

Conservation

Environmental Stewardship Division
Environmental Assessment and Licensing Branch
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www.gov.mb.ca/conservation/envapprovals

**FAXED** 

Client File: File: 4673.00

November 28, 2007

Billy Malenfant
Project Engineer
Berger Peat Moss Ltd.
121, R.R. 1
Saint-Modeste, Quebec G0L 3W0

Dear Mr. Malenfant:

Further to the Notice of Alteration for the relocation of the peat processing plant, as approved on October 19, 2005, and whereas the ownership of the licensed Development has changed from Berger Group Ltd. to Berger Peat Moss Ltd., enclosed please find, as per your verbal request, the revised Environment Act Licence No. 2581 R.

In addition to the enclosed Licence requirements, please be informed that all other applicable federal, provincial and municipal regulations and by-laws must be complied with.

Yours truly,

Tracey Braun, M.Sc.

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Director

Environment Act

Enc.

cc: John Irwin, Eastern Regional Director

cc: R.M. of Reynolds

NOTE: Confirmation of Receipt of this Licence No. 2581 R (by the Licencee only) is required by the Director of Environmental Assessment and Licensing. Please acknowledge receipt by signing in the space provided below and faxing a copy back to the Department by December 3, 2007.

On behalf of Berger Peat Moss Ltd.

Date

\*\*A COPY OF THE LICENCE MUST BE KEPT ON SITE AT THE DEVELOPMENT AT ALL TIMES\*\*





# LICENCE

Licence No./Licenc	ee n°	2581 R
Issue Date/Date de	délivrance _	November 18, 2002
	REVISED:	November 28, 2007

In accordance with The Environment Act (C.C.S.M. c. E125)/ Conformément à la Loi sur l'environnement (C.P.L.M. c. E125)

Pursuant to Sections 11(1) and 14(2)/Conformément au Paragraphes 11(1) and 14(2)

THIS LICENCE IS ISSUED TO:/CET LICENCE EST DONNÉ À:

### BERGER PEAT MOSS LTD.; "the Licencee"

for the construction and operation of the Development, being a peat mine comprised of and associated with:

- a peat mine site located in the St. Labre Bog on all, or parts, of Sections 22 to 27, and 34 to 36, Township 6, Range 12 EPM, in the Rural Municipality of Reynolds, comprised of 1,583 hectares of Crown Land;
- the construction of a 6 km access/haulage road from Provincial Road 505 to the staging area of the peat mining project, mainly over existing logging roads and trails;
- the construction of a 2.4 km bog access road to the Phase IV site of the project area;
- the construction and operation of a peat processing and packaging plant, and finished goods storage on Parcel 1 and Parcel 2 of River Lot 38-8-12 EPM in the R.M. of Reynolds;

#### in accordance with:

- 1) the Proposal dated July 16, 2001, and received by Manitoba Conservation under The Environment Act on August 3, 2001;
- 2) additional submitted information dated April 18, 2002, July 29, 2002, October 4, 2002, November 4, 2002, and November 7, 2002; and
- 3) a Notice of alteration dated October 6, 2005, and approved by the Director on December 16, 2005 respecting the relocation of the site of the peat processing and packaging plant from the originally proposed bog area to (following a public hearing held by the R.M. of Reynolds on September 27, 2005):

and subject to the following specifications, limits, terms and conditions:

#### **DEFINITIONS**

In this Licence,

"accredited laboratory" means an analytical facility accredited by the Standard Council of Canada (SCC), or accredited by another accrediting agency recognized by Manitoba Conservation to be equivalent to the SCC, or able to demonstrate, upon request, that it has the quality assurance/quality control (QA/QC) procedures in place equivalent to accreditation based on the international standard ISO/IEC 17025, or otherwise approved by the Director;

