Trillium Childhood Cancer Support Centre
940 Queensdale Ave East
Hamilton, Ontario
L8V 1N4

Site Location: Camp Trillium - West Lake Camp/OuR Island
2 Garrett's Island Bloomfield
Prince Edward County,
K0K 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:

proposed and existing seasonal subsurface sewage disposal works rated at 25,200 L/day, for maximum of 150 campers and staff on any given day, servicing a Childhood Cancer Support Camp called "OuR Island" or West Lake Camp, located at 2 Garrett's Island, Bloomfield, Ontario.

Proposed Works

Septic Tanks for Sewage Works No. 1

· Installation of a 4,500 Litre retention tank for Cabin No. 1, upstream of the existing pump chamber;

· Installation of a 4,500 Litre retention tank for Cabin No. 2, upstream of the existing pump chamber;

Septic Tanks for Sewage Works No. 2

· Installation of a 4,500 Litre retention tank for Activity Hall, approximately 1.6 metre from the hall discharging into and existing pumping chamber near Cabin 5, by connecting a new gravity line from the proposed tank directly to the pump chamber located in front of Cabin No.5;

· Installation of a 3,600 Litre retention tank for Dining Hall discharging into the existing downstream pump chamber and receiving effluent from the existing 4500 Litres retention tank;
Duplex Pumps
· Replacement of existing pumps located in final dosing chamber at each of the two distribution beds with duplexed 1/2 horsepower pumps to deliver 1800 Litres dose over 15 minutes at 120 L/min to each bed, float controlled with high level override;

QIC Cabin connection
· Connection of wastewater discharge from the QIC Cabin to an existing 4,500 Litre retention tank

Effluent firers
· Installation of effluent filters on all wastewater retention tanks;

Existing Works

Existing Sewage Works No. 1

Existing Sewage Works No. 1, serving Cabin 5, Activity Hall, Resource Centre and a Dining Hall, rated for capacity of 12,000 Litres per day, located west of the dining hall, and comprising;

· Existing pumping chamber located in front of the Cabin 5, receiving the gravity Sewage flow from the proposed Septic tank for activity Hall and an existing Septic Tank for Cabin 4 and discharging into an existing collection chamber upstream of the Dosing Chamber;
· Existing collection chamber located in front of the Resource Centre, receiving the pumped sewage flow from the proposed Septic tank for the Dining Hall and an existing septic Tank for Resource Centre and discharging into an existing Collection chamber and thence to an existing Dosing Chamber to the distribution bed;
· One 4500 Litre Collection chamber, located north of the existing Bed 1, receiving the flow from the Cabin 5, Resource Centre and Dining Hall pumping chambers and discharging into an existing Dosing Chamber, dosing to the distribution bed through an existing distribution box;
· One 4,500 Litre Dosing Chamber discharging the wastewater effluent to Bed No. 1
· Existing Bed No. 1, rated at a design capacity of 12,000 Litres per day (T=10 min/cm) 600 metres of 102 mm perforated PVC, split into four (4) lobes each of 5m runs each of 30 metres length;

Existing Sewage Works No. 2

Existing Sewage Works No. 2, serving Cabins 1-4, QIC Cabin and the Pod, rated for capacity of 13,200 Litres per day, located north of Cabin 1, and comprising;

· Existing 4500 Litre pumping chamber located in front of the Cabin 1, receiving the gravity Sewage flow from the proposed Septic tank for Cabin 1 and discharging into an
existing 4500 Litre dosing chamber upstream of Bed No. 2;
· Existing pumping chamber located in front of the proposed Septic Tank for Cabin 2 and discharging into an existing Dosing chamber upstream of Bed No. 2;
· Existing Septic tank for Cabin 3, discharging by gravity to an existing Dosing chamber upstream of Bed No. 2;
· Existing Septic Tank for Cabin 4, discharging in to the existing pumping chamber located in front of Cabin 4 and ultimately discharging into an existing Dosing chamber upstream of Bed No. 2;
· Existing Septic Tank for The POD, discharging in to the existing pumping chamber located in front of The POD and discharging into an existing Dosing chamber upstream of Bed No. 2;
· Existing Pumping Chamber, located in front of The POD receiving the sewage flow from the Septic Tank for the QIC cabin and Septic Tank for The POD;
· Septic Tank for QIC Cabin, discharging in to the pumping chamber located in front of The POD
· Existing Pump Chamber, 4500 Litres capacity, receiving the flow from Cabin 1, 2, 3, 4, The POD and QIC Cabin, and discharging to a distribution bed;
· Existing Bed No. 2, rated at a design capacity of 12,000 Litres per day (T=10 min/cm) 600 metres of 102 mm perforated PVC, split into four (4) lobes, two of 5 runs each and two of 6 runs, 30 metres in length;
all in accordance with the Schedule A.

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

"Approval" means this entire document and any schedules attached to it, and the application.

"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.

"District Manager" means the District Manager of the Kingston District Office.

"EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended.

“Existing Works” means those portions of the Works included in the Approval that have been constructed previously;

"Licensed Installer" means a person who holds a licence under Article 2.12.3.1 of the Ontario Building Code.

"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.
"OBC" means the Ontario Building Code.

"Owner" means Trillium Childhood Cancer Support Centre and its successors and assignees.

"OWRA" means the Ontario Water Resources Act, R.S.O. 1990, c. O.40, as amended.

"Professional Engineer" means a person entitled to practice as a Professional Engineer in the Province of Ontario under a licence issued under the Professional Engineers Act.

"Works" means the sewage works described in the Owner's application, and this Approval, and includes both Proposed Works and Existing Works.

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 conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

2. Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this Approval.

3. Where there is a conflict between a provision of any submitted document referred to in this Approval and the Conditions of this Approval, the Conditions in this Approval shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

4. Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

5. The requirements of this Approval are severable. If any requirement of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this Approval shall not be affected thereby.
2. EXPIRY OF APPROVAL

1. The approval issued by this Approval will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Approval.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within 30 days of the change occurring:

   a. change of Owner;
   
   b. change of address of the 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.B17 shall be included in the notification to the District Manager;
   
   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. C39 shall be included in the notification to the District Manager;

2. In the event of any change in ownership of the Works, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.

4. CONSTRUCTION

1. The Owner shall ensure that the construction of the Works is supervised by a licensed installer, as defined in the Ontario Building Code or a Professional Engineer, as defined in the Professional Engineers Act.

2. The Owner shall ensure that the Works are constructed such that minimum horizontal clearance distances as specified in the OBC are satisfied.

3. Upon construction of the Works, the Owner shall prepare a statement, certified by a Professional Engineer, that the Works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry staff.

4. The Owner shall prepare a complete set of "as constructed" drawings within one (1) year of Substantial Completion of the Works. The drawings must be retained
at the site and kept current and shall be made available for inspection by Ministry staff.

5. OPERATIONS, MAINTENANCE, AND RECORDING

1. The Owner shall ensure that at all times, the Works and related equipment and appurtenances which are installed or used to achieve compliance with this Approval are properly operated and maintained.

2. The Owner shall ensure that the septic tank is pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filter is cleaned out at minimum once a year (or more often if required).

3. The Owner shall ensure that grass-cutting is maintained regularly over the subsurface disposal bed, and that adequate steps are taken to ensure that the area of the underground works is protected from vehicle traffic.

4. The Owner shall ensure that in the event a break-out is observed from the subsurface disposal bed, the sewage discharge to the bed is discontinued and the incident immediately reported verbally to the District Manager, followed by a written report within seven (7) days. The Owner shall ensure that during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to a surface water body or to the environment, and safely collected and disposed of through a licensed waste hauler to an approved waste disposal site.

5. The Owner shall maintain a logbook to record the results of Operation and Maintenance activities specified in the above sub-clauses, and shall keep the logbook at the site and make it available for inspection by the Ministry staff.

6. The Owner shall employ any measurement devices to accurately measure quantity of effluent being discharged to each individual subsurface disposal system, including but not limited to water/wastewater flow meters, event counters, running time clocks, or electronically controlled dosing, and shall record the daily volume of effluent being discharged to the subsurface disposal system.

7. 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 Operation and Maintenance activities required by this Approval.

6. REPORTING

1. One week prior to the start up of the operation of the Works, the Owner shall notify the District Manager (in writing) of the pending start up date.

2. In addition to the obligations under Part X of the Environmental Protection Act, the Owner shall, within ten (10) working days of the occurrence of any reportable spill
as defined in Ontario Regulation 675/98, bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

3. The Owner shall prepare and submit a performance report on an annual basis for a two year period. This performance report shall be submitted within ninety (90) days following the end of each operational season to the District Manager. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

   a. a summary and interpretation of all water and sewage flow monitoring data and a comparison to the daily Occupancy
   b. a review and assessment of performance of sewage works including review of the design of the sewage works if required as a result of the flow monitoring data;
   c. a description of any operating problems encountered and corrective actions taken at all sewage Works located at the property;
   d. a record of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of all Works located at the property' including but not limited to: records of maintenance inspections for Waterloo Biofilter treatment System, records of septic tank pump-outs, records of septic tank effluent filters cleaning, records of septic tank pump-outs, records of sludge pump-outs accumulated from the treatment system, records of visual inspections of all disposal systems;
   e. a summary and interpretation of all daily flow data and results achieved in not exceeding the maximum daily sewage flow discharged into each one of the subsurface disposal system;
   f. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
   g. a summary of all spill or abnormal discharge events;
   h. any other information the District Manager requires from time to time;
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. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.

2. Condition 2 is 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 the approved works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.

4. Condition 4 is included to ensure that the works are constructed, and may be operated and maintained such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented.

5. Condition 5 is included to require that the Works be properly operated, maintained, and equipped such that the environment is protected.

6. Condition 6 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.

Schedule A
List of Documents considered for the Current Application

2.

3.

4.

5.
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, S.O. 1993, c. 28 (Environmental Bill of Rights), the Environmental Commissioner, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner 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 Environmental Commissioner  
1075 Bay Street, Suite 605  
Toronto, Ontario  
M5S 2B1

AND

The Director appointed for the purposes of Part II.1 of the Environmental Protection Act  
Ministry of the Environment and Climate Change  
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 www.ebr.gov.on.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 May, 2018

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

KH/
c: Area Manager, MOECC Belleville Area Office.
c: District Manager, MOECC Kingston District.
John Porritt, The Greer Galloway Group Inc.