998, a Quarry Materials Compliance Officer can complete a site inspection at any time. Upon completion of an inspection, you will receive a Quarry Compliance Assessment Report that will identify any non-compliance issues and any observations made at the time of inspection. A blank copy of this report is attached for your reference and can be found online at www.gov.nl.ca/iet/mines/quarries. It is recommended that you read the attached inspection report and familiarize yourself with the requirements of operating a quarry.

Site must be operated in a systematic manner taking into account the life expectancy of the operation and the eventual slopes upon completion. Progressive rehabilitation is required throughout the life expectancy of the operation.

All quarry related activities (e.g. equipment, stockpiles etc.) must remain within the approved quarry permit boundaries.

By holding a permit on this site, Pennecon Marine Base Ltd. is inheriting the responsibility for remediation of all existing and future disturbances (e.g., draining water, final rehabilitation, etc.).

As per condition D(2) of the quarry permit standard terms and conditions, all trees and grubbing must be removed within 5 metres of the active quarry and stockpile area. Prior to stockpiling the grubbing material, any topsoil must be separated and stockpiled separately. These materials must remain on site for final rehabilitation of the quarry site. Prior to commencing operations, the department requires that you provide an outline of where stripped grubbing and topsoil will be stockpiled within the permit boundary.

The location of topsoil and grubbing material can be outlined on a map (i.e. a Google Earth map that shows the site boundary) with the location of these materials clearly indicated where they will be stored and stockpiled within the quarry permit boundary.

When scheduling blasting activities, the proponent shall provide the coordinates and time of blasting to NAV CANADA so that it may be issued in a Notice to Airmen (NOTAM). This would also serve as a notice to other low flying aircraft (ie. helicopters, off-shore aircraft, etc.) to avoid these areas at specified times.

In the event blasting is required, ensure that the Blasting Requirements of Part XIX of the NL OHS Regulations are followed.

Must notify NAV CANADA at least 10 business days prior to the start of any blasting activities.

All on-site fuel storage must be registered with the Department of Digital Government and Service NL.

At no time are fuel tanks to be located such that refueling is conducted by gravity flow.

Spills in excess of 70 litres and all leaks must be reported immediately to the 24-hour spill-report number (call 709-772-2083) or 1-800-563-9089.

All spills and leaks, regardless of volume, must be cleaned up immediately and the affected area inspected and given clearance by the Department of Digital Government and Service NL.

Access must be restricted at the boundary of the quarry to prevent unauthorized access.

A commercial cutting permit is required prior to any clearing at the site and, during the declared fire season (usually May 1st to October 15th), an operating permit also is required.

There is a trail located towards the northwest of the proposed boundary - see attached Google Image. Proponent is required to revise the boundary to account for this trial and provide a 15 metre setback prior to issuance of this permit.

The Wildlife Division advises the applicant to operate under the established regulations and guidelines with respect to mitigating disturbance of wildlife and its habitat (e.g., nesting birds, caribou, waterfowl, wetlands, inland fish, rare plants, riparian species) - see Section 106 of the Wildlife Regulations to the Wildlife Act (O.C. 96-809): www.env.gov.nl.ca/env/wildlife/index.html).

Pursuant to Section 106 of the Wild Life Regulations: A person shall not operate an aircraft, motor vehicle, vessel, snow machine or all-terrain vehicle in a manner that will harass any wildlife.

Habitat disturbance and noise impact the wildlife (birds and animals) and should be kept to a minimum, especially during the nesting, breeding and brood-rearing season (approximately May to mid-July) and, in order to reduce negative impacts on any species, vegetation clearing and excessive noise should only occur outside of this most critical period. Where vegetation clearing cannot be avoided and an active nest is found during the breeding season, the nest and surrounding vegetation are to be left undisturbed and construction activities minimized in the immediate vicinity of the nest until the young have fledged and left the area.

The Wildlife Division recommends no activity within 30 metres of waterbodies and wetland areas to protect sensitive riparian and aquatic species and their habitat.

No vegetation clearing is to occur within 800 metres of a bald eagle or osprey nest during the nesting season (March 15 to July 31) and 200 metres during the remainder of the year. The 200m buffer also applies to all other raptor nests (e.g. Northern Goshawk, Sharp-shinned Hawk, Merlin, American Kestrel, Great-horned Owl, Boreal Owl, Northern Saw-whet Owl). The location of any raptor nest site must be reported to the Wildlife Division.