<sup>\*\*</sup> A COPY OF THIS LICENCE MUST BE KEPT ON SITE AT THE DEVELOPMENT AT ALL TIMES \*\*

- "active mining area" means any field within the project area of the Development, which has undergone preliminary induced drainage for access, and on which surface disturbance in preparation for peat mining has commenced, until such time as when the mined field has been isolated for water level control in preparation for the reclamation and restoration of the field;
- "approved" means approved in writing;
- "buffer zone" means a strip of undisturbed land comprised of in-situ vegetation;
- "dangerous goods" means dangerous goods as defined in the *Manitoba Dangerous Goods Handling and Transportation Act*, and regulations issued thereunder;
- "Director" means an employee of the department appointed as such by the Minister;
- "drainage water" means surface or sub-surface water induced, by reason of constructed drains, to drain towards a final discharge point of the Development, but does not include surface runoff diverted around an active mining area nor preliminary induced drainage;
- "effluent" means drainage water released into the environment;
- "final discharge point" means an effluent quality control point designated as such through the provisions of this Licence, unless otherwise re-designated in writing by the Director;
- "fugitive emissions" means suspended particulate matter windblown into the atmosphere and offsite from any source on-site of the Development;
- "particulate matter" means any finely divided liquid or solid matter other than water droplets;
- "peat or peat moss" means the moderate to heavily decomposed organic matter of dead vegetation found primarily in the fens and bogs of wetland environments, that has accumulated in varying depths by depositional means over a long period of time;
- "peat mining" means the excavation, harvesting or removal of peat or peat moss for commercial purposes;
- "preliminary induced drainage" means induced surface and subsurface drainage, off an area intended to be mined, to the extent as may be required to facilitate access to, and the construction of, sedimentation ponds incorporating final discharge points;
- "project area" means all that area within the outer perimeter boundaries of the Quarry Leases shown in Appendix 'B' attached to this Licence;
- "reclamation" means the activity which focuses on the after-use of mined peatland sites;

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- "restoration" means the re-establishment of a mined peatland site as a peatland with a functioning natural ecosystem with characteristics as close as possible to pre-mining conditions;
- "septage" means the sludge produced in individual on-site sewage disposal systems such as septic tanks;
- "sewage" means sewage as defined in *Manitoba Regulation 83/3000*, or any future amendment thereto, respecting private sewage disposal systems and privies;
- "Standard Methods for the Examination of Water and Wastewater" means the most recent edition of Standard Methods for the Examination of Water and Wastewater published jointly by the American Public Health Association, the American Waterworks Association and the Water Environment Federation; and
- "wastewater" means any liquid containing a pollutant (as defined in *The Environment Act*) which is designated for release into the environment.

# **GENERAL TERMS AND CONDITIONS**

This Section of the Licence contains requirements intended to provide guidance to the Licencee in implementing practices to ensure that the environment is maintained in such a manner as to sustain a high quality of life, including social and economic development, recreation and leisure for present and future Manitobans.

- 1. In addition to any of the limits, terms and conditions specified in this Licence, the Licencee shall, upon the request of the Director:
  - (a) sample, monitor, analyze and/or investigate specific areas of concern regarding any segment, component or aspect of pollutant storage, containment, treatment, handling, disposal or emission systems, for such pollutants or ambient quality, aquatic toxicity, leachate characteristics and discharge or emission rates, for such duration and at such frequencies as may be specified;
  - (b) determine the environmental impact associated with the release of any pollutant(s) from the Development; or
  - (c) provide the Director, within such time as may be specified, with such reports, drawings, specifications, analytical data, descriptions of sampling and analytical procedures being used, bioassay data, flow rate measurements and such other information as may from time to time be requested.
- 2. The Licencee shall, unless otherwise specified in this Licence:
  - (a) carry out all preservations and analyses of liquid samples in accordance with the methods prescribed in the Standard Methods for the Examination of Water and Wastewater or in accordance with equivalent preservation and analytical methodologies approved by the Director; and

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- (b) ensure that all analytical determinations are undertaken by an accredited laboratory.
- 3. The Licencee shall report all the information requested through the provisions of this Licence in a manner and form acceptable to the Director.

# SPECIFICATIONS, LIMITS, TERMS AND CONDITIONS

### Respecting the Pre-Development Phase

- 4. The Licencee shall:
  - (a) before commencing any surface disturbance or preliminary induced drainage of an intended mining area within the project area, and subject to Sub-clause 7(a)(iii) of this Licence, conduct, compile and submit to the Director for approval, such wildlife, habitat and/or vegetation surveys as deemed necessary by the Eastern Region of Manitoba Conservation for the specific area and time of year, whereby the Eastern Region of Manitoba Conservation should be contacted well in advance for instructions or direction on which surveys will be required; and
  - (b) before commencing and undertaking any surface disturbance or preliminary induced drainage of an intended mining area within the project area:
    - (i) transplant any visible rare, endangered or threatened species of vegetation which may be encountered on the site, to another equally suitable site in consultation with the Eastern Region Wildlife Manager; and
    - (ii) upon the completion of any transplantation activity, advise the Director, in writing, of the type and number of any plant species so transplanted and the location to which they were transplanted.

