

**ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 0682-C48KH3  
Issue Date: March 7, 2022

Lafarge Canada Inc.  
6509 Airport Road  
Mississauga, Ontario  
L4V 1S7

Site Location: Lafarge Grinding Plant and Cement Terminal  
683917 Road 68 (HWY 2)  
Part Lots 1-2, Concession 4 as legally described in PINs  
00214-0031 (LT), 00214-0063 (LT) and 00214-0011 (LT)  
Township of Zorra, County of Oxford  
N5C 3J5

*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 continued use and operation of Existing stormwater management Works to serve 683917 Road 68 (HWY 2) on Part Lots 1-2, Concession 4 as legally described in PINs, 00214-0031 (LT), 00214-0063 (LT) and 00214-0011 (LT), located in the Township of Zorra, Oxford County, for the collection, transmission, treatment, and disposal of stormwater, and non-contact cooling water which is sourced from the Quarry East Pond located on the Lafarge quarry site located to the west of 35th Line as well as the stormwater runoff from the subject Grinding Plant and Cement Terminal with a total catchment area of ~28 hectares, discharging to the Cartmale Drain, consisting of the following;

- Non-contact cooling water, with a total maximum flow of approximately 454 Litres per minute, from the grinding mill and slag coolers located in the central portion of the Site, and storm sewers collecting stormwater from the mill, plant, main office, maintenance building and storage silo areas, having diameters ranging from 300 millimetres to 600 millimetres, discharging to a drainage ditch and then through a discharge control structure;
- Control structure consists of a concrete broad-crested spillway weir, with approximate dimensions of 2.44 metres long and 0.46 metres deep, and an approximate 76 millimetre diameter orifice plate conveying the controlled stormwater and non-contact cooling water to Cartmale Drain, complete with a broad-crested weir spillway structure, conveying the excess overflow during wet weather events to the Cartmale Drain;

all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage works;

all in accordance with the **Schedule A**.

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

"Approval" means this entire Environmental Compliance Approval and any Schedules attached to it;

"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 appropriate local district office of the Ministry where the Works is geographically located;

"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;

"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 Lafarge Canada Inc., and includes its successors and assignees;

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

"Works" means the approved sewage Works and includes 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 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 terms and conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

2. The Owner shall design, construct, operate and maintain the Works in accordance with the conditions of this Approval.
3. Where there is a conflict between a provision of any document referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence.
4. 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 address of Owner;
  - b. change of Owner, including address of new 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; or
  - 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, 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.
3. The Owner shall ensure that all communications made pursuant to this condition

refer to the environmental compliance approval number.

### 3. RECORD DRAWING

1. A set of As-built drawings of the Works shall be kept up to date through revisions undertaken from time to time and a copy shall be readily accessible for reference at the Works.

### 4. OPERATION AND MAINTENANCE

1. The Owner shall make all necessary investigations, take all necessary steps and obtain all necessary approvals so as to ensure that the physical structure, siting and operations of the Works do not constitute a safety, health or flooding hazard to the general public.
2. The Owner shall undertake an inspection of the condition of the Works, at least once a year, and undertake any necessary cleaning and maintenance to ensure that sediment, debris and excessive decaying vegetation are removed from the Works to prevent the excessive build-up of sediment, oil/grit, debris and/or decaying vegetation, to avoid reduction of the capacity and/or permeability of the Works, as applicable. The Owner shall also regularly inspect and clean out the inlet to and outlet from the Works to ensure that these are not obstructed.
3. The Owner shall construct, operate and maintain the Works with the objective 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, foam or discoloration on the receiving waters.
4. The Owner shall ensure the immediate clean-out of the Works after a fuel or oil spill capture.
5. The Owner shall ensure that equipment and material for the containment, clean-up and disposal of fuel and oil and materials contaminated with such, is on hand and in good repair for immediate use in the event of:
  - a. loss of fuel or oil to the Works; or
  - b. a spill within the meaning of Part X of the EPA.