The Migratory Birds Convention Act, 1994, Migratory Bird Regulations, Wild Life Act and Wild Life Regulations protect birds and prohibit the disturbance or destruction of bird nests and eggs in Canada. Proponents are advised to develop and implement appropriate preventative and mitigation measures to avoid incidental taking of birds, nests and eggs.

Certain species of migratory birds (e.g. Bank Swallows) may nest in large piles of soil left unattended-unvegetated or quarry excavation faces during the most critical period of the breeding season (April 15th through August 15th). To discourage this activity, the proponent must consider preventative measures such as sloping of excavation faces and stockpiles to prevent migratory birds (e.g. bank swallows) from establishing nests in excavation faces/stockpiles.

Should migratory birds occupy stockpiles or excavation faces, any industrial activities (including hydro seeding) will cause disturbance to these migratory birds and inadvertently cause the destruction of nests and eggs. Alternate measures will then need to be taken to reduce potential for erosion, and to ensure that nests are protected until chicks have fledged and left the area.

For species such as Bank Swallows, the period when the nests would be considered active would include not only the time when birds are incubating eggs or taking care of flightless chicks, but also a period of time after chicks have learned to fly, because Bank Swallows return to their colony to roost.

There is no open season for any wildlife species that is not named in the annual hunting and trapping orders. The proponent must follow appropriate hunting and trapping protocols as set in the annual Hunting and Trapping Guide. Proponents are advised to develop and implement appropriate preventative and mitigation measures to avoid incidental take of wildlife species.

The proponent must, generally, ensure that activities associated with the Quarry Operations are conducted in compliance with the Occupational Health & Safety Act and its Regulations. This includes the responsibility for ensuring that contractors hired to perform the work also comply with this regulation, as per OHS Act s.10.

A Permit is required under the Water Resources Act, 2002, specifically Section 48 http://assembly.nl.ca/Legislation/sr/statutes/w04-01.htm for any work in any body of water (including wetland) including but not limited to culverts, bridges, diversion channels, etc. Contact: Manager, Water Rights, Investigations and Modelling Section -(709)729-2295 or waterinvestigations@gov.nl.ca.

Effluent or runoff leaving a site must conform to the Environmental Control Water and Sewage Regulations, NLR 65/03. (http://assembly.nl.ca/Legislation/sr/regulations/rc030065.htm). This will include, but may not be limited to water removed from the quarry, aggregate wash water, surface runoff and groundwater.

Infilling within 15 metres of Bodies of Water: The proponent must apply for and obtain a permit under the Water Resources Act, 2002, specifically Section 48 http://assembly.nl.ca/legislation/sr/statutes/w04-01.htm for any infilling work within fifteen (15) metres of a body of water prior to the start if infilling. Also, any proposed infilling within fifteen (15) metres of a body of water prior to the start if and Environment's Policy for Infilling Bodies of Water: http://www.mae.gov.nl.ca/waterres/regulations/ploicies/bodies\_of\_water.html

e proponent must apply for and obtain a permit under the Water Resources Act, 2002,

specifically Section 48 http://assembly.nl.ca/Legislation/sr/statutes/w04-01.htm for any

work in Shore Water Zones prior to the start of construction. Also, any work in the Shore

Water Zones must comply with this Department's Policy for Development in Shore Water Zones: http://www.mae.gov.nl.ca/waterres/regulations/policies/shore\_water.html .

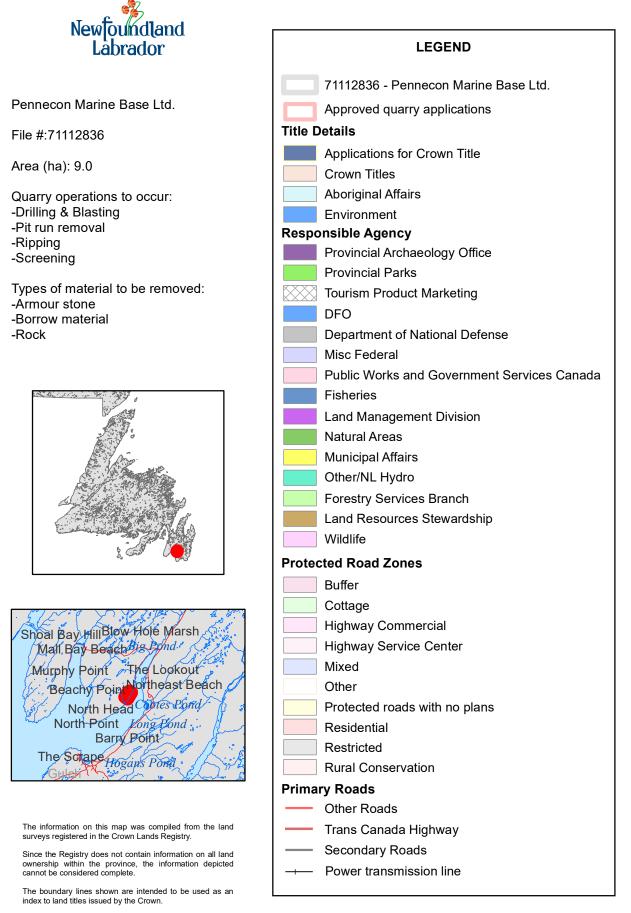
See Town for applicable permits.

