

Environmental Approvals Branch Box 35, 14 Fultz Boulevard Winnipeg MB R3Y 0L6 T 204-945-8321 F 204-945-5229 EABDirector@gov.mb.ca

File No.: 628.10

December 11, 2023

Tim North
West/Central Bog Operations Manager
Sun Gro Horticulture Canada Ltd.
Box 100, 52080 Peat Moss Road
Elma MB R0E 0Z0
Tim.North@SunGro.com

Dear Tim North:

Re: Environment Act Licence No. 305 RR

Please find enclosed the Environment Act Licence in response to your proposal dated October 15, 2020. You wish to expand a peat harvesting operation located in the Evergreen Bog within the Rural Municipality of Lac du Bonnet.

Sun Gro Horticulture Canada Ltd. must follow all licence requirements and federal, provincial, and municipal regulations and by-laws. The licensee must get approval from the director per The Environment Act to alter the development.

Anyone affected by this decision may appeal, in writing, to the Minister of Environment and Climate Change at minecc@leg.gov.mb.ca by January 10, 2024. The licence is available on the public registry at https://www.gov.mb.ca/sd/eal/registries/index.html.

If you have any questions regarding this approval, please contact Allan Cyrenne, Acting Regional Supervisor, Environmental Compliance and Enforcement Branch at EnvCEEastern@gov.mb.ca or 204-485-6410.

Sincerely,

Original Signed By Agnes Wittmann Director The Environment Act

 Allan Cyrenne - Environmental Compliance and Enforcement Branch Brad Keller - Sun Gro Horticulture Canada Ltd.
 Shaun Moffatt - KGS Group

THE ENVIRONMENT ACT LOI SUR L'ENVIRONNEMENT



LICENCE

File No.: 628.10 Licence No. / Licence n°: 305 RR

Issue Date / Date de délivrance : September 7, 1973
Revised Date / Date de revise: February 5, 2018
Revised Date / Date de revise: December 11, 2023

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)

Under Sections 11(1) and 14(3) / Conformément au Paragraphe 11(1) et 14(3)

THIS LICENCE IS ISSUED TO: / CETTE LICENCE EST DONNÉE À:

SUN GRO HORTICULTURE CANADA LTD.; "the licensee"

for the construction, operation, and recovery of the development being a peat harvesting operation located in the Evergreen Bog within the Rural Municipality of Lac du Bonnet on portions of sections 3, 4, 5, 9, 10, 16, and 17, township 13, range 10EPM in the Evergreen 1, 2, and 3 sub-areas of Peat Harvesting Licence No. 3 issued under The Peatlands Stewardship Act, following the application considered by the Clean Environment Commission on August 13, 1973, a proposal dated October 15, 2020, additional information dated February 25, 2021, and April 20, 2021, and subject to the following specifications, limits, terms and conditions:

DEFINITIONS

In this licence,

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

"active harvesting area" means any prepared field within the development, which has undergone preliminary induced drainage for access, and on which surface disturbance in preparation for peat harvesting has commenced, until such time as when the harvested field has been isolated for recovery;

"approved" means approved in writing;

"buffer zone" means a strip of undisturbed land comprised of in-situ vegetation;

Sun Gro Horticulture Canada Ltd. Licence No. 305 RR Page 2 of 13

- "dangerous goods" means dangerous goods as defined in The Dangerous Goods Handling and Transportation Act, and its regulations or any future amendments;
- "director" means an employee so assigned under The Environment Act unless otherwise specified in the licence;
- "Director of the Forestry and Peatlands Branch" means the person appointed as the director under The Peatlands Stewardship Act or any future amendments;
- "Director of the Mines Branch" means the director of the branch responsible for administration of The Mines and Minerals Act or any future amendments;
- "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 harvesting area nor preliminary induced drainage;
- "effluent" means drainage water or treated wastewater released into the environment;
- "environment officer" means an employee so assigned under The Environment Act;
- "final discharge point" means an effluent quality control point as designated within this licence, unless otherwise re-designated in writing by the director;
- "floating debris boom" means a buoyant beam-like structure spanning the width of a sedimentation pond that is designed to contain buoyant materials;
- "Integrated Resource Management Team (IRMT)" means a regional management team made up of members of the Manitoba government organized to review natural resource issues;
- "noise nuisance" means an unwanted sound, in an affected area, which is annoying, troublesome, or disagreeable to a person:
- (a) residing in an affected area;
- (b) working in an affected area; or
- (c) present at a location in an affected area which is normally open to members of the public; if the unwanted sound:
- (d) is the subject of at least five written complaints, received by the director in a form satisfactory to the director and within a 90 day period, from five different persons falling within clauses (a), (b) or (c), who do not live in the same household; or
- (e) is the subject of at least one written complaint, received by the director in a form satisfactory to the director, from a person falling within clauses (a), (b) or (c) and the director is of the opinion that if the unwanted sound had occurred in a more densely populated area there would have been at least five written complaints received within a 90 day period from five different persons who do not live in the same household;
- "particulate matter" means any finely divided liquid or solid matter other than water droplets;
- "peat" means peat as defined in The Peatlands Stewardship Act, or any future amendments;
- "peat harvesting" means peat harvesting as defined in The Peatlands Stewardship Act, or any future amendments;

