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Ministry of the Environment, Conservation and Parks
Ministère de l'Environnement, de la Protection de la nature et des Parcs

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 4856-BEURCQ

Issue Date: September 18, 2019

ShawCor Ltd.
455 West Airport Road, Huntsville,
Ontario, P1H 1Y7

Site Location: 455 West Airport Rd
Town of Huntsville, District Municipality of Muskoka
Ontario, P1H 1Y7

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 to service the existing industrial facility - manufacturer of specialty pipeline coatings for the sealing and corrosion protection, for the collection, transmission, treatment and disposal of stormwater runoff from a developed catchment area of 15 hectares included within a total site area of 30 ha, to provide enhanced Level (80% SS removal) of water quality protection, erosion and quantity control for up to 100-year return events, discharging into roadside ditch along West Airport Road and unnamed low lying areas / tributaries of Hunter's Bay of Lake Vernon, consisting of the following:

Existing Works:

1. Site drainage:

- three (3) 150 mm diameter pipes from the roof drainage discharging into an existing catchbasin and two (2) 150 mm diameter Big-O drain pipes each approximately 140 m long to discharge to the west into an Existing Ditch 2 as described later:
- One (1) existing drain pipe from the roof drainage discharging to the east into an existing firewater pond belonging to the Owner.

2. Existing Ditch 1: an open ditch approximately 66 m long, 2 m top width and 750 mm deep, located along the north-east corner and parallel to West Airport Road, to discharge stormwater to the east into a 22 m long 450 mm diameter CSP replacement culvert under the main entrance of the site, to flow along the West Airport Road to discharge into roadside ditch leading into an existing wetland belonging to the Owner, approximately 50 m downstream, and finally into the Hunters Bay approximately 575m downstream.

3. Existing Ditch 2: an open ditch approximately 80 m long, 2 m top width and 750 mm deep, complete with two (2) rip rap check dams, to discharge stormwater to the west onto an existing low-lying area belonging to the Owner to flow along the CN Railway Line to discharge into the Muskoka Road 3 side ditch, and finally into the Hunters Bay approximately 1.0 km downstream; all to work with the following proposed works:

Proposed Works:

1. Site drains: one (1) 200 mm diameter storm drain, approximately 63 m long from catchbasin CB 1, one (1) 33 m long 375 mm diameter storm drain from double inlet catchbasin DCB 2, one (1) 61 m long 200 mm diameter storm drain from catchbasin CB 4; and 200 mm and 375 mm inlets and 525 mm diameter storm sewer outlet pipe in double inlet catchbasin manhole DCBMH 3, all to discharge stormwater into an oil and grit separator (OGS 2) as described below:
2. Oil and Grit Separator at DCBMH 3 **OGS 2** (Aqua-Swirl by AquaShield Inc. Model AS-4 or approved equal): to intercept surface run-offs from CB 1, DCB 2, DCBMH 3 and CB 4, located in the West Yard area, complete with a 525 mm diameter inlet pipe and having a treatment flow capacity 91 L/s, sediment storage volume of 0.91 cu.m. and oil storage volume of 719 L, complete with an overflow by-pass line to discharge effluent via a 525 mm diameter stormsewer approximately 72 m long discharge line onto a rip rap protected plunge pool outlet located in the Existing Ditch 2 as described earlier.
3. Grass Swales: surface water drainage from the Parking Area located at the south-eastern area of the site is to be intercepted in two sections of grassed swales approximately 72 m and 50 m long, 500 mm deep, with 1:2 side slope, located at the east and south side of the proposed parking lot to discharge into a ditch inlet catchbasin to discharge via 300 mm diameter flow control pipe coupled into a 450 mm diameter outlet pipe into an oil and grit separator (OGS 1) as described below:
4. Oil and Grit Separator- **OGS 1** (Aqua-Swirl by AquaShield Inc. Model AS-3 or approved equal): complete with a 450mm diameter inlet pipe, having a treatment flow capacity 51 L/s, sediment storage volume of 0.57 cu.m. and oil storage volume of 416 L, complete with an overflow by-pass line to discharge effluent via a 450 mm diameter stormsewer to join in to discharge onto a rip rap protected outlet plunge pool located in a Constructed Ditch as described below:
6. Constructed Ditch: an open ditch with 500 mm flat bottom, sodded, approximately 140 m long, 400 mm to 800 mm deep, with 1:2 side slope, located on the south-east boundary of the site complete with five (5) temporary straw-bale and two (2) rip rap check dams and bordered with vegetative surface, designed to intercept surface run-off from the south-eastern area of the site, to finally discharge stormwater into an existing wetland area located at the east side of the property, belonging to the Owner; including all erosion/sedimentation control measures at the existing water courses on the site, during construction and all other controls and appurtenances essential for the proper operation of the aforementioned Works; all in accordance with the following submitted supporting documents as 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 Barrie 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. "Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of a named equipment;
6. "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;
7. "Owner" means ShawCor Ltd. and its successors and assignees;
8. "Proposed Works" means the sewage works described in the Owner's application, this Approval, to the extent approved by this Approval;
9. "Source Protection Plan" means a drinking water source protection plan prepared under the *Clean Water Act, 2006*;
10. "Works" means the sewage works described in the Owner's application, and this Approval, and includes both Proposed Works and Previous 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 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 (5.5 to 9.5, inclusive, at all times.
3. The Owner shall include in all reports submitted in accordance with Conditions 6 and 7 a summary of the efforts made and results achieved under this Condition.