For

Minister of Industry, Energy and Technology

Date: 14-Dec-2020





Note: All symbols and classifications may not occur on this map.



### **Quarry Compliance Assessment Report**

### Introduction

This Quarry Compliance Assessment Report has been prepared by a Quarry Materials Compliance Officer based on a site inspection completed to determine compliance with the **Quarry Materials Act** and the **Quarry Materials Regulations**.

# Part 1. Background Information

Permit/Lease Holder:

| File Number:                            | Area of site (hectares): | Municipality:       |
|---|--------------------------|---------------------|
| Materials approved for quarrying:       |                          | Inspector:          |
| Type of Operations:                     |                          | Date of Inspection: |
| Status of quarry at time of inspection: |                          |                     |

| Note: For any item identified as requiring Rem | edial Action; details are o | outlined in    | Part 3 |     |                 |                |
|--|-----------------------------|----------------|--------|-----|-----------------|----------------|
| Operating Standards                            | Standard Terms<br>Reference | In compliance? |        |     | Remedial Action |                |
|  |                             | Yes            | No     | N/A | Deadline Date   | Date Completed |
| 1. Boundaries                                  |                             |                |        |     |                 |                |
| A: Boundary Markings                           | Section C; 1,2              |                |        |     |                 |                |
| B: Disturbed Hectarage                         | Section C; 1,2              |                |        |     |                 |                |
| 2. Entrances and Exits                         |                             |                |        | 11  |                 | L              |
| A: Location                                    | Section A; 1B, B; 7         |                |        |     |                 |                |
| B: Entrance(s) Restricted                      | Section B; 3                |                |        |     |                 |                |
| 3. Site Visibility                             |                             |                |        | 1 1 |                 |                |
| A: Screening (trees/berms)                     | Section A; 4, 5             |                |        |     |                 |                |
| 4. Setbacks/Buffers                            |                             |                |        | 1 1 |                 |                |
| A: Wetlands (30m) / Waterbodies(50m)           | Section B; 1F, 6            |                |        |     |                 |                |
| B: Roads (50m, 90m or other)                   | Section B; 1C, 1E           |                |        |     |                 |                |
| C: Private Property (15m)                      | Section B; 1B               |                |        |     |                 |                |
| D: Other:                                      |                             |                |        |     |                 |                |
| 5. Stripping of Vegetation & Overburder        | n                           |                |        |     |                 |                |
| A: Stripped 5m back from excavation face       | Section B; 2, C; 3,<br>D; 2 |                |        |     |                 |                |
| B: Stockpile(s)                                | Section D; 2                |                |        |     |                 |                |

