

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 4684-BLBQHW

Issue Date: April 17, 2020

Soneil Dorval Inc.
180 Advance Boulevard No. 3
Brampton, Ontario
L6T 4J4

Site Location: 280 Wyecroft Road
Town of Oakville
Regional Municipality of Halton

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:

A groundwater pumping and treatment system to pump and treat contaminated groundwater from the industrial site located at 280 Wyecroft Road, designed for a total daily average design flowrate of 25 L/min at normal operating conditions, a minimum daily average flow rate of 8 L/min, and a maximum daily average flow rate of 50 L/min, discharging the treated effluent to existing municipal storm sewers on Dorval Drive, comprising;

- **a Groundwater Extraction System** comprising of six groundwater extraction wells, installed on the north east and south west side property boundaries, (designed for a maximum total average daily flow rate of 50 L/min), each row connected with a common header pipe complete with flow meters and shut off valves, pumping out the contaminated water from groundwater extraction wells, and discharging to transfer tank;
- **one Transfer Tank** having a volume of 750 L, designed for a minimum retention time of 10 minutes, complete with transfer pumps each rated at 50 L/min under a TDH of 25 m, and discharging to two separate row of bag filters;
- **two Bag Filter Trains**, each train including three bag filters, side entry bag housing in 304 stainless steel, bag size 178 mm diameter, with filter media ranging from 5-micron to 25-micron, designed to treat a flow range of 8 L/min to 681 L/min, and remove silt and any other suspend solids, complete with a set value, a high level pressure relay switch to divert the feed groundwater flow from the extraction wells to the stand-by bag filter train;

- **one Primary Holding Tank**, 750L effective volume, molded polyethylene tank with lid, to store bag filter treated effluent and feeding the flow to the downstream Granular Activated Carbon (GAG) filters, complete with a level sensor and transmitter monitors water level in the tank and controls ON/OFF operation of the downstream GAC feed pump;
- **two GAC (Granular Activated Carbon) Filters** operating in series, having a bed media filter volume of 1 m³ at a minimum, designed for a Minimum Empty Bed Contact (MEBC) time of 15 minutes and a minimum of 15 minutes of Empty Bed Contact Time (EBCT) at the maximum flow, installed to treat BTEX and VOCs, and discharging to existing municipal storm sewers located on Dorval Drive;

including all other mechanical system, and control system, piping, valves and appurtenances essential for the proper, safe and reliable operation of the Works in accordance with this Approval, in the context of process performance and general principles of wastewater engineering only;

all in accordance with the submitted supporting documents listed in Schedule A.

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

1. "Approval" means this entire document and any schedules attached to it, and the application;
2. "District Manager" means the District Manager of the London District Office of the Ministry;
3. "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;
4. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;
5. "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;
6. "mg/L" means milligrams per Litre;
7. "Owner" means Soneil Dorval Inc., and its successors and assignees;
8. "OWRA" means the Ontario Water Resources Act, R.S.O. 1990, c. O.40, as amended;
9. "ug/L" means micrograms per litre
10. "Proposed Works" means the sewage works described in the Owner's application, this Approval, to the extent approved by 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 CONDITION

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, and the application for approval of the Works.
3. Where there is a conflict between a provision of any document in the schedule 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 documents in the schedule, the document bearing the most recent date shall prevail.
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 Conditions of this Approval are severable. If any Condition of this Approval, or the application of any requirement of this 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.

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 or operating authority, or both;
 - b. change of address of Owner or operating authority or address of new Owner or operating authority;
 - c. change of partners where the Owner or operating authority is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Partnerships Registration Act*;
 - d. change of name of the corporation where the Owner or operator is or at any time becomes a corporation, and a copy of the most current "Initial Notice or Notice of Change" (Form 1, 2 or 3 of O. Reg. 189, R.R.O. 1980, as amended from time to time), filed under the

Corporations Information Act , shall be included in the notification to the District Manager;

2. In the event of any change in ownership of the Works, 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.
3. The Owner shall ensure that all communications made pursuant to this condition will refer to this Approval's number.

