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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 1623-CEHPFF

Issue Date: June 9, 2022

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

**Site Location:** Nipigon Ready Mix Facility  
Highway 585, Fire # 009  
Nipigon Township, District of Thunder Bay  
Ontario

*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:*

one (1) ready-mix concrete batching plant, having a maximum production rate of 240 cubic metres per day, consisting of the following equipment and emission sources:

- one (1) baghouse dust collector, used to control emissions from storage Silo #1 having a storage capacity of 65 tonnes, complete with polyester filter material having a filtering area of 14 square meters and a pulse-jet type cleaning system, passively discharging to the air through a vent having an equivalent exit diameter of 0.8 metre and extending 8.6 metres above grade;
- one (1) baghouse dust collector, used to control emissions from storage Silo #2 having a storage capacity of 35 tonnes, complete with polyester filter material having a filtering area of 10.6 square meters and a pulse-jet type cleaning system, passively discharging to the air through a stack, having an equivalent exit diameter of 0.1 metre and extending 10.7 metres above grade;
- one (1) baghouse dust collector, used to control emissions from storage Silo #3 having a storage capacity of 65 tonnes, complete with polyester filter material having a filtering area of 14 square meters and a pulse-jet type cleaning system, passively discharging to the air through a stack, having an equivalent exit diameter of 0.8 metre and extending 8.6 metres above grade;
- one (1) filter vent, used to control emissions from the cement weigh

scale, discharging passively to the air through a vent, having an equivalent exit diameter of 0.3 metre and extending 6.1 metres above grade;

- one (1) No.2 fuel oil fired boiler, having a maximum heat input capacity of 2.22 million kilojoules per hour, discharging to the air through a stack, having an exit diameter of 0.3 metres, and extending 6.4 metres above ground;
- fugitive emissions from the delivery, storage and transfer of materials associated with the ready-mix concrete batching operations;

all in accordance with the application for an Environmental Compliance Approval (Air) submitted by Lafarge Canada Inc., dated May 19, 2021 , and signed by Blair Walker, Environment and Public Affairs; Emission Summary and Dispersion Modelling Report prepared by BCX Environmental Consulting, dated April 2021; Acoustic Assessment Report prepared by HGC Engineering, dated April 29, 2021 and all the information associated with the application.

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

1. "Acoustic Assessment Report" means the report, prepared in accordance with Publication NPC-233 and Appendix A of the Basic Comprehensive User Guide, by Corey Kinart and Swetha Kulandaivelan, HGC Engineering, dated April 29, 2021, and submitted in support of the application, that documents all sources of noise emissions and Noise Control Measures present at the Facility;
2. "Acoustic Assessment Summary Table" means a table prepared in accordance with the Basic Comprehensive User Guide summarising the results of the Acoustic Assessment Report;
3. "Approval" means this Environmental Compliance Approval, including the application and supporting documentation listed above;
4. "Best Management Practices Plan" means a document or a set of documents which describe measures to minimize dust emissions from the Facility and/or Equipment;
5. "Company" means Lafarge Canada Inc. that is responsible for the construction or operation of the Facility and includes any successors and assigns in accordance with section 19 of the EPA;

6. "Director" means a person appointed for the purpose of section 20.3 of the EPA by the Minister pursuant to section 5 of the EPA;
7. "District Manager" means the District Manager of the appropriate local district office of the Ministry, where the Facility is geographically located;
8. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19;
9. "Equipment" means the equipment and processes described in the Company's application, this Approval and in the supporting documentation submitted with the application, to the extent approved by this Approval;
10. "Facility" means the entire operation located on the property where the Equipment is located;
11. "Manual" means a document or a set of documents that provide written instructions to staff of the Company;
12. "Minister" means the Minister of the Environment, Conservation and Parks or such other member of the Executive Council as may be assigned the administration of the EPA under the Executive Council Act;
13. "Ministry" means the ministry of the Minister;
14. "Noise Control Measures" means measures to reduce the noise emissions from the Facility and/or Equipment including, but not limited to, silencers, acoustic louvers, enclosures, absorptive treatment, plenums and barriers. It also means the Noise Control Measures, as outlined in the Acoustic Assessment Report and detailed in Schedule "A" of this Approval;
15. "Publication NPC-103" means the Ministry Publication NPC-103 of the Model Municipal Noise Control By-Law, Final Report, August 1978, published by the Ministry as amended;
16. "Publication NPC-207" means the Ministry draft technical publication "Impulse Vibration in Residential Buildings", November 1983, supplementing the Model Municipal Noise Control By-Law, Final Report, published by the Ministry, August 1978, as amended;
17. "Publication NPC-233" means the Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995, as amended;
18. "Publication NPC-300" means the Ministry Publication NPC-300, " Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning, Publication NPC-300", August, 2013, as amended; and
19. "Technical Bulletin: Management Approaches for Industrial Fugitive Dust Sources" means the Ministry publication "Technical Bulletin: management approaches for industrial fugitive dust sources", March 8, 2017, as amended.

