

**ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 8870-BRALCG  
Issue Date: August 13, 2020

Corbec Galvanizing Inc.  
22 Ambitious Court  
Hamilton, Ontario  
L0R 1P0

Site Location: 22 Ambitious Court  
City of Hamilton  
L0R 1P0

*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:*

the establishment of a stormwater management works for the collection, transmission, treatment and disposal of storm water runoff from a hot dip galvanizing metal plant via a stormwater management facility, which ultimately discharges to Twenty Mile Creek, consisting of the following:

- a storm sewer system in the employee parking lot comprising of a manhole, catch basins, and storm sewers, discharging to a ditch on the west edge of the property via an oil/water separator described below;
- an oil/grit separator for treatment of stormwater from the employee parking area, with a total sediment storage volume of 1.19 cubic meters and oil storage capacity of 265 litres;
- a ditch on the west edge of the property to convey the storm water from the employee parking area as well as an additional 11.56 ha of upstream off-Site agricultural land's flow to the stormwater management pond;
- a storm sewer collection system in the exterior storage yard comprising of catch basins, manholes, and drainage pipe, discharging to a stormwater treatment system;
- a stormwater treatment system to treat runoff from the exterior storage yard, comprising a Soleno Hydrostor cistern (or approved equivalent) with manhole access and lid and a total storage capacity of 427 cubic meters, an AquaShield Aqua-Swirl AS-2 hydrodynamic separator (or approved equivalent) for removal of oils, floatables, total suspended solids, and an AquaShield Aqua-Filter AF-X.2 filter media treatment unit (or approved equivalent) for removal of fine particles.
- a bypass storm sewer upstream of the treatment system described above provided to convey excess flow directly to the stormwater management pond;

- a roof drain system collecting stormwater on the building roof, discharging to a stormwater sewer system comprised of a manhole, storm sewers, discharging to a grassed lined channel in the centre of the property;
- a grassed channel in the middle of the property to convey stormwater flow from the treatment system and the building roof to the stormwater management pond;
- a ditch on the east side of the property to convey flow from outside of the exterior storage yard to the stormwater management pond;
- a stormwater management dry pond having two (2) sediment forebay areas for sediment removal, and a dry pond with an active storage volume of 3,000 cubic meters, complete with an emergency shut-off valve at the pond outlet for potential spill protection, an emergency overflow weir and outlet sewer to an existing channel that ultimately flows to Twenty Mile Creek,

including erosion/sedimentation control measures during construction and all other controls, and appurtenances essential for the proper operation of the aforementioned sewage works,

all in accordance with supporting documents listed in 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;

"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 Corbec Galvanizing LP, and its successors and assignees;

"District Manager" means the District Manager for the Hamilton office of the Ministry;

"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 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. EXPIRY OF APPROVAL**

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 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.

#### **4. 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 specified in Subsection (1). The records shall include the name of the inspector, date of inspection, and any remedial measures undertaken to maintain the temporary sediment and erosion control measures. These records shall be made available for inspection by the Ministry, upon request.

#### **5. SPILL CONTINGENCY AND POLLUTION PREVENTION PLAN**

(1) Before the commencement of operation of the Works, the Owner shall prepare a Spill Contingency and Pollution Prevention Plan that outlines procedures as to how to mitigate the impacts of a spill within the drainage areas serviced by the Works and prevent pollution incidents, and provide a copy to the District Manager. The said plan shall include as a minimum, but not limited to:

- (a) the name, job title and 24-hour telephone number of the person(s) responsible for activating the Spill Contingency and Pollution Prevention Plan;
- (b) a site plan drawn to scale showing the types of business, streets, catch basins and/or manholes and/or ditches and/or drainage channels, drainage patterns (including direction(s) of flow in storm sewers) and any features which need to be taken into account in terms of potential impacts on access and response (including physical obstructions and location of response and clean-up equipment);
- (c) steps to be taken to report, contain, clean up and dispose of contaminants following a spill;
- (d) a listing of telephone numbers for: local clean-up companies who may be called upon to assist in responding to spills; local emergency responders including health institution(s); and Ministry of the Environment and Climate Change (MOECC) Spills Action Centre 1-800-268-6060;
- (e) Materials Safety Data Sheets (MSDS) for each and every hazardous material which may be

transported or stored within the area serviced by the Works;