3. OPERATIONS MANUAL

1. The Owner shall prepare an operations manual prior to the commencement of operation of the sewage works, that includes, 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 OBJECTIVES

1. The Owner shall use best efforts to design, construct and operate the Works with the objective that the concentrations of the materials listed as effluent parameters in the effluent objectives table in **Schedule B** are not exceeded in the effluent from the Works.
2. As a further effluent objective, the Owner shall use best efforts to maintain the pH of the effluent from the Works within the range of 6.8 to 8.5, inclusive, at all times.
3. The Owner shall include in all reports submitted in accordance with Condition 7 a summary of the efforts made and results achieved under this Condition.

5. EFFLUENT MONITORING AND RECORDING

1. The Owner shall, upon commencement of operation of the sewage works, carry out a monitoring program and 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 and analyzed at the sampling point(s), at the sampling frequencies and using the sample type specified for each parameter listed in the effluent monitoring table included in **Schedule C**.
3. The methods and protocols for sampling, analysis, toxicity testing, 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" (January 1999), 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) - (c), the written approval of the District Manager, which approval shall be obtained prior to sampling.
4. The temperature and pH of the effluent from the Works shall be determined in the field at the time of sampling.
5. A continuous flow measuring device(s) shall be installed and maintained to measure the flowrate of the effluent from the sewage works, with an accuracy to within plus or minus 15 per cent of the actual flowrate for the entire design range of the flow measuring device and the Owner shall measure, record and calculate the flowrate for each effluent stream on each day of sampling.

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. The Owner shall report to the District Manager or designate, any exceedance of any parameter specified in Condition 4 orally, as soon as reasonably possible, and in writing within seven (7) days of the exceedance.
3. In addition to the obligations under Part X of the EPA, 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.

4. The Owner shall prepare and a performance report on an annual basis within sixty (60) days following the end of the period being reported upon, and make it available upon request. 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 effluent objectives outlined in Condition 4, including an overview of the success and adequacy of the sewage Works;
 - b. a description of any operating problems encountered and corrective actions taken;
 - c. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the sewage 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 description of efforts made and results achieved in meeting the Effluent Objectives of Condition 4.
 - g. any other information the District Manager requires from time to time.
5. At the end of the three year monitoring period as per Subsection 6(4), the Owner shall submit a report to the District Manager which shall include but not limited to the summary and interpretation of all monitoring data and recommendations in the light of the monitoring data for any changes as to how, the sewage works may be modified, if required.

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. 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 Works.
4. Condition 4 is imposed to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs.
5. Condition 5 is included to require the Owner to demonstrate on a continual basis that the quality and quantity of the effluent from the approved works is consistent with the (design objectives and) effluent limits specified in the Approval and that the approved works does not cause any impairment to the receiving watercourse.
6. Condition 6 is included to provide a performance record for future references and to ensure that the Ministry is made aware of problems as they arise, so that the Ministry can work with the Owner in resolving the problems in a timely manner.

Schedule A

1. Application for Environmental Compliance Approval May 23, 2019 and received on May 29, 2019, including design report, final plans, specifications and all supporting documentation.

Schedule B

Final Effluent Objectives For Sewage Works

Concentration Objectives for final effluent sampled at: sampling port near discharge of the treatment system

Final Effluent Parameter	Averaging Calculator	Objective (maximum ug/L unless otherwise indicated)
Total Suspended Solids	Single Sample Result*	15.0 mg/L
Benzene	Single Sample Result*	2.0
Chloroform	Single Sample Result*	2.0
1,4-Dichlorobenzene	Single Sample Result*	6.8
Ethylbenzene	Single Sample Result*	2
Methyl Chloride (Dichloromethane)	Single Sample Result*	5.2
Tetrachloroethylene	Single Sample Result*	4.4
Toluene	Single Sample Result*	2
Trichloroethylene	Single Sample Result*	7.6
pH	Single Sample Result*	6.5 - 8.5

*based upon a sampling frequency of 1 time per month, at a minimum

Schedule C

Monitoring Program For Sewage Works

Sampling Location	sampling port near discharge of the treatment system
Frequency	Monthly
Sample Type	Grab
Parameters	Total Suspended Solids, Benzene, chloroform, 1,4 Dichlorobenzene, Ethylbenzene, Methyl Chloride (Dichloromethane) Tetrachloroethylene, Trichloroethylene, Toluene and pH

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

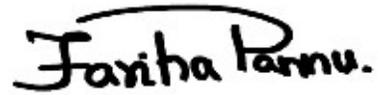
The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** 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 17th day of April, 2020



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

KH/

c: District Manager, MECP Halton Peel District.
Melanie Kennedy, Golder Associates Ltd.