#### **Respecting Access Road Construction**

- 5. The Licencee shall not create any new borrow pit(s) for the construction of the access/haulage road and the upgrading of the east forestry fire road without prior consultation with, and the written concurrence of, the Eastern Region of Manitoba Conservation.
- 6. The Licencee shall not construct a stream crossing for the new access road at Unnamed Creek, until:
  - (a) the Director has received and approved the design details of the proposed stream crossing relative to the *Manitoba Stream Crossing Guidelines for the Protection of Fish and Fish Habitat* (DFO and MNR, 1996); and
  - (b) the proposed stream crossing has been permitted under the Navigable Waters Act.

## Respecting Land Use and Operational Activities

- 7. The Licencee shall restrict construction and operational activities related to the Development to:
  - (a) those lands to which the Licencee possesses:
    - (i) surface rights, or complete ownership, or a signed agreement with another person or legal entity respecting the use of any land to which that person or legal entity possesses the surface rights or complete ownership, wherein the agreement clearly identifies the party which accepts full responsibility for any environmental liabilities incurred by the activities of the Licencee;

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- (ii) applicable work permits and timber cutting permits, as may be required by Manitoba Conservation; and
- (iii) authorization for surface disturbance from the Director through Schedule 'C', attached to this Licence, which Schedule the Director may amend from time to time upon the receipt from the Licencee of satisfactory reports on wildlife, habitat and vegetation surveys conducted on the specific land areas within the overall project area, excepting:
  - (1) that area of roadway allowance for the new access/haulage road which is proposed up to and within the initial 4-phase project; and
  - (2) such minimal disturbance as may be necessary to provide for adequate preliminary induced drainage off any undisturbed phased-in area intended for mining; and
- (b) those lands within and adjacent to the project area which are at least 100 metres away from identified:
  - (i) riparian wildlife habitat along the Whitemouth River;
  - (ii) riparian wildlife habitat beside Unnamed Creek; and
  - (iii) riparian beaver flood habitat.
- 8. The Licencee shall restrict all mining of peat or peat moss within the project area of the Development to only those deposits located within:
  - (a) the boundaries of each Quarry Lease listed in Schedule 'C' attached to this Licence, and shown in Appendix 'B' attached to this Licence;
  - (b) the boundaries of the Crown Land respecting the northwest, southwest and southeast quarter sections of Section 26, Township 6, Range 12 EPM listed in Schedule 'C' attached to this Licence, and shown in Appendix 'B' attached to this Licence, where the mineral rights, being owned by Canpar Holdings Ltd., are on lease to the Licencee; and
  - (c) the boundaries as described in any future newly acquired Quarry Lease(s) of which the Director has been notified in writing, and has approved as an alteration to the licenced Development.
- 9. The Licencee shall, where practical, avoid draining and clearing any portion of the overall project area too soon in advance of its needs.
- 10. The Licencee shall design and construct the bog drainage system to ensure that the original water or groundwater level can be restored in the bog in the post-mining period.
- 11. The Licencee shall leave a buffer zone:
  - (a) along the interior of the entire perimeter of the project area (excepting the right-of-way allowance of the bog road) having a width of at least 100 metres and possessing a minimum of 50 centimetres in depth of peat;
  - (b) between any active mining area and the Whitemouth River, whereby the buffer zone should be at least 100 metres wide; and
  - (c) along such corridors within the project area, and to such a width as may be specified in writing by the Director in consideration of any recommendation(s) received from the Eastern Region Integrated Resource Management Team of Manitoba Conservation respecting a desirability for any windbreak or habitat corridors.

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- 12. The Licencee shall maintain at least 1.0 metre of in-situ peat throughout the bottom of any active mining area unless evidence provided by the Licencee, and satisfactory to the Director and the Eastern Region Integrated Resource Management Team of Manitoba Conservation, suggests that a residual depth of less than 1.0 metre but greater than 0.5 metres will not adversely affect the effluent quality leaving the Development, nor compromise the optimum regrowth rate of vegetation or otherwise adversely affect the reclamation objective of restoring the mined bog area(s) of this Development to a functioning wetland that may eventually succeed back to a sphagnum bog.
- 13. The Licencee shall, prior to commencing the surface disturbance of an undisturbed peat mining area that has been authorized to be prepared for mining, meet with and present to the Eastern Region Integrated Resource Management Team of Manitoba Conservation the mining plan for the newly authorized area, outlining and detailing
  - (a) the proposed drainage ditches;
  - (b) the proposed periphery and corridor buffer zones, where or if applicable;
  - (c) the depth of peat versus the proposed depth of mining; and
  - (d) the projected rates of water release, the projected effluent quality and the projected water quality impact on Unnamed Creek and the Whitemouth River, based on the compiled and reported sampling data collected pursuant to this Licence up to the time of the meeting;

whereupon any outstanding concerns brought to the attention of the Director by the Eastern Region Integrated Resource Management Team of Manitoba Conservation may be addressed through a revised conditional authorization of disturbance for the affected area.