5. EFFLUENT - VISUAL OBSERVATIONS

1. 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 waters.

6. 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) - (b), 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 for total ammonia. The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended, for ammonia (un-ionized).
5. 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. 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 submit a performance report to the District Manager on an annual basis within sixty (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 description of efforts made and results achieved in meeting the Effluent Objectives of Condition 4 including an overview of the success and adequacy of the sewage Works; a description of any operating problems encountered and corrective actions taken;

b. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the sewage works;

c. a summary of any effluent quality assurance or control measures undertaken in the reporting period;

d. a summary of the calibration and maintenance carried out on all effluent monitoring equipment;

e. 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.

2.

3. 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.
- 4.
5. Condition 4 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.
- 6.
7. Condition 5 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.
- 8.
9. Conditions 5 and 6 are 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 specified in the Approval and that the approved works does not cause any impairment to the receiving watercourse.
- 10.
11. Condition 7 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.
- 12.

SCHEDULE - A

List of supporting document:

1. Application for Environmental Compliance Approval, dated March 6, 2019, submitted by Chris Stilwell, P. Eng., Tulloch Engineering Inc. on behalf of the Owner.
2. Stomwater Management Design Brief, Canusa-CPS Parking Lot Expansion, Revision 3, and drawings dated September 10, 2019 prepared and submitted by Chris Stilwell, P. Eng, of Tulloch Engineering Inc.
- 3.
- 4.

Schedule -B.

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| Table 1 - Effluent Objectives |
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| Effluent Parameter | Concentration Objective |
|-----------------------------|-------------------------|
| Oil and grease/Hydrocarbons | 15 mg/L |

Schedule -C.

| Table 2 - Effluent Monitoring - (Sample Points at the Outlet of the Oil and Grit Separators before discharge into the outlet ditches) | | |
|--|---|----------------|
| Effluent Parameter | Frequency | Sample Type |
| Total Ammonia, pH and temperature | Bi-monthly. Six times over a year, relatively evenly spaced; at least a minimum three (3) of these samples are to be taken within 48 hours after a 10mm rainfall event. | Grab and Probe |
| Oil and grease / Hydrocarbons. | Bi-monthly. Six times over a year, relatively evenly spaced; at least a minimum three (3) of these samples are to be taken within 48 hours after a 10mm rainfall event. | Grab |

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 18th day of
September, 2019

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

MN/
c: District Manager, MECP Barrie
Chris Stilwell, P. Eng., Tulloch Engineering Inc.