- (f) a description of the spill response and pollution prevention training provided to employees assigned to work in the area serviced by the Works, the date(s) on which the training was provided and to whom;
- (g) an inventory of response and clean-up equipment available to implement the Spill Contingency and Pollution Prevention Plan, location and date of maintenance/replacement if warranted, including testing and calibration of the equipment; and
- (h) the date on which the Spill Contingency and Pollution Prevention Plan was prepared and subsequently, amended.

(2) The Spill Contingency and Pollution Prevention Plan shall be kept at the office of the operating authority.

(3) The Spill Contingency and Pollution Prevention Plan will be amended from time to time as needed by changes in the operation of the facility or to reflect updates in the Municipal By-Laws, or improved Best Management Practices by the Owner.

## 6. 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 named below as effluent parameters are not exceeded in the effluent from the Works.

<b>Effluent Parameter</b>	<b>Annual Concentration Limit</b> (milligrams per litre unless otherwise indicated)
Column 1	Column 2
Zinc (dissolved)	0.1
Iron (total)	0.3
Total Suspended Solids	25
Oil & Grease	10
pH of the effluent maintained between 6.0 to 9.5, inclusive, at all times	

(2) In the event of an exceedence of the objective set out in subsection (1), the Owner shall:

- (a) notify the District Manager as soon as possible during normal working hours,
- (b) take immediate action to identify the source of contamination, and

(c) take immediate action to prevent further exceedence.

(3) 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 6.0 to 9.5 inclusive, at all times.

(4) The Owner shall include in all reports submitted in accordance with Conditions 10, a summary of the efforts made and results achieved under this Condition.

**7. EFFLUENT LIMITS**

(1) The Owner shall design, construct and operate 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 2 - Effluent Limits (at Stormwater Pond discharge point)</b>	
<b>Effluent Parameter</b>	<b>Annual Concentration Limit (milligrams per litre unless otherwise indicated)</b>
Column 1	Column 2
Zinc (dissolved)	0.2
Iron (total)	0.6
Total Suspended Solids	40
Oil & Grease	15
pH of the effluent maintained between 6.0 to 9.5, inclusive, at all times	

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

(b) non-compliance with respect to an Average Concentration Limit is deemed to have occurred when the arithmetic mean concentration of all samples taken in a year analyzed for a parameter named in Column 1 of subsection (1) is greater than the corresponding average annual concentration set out in Column 2 of subsection (1).

## **8. OPERATION AND MAINTENANCE**

- (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 according to the manufacturer's recommendations.
- (2) Upon commencement of operation of the Works, the Owner shall implement a Spill Contingency and Pollution Prevention Plan prepared in accordance with Condition 5.
- (3) The Owner shall ensure that the design minimum liquid retention volume of the pond is maintained at all times.
- (4) The Owner shall conduct quarterly inspection of the Works (e.g. catch basins, oil and grit separators, wet pond etc.) and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation.
- (5) The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook a copy on site where possible and at the operating authority's office. Upon request, the Owner shall make the logbook available for inspection and copying by Ministry personnel. The logbook 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 method of clean-out of the stormwater management Works.
  - (c) the date of each spill within the catchment area, including follow-up actions/remedial measures undertaken.

## **9. 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.

**10. MONITORING AND RECORDING**

(1) The Owner shall, upon the issuance of this Approval, carry out a stormwater monitoring program. The monitoring program shall include obtaining grab samples from the outlet of the filter media treatment unit and stormwater management pond as follows.

(2) 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.