Sun Gro Horticulture Canada Ltd. Licence No. 305 RR Page 3 of 13

- "peat harvesting licence" means a peat harvesting licence as defined in The Peatlands Stewardship Act, or any future amendments;
- "peatland management plan" means a peatland management plan as defined in The Peatlands Stewardship Act, or any future amendments;
- "peatland recovery plan" means a peatland recovery plan as defined in The Peatlands Stewardship Act, or any future amendments;
- "preliminary induced drainage" means the induced surface and subsurface drainage, off an area intended to be harvested, to the extent as may be required to facilitate access to, and the construction of, sedimentation ponds incorporating final discharge points;
- "recovery" means land recovery as defined in The Peatlands Stewardship Act and associated Peatland Recovery Plan Guidelines, or any future amendment;
- "riparian area" means an area of land on the banks or in the vicinity of a waterbody, which due to the presence of water supports, or in the absence of human intervention would naturally support, an ecosystem that is distinctly different from that of adjacent upland areas (Source: The Water Protection Act);
- "sedimentation pond" means an impoundment that allows suspended sediment to settle out from drainage water before discharge;
- "septage" means the sludge produced in individual on-site sewage disposal systems such as septic tanks;
- "sewage" means sewage as defined in the Onsite Wastewater Management Systems Regulation, or any future amendment;
- "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 Water Works Association, and the Water Environment Federation;
- "water body" means any body of flowing or standing water, whether naturally or artificially created, and whether the flow or presence of water is continuous, intermittent or occurs only during a flood, including but not limited to a lake, river, creek, stream, slough, marsh, swamp and wetland, including ice on any of them (Source: The Water Protection Act); and
- "wastewater" means any liquid containing any pollutant(s) as defined in The Environment Act, associated with or resulting from the development and which requires treatment prior to being discharged into the environment.

GENERAL TERMS AND CONDITIONS

Retain Copy of Licence

1. The licensee must at all times maintain a copy of this licence at the development or at the premises from which the development's operations are managed.

Compliance

2. The licensee must adhere to the commitments made in the proposals dated August 13, 1973, for Evergreen 2 and 3 sub-areas and October 15, 2020, for Evergreen 1 sub-area as identified in Schedule A of this licence, additional information dated February 25, 2021 and April 20, 2021, and supporting information filed in association with the proposal and alteration during construction, operation, and land recovery of the development.

Future Sampling

- 3. In addition to any of the specifications, limits, terms, and conditions specified in this licence, the licensee must, upon the request of the director:
 - a) sample, monitor, analyze 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 development;
 - c) conduct specific investigations in response to the data gathered during environmental monitoring programs; or
 - d) 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, and such other information as may from time to time be requested.

Sampling and Analysis

- 4. The licensee must, unless otherwise specified in this licence:
 - a) carry out all preservations and analyses on liquid samples in accordance with the methods prescribed in the most current edition of "Standard Methods for the Examination of Water and Wastewater" or in accordance with equivalent preservation and analytical methodologies approved by the director;
 - b) carry out all sampling of, and preservation and analyses on, soil, compost, air samples or other samples in accordance with methodologies approved by the director;
 - c) have all analytical determinations undertaken by an accredited laboratory; and
 - d) report the results to the director, in an electronic format acceptable to the director, within 60 days of the samples being taken.

Reporting Format

5. The licensee shall submit all information required to be provided to the director or environment officer, in electronic format, in such form and of such content as may be required by the director or the environment officer, and each submission shall be clearly labelled with the licence number and file number associated with this licence.