20. "Truck(s)" means ready-mix truck(s), aggregate truck(s), and cementitious material tanker truck(s).

*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. OPERATION AND MAINTENANCE

1. The Company shall ensure that the Equipment is properly operated and maintained at all times. The Company shall:
  - a. prepare, not later than three (3) months after the date of this Approval, and update, as necessary, a Manual outlining the operating procedures and a maintenance program for the Equipment, including:
    - i. routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
    - ii. emergency procedures, including spill clean-up procedures;
    - iii. procedures for any record keeping activities relating to operation and maintenance of the Equipment;
    - iv. all appropriate measures to minimize noise and dust emissions from all potential sources; and
    - v. the frequency of inspection and replacement of the filter material in the Equipment.
  - b. implement the recommendations of the Manual.

### 2. FUGITIVE DUST CONTROL

1. The Company shall develop in consultation with the District Manager, a Best Management Practices Plan for the control of fugitive dust emissions. This Best Management Practices Plan shall:
  - a. at minimum, be prepared in accordance with Ministry Technical Bulletin: Management Approaches for Industrial Fugitive Dust Sources; and
  - b. include a list of all Ministry comments received, if any, on the development of the Best Management Practices Plan, and a description of how each Ministry comment was addressed in the Best Management Practices Plan.

2. The Company shall submit the Best Management Practices Plan to the District Manager not later than three months after the date of this Approval or as otherwise indicated by the District Manager.
3. Upon acceptance of the Best Management Practices Plan by the District Manager, the Company shall immediately implement the Best Management Practices Plan for the control of fugitive dust emissions to provide effective dust suppression measures to any potential sources of fugitive dust emissions resulting from the operation of the Facility.
4. The Company shall update the Best Management Practices Plan as necessary or at the direction of the District Manager.

### **3. RECORD RETENTION**

1. The Company shall retain, for a minimum of two (2) years from the date of their creation, all records and information related to or resulting from the recording activities required by this Approval, and make these records available for review by staff of the Ministry upon request. The Company shall retain:
  - a. all records on the maintenance, repair and inspection of the Equipment; and
  - b. all records of any environmental complaints, including:
    - i. a description, time and date of each incident to which the complaint relates;
    - ii. wind direction at the time of the incident to which the complaint relates; and
    - iii. a description of the measures taken to address the cause of the incident to which the complaint relates and to prevent a similar occurrence in the future.

### **4. NOTIFICATION OF COMPLAINTS**

1. The Company shall notify the District Manager, in writing, of each environmental complaint within two (2) business days of the complaint. The notification shall include:
  - a. a description of the nature of the complaint; and
  - b. the time and date of the incident to which the complaint relates.

### **5. NOISE**

1. The Company shall:
  - a. implement the Physical Noise Control Measures as outlined in the Acoustic Assessment Report dated April 29, 2021, prepared by HGC

Engineering, by not later than twelve(12) months from the issuance of an above grade building permit and verified site inspection under the Building Code Act, 1992, for a building containing residential uses in respect of the Properties or part thereof representing VL1

- b. implement the Administrative Noise Control Measures, upon issuance of this Approval, as outlined in Schedule "A" of this Approval;
- c. ensure that the facility operate under daytime operating Mode A, or Mode B, or Mode C, or Evening/Night-time Mode exclusively. in accordance with Schedule "A" of this Approval;
- d. following the implementation of the Noise Control Measures, comply with the limits set out in Ministry Publication NPC-300; and
- e. ensure that the Noise Control Measures are properly maintained and continue to provide the acoustical performance outlined in the Acoustic Assessment Report.
- f. the Company shall ensure that the vibration emissions from the Facility comply with the limits set out in Ministry Publication NPC-207.

**SCHEDULE "A"**  
**NOISE CONTROL MEASURES**

Physical

1. North Tanker Truck Unloading and Pig Silo Barrier: One(1) 7.5 metres long, 2.5 metres high acoustic barrier positioned as per Figure 3 of the Acoustic Assessment Report, continuous without any holes, gaps and other penetrations, and having a surface mass of at least 20 kilograms per square metre.

