

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 3680-BQ7HRC
Issue Date: December 1, 2020

Generate Capital Canada STF GP Ltd. as general partner
for and on behalf of Generate Resource Recovery LP
1087 Green Valley Rd
London, Ontario
N6N 1E4

Site Location: Organic Waste Processing Facility
806548 Oxford Road 29 Lot 21, Conc. 6, Part 3, Ref. Plan
1119, Drumbo
Blandford-Blenheim Township, County of Oxford
N0J 1G0

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

establishment of stormwater management Works at the non-hazardous organics waste processing facility for the collection, treatment and disposal of stormwater run-off from a total catchment area of 6.71 ha to provide Normal Level water quality control and erosion control, and to attenuate post-development peak flows to pre-development peak flows for all storm events up to and including the 100-year storm event, discharging to the Oxford Road 29 roadside ditch, ultimately to Horner Creek, consisting of the following:

- **Storm sewers:** one (1) 200 mm diameter storm sewer servicing the concrete ramp on the north side of the existing organic waste processing facility, one (1) 150 mm diameter storm sewer servicing the concrete pad west of the existing organic waste processing facility, and one (1) 250 mm diameter storm sewer servicing the concrete ramp on the north side of the proposed organic waste processing facility, complete with catchbasins, discharging to the southeast ditch;
- **South grassed swale:** located along the southern property line with a v-notch bottom, varying depth between 0.3 m and 1.0 m, average side slopes of 3:1, and a longitudinal gradient of approximately 0.18%, collecting runoff from a catchment area of approximately 0.15 ha with an imperviousness of 20%, and discharging into the east grassed swale described below via a 250 mm culvert;
- **East grassed swale:** located along the eastern property line with a 1.0 m wide flat bottom, varying depth between 0.75 m and 1.0 m, average side slopes of 3:1, and a longitudinal gradient of approximately 0.54%, collecting runoff from a catchment area of approximately 3.59 ha with an imperviousness of 42%.

and discharging into the centre grassed swale described below;

- **Northeast grassed swale:** located along the east side of the entrance roadway with a v-notch to 1.0 m wide flat bottom, varying depth between 0.6 m and 1.1 m, average side slopes of 3:1, and a longitudinal gradient of approximately 0.30%, collecting runoff from a catchment area of 0.71 ha with an imperviousness of less than 10%, and discharging into the centre grassed swale described below;
- **Centre grassed swale:** located along the north side of the existing organic waste processing facility with a 3.0 m wide flat bottom, varying depth between 0.6 m and 1.3 m, average side slopes of 3:1, and a longitudinal gradient of approximately 0.11%, having a minimum total storage volume of 2,578 m³, collecting runoff from a catchment area of 4.30 ha with an imperviousness of 35%, and discharging into the west grassed swale described below via a 600 mm culvert;
- **West grassed swale:** located along the western property line with a v-notch to 1.0 m wide flat bottom, varying depth between 0.2 m and 1.5 m, average side slopes of 2:1, and a longitudinal gradient of approximately 0.67%, having a minimum total storage volume of 875 m³, collecting runoff from a catchment area of 5.92 ha with an imperviousness of 33%, and discharging into the northwest grassed swale described below via a 600 mm culvert;
- **Northwest grassed swale:** located along the northwest property line with a v-notch bottom, varying depth between 1.0 m and 1.6 m, average side slopes of 2:1, and a longitudinal gradient of approximately 1.34%, collecting runoff from a catchment area of 5.92 ha with an imperviousness of 33%, and discharging into the Oxford Road 29 roadside ditch;
- **Permanent check dams:** approximately nine (9) permanent check dams with 0.3 m height and a minimum of 0.22 m overflow height, distributed throughout the swales described above, complete with optional 150 mm underdrain piping;
- **Spill containment:** one (1) portable spill containment unit (UltraTech model 8479 Ultra-Containment Berm or Equivalent Equipment), located at the outdoor liquid loading and unloading areas during liquid transfer only;

including erosion/sediment control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned Works;

all in accordance with the submitted supporting documents listed in Schedule "A" forming part of this Approval.