SPECIFICATIONS, LIMITS, TERMS AND CONDITIONS

Notification

6. The licensee must notify the environment officer not less than two weeks prior to beginning construction of the development. The notification must include the intended starting date of construction and the name of the contractor responsible for the construction.

Emergency Response Plan

7. The licensee must maintain an emergency response contingency plan for the development following the Canadian Centre for Occupational Health and Safety "Emergency Response Planning Guide" or other emergency planning guidelines acceptable to the director. A copy of the plan must be provided to the environment officer upon request.

Pre-Construction Surveys

- 8. The licensee must, before commencing any surface disturbance or preliminary induced drainage of an intended harvesting area within the development:
 - conduct a survey of the intended harvesting area with respect to rare or endangered species and species of special concern, as well as migratory birds, their nests, and their eggs;
 - b) submit a report on the survey for the approval of the director;
 - transplant any visible rare, endangered or threatened species of vegetation, including species of vegetation used for traditional medicines which may be encountered on the site, to another equally suitable site in consultation with the regional wildlife manager of the Manitoba government; and
 - d) 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.

Project Land Use

- 9. The licensee must restrict construction and operational activities related to the development, except for the road allowance of all access roads, to those lands to which the licensee possesses:
 - a) a Peat Harvesting Licence issued under The Peatlands Stewardship Act or any future amendments, for peat harvesting operations on Crown lands;
 - b) 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 licensee; and
 - c) applicable work permits, timber cutting permits, casual quarry permits, and quarry leases, as may be required by the Manitoba government.
- 10. The licensee must restrict all harvesting of peat associated with the development to only those areas located within:
 - a) the boundaries of Evergreen 1, 2, and 3 sub-areas of Peat Harvest Licence No. 3 as identified in Schedule A of this licence and all privately owned lands located in sections 3, 4, 5, 9, 10, 16, and 17, township 13, range 10 EPM; and

Sun Gro Horticulture Canada Ltd. Licence No. 305 RR Page 6 of 13

b) the boundaries as described in any future newly acquired peat harvesting area of which the director has been notified in writing and has approved as an alteration to the licensed development.

Harvesting Plan

- 11. The licensee must, prior to commencing the surface disturbance of an undisturbed peat harvesting area that has been authorized to be prepared for harvesting, meet with and present to the Eastern Region IRMT the harvesting plan for the newly authorized area, outlining and detailing the following, and in accordance with the licensee's Peatland Management Plan:
 - 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 harvesting; and
 - d) the projected rates of water release, the projected effluent quality, and the projected water quality impact downstream based on the compiled and reported sampling data collected under this licence up to the time of the meeting; whereupon any outstanding concerns brought to the attention of the director by the IRMT may be addressed through work permits or other applicable approvals for the affected area.

Environmental Protection Plan

- 12. The licensee must:
 - a) submit an Environmental Protection Plan for the Evergreen 1 sub-area for approval of the director, within a timeframe acceptable to the director;
 - b) include in the plan all of the mitigation and adaptation measures outlined in Table 15 of the proposal, and climate change adaptation measures; and
 - c) consider and respond to information received from the Indigenous Monitoring Advisory Committee formed under clause 16 of this licence when developing the plan.
- 13. The licensee must submit for approval of the director an emissions reduction strategy following the requirements of the Certification for the Veriflora Responsibly Managed Peatlands, by SCS Global Services or another certification acceptable to the director. The strategy must be submitted within a timeframe acceptable to the director.
- 14. The licensee must update the emissions reduction strategy at least every five years and submit it to the director for approval.
- 15. The licensee must submit to the director an annual emissions report following the requirements of the Certification for the Veriflora Responsibly Managed Peatlands, by SCS Global Services or another certification acceptable to the director.

Indigenous Monitoring Advisory Committee

- 16. The licensee must:
 - a) establish and maintain an Indigenous Monitoring Advisory Committee to advise on matters related to the operation and recovery of the Evergreen 1 sub-area:
 - b) include representation from local Indigenous communities on the committee which may include Indigenous Knowledge Holders;
 - c) establish the structure of the committee and its terms of reference with input from local Indigenous communities engaged on the project; and

Sun Gro Horticulture Canada Ltd. Licence No. 305 RR Page 7 of 13

d) submit the terms of reference to the director for approval, within a timeframe acceptable to the director.