#### 14. The Licencee shall:

- (a) implement a progressive reclamation or restoration program in each mined out field of the project area of the Development which is designated for restoration, and encourage the progressive restoration with appropriate water level controls and the transplanting of appropriate vegetation from undisturbed areas of the Development, in a manner consistent with a Closure Plan approved by the Director of the Mines Branch; and
- (b) consult a specialist in restoration ecology if the annual monitoring of the progression of the vegetation carpet, in any field undergoing restoration, suggests a progression rate which is unsatisfactory to the Director.

## Respecting Wildlife Habitat

15. The Licencee shall, where any potential wildlife habitat losses have been identified by Manitoba Conservation, consult with the Eastern Region wildlife staff of Manitoba Conservation with respect to the mitigation of the losses, and carry out any agreed upon mitigation measures to the satisfaction of the Director.

#### Respecting Drainage and Liquid Discharges

16. The Licencee shall not construct any engineered drains associated with the Development, nor release any drainage water from the Development, without the prior receipt of a Drainage Permit from the Water Branch of Manitoba Conservation.

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#### 17. The Licencee shall:

- (a) before commencing any drainage off a Quarry Lease area which borders the periphery of the project area shown in Appendices 'A' and 'B' attached to this Licence, place a series of five piezometers at distances of approximately 20, 40, 60, 80 and 100 metres from the outer edge of the site to be drained, and at two separate locations acceptable to the Director, along a line parallel to the direction of the flow of groundwater into the site of the Development being drained; and
- (b) whereupon evidence indicates that:
  - (i) the zone of measurable groundwater drawdown extends beyond the 100 metre mark; or
  - (ii) any existing piezometers no longer serve an area which is being actively drained; place additional or alternate piezometers at such locations and such distances as may be specified by the Director;

until the Director is satisfied that no additional piezometers are required.

#### 18. The Licencee shall:

- (a) prevent, as much as practical, natural surface runoff water from outside the boundaries of any active mining area of the Development by diverting such surface runoff water around the perimeter of the active mining area(s) of the Development;
- (b) subsequent to the commencement of preliminary induced drainage of an undisturbed area for reasons of access and the construction of sedimentation ponds, and prior to and throughout the activation of the respective undisturbed area through the commencement and the undertaking of surface disturbance or peat mining within the respective area, direct all drainage water associated with such an active mining area of the Development through one or more sedimentation ponds that are designed and constructed to achieve the effluent quality criteria specified in this Licence;
- (c) release the effluent from each sedimentation pond through a final discharge point being the V-notched weirs associated with the sedimentation pond(s), as identified in Appendix 'C' attached to this Licence;
- (d) register with the Director a list of all active final discharge points and their locations, and maintain the registered list in a current status at all times; and
- (e) release effluent from the Development through a final discharge point registered as active with the Director.

#### 19. The Licencee shall:

- (a) design and construct each final discharge point to facilitate the termination, if necessary, of the release of any effluent from the Development; and
- (b) design and equip each final discharge point with a manual flow rate measuring device, satisfactory to the Director, and adequate to measure the full range of instantaneous rates of discharge as may be expected to be released into the environment.
- 20. The Licencee shall not release any effluent from the Development where the release of the effluent would:
  - (a) cause a downstream flooding condition; or
  - (b) contribute to a forecast downstream flooding condition; or

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(c) further aggravate an existing flooding condition prevailing at that time;

downstream along the receiving Whitemouth River.