Administrative

**Operating Mode A, Daytime hours 07:00 to 19:00**

<b>Administrative Controls</b>
Maximum One(1) Bulk Cement Delivery Truck arrival and departure per sixty minute time period, located and orientated as depicted in Figure 3 of the Acoustic Assessment Report
Maximum One(1) Bulk Cement South Truck Unloading per sixty minute time period
No Bulk Cement North Truck Unloading per sixty minute time period
No Pig Silo Blower
Maximum One(1) Silo Baghouse Outlet per sixty minute time period
No Ready-Mix Truck arrivals and Ready-Mix Truck departures per sixty minute time

period
No Loading/Slumping Ready-Mix Trucks
No Arriving/Departing Aggregate Trucks
No Unloading Aggregate Trucks
No Front End Loader
No Cement Scale Vibrator
No Aggregate Scale Vibrator
No Loading Point Signal Horn
No Boiler

**Operating Mode B, Daytime hours 07:00 to 19:00**

<b>Administrative Controls</b>
Maximum One(1) Bulk Cement Delivery Truck arrival and departure per sixty minute time period, located and orientated as depicted in Figure 3 of the Acoustic Assessment Report
Maximum One(1) Bulk Cement North Truck Unloading per sixty minute time period
No Bulk Cement South Truck Unloading per sixty minute time period
No Pig Silo Blower
Maximum One(1) Silo Baghouse Outlet per sixty minute time period
Maximum Eight(8) Ready-Mix Truck arrivals and Ready-Mix Truck departures per sixty minute time period
Loading/Slumping Ready-Mix Trucks operating for a maximum of forty minutes per sixty minute time period
Maximum of Two(2) Arriving/Departing Aggregate Trucks
Unloading Aggregate Trucks for a maximum of one minute per sixty minute time period
Maximum of One(1) Front End Loader operating continuously for sixty minute time period
Cement Scale Vibrator operating for a maximum of thirty-two(32) seconds per sixty minute time period
Aggregate Scale Vibrator operating for a maximum of thirty-two(32) seconds per sixty minute time period
Loading Point Signal Horn operating for a maximum of sixteen(16) seconds per sixty minute time period
Boiler operating continuously for sixty minute time period

**Operating Mode C, Daytime hours 07:00 to 19:00**

<b>Administrative Controls</b>
No Bulk Cement Delivery Truck arrivals
No Bulk Cement Delivery Truck departures

No Bulk Cement North or South Truck Unloading
Pig Silo Blower operating continuously for sixty minute time period
No Silo Baghouse Outlet operating
Maximum Eight(8) Ready-Mix Truck arrivals and Ready-Mix Truck departures per sixty minute time period
Loading/Slumping Ready-Mix Trucks operating for a maximum of forty minutes per sixty minute time period
Maximum of Two(2) Arriving/Departing Aggregate Trucks
Unloading Aggregate Trucks for a maximum of one minute per sixty minute time period
Maximum of One(1) Front End Loader operating continuously for sixty minute time period
Cement Scale Vibrator operating for a maximum of thirty-two(32) seconds per sixty minute time period
Aggregate Scale Vibrator operating for a maximum of thirty-two(32) seconds per sixty minute time period
Loading Point Signal Horn operating for a maximum of sixteen(16) seconds per sixty minute time period
Boiler operating continuously for sixty minute time period

**Operating Mode, Evening and Night-time hours 19:00 to 07:00**

<b>Administrative Controls</b>
No Bulk Cement Delivery Truck arrivals
No Bulk Cement Delivery Truck departures
No Bulk Cement North or South Truck Unloading
No Pig Silo Blower
No Silo Baghouse Outlet operating
Maximum Four(4) Ready-Mix Truck arrivals and Ready-Mix Truck departures per sixty minute time period
Loading/Slumping Ready-Mix Trucks operating for a maximum of twenty minutes per sixty minute time period
No Arriving/Departing Aggregate Trucks
No Unloading Aggregate Trucks
Maximum of One(1) Front End Loader operating thirty minutes per sixty minute time period
Cement Scale Vibrator operating for a maximum of sixteen(16) seconds per sixty minute time period
Aggregate Scale Vibrator operating for a maximum of sixteen(16) seconds per sixty minute time period
Loading Point Signal Horn operating for a maximum of eight(8) seconds per sixty



minute time period
Boiler operating continuously for sixty minute time period

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

1. Condition number 1 is included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the EPA, the Regulations and this Approval.
2. Condition number 2 is included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the EPA, the Regulations and this Approval.
3. Condition number 3 is included to require the Company to keep records and to provide information to staff of the Ministry so that compliance with the EPA, the Regulations and this Approval can be verified.
4. Condition number 4 is included to require the Company to notify staff of the Ministry so as to assist the Ministry with the review of the site's compliance.
5. Condition number 5 is included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the Facility.

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me, the Ontario Land 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 ("the Notice") 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:

Registrar\*  
Ontario Land Tribunal  
655 Bay Street, Suite 1500  
Toronto, Ontario  
M5G 1E5  
OLT.Registrar@ontario.ca

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 Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or [www.olt.gov.on.ca](http://www.olt.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 9th day of June, 2022



Nancy E Orpana, P.Eng.  
Director

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

JL/

c: District Manager, MECP Thunder Bay - District  
Roxana Ungureanu, BCX Environmental Consulting