Boreal Wetlands Conservation Codes of Practice

- 17. The licensee must during the planning, construction, operation, and decommissioning of roads and crossings associated with the development located in or adjacent to boreal wetlands, adhere to the mitigation sequence of avoid, minimize, or offset, outlined in Manitoba's Boreal Wetlands Conservation Codes of Practice to achieve a no-net-loss of wetland benefits.
- 18. The licensee must, if the Director of the Forestry and Peatlands Branch determines that offsets are required under clause 17 of this licence, submit an offset plan to the Director of the Forestry and Peatlands Branch for approval.
- 19. The licensee must comply with and implement any offset measures required by clauses 17 and 18 of this licence.

Invasive Species

20. The licensee must, during construction and maintenance of the development, prevent the introduction and spread of foreign aquatic and terrestrial biota by cleaning equipment prior to its delivery to the site of the development following the requirements of the Aquatic Invasive Species Regulation, or any future amendments.

Wildlife Monitoring Plan

- 21. The licensee must:
 - a) submit a wildlife monitoring plan for the Evergreen 1 sub-area to the director for approval, within a timeframe acceptable to the director; and
 - b) describe monitoring programs in the plan to be undertaken in relation to the Evergreen 1 sub-area.
- 22. The licensee must submit an annual wildlife monitoring report to the director for the duration of the monitoring programs.

Wildlife Habitat Losses

23. The licensee must, where any potential wildlife habitat losses have been identified by the director, consult with the regional wildlife manager of the Manitoba government with respect to the mitigation of the losses, and carry out any related mitigation measures required by the director.

Sun Gro Horticulture Canada Ltd. Licence No. 305 RR Page 8 of 13

Buffer Zones

- 24. The licensee must, unless otherwise approved by the director, leave a buffer zone:
 - a) of at least 150 metres from:
 - i) the riparian areas of lakes, rivers, creeks, and streams; and
 - ii) riparian beaver flood habitat;
 - b) along the interior of the entire perimeter of each sub-area as defined by the Peat Harvest Licence, having a width of at least 100 metres and possessing a minimum of 0.5 metres in depth of peat; and
 - c) along such corridors within the development, and to such a width as may be specified in writing by the director in consideration of any recommendation(s) received from the IRMT respecting a desirability for any windbreak or habitat corridors.

Minimum Depth of Peat

25. The licensee must maintain an average depth of in-situ peat throughout the bottom of any active harvesting area, as specified in the Peatland Recovery Plan approved following The Peatlands Stewardship Act.

Clearing

26. The licensee must, where practical, avoid draining and clearing any portion of the overall development until needed for peat harvest.

Access Road Construction and Borrow Areas

- 27. The licensee must:
 - a) not create any new borrow pit(s) for the construction of the access/haulage road without prior consultation with, and the written concurrence of, the IRMT; and
 - b) notify the Director of the Mines Branch when creating a new borrow pit.
- 28. The licensee must:
 - a) not construct other roads connected to the development; and
 - b) prior to construction, secure approval in writing from the IRMT for short access routes for construction and maintenance purposes.
- 29. The licensee must post signage on any trail that intersects the Evergreen 1 sub-area project or access roads to the project. The signs must display any safety concerns to people approaching the project.

Drainage, Sedimentation Ponds and Effluent

- 30. The licensee must design and construct the bog drainage system such that the original water or groundwater level can be restored in the bog in the post-harvesting period.
- 31. The licensee must, by diverting surface runoff water around the perimeter of the development, prevent, as much as practical, natural surface runoff water from outside the boundaries of the development from entering the active harvesting areas of the development.