- 21. The Licencee shall not release any effluent from the Development if the quality of the effluent, as determined from the analysis of any grab sample taken of the effluent, is such that:
  - (a) the pH is less than 5.0 pH units;
  - (b) the pH of the effluent is causing, or contributing to, the pH of the receiving water at monitoring stations WQ 'B' and WQ 'C', as shown in Appendix 'A' attached to this Licence, to fall below the lessor of 6.5 pH units or the prevailing pH of the receiving stream at monitoring station WQ 'A'; or
  - (c) the suspended solids concentration is greater than 30 milligrams per litre.
- 22. The Licencee shall not release any effluent from the Development of such quality and quantity such as to:
  - (a) cause the water quality of either the Whitemouth River or the Unnamed Creek, as determined at the receiving stream water quality monitoring stations WQ 'B' and WQ 'C', to be adversely affected relative to the current *Manitoba Water Quality Standards*, *Objectives*, and *Guidelines*; or
  - (b) cause naturally elevated levels (i.e. in excess of the current *Manitoba Water Quality Standards*, *Objectives*, *and Guidelines*) in these surface waterways to be further degraded.
- 23. The Licencee shall:
  - (a) comply with Manitoba Regulation 83/2003, or any future amendment thereto, in regards to any sewage generated at the Development; and
  - (b) dispose any sewage and septage transported off-site from the Development into a facility which has an Environment Act Licence or Environment Act Permit authorizing the acceptance of sewage and septage.

## **Respecting Air Emissions**

- 24. The Licencee shall limit the discharge of fugitive emissions from any source within the site of the Development such that:
  - (a) distinct plume forming fugitive emissions do not exceed an opacity of 5%;
  - (b) non plume forming fugitive emissions are not visible at any time; and
  - (c) the ambient air quality downwind of the Development is protected to the extent that the measured ground level concentration of suspended particulate matter is not greater than 120 micrograms per cubic metre of air averaged over a 24-hour period;

when measured or viewed in the atmosphere beyond the property boundary of the Development.

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# **Respecting Solid Wastes**

- 25. The Licencee shall not deposit solid waste, as defined in *Manitoba Regulation 150/91* respecting waste disposal grounds, into the environment except into a waste disposal ground operating under the authority of;
  - (a) a permit issued pursuant to Manitoba Regulation 150/91, or any future amendment thereto; or
  - (b) a Licence issued pursuant to The Environment Act.

# Respecting Recyclable Wastes

- 26. The Licencee shall not deposit bulky metallic wastes, used tires, used oil or other fluid lubricants, hydraulic fluids, or any other class of recyclable waste substances as may be specified by the Director, into the environment except into:
  - (a) a facility or infrastructure which accepts such materials for recycling; or
  - (b) a waste disposal ground operating under the authority of:
    - (i) a permit issued pursuant to Manitoba Regulation 150/91, or any future amendment thereto; or
    - (ii) a Licence issued pursuant to The Environment Act;

where these recyclable substances are kept segregated from each other and are not buried (unless otherwise specified by the Director) so as to facilitate their future recycling.

## Respecting Dangerous Goods or Hazardous Wastes

- 27. The Licencee shall not store any petroleum products and allied products, dangerous goods or hazardous wastes at, or in the immediate vicinity of the active area(s) of the Development.
- 28. The Licencee shall comply with all the applicable requirements of:
  - (a) the more stringent requirements of the "National Fire Code of Canada2005", or any future amendment thereto, and Manitoba Regulation 188/2001 or any future amendment thereto, respecting the storage and handling of petroleum products and allied products; and
  - (b) The Manitoba Dangerous Goods Handling and Transportation Act, and regulations issued thereunder, respecting the handling, transport, storage and disposal of any dangerous goods brought onto or generated at the Development.

# Respecting Contingency Plans and Emergency Response Plans

- 29. The Licencee shall:
  - (a) within two months of the date of issuance of this Licence, submit to the Director, for approval, a proposed Emergency Response Plan, consistent with the "Industrial Emergency Response Planning Guide (MIAC, September, 1996)", or any future amendment thereto, to address such matters as fire suppression and control, and cleaning up spills involving dangerous goods (hazardous chemicals, petroleum products, etc.); and
  - (b) continually maintain the approved Emergency Response Plan in a current status for the duration of the Development.

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# Respecting Operational Monitoring, Record Keeping and Reporting

- 30. The Licencee shall, before any preliminary induced drainage out of the project area is initiated towards Unnamed Creek;
  - (a) collect samples of the water quality of Unnamed Creek at station WQ 'C', identified in Appendix 'B' attached to this Licence, for the purpose of establishing the prevailing natural background water quality of Unnamed Creek; and
  - (b) submit the results of the analytical data to the Director as soon as the data becomes available.
- 31. The Licencee shall, throughout the draining and mining of the project area of the Development, but only under conditions of effluent release:
  - (a) once per week, collect samples of the effluent at each final discharge point, and have them analyzed at such frequencies as specified in Schedule 'A' attached to this Licence, for such substances and characteristics as specified in Schedule 'B' attached to this Licence;
  - (b) once per week, measure and record the flow rate (in cubic metres per second) of effluent being released from each final discharge point of the Development, and use the weekly flow rate measurements to determine an estimate of the total monthly volumes (expressed in cubic metres) of effluent released from each final discharge point of the Development; and
  - (c) collect representative samples of the waters in the streams at stations WQ 'A', WQ 'B' and WQ 'C', identified in Appendix 'B' attached to this Licence, at such frequencies as specified in Schedule 'A' attached to this Licence, and have the samples analyzed for such substances and characteristics as specified in Schedule 'B' attached to this Licence;

unless otherwise specified in writing by the Director.