6. The Owner shall prepare an operations manual within six months of the issuance of this Approval, that includes, but is not necessarily limited to, the following information:
  - a. operating and maintenance 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 abnormal situations and for notifying the District Manager; and
  - e. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.
7. The Owner shall maintain an up to date operations manual and make the manual readily accessible for reference at the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.
8. 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 at the Works for inspection by the Ministry. The logbook shall include the following:
  - a. the name of the Works;
  - 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 Works; and,
  - c. the date of each spill within the catchment area, including follow-up actions and remedial measures undertaken.
9. 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.

## 5. EFFLUENT OBJECTIVES

1. The Owner shall design and undertake everything practicable to operate the Works in accordance with the following objectives:
  - a. Effluent parameters design objectives listed in the table(s) included in **Schedule B**.
  - b. 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 or sheen or foam or discolouration on the receiving waters.
2. In the event of a greater than 50% mortality rate for the Effluent Acute Lethality Test as included in the **Schedule B**, the Owner shall immediately;
  - a. notify the District Manager as soon as possible during normal working hours;
  - b. repeat the test and upon a second 50% mortality undertake steps to determine the cause of the mortality, and;
  - c. take immediate action to ameliorate the situation in a timely fashion

## 6. EFFLUENT LIMITS

1. The Owner shall design, construct and operate the Works such that the concentrations of the materials listed as effluent parameters in the effluent limits table in **Schedule B** are not exceeded in the effluent from the Works.

## 7. SPECIAL CONDITION - ESTABLISHING FUTURE LIMITS OR OBJECTIVES FOR TOTAL SUSPENDED SOLIDS, TEMPERATURE, IRON AND ALUMINIUM

1. For a 2 year period, commencing the date of this approval, the Owner shall monitor and collect monthly samples (grab samples) and analyze for Total Suspended Solids, Temperature, Iron and Aluminium, at Upstream location, the Discharge control structure location and Downstream monitoring points identified in the **Schedule C**;
2. The data collected pursuant to subsection 6 (1) above, shall be used to subsequently prepare and submit a report to the District Manager, within 3 months of the completion of monitoring period. This report shall contain the following, at a minimum;
  - a. recommendation of appropriate long-term objectives for Total Suspended Solids, Temperature, Iron and Aluminium

- b. develop general housekeeping practices at the Site

## 8. EFFLUENT MONITORING

1. The Owner shall, upon issuance of this Approval, 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 in **Schedule B**.
3. The Owner shall monitor the flow through a continuous flow measurement device installed at the discharge control structure (orifice weir);
4. 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;
  - c. for any parameters not mentioned in the documents referenced in Paragraphs 3.a and 3.b, the written approval of the District Manager shall be obtained prior to sampling.
5. The measurement frequencies specified in the effluent monitoring table in Schedule B in respect of any parameter are minimum requirements which may, after Twenty Four (24) months of monitoring in accordance with this Condition, be modified by the Director in writing from time to time.

## 9. REPORTING

1. The Owner shall, upon request, make all reports, manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.

2. In addition to the obligations under Part X of the EPA and O. Reg. 675/98 (Classification and Exemption Of Spills and Reporting of Discharges), the Owner shall, within fifteen (15) days of the occurrence of any reportable spill as provided in Part X of the EPA and Ontario Regulation 675/98, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill, clean-up and recovery measures taken, preventative measures to be taken and a schedule of implementation.
3. The Owner shall prepare performance reports on a calendar year basis and submit to the District Manager by March 31 of the calendar year following the period being reported upon. The reports shall contain, but shall not be limited to, the following information pertaining to the reporting period:
  - a. a summary and interpretation of all monitoring data and a comparison to the Effluent Objectives and Effluent Limits outlined in Conditions 5 and 6, 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 Works, including an estimate of the quantity of any materials removed from the Works;
  - d. a summary of the calibration and maintenance carried out on all effluent monitoring equipment;
  - e. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
  - f. a description of efforts made and results achieved in meeting the Effluent Objectives and effluent Limits of Conditions 5 and 6.
  - g. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
  - h. a summary of all spill or abnormal discharge events; and
  - i. any other information the District Manager requires from time to time.



4. The Owner shall report to the District Manager any exceedance of the effluent limits set out in the effluent limits table in Schedule B, orally as soon as possible, and in writing within seven (7) days of the exceedance.