(3) Samples shall be collected and analyzed at the following sampling points, at the sampling frequencies and using the sample type specified for each parameter listed:

<b>Table 3 – Effluent Monitoring (Sampling point - Stormwater Pond discharge point)</b>	
Frequency	quarterly
Sample Type	grab
Parameters	Total Suspended Solids, Oil and Grease, ICP Metals (Total and Dissolved) <sup>1</sup>

1. ICP metal scan shall include aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, thallium, uranium, vanadium, and zinc.

<b>Table 4 – Intermediate Sampling Point Monitoring (Sampling point - Filter media treatment unit discharge pipe, downstream of cistern)</b>	
Frequency	quarterly
Sample Type	grab
Parameters	ICP Metals (total and Dissolved) <sup>1</sup>

1. ICP metal scan shall include aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, thallium, uranium, vanadium, and zinc.

(4) 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" (21<sup>st</sup> 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.

(5) 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.

(6) The Owner shall operate the Storm Water Management Pond with the outlet valve in a normally closed position for a period of one (1) year following construction. Following a significant storm event, the Owner shall conduct monitoring in the outlet basin for the parameters specified in Subsection (3) Table 3. The results should be compared to the Effluent Limits outlined in Table 2. The Owner may discharge the stored water in the pond to the receiving watercourse only if the sampling results show the Effluent Limits are not being exceeded.

(7) If the sampling results as outlined in subsection (6) exceed Effluent Limits outlined in Table 2, the Owner shall collect a second sample and compare to the Limits in Table 2. The Owner may discharge the stored water in the pond to the receiving watercourse only if the sampling results show the Effluent Limits are not being exceeded.

(8) If the sampling results as noted in subsection (7) exceed the Effluent Limits, the Owner shall not discharge any stored water from the pond and conduct required additional studies, as required to investigate the reasons for the elevated results, and propose modification, as required to the District Manager for approval.

(9) In the event of an emergency, within the first year of operations while the pond is being operated normally closed, should it become necessary to release water from the pond to prevent overflow conditions, the water may be released after notification to the District Manager in writing.

(10) The measurement frequency specified in this Condition, Subsection (1), above, and monitoring parameters specified in Subsections (3), above, may, after **one (1) year** of monitoring in accordance with this Condition, be modified by the District Manager in writing from time to time.

## **11. 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 *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 upon request, submit a performance report to the District Manager, on an annual basis within 90 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, 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 inspection, maintenance and clean-out carried out on the ditch/catch basins, oil & grit separators and wet pond;
- (d) a summary of all spill or abnormal discharge events; and,
- (e) a summary of any Notifications and Contingency Plan undertaken during the reporting period and a discussion regarding their adequacy.

*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, 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 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 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.
5. Condition 5 is included to ensure that the Ministry is immediately informed of the occurrence of an emergency or otherwise abnormal situation so that appropriate steps are taken to address the concerns regarding the protection of public health and minimizing environmental damage and to devise an overall abatement strategy to prevent long term degradation and the re-occurrence of the situation.
6. Condition 6 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 and before the compliance limits of Condition 7 are exceeded.
7. Condition 7 is imposed to ensure that the effluent discharged from the Works meets the Ministry's effluent quality requirements thus minimizing environmental impact on the receiver.
8. Condition 8 and 9 are 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.
10. Condition 10 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.
11. Condition 11 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

Schedule 'A' forms part of this Approval and contains a list of supporting documentation / information received, reviewed and relied upon in the issuance of this Approval.

1. Application for an Environmental Compliance Approval dated March 24, 2020 signed by Angelo Palucci, Supply Chain Manager, Corbec Galvanizing Inc., as general partner for and on behalf of Corbec Galvanizing LP, including supporting information submitted by GHD Ltd., Consulting Engineers.

*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 13th day of August, 2020



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

HV/

c: District Manager, MECP Hamilton - District  
Dilan Singaraja, GHD Ltd.