- 32. The Licencee shall, throughout the draining and mining of the peripheral Quarry Lease areas of the overall project area, measure the elevation of the water table in the installed piezometers, as well as at a representative reference location in the drainage ditches at the Development, in accordance with the frequency specified in Schedule 'B' attached to this Licence for such duration until otherwise specified by the Director.
- 33. The Licencee shall establish at least nine observation stations on each mined out field and annually monitor and record the progress of regrowth of sphagnum moss and other introduced plants in a manner satisfactory to the Director.
- 34. The Licencee shall submit to the Director the analytical data, and flow rate measurements and monthly estimates, and water table elevation data determined and recorded in accordance with Clauses 31 and 32 of this Licence no later than 30 days following the end of the month in which the samples and measurements were taken.
- 35. The Licencee shall submit an annual summary of all the analytical values, measurements and estimates determined and recorded pursuant to Clauses 31, 32 and 33 of this Licence, to the Director, in writing and in an electronic format acceptable to the Director, no later than February 28th of each year for the preceding year's data.

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## Respecting Decommissioning, Reclamation and Restoration

- 36. The Licencee shall:
  - (a) comply with *Manitoba Regulation 67/99*, or any future amendment thereto, issued under The Mines and Minerals Act, respecting closure plans for mining developments, particularly in regards to addressing environmental issues including, but not necessarily limited to:
    - (i) the implementation of any progressive restoration of those peat bog areas of the Development where mining has reached its terminal depth;
    - (ii) the decommissioning of any temporary fuel storage site used at or for the Development;
    - (iii) the decommissioning of access roads, stream crossings and power lines constructed for the Development;
    - (iv) the decommissioning, reclamation and restoration of the overall affected operational area of the Development;
    - (v) the restoration or replacement of wildlife or fish habitats disturbed, adversely affected or lost as a result of the Development;
    - (vi) the containment, control or treatment of pollutants originating from the mine site of the Development; and
    - (vii) the strategy, scope, frequency and duration of post-closure environmental monitoring activities at the mine site;

where applicable;

- (b) provide the Director with:
  - (i) written notice three months in advance of any imminent permanent closure of this Development; or
  - (ii) an immediate written notice of any sudden decision to temporarily close this Development whereby the Development would be placed in a mothballed state for re-opening in the foreseeable future; and
- (c) in the course of progressive reclamation and restoration, as well as upon the permanent or temporary closure of this Development, implement the environmentally related aspects of the Closure Plan approved pursuant to *Manitoba Regulation 67/99*, or any future amendment thereto, to the satisfaction of the Director.

## **REVIEW OR REVOCATION**

- A. This Licence replaces Environment Act Licence No. 2581, which is hereby rescinded.
- B. If, in the opinion of the Director, the Licencee has exceeded or is exceeding or has or is failing to meet the specifications, limits, terms, or conditions set out in this Licence, the Director may, temporarily or permanently, revoke this Licence.

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C. If, in the opinion of the Director, new evidence warrants a change in the specifications, limits, terms or conditions of this Licence, the Director may require the filing of a new proposal pursuant to Section 11 of The Environment Act.

Tracey Braun, M. Sc.