| Operating Standards                        | Standard Terms<br>Reference   | In compliance? |    |     | Remedial Action |                |
|--|-------------------------------|----------------|----|-----|-----------------|----------------|
|  |                               | Yes            | No | N/A | Deadline Date   | Date Completed |
| 6. Topsoil                                 |                               |                |    |     | •               |                |
| A: Screened                                | Section B; 2, D; 2            |                |    |     |                 |                |
| B: Stockpile(s)                            | Section B; 2, D; 2            |                |    |     |                 |                |
| 7. Excavation Face Height & Stability      |                               |                |    | -   |                 |                |
| A: Consolidated (bedrock)                  | Section D; 13, 14B            |                |    |     |                 |                |
| B: Unconsolidated (sand, gravel)           | Section D; 13, 14A            |                |    |     |                 |                |
| C: Other:                                  |                               |                |    |     |                 |                |
| 8. Stockpile Height & Stability            |                               |                |    | -   |                 |                |
| A: Height                                  | Section D; 14A                |                |    |     |                 |                |
| B: Stability/Other:                        |                               |                |    |     |                 |                |
| 9. Equipment on Site                       |                               |                |    |     |                 |                |
| A: Good Repair and Working Order           | Section B; 9                  |                |    |     |                 |                |
| 10. Scrap Material                         |                               |                |    |     |                 |                |
| A: Free of scrap and/or refuse materials   | Section B; 10                 |                |    |     |                 |                |
| 11. Imported Material                      |                               |                |    |     |                 |                |
| A: Asphalt                                 | Section B; 10<br>GD-PPD-008.2 |                |    |     |                 |                |
| B: Concrete                                | Section B; 10<br>GD-PPD-045.2 |                |    |     |                 |                |
| C: Other:                                  | Section B; 10                 |                |    |     |                 |                |
| 12. Surface Water & Drainage               |                               |                |    |     |                 |                |
| A: Surface Water Accumulation              | Section B; 8                  |                |    |     |                 |                |
| B: Drainage                                | Section B; 6, 8               |                |    |     |                 |                |
| 13. Sedimentation Controls                 |                               |                |    |     |                 |                |
| A: Sediment Screen(s)                      | Section B; 4, 6               |                |    |     |                 |                |
| 14. Internal Roads                         |                               |                |    |     |                 |                |
| A: Condition of Internal Roads             | OH&S Regulation<br>655        |                |    |     |                 |                |
| B: Berms/Protective curbs                  | OH&S Regulation<br>655        |                |    |     |                 |                |
| C: Access to Excavation Face Restricted    | OH&S Regulation<br>655        |                |    |     |                 |                |
| 15. Buildings/Scales                       |                               |                |    |     |                 |                |
| A: Approval(s) & Condition of Structure(s) | Section B; 9                  |                |    |     |                 |                |
| 16. Orderly Conditions                     |                               |                |    |     |                 |                |
| A: Tidy & Organized Operations             | Section D; 1, 3               |                |    |     |                 |                |
| 17. Settling Ponds                         |                               |                |    |     |                 |                |
| A: Required Approval(s)                    | Section B; 8                  |                |    |     |                 |                |

| Operating Standards                                  | Standard Terms<br>Reference   | In compliance? |    |     | Remedial Action |                |
|--|-------------------------------|----------------|----|-----|-----------------|----------------|
|  |                               | Yes            | No | N/A | Deadline Date   | Date Completed |
| 18. Onsite Fuel Storage                              |                               |                |    |     |                 |                |
| A: Fuel Storage (Registration with<br>Service NL)    | Special Terms &<br>Conditions |                |    |     |                 |                |
| B: Spills (Remediation & Reporting to<br>Service NL) | Special Terms &<br>Conditions |                |    |     |                 |                |
| 19. Blasting   |                               |                |    |     |                 | •              |
| A: Approval for Blasting                             | Section D; 6-12               |                |    |     |                 |                |
| 20. Dust Suppression                                 |                               | •              | •  |     |                 |                |
| A: Dust Control Measures                             | Section D; 5                  |                |    |     |                 |                |
| 21. Progressive/ Final Rehabilitation                |                               |                |    |     |                 | •              |
| A: Progressive Rehabilitation                        | Section D;15                  |                |    |     |                 |                |
| B: Final Rehabilitation                              | Section E                     |                |    |     |                 |                |
| Special Terms & Conditions & other real              | quired approvals              |                |    |     |                 |                |
| 24.  |                               |                |    |     |                 |                |
| 25.  |                               |                |    |     |                 |                |
| 26.  |                               |                |    |     |                 |                |
| 27.  |                               |                |    |     |                 |                |
| 28.  |                               |                |    |     |                 |                |
| 29.  |                               |                |    |     |                 |                |
| 30.  |                               |                |    |     |                 |                |
| 31.  |                               |                |    |     |                 |                |
| 32.  |                               |                |    |     |                 |                |
| 33.  |                               |                |    |     |                 |                |

| Other Required Permits | Issuing Department/Agency | Copy Submitted to<br>DNR |
|------------------------|---------------------------|--------------------------|
|                        |                           |                          |
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## **General Comments**

| Part 3. Remedial Actions  |                          |               |  |  |  |  |  |
|---|--------------------------|---------------|--|--|--|--|--|
| Please review the actions below regarding the necessary remedial actions required for deficiencies outlined in Part 2. To extend the remedial action deadline date, you must obtain written approval from the issuing Quarry Materials Compliance Officer prior to the deadline date. |                          |               |  |  |  |  |  |
| Operating Standard  | Remedial Action Required | Deadline Date |  |  |  |  |  |
|   |                          |               |  |  |  |  |  |
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|   |                          |               |  |  |  |  |  |
|   |                          |               |  |  |  |  |  |

# Part 4. Inspector Signature & Contact Information Inspector Signature:

Date:

Inspector Contact Information: