

**ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 2722-BKTP8D  
Issue Date: February 12, 2020

Cancoil Thermal Corporation  
991 John F. Scott Rd  
Kingston, Ontario  
K7L 4V3

Site Location: 991 John F. Scott Rd  
Kingston City, County of Frontenac

*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:*

existing sewage works for the discharge of coil leak-test waste water from the coil manufacturing facility, consisting of the following:

- stainless steel Tank No.1 with a volume of 23,091 L, equipped with a circulation pump and associated cartridge filtration system for the cleaning cycles of the tank water, and floating sorbent pads to address any potential floating hydrocarbons should they occur;
- stainless steel Tank No.2 with a volume of 11,356 L, equipped with a circulation pump and associated cartridge filtration system for the cleaning cycles of the tank water, and floating sorbent pads to address any potential floating hydrocarbons should they occur;
- stainless steel Tank No.3 with a volume of 6,057 L, equipped with a circulation pump and associated cartridge filtration system for the cleaning cycles of the tank water, and floating sorbent pads to address any potential floating hydrocarbons should they occur;
- stainless steel Tank No.4 with a volume of 4,164 L, equipped with a circulation pump and associated cartridge filtration system for the cleaning cycles of the tank water, and floating sorbent pads to address any potential floating hydrocarbons should they occur;
- stainless steel Tank No.5 with a volume of 7,382 L, equipped with a circulation pump and associated cartridge filtration system for the cleaning cycles of the tank water, and floating sorbent pads to address any potential floating hydrocarbons should they occur;

- used tank-water from each tank is pumped through temporary 75 mm drainage lines and discharged at a flow rate of approximately 2,000 L/min to ground surface located within Wellhead Protection Area (WHPA) Zone C (5 m beyond the furthest most limit of WHPA-B) which is approximately 90 m from the east property line, 300 m from the south property line, 100 m from the north property line and 30 m from the onsite facility water source well;

including all other controls, electrical equipment, instrumentation, piping, pumps, valves and associated appurtenances for the proper operations of the aforementioned sewage 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:*

"Approval" means this entire document including the application and any supporting documents listed in any schedules in this Approval;

"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 of the Ministry;

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

"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;

"Owner" means Cancoil Thermal Corporation and its successors and assignees;

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

"Single Sample Result" means the test result of a parameter in the effluent discharged on any day, as measured by a probe, analyzer or in a composite or grab sample, as required;

"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) Except as otherwise provided by these terms and conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with this Approval.
- (3) Where there is a conflict between a provision of this environmental compliance approval and any document submitted by the Owner, the conditions in this environmental compliance approval shall take precedence. Where there is a conflict between one or more of the documents submitted by the Owner, the Application shall take precedence unless it is clear that the purpose of the document was to amend the application.
- (4) Where there is a conflict between the documents listed in the Schedule A, 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 terms and conditions of this Approval are severable. If any term and condition of this environmental compliance approval, or the application of any requirement of this environmental compliance approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.
- (6) 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. CHANGE OF OWNER

(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 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 in ownership to the municipal, i.e. assumption of the Works, the Owner shall notify the succeeding owner in writing of the existence of this Approval, and a cop

3. OPERATIONS MANUAL

(1) The Owner shall prepare an operations manual for the sewage works described in this Approval within three months of the date of its issuance including, but not necessarily limited to, the following information:

(a) operating procedures for routine operation of 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) contingency plans and procedures for dealing with potential spill, bypasses and any other abnormal situations and for notifying the District Manager; and

(e) complaint procedures for receiving and responding to public complaints.

(2) The Owner shall maintain the operations manual up to date through revisions undertaken from time to time and retain a copy at the location of the sewage works. Upon request, the Owner shall make the manual available for inspection and copying by Ministry personnel.

4. EFFLUENT LIMITS

(1) The Owner shall design, construct, operate and maintain the Works such that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent from the Works.

<b>Table 1 - Effluent Limits</b>	
<b>Effluent Parameter</b>	<b>Concentration Limit</b> (micrograms per litre unless otherwise indicated)
Column 1	Column 2
Petroleum Hydrocarbons F1	750
Petroleum Hydrocarbons F2	150
Petroleum Hydrocarbons F3	500
Petroleum Hydrocarbons F4	500
pH of the effluent maintained between 6.5 to 8.5, inclusive, at all times	

(2) For the purposes of determining compliance with and enforcing subsection (1):

(a) The concentration (single sample result) of a parameter named in Column 1 of subsection (1) shall not exceed the corresponding maximum concentration set out in Column 2 of subsection (1).

(b) The pH of the effluent shall be maintained within the limits outlined in subsection (1), at all times.

(3) The effluent limits set out in Subsection (1) shall apply upon issuance of this Approval.

5. EFFLUENT - VISUAL OBSERVATIONS

Notwithstanding any other condition in this Approval, the Owner shall ensure that the effluent 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 environment.

6. OPERATION AND MAINTENANCE

(1) The Owner shall inspect the Works at least **once a year** and, if necessary, clean and maintain the Works.

(2) The Owner shall collect and analyze grab samples of the tank water prior to the discharge of tank water and compare the analytical results to the Effluent Limits listed in Table 1.

(3) In the event that the analytical results exceed the Effluent Limits list in Table 1, the tank water shall not be discharged unless it is treated and shown to meet the Effluent Limits listed in Table 1. Alternatively, the tank water could be properly disposed offsite by a licensed hauler.

(4) The discharge of tank water occurs 3-4 times per year per tank and during daytime hours, and the discharge flow rate shall not exceed the maximum flow rate of 2,000 L/min to minimize erosion.

(5) The Owner shall notify the District Manager (in writing) ten (10) business days prior to any new oil product (that would come in contact with the water in the tanks) being used at the facility in the future or any other changes at the facility that may impact the quality of water in the testing tank. The notification shall include the following:

- (a) detailed description of the use of the new oil product;
- (b) Material Safety Data Sheet for the new oil product;
- (c) a description of the potential of the new oil product to cause adverse effect; and
- (d) update/amendment to the tank water monitoring program if new oil product is used at the facility that may introduce new contaminants of concern.

(6) The Owner shall maintain a record of the results of these inspections and identify any cleaning and maintenance operations undertaken, and shall make the record available for inspection by the Ministry. The record shall include the following:

- (a) the name of the Works; and
- (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.

(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 monitoring activities required by this Approval.

## 7. MONITORING AND RECORDING

The Owner shall, upon commencement of operation of the Works, carry out the following monitoring program:

(1) 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.

(2) Samples shall be collected at locations satisfactory to the District Manager and analyzed for at least the following parameters at the frequency specified, by means of the specified sample type and analyzed for each parameter listed and all results recorded:

<b>Table 2 - Tank Water Monitoring</b>	
Samples to be collected from Tanks 2, 3, and 5. Samples shall be collected from the top water level of the tested tank prior to discharge.	
<b>Frequency</b>	once for each discharge
<b>Sample Type</b>	Grab
<b>Parameters</b>	pH, Petroleum Hydrocarbons F1, F2, F3, F4

(3) The methods and protocols for sampling, analysis, and recording shall conform, in order of precedence, to the methods and protocols specified in the following:

(a) the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (August 1994), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions;

(b) the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition) as amended from time to time by more recently published editions; and,

(c) in respect of any parameters not mentioned in (a) or (b), the written approval of the District Manager, which approval shall be obtained prior to sampling.

(4) The Owner shall retain for a minimum of three (3) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this Approval.

(5) The measurement frequency specified in this Condition, Subsection (1), above, and monitoring parameters specified in Subsections (3), above, may, after **two (2) years** of monitoring in accordance with this Condition, be modified by the Director in writing from time to time.

## 8. REPORTING

(1) The Owner shall report to the District Manager orally as soon as possible any non-compliance with the effluent criteria, and in writing within seven (7) days of non-compliance.

(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 to the District Manager on an annual basis within 60 days following the end of the period being reported upon. 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 monitoring data and a comparison to the Final Effluent limits outlined in the Compliance Limits condition, including an overview of the success and adequacy of the Works;
- (b) a description of any operating problems encountered and corrective actions taken;
- (c) a summary of all inspection, maintenance and clean-out carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;
- (d) a summary of any effluent quality assurance or control measures undertaken in the reporting period;
- (e) a summary of the calibration and maintenance carried out on all effluent monitoring equipment;
- (f) a summary of any complaints received during the reporting period and any steps taken to address the complaints; and
- (g) a summary of all spill or abnormal discharge events;

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

1. Condition 1 is imposed to ensure that the Works are constructed and operated in the manner in which they were described 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. Condition 2 is included to ensure that the Ministry records are kept accurate and current with respect to 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.
3. Condition 3 is included to ensure that a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the Ministry. Such a manual is an integral part of the operation of the works. Its compilation and use should assist the owner in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the owner's operation of the work.



4. Conditions 4 and 5 are imposed to ensure that the effluent discharged from the Works to the environment 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 require that the Works be properly operated and maintained such that the environment is protected.
6. Condition 7 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 interim effluent objectives specified in the Approval and that the Works does not cause any impairment to the receiving watercourse.
7. Condition 8 is included to provide a performance record for future references and to ensure that the Ministry is made aware of problems as they arise, and to provide an overview of the treatment performance and adequacy of the Works, so that the Ministry can work with the Owner in resolving the problems in a timely manner.

## **Schedule "A"**

1. Application for Approval of Industrial Sewage Works, dated September 12, 2019, submitted by Dale White from XCG Consulting Limited.
2. Technical Report in Support of Application for Environmental Compliance Approval Industrial Sewage Works dated September 5, 2019, prepared by XCG Consulting Limited.

*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

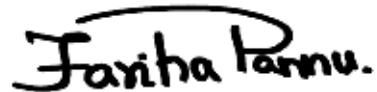
The Director appointed for the purposes of  
Part II.1 of the Environmental Protection Act  
Ministry of the Environment,  
Conservation and Parks  
135 St. Clair Avenue West, 1st Floor  
Toronto, Ontario  
M4V 1P5

**\* 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](http://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 12th day of February, 2020

A handwritten signature in black ink that reads "Fariha Pannu." The signature is written in a cursive style with a large, sweeping arch over the first few letters.

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

YZ/

c: District Manager, MECP Kingston District Office  
Dale White, XCG Consulting Limited