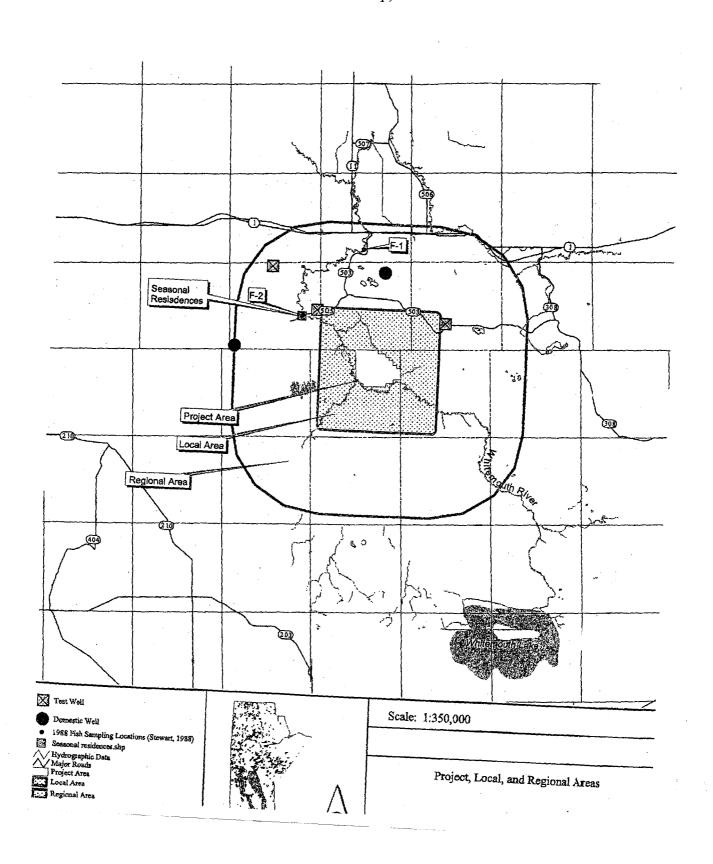
Director

**Environment Act** 

File: 4673.0

# APPENDIX 'A'

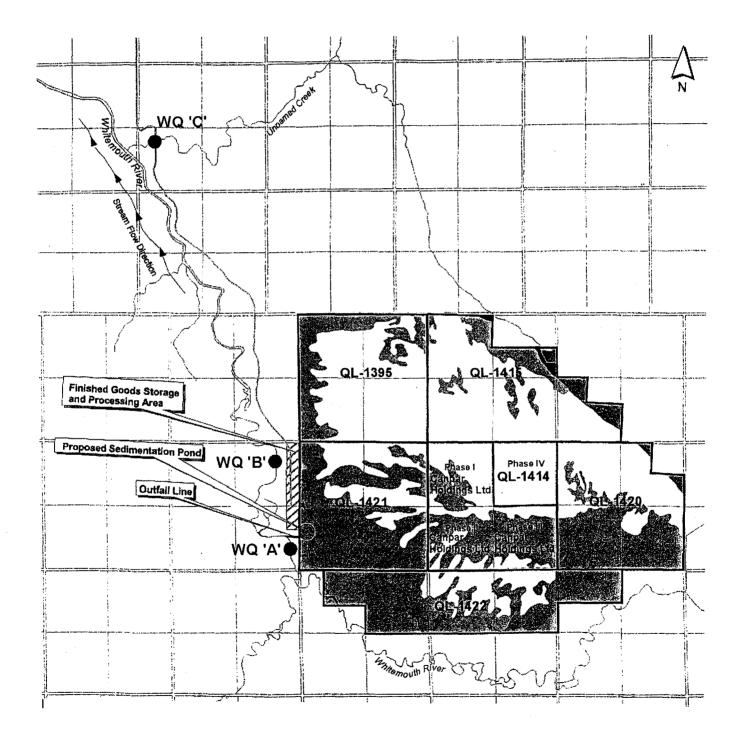
(Regional Map)



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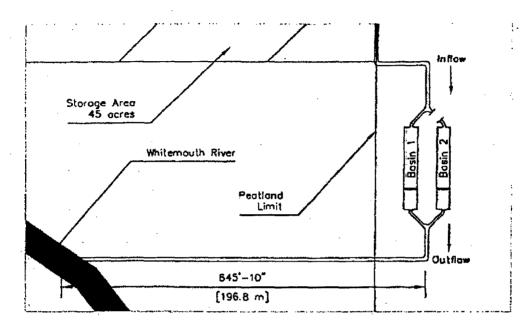
APPENDIX 'B'

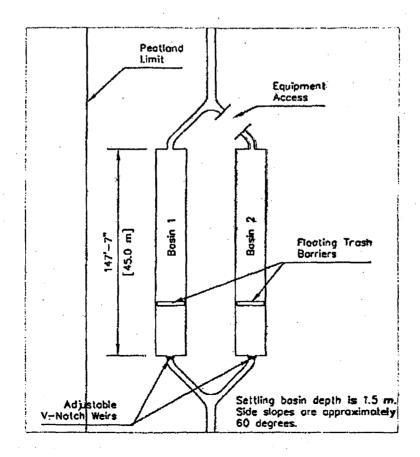
(Project Area, Quarry Leases & WQ Sampling Stations)



