

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 8983-CWJQLW
Issue Date: December 15, 2023

GIP Construction and Materials Limited
3232 Carp Road
Post Office Box, No. 264
Carp, Ontario
K0A 1L0

Site Location: HMA Plant Leitrim Quarry
4949 Bank St Gloucester
Ottawa City,
K1X 1G7

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) permanent hot-mix asphalt (HMA) plant, operating with a maximum production rate of 220 tonnes of HMA per hour, 2,200 tonnes of HMA per day and 200,000 tonnes of hot-mix asphalt per year consisting of the following processes and equipment:

- one (1) natural gas-fired dryer, with a maximum heat input of 105,500,000 kilojoules per hour, equipped with one (1) cyclone followed by one (1) baghouse dust collector, for the control of particulate matter, equipped with 1,009 square metres of aramid filter material and a pulse jet cleaning mechanism; exhausting to the atmosphere at a maximum volumetric flow rate of 28.3 cubic metres per second, through a stack having an exit diameter of 1.4 metres extending 18.5 metres above the grade;
- two (2) vertical fixed roof liquid asphalt cement storage tanks, operating at a maximum temperature of 175 degrees Celsius, each with a storage capacity of 82,800 litres;
- two (2) vertical fixed roof liquid asphalt cement storage tanks, operating at a maximum temperature of 175 degrees Celsius, each with a storage capacity of 102,100 litres;
- one (1) natural gas-fired hot oil heater with a maximum heat input of 2,100,000 kilojoules per hour, exhausting to the atmosphere through a stack having an exit diameter of 0.3 metre, extending 3.7

metres above grade;

- fugitive emissions from the delivery, storage and transfer of materials associated with the HMA operations;

one (1) aggregate crushing plant, having a maximum processing rate of 6,000 tonnes per day, consisting of the following processes and equipment:

- four (4) crushers;
- three (3) screeners;
- conveyors and stackers;
- fugitive emissions from material handling;

one (1) aggregate wash plant, with a maximum processing rate of 2,000 tonnes per day, including the following processes and equipment:

- aggregate washing;
- fugitive emissions from material storage, handling and shipping;

one (1) aggregate liming plant, with a maximum processing rate of 2,200 tonnes per day, including the following processes and equipment:

- aggregate lime treatment;
- one (1) silo having a storage capacity of 25 tonnes, exhausting through a bin vent dust collector at a volumetric flow rate of 0.5 cubic metre per second, through a stack having an exit diameter of 0.9 metre extending 14.8 metres above the grade;
- fugitive emissions from material storage, handling and shipping;

all in accordance with the Environmental Compliance Approval Application submitted by GIP Construction and Materials Limited, dated November 28, 2019 and signed by Kerry Currie, Property Manager; and the supporting information, including the Emission Summary and Dispersion Modelling Report, submitted by BCX Environmental Consulting, dated November 2019 and signed by Roxana Ungureanu on November 29, 2019 and additional information provided by Roxana Ungureanu of BCX Environmental Consulting in a memo dated August 31, 2023; and the Acoustic Assessment Report prepared by HGC Engineering, dated July 8, 2020 and signed by Corey Kinart.

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 submitted in support of the application, that documents all sources of noise emissions and Noise Control Measures present at the Facility. "Acoustic Assessment Report" also means the Acoustic Assessment Report prepared by HGC Engineering, dated July 8, 2020 and signed by Corey Kinart;

2. "Acoustic Audit" means an investigative procedure consisting of measurements and/or acoustic modelling of all sources of noise emissions due to the operation of the Facility, assessed to determine compliance with the performance limits for the Facility regarding noise emissions, completed in accordance with the procedures set in Publication NPC-103 and reported in accordance with Publication NPC-233;
3. "Acoustic Audit Report" means a report presenting the results of an Acoustic Audit, prepared in accordance with Publication NPC-233;
4. "Acoustical Consultant" means a person currently active in the field of environmental acoustics and noise/vibration control, who is familiar with Ministry noise guidelines and procedures and has a combination of formal university education, training and experience necessary to assess noise emissions from a Facility;
5. "Approval" means this Environmental Compliance Approval, including the application and supporting documentation listed above;
6. "Best Management Practices Plan" means the document titled "Ottawa Quarry Best Management Practices Plan for the Control of Fugitive Emissions", prepared by the Company and included in Attachment 2 of the August 31, 2023 memo from BCX Environmental Consulting;
7. "Company" means GIP Construction and Materials Limited, formerly AECON Construction Ontario East Limited, 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;
8. "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;
9. "District Manager" means the District Manager of the appropriate local district office of the Ministry, where the Facility is geographically located;
10. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19;
11. "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;
12. "Facility" means the entire operation located on the property where the Equipment is located;
13. "Independent Acoustical Consultant" means an Acoustical Consultant who is not