- 32. The licensee must, during construction and operation of the development, direct all drainage water associated with any harvesting area of the development through one or more sedimentation ponds that are designed and constructed to achieve the effluent quality criteria specified in clause 37 of this licence.
- 33. The licensee, unless otherwise approved by the director, must design and construct each sedimentation pond associated with the development:
 - in a manner that allows for sufficient residence time for solids to settle, including periods of heavy rainfall;
 - b) with a manual flow rate measuring device at each final discharge point that is adequate to measure the full range of instantaneous rates of discharge as may be expected to be released into the environment;
 - c) to facilitate the termination, if necessary, of the release of any effluent from the final discharge point, using a water control structure such as a gated culvert; and
 - d) with a floating debris boom located upstream of the outlet of each final discharge point to prevent floating debris from being released into the environment during discharge.
- 34. The licensee shall clean sedimentation ponds associated with the development such that the accumulated sediment volume does not exceed 25% of the total basin volume.
- 35. The licensee must, for approval of the director and within a timeframe acceptable to the director, submit a map and GPS co-ordinates of all final discharge points within the development. Updated maps and coordinates must be submitted if any changes are made.
- 36. The licensee must not release any effluent from the development where the release of the effluent:
 - a) causes a downstream flooding condition;
 - b) contributes to a forecast downstream flooding condition; or
 - c) further aggravates an existing flooding condition prevailing at that time.
- 37. The licensee must not, unless otherwise approved by the director, release any effluent from a final discharge point if the effluent quality, as determined from the analysis of any grab sample collected at the outlet of the sedimentation pond, is such that:
 - a) the pH is less than 5.0 pH units, unless it is at or above the natural baseline levels; or
 - b) the suspended solids concentration is greater than 30 milligrams per litre.
- 38. The licensee must, upon identifying any non-compliance under clauses 36 and 37, immediately notify the environment officer.

Sewage Disposal

39. The licensee must dispose of all sewage and septage from on-site sanitary facilities following the Onsite Wastewater Management Systems Regulation or any future amendments.

Stream Crossings

40. The licensee must adhere to the general recommendations on design, construction and maintenance of stream crossings as specified in the guidelines titled Manitoba Stream Crossing Guidelines for the Protection of Fish and Fish Habitat, 1996.

Sun Gro Horticulture Canada Ltd. Licence No. 305 RR Page 10 of 13

Operation of Transport Trucks

41. The licensee must securely cover vehicles transporting peat to and from the development.

Air Emissions

- 42. The licensee must take all appropriate measures to limit wind entrainment of peat beyond the property boundary of the development.
- 43. The licensee must take all appropriate measures to limit the entrainment of particulate matter into the air at the development resulting from the operation of vehicles or the transportation, storage or handling of peat or other material.

Solid Wastes

44. The licensee must dispose of non-reusable construction debris at a waste disposal ground operating under the authority of a permit issued under the Waste Management Facilities Regulation, or any future amendments, or a licence issued under The Environment Act.

Storage and Handling of Dangerous Goods and Hazardous Wastes

- 45. The licensee must collect and dispose of all used petroleum products and other hazardous wastes generated by the machinery used in the construction and operation of the development following Manitoba Environment and Climate Change and legislative requirements.
- 46. The licensee must comply with all the applicable requirements of:
 - a) the Storage and Handling of Petroleum Products and Allied Products Regulation or any future amendments;
 - b) The Dangerous Goods Handling and Transportation Act, and its regulations or any future amendments, respecting the handling, transport, storage and disposal of any dangerous goods brought onto or generated at the development; and
 - c) the Office of the Fire Commissioner of the Manitoba government.
- 47. The licensee must, in relation to any fuel storage tanks associated with the development, have:
 - a) secondary containment following section 3.9 of the CCME Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products;
 - b) spill containment and runoff collection following Manitoba Environment and Climate Change Technical Bulletin PSF-001; and
 - c) impact protection and spill kits on site.
- 48. The licensee must, during construction and maintenance of the development, operate, maintain, and store all materials and equipment in a manner that prevents any deleterious substances (fuel, oil, grease, hydraulic fluids, coolant, paint, uncured concrete and concrete wash water, etc.) from entering any water body, and have an emergency spill kit for in-water use available onsite during construction.

Environmental Accident Reporting

- 49. The licensee must, in the case of physical or mechanical equipment breakdown or process upset where such breakdown or process upset results or may result in the release of a pollutant in an amount or concentration, or at a level or rate of release, that causes or may cause a significant adverse effect, immediately report the event by calling the 24-hour environmental accident reporting line at 204-944-4888 (toll-free 1-855-944-4888). The report must indicate the nature of the event, the time and estimated duration of the event, and the reason for the event.
- 50. The licensee must, following the reporting of an event under clause 49 of this licence:
 - a) identify the repairs required to the mechanical equipment;
 - b) undertake all repairs to minimize unauthorized discharges of a pollutant;
 - c) complete the repairs in accordance with any written instructions of the director; and
 - d) submit a report to the director about the causes of breakdown and measures taken, within one week of the repairs being done.
- 51. The licensee must, in a manner approved by the environment officer, remove, and dispose of all spilled dangerous goods and pollutants.

Noise Nuisance

52. The licensee must not cause or permit a noise nuisance to be created as a result of the construction, operation, or alteration of the development, and must take such steps as the director or environment officer may require to eliminate or mitigate a noise nuisance.