For the purpose of this environmental compliance approval, the following definitions apply:

1. "Approval" means this entire Environmental Compliance Approval and any Schedules attached to it;
2. "Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of

Part II.1 of the EPA;

3. "District Manager" means the District Manager of the appropriate local District Office of the Ministry, where the Works are geographically located;
4. "EPA" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19;
5. "Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of a named equipment
6. "Licensed Engineering Practitioner" means a person who holds a licence, limited licence or temporary licence under the PEA;
7. "Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;
8. "Operating Authority" means the Owner, person or the entity that is authorized by the Owner for the management, operation, maintenance, or alteration of the Works in accordance with this Approval;
9. "Owner" means any person that is responsible for the establishment or operation of the Works being approved by this Approval, and includes Owner's Legal Name and its successors and assigns;
10. "OWRA" means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40;
11. "PEA" means *Professional Engineers Act*, R.S.O. 1990, c. P.28;
12. "Works" means the sewage works described in the Owner's application, and this Approval.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the terms and conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. The Owner shall design, construct, operate and maintain the Works in accordance with the conditions of this Approval.
3. Where there is a conflict between a provision of any document referred to in this Approval and the

conditions of this Approval, the conditions in this Approval shall take precedence.

4. The issuance of, and compliance with the Conditions of this Approval does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority necessary to construct or operate the sewage Works; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

2. EXPIRY OF APPROVAL

1. This Approval will cease to apply if the approved Works as described in this Approval have not been constructed within five (5) years of the date of this Approval.

3. CHANGE OF OWNER AND OPERATING AUTHORITY

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:
 - a. change of address of Owner;
 - b. change of Owner, including address of new owner;
 - c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act, R.S.O. 1990, c. B.17* , as amended, shall be included in the notification;
 - d. change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the *Corporations Information Act, R.S.O. 1990, c. C.39* , as amended, shall be included in the notification.
2. The Owner shall notify the District Manager, in writing, of any of the following changes within thirty (30) days of the change occurring:
 - a. change of address of Operating Authority;
 - b. change of Operating Authority, including address of new Operating Authority.
3. In the event of any change in ownership of the Works, the Owner shall notify the succeeding owner in writing, of the existence of this Approval, and forward a copy of the notice to the District Manager.
4. The Owner shall ensure that all communications made pursuant to this condition refer to the

environmental compliance approval number.

4. CONSTRUCTION

1. Upon construction of the Works, the Owner shall prepare a statement, certified by a Licensed Engineering Practitioner, that the Works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry staff.
2. Within six (6) months of the construction of the Works, a set of as-built drawings showing the Works "as constructed" shall be prepared. These drawings shall be kept up to date through revision undertaken from time to time and a copy shall be retained for the operational life of the Works.

5. EFFLUENT - VISUAL OBSERVATIONS

1. The Owner shall ensure that the all discharges from the Works is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film, sheen or foam on the receiving waters.

6. MONITORING AND RECORDING

1. The Owner shall, upon commencement of operation of the Works, carry out the following monitoring program:
 - a. all samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.
 - b. Samples shall be collected and analyzed at the sampling point(s), sampling frequencies and sample type specified for each parameter listed in the effluent monitoring table in Schedule B.
 - c. The methods and protocols for sampling, analysis and recording shall conform to the methods and protocols specified in the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater Version 2.0" (January 2016), PIBS 2724e02 and all analysis shall be conducted by a laboratory accredited to the ISO/IEC:17025 standard or as directed by the District Manager.
2. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this Approval.