representing the Company and was not involved in preparing the Acoustic Assessment Report or the design/implementation of Noise Control Measures for the Facility and/or Equipment. The Independent Acoustical Consultant shall not be retained by the Acoustical Consultant involved in the noise impact assessment or the design/implementation of Noise Control Measures for the Facility and/or Equipment;

14. "Manual" means a document or a set of documents that provide written instructions to staff of the Company;
15. "Memorandum of Understanding" means the "Memorandum of Understanding between the Aecon Construction Ontario East Limited Quarry and Hot Mix Asphalt Plant and the St Mary's Cement Inc Ready-Mix Concrete Plant", dated June 18, 2020 and signed by Rick Levitsky, Aecon Group Inc., and Miguel Hernandez, St Mary's Cement Inc., developed to jointly manage and achieve compliance with the sound level limits set in Publication NPC-300, as per the Memorandum of Understanding;
16. "Method 22" means the United States Environmental Protection Agency document titled "Method 22 - Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares" dated January 14, 2019, as amended;
17. "Ministry" means the ministry of the government of Ontario responsible for the EPA and includes all officials, employees or other persons acting on its behalf;
18. "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 outlined in the Acoustic Assessment Report and detailed in Schedule "A" of this Approval;
19. "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;
20. "Publication NPC-233" means the Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995, as amended;
21. "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;
22. "Related Facility" means the St. Marys Cement Inc. (Canada) ready-mix concrete batching plant; and
23. "Truck(s)" means haul truck(s), road truck(s), hot-mix asphalt truck(s), asphalt cement truck(s), lime/wash plants tanker truck(s), and/or aggregate 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 odorous 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. The Company shall prepare and implement procedures to determine and keep records of the temperatures of hot-mix asphalt as it leaves the mixing process to ensure the mixer does not operate above 175 degrees Celsius.
3. The Company shall prepare and implement procedures to monitor and keep records of each liquid asphalt cement storage tank temperature, to ensure that the liquid asphalt cement storage tanks do not operate above 175 degrees Celsius.

2. VISIBLE FUGITIVE DUST EMISSIONS

1. The Company shall ensure that visible dust emissions from activities where material is dropped;
 - a. will not extend more than 30 metres in any direction from the activities, excluding no more than 6 minutes in any hour; and
 - b. will not extend beyond the property boundary at any time.

2. The Company shall determine visible dust emissions, referred to in Condition 2.1, using Method 22, at the closest practical observation location as described in Method 22.

3. FUGITIVE DUST CONTROL

1. The Company shall implement the Best Management Practices Plan for the control of fugitive dust emissions resulting from the operation of the Facility. The Company shall update the Best Management Practices Plan as necessary or at the direction of the District Manager.

4. 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.

5. 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.

6. NOISE

1. The Company shall
 - a. at all times operate the Equipment/Facility as presented in the Acoustic Assessment Report and the Memorandum of Understanding;
 - b. implement the Noise Control Measures, as outlined in the Acoustic Assessment

Report and detailed in Schedule "A" of this Approval;