Heritage Resources

53. The licensee must comply with the requirements of The Heritage Resources Act, and suspend construction and immediately notify the Historic Resources Branch if heritage resources are encountered during the construction of the development.

Monitoring, Record Keeping, and Reporting

- 54. The licensee must, unless otherwise specified in writing by the director and throughout the draining and harvesting of the site of the development, but only under conditions of effluent release:
 - collect samples of the effluent at all final discharge points and have them analyzed at such frequencies and for such substances and characteristics as specified in schedule B of this licence; and
 - 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 all final discharge points of the development.

Sun Gro Horticulture Canada Ltd. Licence No. 305 RR Page 12 of 13

- 55. The licensee must, if effluent monitoring under clause 54 of this licence has potentially impacted downstream receiving waters, undertake the following:
 - a) notify the environment officer;
 - b) implement a downstream water monitoring plan to verify water quality of downstream receiving water in relation to current Manitoba Water Quality Standards, Objectives, and Guidelines of known background levels; and
 - c) submit a report on the results of the monitoring plan to the environment officer.
- 56. The licensee must maintain records available onsite for inspection of the analytical data, and flow rate measurements recorded following clause 54 of this licence.

Decommissioning and Recovery

- 57. The licensee must decommission and restore the development following the Peatland Recovery Plan approved in accordance with The Peatlands Stewardship Act.
- 58. The licensee must consult a specialist in restoration ecology for Manitoba if the annual monitoring of the progression of the recovery suggests a progression rate which is unsatisfactory to the director.

Annual Report

- 59. The licensee must submit an annual report to the environment officer, by no later than February 28 of each year, including an annual summary containing the following information:
 - a) a discussion and trend analysis of all the analytical values, measurements, and estimates determined and recorded under clause 54 of this licence;
 - b) a comparison of measurements with the Manitoba Water Quality Standards, Objectives, and Guidelines, or any future amendments;
 - c) an annual report on land recovery; and
 - a summary of adaptive management strategies implemented to mitigate previously identified or anticipated non-compliance issues with this licence, in an acceptable electronic format.

Future Monitoring and Research

60. The licensee must participate in monitoring and research activities related to the development of best practice standards in cooperation with Manitoba Environment and Climate Change.

Alterations to the Development

61. The licensee must obtain written approval from the director for any proposed alteration to the development before proceeding with the alteration.

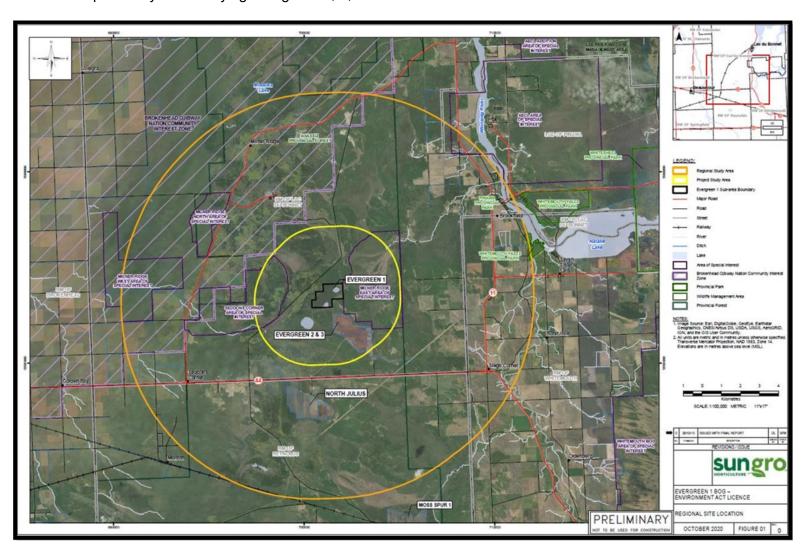
REVIEW AND REVOCATION

- A. Environment Act Licence No. 305 R is hereby rescinded.
- B. If, in the opinion of the director:
 - a) The licensee 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; or
 - b) For purposes of effective environmental management, a change in the specifications, limits, terms, or conditions of this licence is necessary, the director may amend the licence accordingly and thereafter the Licensee shall comply with the licence as amended.
- 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 under Section 11 of The Environment Act.