*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. Condition 1.4 is included to emphasize that the issuance of this Approval does not diminish any other statutory and regulatory obligations to which the Owner is subject in the construction, maintenance and operation of the Works. The Condition specifically highlights the need to obtain any necessary conservation authority approvals. The Condition also emphasizes the fact that this Approval doesn't limit the authority of the Ministry to require further information.
2. Condition 2 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.
3. Condition 3 is included to ensure that the Works are constructed in accordance with the approval and that record drawings of the Works "as constructed" are maintained for future references.
4. Condition 4 is included as regular inspection and necessary removal of sediment and excessive decaying vegetation from the Works are required to mitigate the impact of sediment, debris and/or decaying vegetation on the treatment capacity of the Works. The Condition also ensures that adequate storage is maintained in the Works at all times as required by the design. Furthermore, this Condition is included to ensure that the Works are operated and maintained to function as designed.
5. Condition 5 is included to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to meet on an ongoing basis. Also imposed are procedures to be followed to minimize environmental impact in the event the objectives are exceeded.
6. Condition 6 is included to ensure that the effluent discharged from the Works meets the Ministry's effluent quality requirements, as specified, on a continuous basis, thus minimizing

environmental impact on the receiver.

7. Condition 7 is included as proposed.
8. Condition 8 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 and effluent objectives specified in the Approval and that the approved works does not cause any impairment to the receiving watercourse.
9. Condition 9 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**

1. Environmental Compliance Approval Application for Industrial Sewage Works dated April 30, 2021 and received on May 4, 2021.

**Schedule B**

**Interim Effluent Objectives Table**

**(measured at the discharge outlet from the Discharge Structure Monitoring location)**

<b>Effluent Parameter</b>	<b>Monthly Concentration Objective</b> (milligrams per litre unless otherwise indicated)
Column 1	Column 2
TSS	25*

\* Interim Objective, to be confirmed after 2 years of monitoring as per Condition No. 6

**Effluent Limits Table**

**(measured at the discharge outlet from the Discharge Structure Monitoring location)**

<b>Effluent Parameter</b>	<b>Monthly Concentration Limit*</b> (milligrams per litre unless otherwise indicated)
Column 1	Column 2
Oil and Grease	15
pH	6.5 - 9.0 inclusive, at all times
Acute Lethality (48 hour Daphnia Magna , 72 hour rainbow trout)**	Pass (Semi-annually)***

\* unless otherwise indicated

\*\* The Owner shall perform the Rainbow trout test according to the procedures described in the Environment Canada publication entitled “Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout”, as amended from time to time

The Owner shall perform the Daphnia Magna test according to the procedures described in the Environment Canada publication entitled “Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Daphnia Magna”, as amended from time to time.

\*\*\* Semi-annually means twice per calendar year, with successive samples taken at least 4 months apart.