7. OPERATION AND MAINTENANCE

1. The Owner shall prepare an operations manual prior to the commencement of operation of the Works, that includes, but is not necessarily limited to, the following information:

- a. operating procedures for the Works;
 - b. inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;
 - c. repair and maintenance programs, including the frequency of repair and maintenance for the Works;
 - d. procedures for the inspection and calibration of monitoring equipment;
 - e. an emergency response plan for the Works to handle emergency situations such as a structural, mechanical failure, or an unforeseen flow condition.
 - f. a spill prevention and contingency plan, consisting of procedures and contingency plans, including notification to the District Manager, to reduce the risk of spills of pollutants and prevent, eliminate or ameliorate any adverse effects that result or may result from spills of pollutants; and
 - g. procedures for receiving, responding and recording public complaints, including recording any followup actions taken.
2. The Owner shall maintain the operations manual up-to-date and retain a copy at the location of the Works for as long as they are in operation. Upon request, the Owner shall make the manual available for inspection and copying by Ministry personnel.
 3. The Owner shall conduct quarterly inspections of the Works and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation. At a minimum, the Owner shall:
 - a. remove any sediment or vegetation build-up in the swales at least once a year; and
 - b. remove the sediment at the check dams once it reaches approximately half the height of the check dams.
 4. The Owner shall only conduct truck and equipment washing indoors at the north and south organic waste processing facilities to ensure that wash water is not discharged to the Works.
 5. Notwithstanding condition 7.4, within six (6) months from the issuance of this Approval, the Owner may conduct truck and equipment washing on the outdoor concrete pad located on the west side of the existing organic waste processing facility as follows:
 - a. Prior to truck/equipment washing on the outdoor concrete pad, the Owner shall:
 - i. close the storm sewer connecting to the catchbasin located within the concrete pad; and
 - ii. remove any stormwater collected within the catchbasin;

- b. Following truck/equipment washing on the outdoor concrete pad, the Owner shall:
 - i. immediately rinse down the concrete pad and remove any wash water and/or stormwater that is collected within the catchbasin;
 - ii. open the storm sewer connecting to the catchbasin located within the concrete pad; and
 - iii. ensure that any wash water and/or stormwater that is collected during washing is hauled off-site for disposal at an approved wastewater treatment plant.
6. The Owner shall ensure that all vehicles transporting waste do not leak waste on-site.
7. The Owner shall ensure that stormwater does not contact waste at any time.
8. The Owners shall ensure that any ponded stormwater on-site that contains odour and/or suspended solids, oil or any other substance in amounts sufficient to create a visible film, sheen or foam on the receiving waters is immediately collected and used in the waste process or hauled off-site for disposal at an approved wastewater treatment plant.
9. The Owner shall ensure that the Works are operated exclusively for the collection, transmission, treatment and disposal of stormwater runoff. Under no circumstance shall any process wastewater (including, but not limited to, the wastewater from the waste management activities) from the site be discharged into the Works.
10. The Owner shall ensure that the permanent check dams have separation distances which ensure that the toe of each check dam is above the crest of the adjacent downstream check dam.
11. The Approval is based on an average imperviousness of 30% for approximately 6.74 ha drainage area which allows for an additional 500 m² of future development. Any future developments larger than 500 m² within the total drainage area that increase the flows to the swales will require an amendment to this Approval.
12. The Owner shall maintain a record of the results of the inspections, cleaning and maintenance operations undertaken, and shall keep the record at the Owner's office for inspection by the Ministry. The record shall include the following:
 - a. the name of the Works;
 - b. the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed; and
 - c. the date of each spill within the catchment area, including follow-up actions / remedial measures undertaken.

8. TEMPORARY EROSION AND SEDIMENT CONTROL

1. The Owner shall install and maintain temporary sediment and erosion control measures during construction and conduct inspections once every two (2) weeks and after each significant storm event (a significant storm event is defined as a minimum of 25 mm of rain in any 24 hours period). The inspections and maintenance of the temporary sediment and erosion control measures shall continue until they are no longer required and at which time they shall be removed and all disturbed areas reinstated properly.
2. The Owner shall maintain records of inspections and maintenance which shall be made available for inspection by the Ministry, upon request. The record shall include the name of the inspector, date of inspection, and the remedial measures, if any, undertaken to maintain the temporary sediment and erosion control measures.