- c. ensure at all times that, subsequent to the implementation of the Noise Control Measures, the combined noise emissions from the Facility and the Related Facility jointly comply at all times with the limits set out in Ministry Publication NPC-300;
- d. restrict the operation of the rock drill, wash plant, lime plant, and the truck yard to the daytime hours between 7 a.m. and 7 p.m.;
- e. ensure that only one (1) plant of the lime plant and wash plant operates at a given time;
- f. ensure that:
 - i. only one (1) rock drill operates at a given time; and
 - ii. the use of the rock drill at the Facility property is limited to a maximum of forty five (45) minutes of drilling per any sixty (60) minutes period;
- g. ensure that any and all Trucks arrive at and depart from the Facility in accordance with the following:
 - i. limit Trucks arrivals and departures during the daytime hours of 7 a.m. to 7 p.m. in accordance with the following:
 - A. a maximum of forty three (43) road trucks per sixty (60) minute period;
 - B. a maximum of nine (9) hot-mix asphalt truck per sixty (60) minute period;
 - C. a maximum of nine (9) aggregate trucks per sixty (60) minute period;
 - D. a maximum of one (1) asphalt cement truck per sixty (60) minute period; and
 - E. a maximum of one (1) lime or wash plant tanker truck per sixty (60) minute period;
 - ii. limit Trucks arrivals and departures during the evening hours of 7 p.m. to 11 p.m. in accordance with the following:
 - A. a maximum of thirty eight (38) road trucks per sixty (60) minute period;
 - B. a maximum of three (3) hot-mix asphalt truck per sixty (60) minute period; and
 - C. a maximum of three (3) aggregate trucks per sixty (60) minute period;
 - iii. limit Trucks arrivals and departures during the evening hours of 11 p.m. to 7 a.m. in accordance with the following:
 - A. a maximum of nineteen (19) road trucks per sixty (60) minute period;

- B. a maximum of three (3) hot-mix asphalt truck per sixty (60) minute period;
and
- C. a maximum of three (3) aggregate trucks per sixty (60) minute period;
- h. limit the number of movements of Trucks for hauling products on-site to a maximum of ten (10) round trips for two (2) haul trucks during any sixty (60) minute period;
- i. maintain no idling policy for all the Trucks at the Facility property; and
- j. ensure that the Noise Control Measures are properly maintained and continue to provide the acoustical performance outlined in the Acoustic Assessment Report.

7. ACOUSTIC AUDIT

1. The Company shall carry out Acoustic Audit measurements on the combined noise emissions from the Facility and Related Facility. The Company:
 - a. shall carry out Acoustic Audit measurements in accordance with the procedures in Ministry Publication NPC-103; and
 - b. shall submit an Acoustic Audit Report on the results of the Acoustic Audit, prepared by an Independent Acoustical Consultant, in accordance with the requirements of Ministry Publication NPC-233, to the District Manager and the Director, not later than eighteen (18) months after the date of this Approval.
2. The Director:
 - a. may not accept the results of the Acoustic Audit if the requirements of Ministry Publication NPC-233 were not followed; and
 - b. may require the Company to repeat the Acoustic Audit if the results of the Acoustic Audit are found unacceptable to the Director.

SCHEDULE "A"

Noise Control Measures

1. Operational Agreement between the Facility and the Related Facility

The Company shall ensure that during operation of the rock drill on the upper lift (at an elevation of approximately 115 metres above sea level), the on-site operations be limited to the quarry haul trucks, road trucks, front-end loaders, fixed crushing plant, truck yard, and either the operation of the subject Facility Hot Mix Asphalt plant or the operation of the Related Facility, as depicted in the Memorandum of Understanding.

The Company shall implement and maintain the above noted Noise Control Measure while operating the rock drill on the upper lift.

2. New Western Perimeter Berm

The Company shall construct a berm along the western property line. The berm shall have a minimum height of 8 metres and a minimum length of 145 metres, and be located as depicted in Figure 4b of the Acoustic Assessment Report.

The Company shall implement the above noted Noise Control Measure not later than twelve (12) months after the date of this Approval.

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

1. Condition No. 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 No. 2 is included to require the Company to provide information to staff of the Ministry so that compliance with the EPA, the Regulations and this Approval can be verified.
3. Condition No. 3 is included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the Facility.
4. Condition No. 4 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.
5. Condition No. 5 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.
6. Condition No. 6 is included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the Facility.
7. Condition No. 7 is included to require the Company to gather accurate information and submit an

Acoustic Audit Report in accordance with procedures set in the Ministry's noise guidelines, so that the environmental impact and subsequent compliance with this Approval can be verified.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 1279-8D7KJ8 issued on January 25, 2011

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.

Pursuant to subsection 139(3) of the *Environmental Protection Act*, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

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

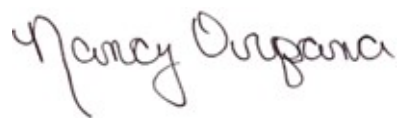
The Director appointed for the purposes of
Part II.1 of the *Environmental Protection Act*
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** 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**

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 15th day of December, 2023



Nancy E Orpana, P.Eng.

Director

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

KS/

c: District Manager, MECP Ottawa

Roxana Ungureanu, BCX Environmental Consulting