Original Signed By Agnes Wittmann Director The Environment Act

Schedule A to Environment Act Licence No. 305 RR

Development layout identifying Evergreen 1, 2, and 3 sub-areas referred to in clauses 2 and 10 of the licence.



Schedule B to Environment Act Licence No. 305 RR

Effluent sampling substances, characteristics and frequencies referred to in clause 54 of this licence.

Parameters / Characteristics / Data	Detection Limit	Effluent (weekly)*	Effluent (3x / Year)*
Sampling Date	Not Applicable	Х	Х
Flow rate	Not Applicable	Х	
Temperature (field measure)	Not Applicable	Х	X
pH (field and lab measure)	0.1 units	Х	Х
Total Alkalinity	1 mg/L		Х
Total Acidity (as CaCO₃)	2 mg/L		Х
Conductivity	1 μS/cm		Х
Total Dissolved Solids	4 mg/L		Х
Total Suspended Solids	1 mg/L	Х	Х
5-day Biochemical Oxygen Demand	1 mg/L		Х
Total Hardness	0.2 mg/L		Х
Total Nitrogen	0.2 mg/L		Х
Total Kjeldahl Nitrogen	0.2 mg/L		Х
Total Ammonia (as N)	0.01 mg/L		Х
Nitrate (as N)	0.005 mg/L		Х
Nitrite (as N)	0.001 mg/L		Х
Total Carbon	1 mg/L		X
Total Inorganic Carbon	0.5 mg/L		X
Total Organic Carbon	0.5 mg/L		X
Dissolved Organic Carbon	0.5 mg/L		X
Sulphate (SO ₄)	0.3 mg/L		X
Total Bicarbonate (HCO ₃)	1.2 mg/L		X
Total Carbonate (CO ₃)	0.6 mg/L		X
Total Hydroxide (OH)	0.34 mg/L		X
(011)	, , , , , , , , , , , , , , , , , , ,		
Total and dissolved metals and metalloid	ds:		
Aluminum (AI)	0.003 mg/L		X
Antimony (Sb)	0.0001 mg/L		Х
Arsenic (As)	0.0001 mg/L		X
Barium (Ba)	0.0001 mg/L		X
Beryllium (Be)	0.0001 mg/L		Х
Bismuth (Bi)	0.00005 mg/L		X
Boron (B)	0.01 mg/L		X
Cadmium (Cd)	0.000005 mg/L		X
Calcium (Ca)	0.05 mg/L		X
Cesium (Cs)	0.00001 mg/L		X
Chromium (Cr)	0.0001 mg/L		Х
Cobalt (Co)	0.0001 mg/L		Х
Copper (Cu)	0.0005 mg/L		Х
Iron (Fe)	0.01 mg/L		Х
Lead (Pb)	0.00005 mg/L		Х
Lithium (Li)	0.001 mg/L		Х
Magnesium (Mg)	0.005 mg/L		Х
Manganese (Mn)	0.0001 mg/L		Х
Mercury (Hg)	0.000005 mg/L		Х
Molybdenum (Mo)	0.00005 mg/L		Х
Nickel (Ni)	0.0005 mg/L		Х
Phosphorus (P)	0.003 mg/L		Х

Parameters / Characteristics / Data	Detection Limit	Effluent (weekly)*	Effluent (3x / Year)*
Potassium (K)	0.05 mg/L		X
Rubidium (Rb)	0.0002 mg/L		X
Selenium (Se)	0.00005 mg/L		Χ
Silicon (Si)	0.1 mg/L		X
Silver (Ag)	0.00001 mg/L		Х
Sodium (Na)	0.05 mg/L		Х
Strontium (Sr)	0.0002 mg/L		Х
Sulfur (S)	0.5 mg/L		Х
Tellurium (Te)	0.0002 mg/L		Х
Thallium (TI)	0.00001 mg/L		Х
Thorium (Th)	0.0001 mg/L		Х
Tin (Sn)	0.0001 mg/L		Х
Titanium (Ti)	0.0003 mg/L		X
Tungsten (W)	0.0001 mg/L		Χ
Uranium (U)	0.00001 mg/L		Х
Vanadium (V)	0.0005 mg/L		Х
Zinc (Zn)	0.003 mg/L		Х
Zirconium (Zr)	0.0002 mg/L		X

[&]quot;weekly" means one sample every seven days, but on an operating day.
"3x/year" means one sample every spring freshet, late summer and late fall.

Note: The director reserves the right to make future alterations to this schedule in the interests of effective environmental management.