## APPENDIX 'C'

(Sedimentation Ponds & Final Discharge Point)





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# SCHEDULE 'A'

(Sampling Requirements)

AREA	SOURCE	LOCATION	SAMPLING FREQUENCY	DETERMINATIONS or ANALYSES
Bog Road Sed. Ponds	effluent to Whitemouth River	Final Discharge Point	weekly & 3x/year	See Schedule 'B'
Other Sed. Ponds	effluent to Unnamed Creek	Final Discharge Points	weekly & 3x/year	See Schedule 'B'
Whitemouth River	upstream of Sed. Ponds Outfall	Station WQ 'A' (see Appendix 'B')	3x / year	See Schedule 'B'
Whitemouth River	downstream of Sed. Ponds Outfall	Station WQ 'B' (see Appendix 'B')	3x / year	See Schedule 'B'
Unnamed Creek	upstream side of road crossing	Station WQ 'C' (see Appendix 'B')	3x / year	See Schedule 'B'

Note: The Director reserves the right to make future alterations to this Schedule in the interests of efficient management of the environment.

<sup>&</sup>quot;weekly" means once every seven days, but on an operating day.

<sup>&</sup>quot;3x / year" means once every spring freshet, mid-summer and late fall.

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## SCHEDULE 'B'

(Determinations and Analyses)

	SAMPLING STATIONS			
PARAMETERS /	FDP's FDP's, WQ 'A', WQ 'B', WQ 'C' Wel			Wells
CHARACTERISTICS / DATA	(weekly)_	(3x / Year)	(1x / Year)	(3x / Year)
Sampling Date	X	X	X	X
Piezometric Water Table Elevation				X
Flow Rate	X			
pH	X	X		
Total Alkalinity		X		
Acidity		X		
Conductivity		X		
Total Dissolved Solids		X		
Total Suspended Solids	X	X		
5-day Biochemical Oxygen Demand		X		
Calcium		X		
Magnesium		X		
Hardness		X		
Total Phosphorus (as P)		X		
Total Kjeldahl Nitrogen		X		
Total Ammonia (as N)		X		
Nitrate + Nitrite (as N)	· · · · · · · · · · · · · · · · · · ·	X		
Manganese		X		
Sulphates (as S)		X		
Total Aluminum		X		
Total Iron		X		
Total Zinc		X		
Total Chromium		X		
Total Nickel		X		
Total Cadmium		X		
Total Lead		X		
Complete Heavy Metals	<u></u>		X	<u> </u>

<sup>&</sup>quot;FDP's" means final discharge points.

**Note:** The Director reserves the right to make future alterations to this Schedule in the interests of effective environmental management.

<sup>&</sup>quot;weekly" means once every seven days, but on an operating day.

<sup>&</sup>quot;3x / year" means once every spring freshet, mid-summer and late fall.

<sup>&</sup>quot;1x / year" means once every mid-summer (i.e. at the same time that the 3x / year mid-summer sample is taken).

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## SCHEDULE 'C'

(Sites Proposed for Disturbance)

MAJOR SITES OF DISTURBANCE		PROPERTY OWNERSHIP	POTENTIAL AREA (Ha)	AUTHO Date (dd/mm/yy)	RIZATION FOR DISTURBANCE (Signature of Director)
<del></del>	H	·	(Fla)	(dd/HHH/yy)	(Signature of Director)
Processing & Storage Area	(1)	Crown Land	< 18		
NW 26-6-12 EPM	(2)	Crown Land *	64.75		
SW 26-6-12 EPM	(2)	Crown Land *	64.75		
SE 26-6-12 EPM	(2)	Crown Land *	64.75		
QL-1414	(2)	Crown Land	67.26		
QL-1395	(2)	Crown Land	270.90		
QL-1415	(2)	Crown Land	267.89		
QL-1420	(2)	Crown Land	268.80		
QL-1421	(2)	Crown Land	263.86		
QL-1422	(2)	Crown Land	250.09		

Total area of potential disturbance ≤ 1,601.05

- (1) Surface disturbance only
- (2) Surface mining proposed
- \* Mineral rights owned by Canpar Holdings Ltd. and leased to Berger Peat Moss Ltd.

**NOTE:** This Schedule may be amended from time to time by the Director in recognition of the Licencee having undertaken field wildlife, habitat and vegetation surveys for rare, protected and endangered species to the satisfaction of the Director.