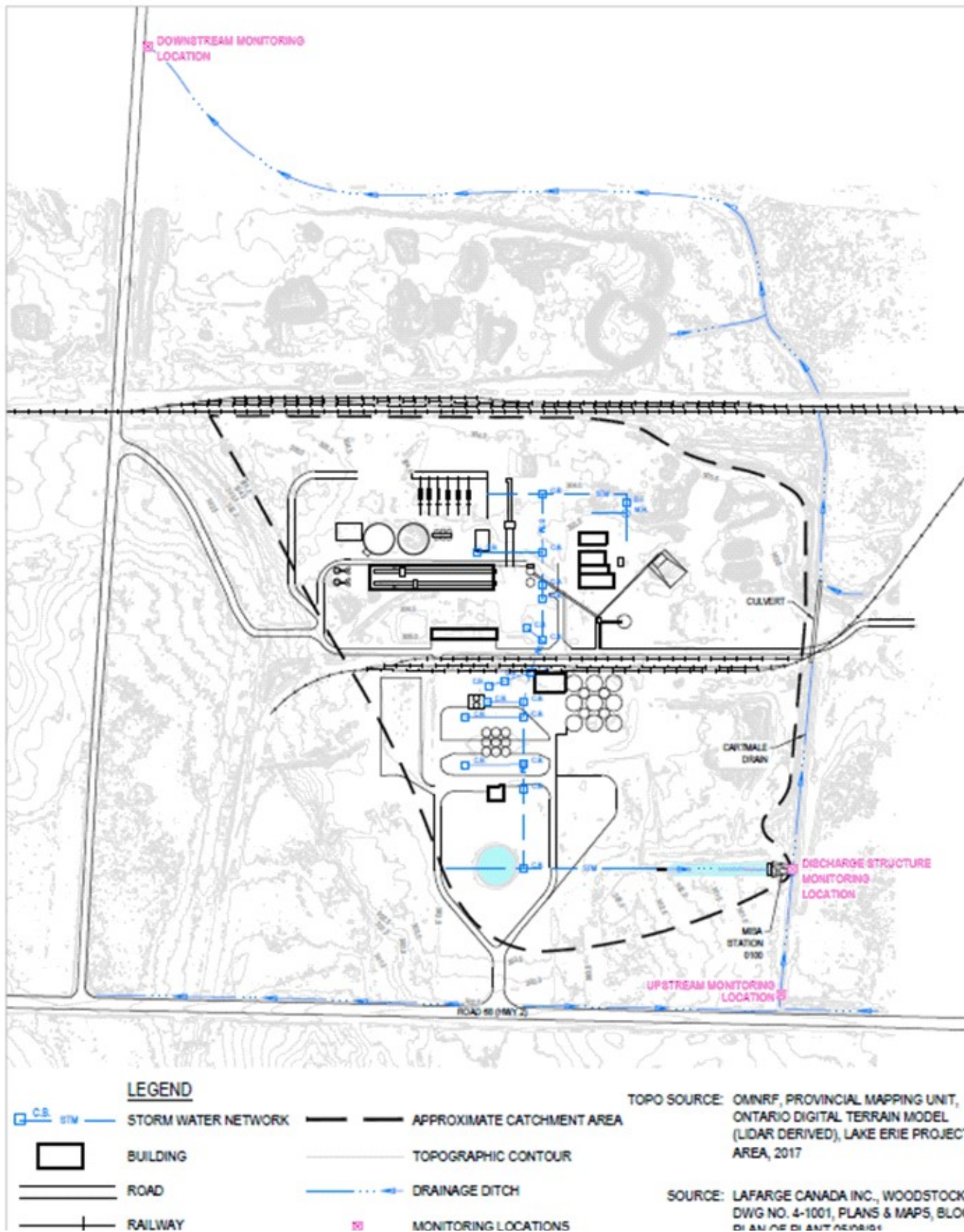
### **Effluent Monitoring Table**

**(Sample Point: Cartmale Drain Discharge Structure Monitoring location)**

<b>Frequency</b>	Monthly
<b>Sample Type</b>	Grab
<b>Parameters</b>	pH, TSS, Oil and Grease

**Schedule C**

**Monitoring Locations**





LAFARGE CANADA INC.  
MISA 0100, WOODSTOCK, ONTARIO  
ENVIRONMENTAL COMPLIANCE  
APPROVAL APPLICATION

Project No. 1508  
Date April 2021

**PROPOSED MONITORING LOCATIONS**

**FIGURE**

Filename: N:\CA\Waterford\Projects\652\01508\Digital\_Design\ACAD\figures\MISC\1508-GID-0004-10-04-0103\_WA-MISC1903.dwg  
Plot Date: 25 April 2021 4:52 PM



*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

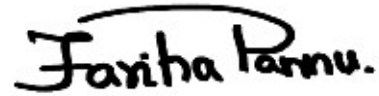
The Director appointed for the purposes of  
Part II.1 of the Environmental Protection Act  
Ministry of the Environment,  
Conservation and Parks  
135 St. Clair Avenue West, 1st Floor  
Toronto, Ontario  
M4V 1P5

**\* 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 7th day of March, 2022

A handwritten signature in black ink that reads "Fariha Pannu." The signature is written in a cursive style with a large, sweeping initial 'F'.

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Fariha Pannu, P.Eng.

Director

appointed for the purposes of Part II.1 of the  
*Environmental Protection Act*

KH/

c: District Manager, MECP London District.  
Dilan Singaraja, GHD Limited.