9. REPORTING

1. The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
2. In addition to the obligations under Part X of the EPA and O. Reg. 675/98 (Classification and Exemption Of Spills and Reporting of Discharges), the Owner shall, within fifteen (15) days of the occurrence of any reportable spill as provided in Part X of the EPA and Ontario Regulation 675/98, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill, clean-up and recovery measures taken, preventative measures to be taken and a schedule of implementation.
3. The Owner shall prepare performance reports on a calendar year basis and submit to the District Manager by June 30 of the calendar year following the period being reported upon. The reports shall contain, but shall not be limited to, the following information pertaining to the reporting period:
 - a. a summary and interpretation of all monitoring data, including an overview of the success and adequacy of the Works;
 - b. a description of any monitoring results which indicate that contaminants may be entering the Works, including the potential sources of the contaminants and any corrective actions taken or proposed to be taken;
 - c. a description of any operating problems encountered and corrective actions taken;
 - d. a summary of all inspection, maintenance and clean-out carried out on the Works;
 - e. a summary of all spill or abnormal discharge events; and
 - f. any other information the District Manager requires.

Schedule A

1. Environmental Compliance Approval Application for Industrial Sewage Works (stormwater management) submitted and signed by Brandon Moffat, Vice President - Development and Operations, dated November 6, 2019 and received on November 7, 2019, including all supporting documentation and information.
2. A report entitled "2019 Stormwater Management Assessment Report" dated October 15, 2019, including calculations and engineering drawings, prepared by RWDI AIR Inc.
3. Drawing entitled "Ditching Plan" dated April 23, 2020 and prepared by LDS Consultants Inc.
4. A report entitled "Functional Stormwater Management Report" dated October 14, 2020, including calculations and engineering drawings, prepared by LDS Consultants Inc.
5. RWDI AIR Inc. responses to Ministry's review comments dated May 11, 2020, May 27, 2020, June 24, 2020, July 6, 2020, August 18, 2020, August 20, 2020, August 26, 2020, September 8, 2020, September 29, 2020, November 12, 2020 and November 24, 2020, prepared by Brent Langille of RWDI AIR Inc.

Schedule B

Effluent Monitoring Table

Table 1 - Sampling and Monitoring for the Works	
Locations	Background Monitoring Stations: <ul style="list-style-type: none"> ● SW1 (UTM ## 531526 E 4785869 N) at the outlet of the east marsh ● SW2 (UTM ## 531451 E 4785832 N) at the outlet of the west marsh Discharge Monitoring Station: <ul style="list-style-type: none"> ● SW3 (UTM ## 531376 E 4786094 N) prior to the Oxford Road 29 roadside ditch
Frequency	Monthly
Sample Type	Grab
Parameters	Total Ammonia Nitrogen, pH, Total Kjeldahl Nitrogen, Total Phosphorus, Dissolved Organic Carbon, pH (field), Temperature (field)

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This Condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Conditions 2 and 4 are included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved Works and to ensure that any subsequent Owner of the Works is made aware of the Approval and continue to operate the Works in compliance with it.
4. Condition 5 is included to ensure that the effluent discharged from the Works meets the Ministry's effluent quality requirements thus minimizing environmental impact on the receiver and to protect water quality, fish and other aquatic life in the receiving water body.
5. Condition 6 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives specified in the Approval and that the Works do not cause any impairment to the receiving watercourse.
6. Condition 7 is included to require that the Works be properly operated and maintained such that the

environment is protected and to ensure that appropriate steps are taken to address the immediate concerns or otherwise abnormal situation and minimizing environmental damage.

7. Condition 8 is included as installation, regular inspection and maintenance of the temporary sediment and erosion control measures is required to mitigate the impact on the downstream receiving watercourse during construction until they are no longer required.
8. Condition 9 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

AND


The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 1st day of December, 2020

A handwritten signature in black ink that reads "Fariha Pannu." The signature is written in a cursive style with a horizontal line above the name.

Fariha Pannu, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

NZ/

c: District Manager, MECP London - District
Brent Langille, RWDI