

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2191-CKCFUA

Issue Date: July 19, 2023

Roxul Inc.
805 Steeles Ave E
Milton, Ontario
L9T 5H3

Site Location: 805 Steeles Avenue East
Milton Town, Regional Municipality of Halton
L9T 5H3

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:

Description Section

A mineral wool insulation manufacturing facility, consisting of the following processes and support units:

- receiving and storage;
- melting;
- spinning;
- binder application;
- collection;
- curing;
- cooling;
- coating and facing;
- cutting;
- packaging;
- dust collection;
- recycling and briquetting;
- Afterburners and Fume Incinerators; and
- DeSOx control system that being is used to reduce sulphur dioxides emissions from the TOR 1 and TOR3 Cupola process with a minimum control efficiency of 75%;

including the Equipment and any other ancillary and support processes and activities, operating at a Facility

Production Limit of up to **13 tonnes per hour and 20 tonnes per hour of melted material, respectively for lines TOR-1 and TOR-3** discharging to the air as described in the Original ESDM Report.

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

1. "ACB list" means the document entitled "Air Contaminants Benchmarks (ACB) List: Standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants", as amended from time to time and published by the Ministry and available on a Government website;
2. "Acceptable Point of Impingement Concentration" means a concentration accepted by the Ministry as not likely to cause an adverse effect for a Compound of Concern that,
 - a. is not identified in the ACB list, or
 - b. is identified in the ACB list as belonging to the category "Benchmark 2" and has a concentration at a Point of Impingement that exceeds the concentration set out for the contaminant in that document.

With respect to the Original ESDM Report, the Acceptable Point of Impingement Concentration for a Compound of Concern mentioned above is the concentration set out in the Original ESDM Report;

3. "Acoustic Assessment Report" means the report, prepared in accordance with Publication NPC-233 and Appendix A of the Basic Comprehensive User Guide, by Wallace Lee/ Arcadis Canada, Inc. and dated January 2022 submitted in support of the application, that documents all sources of noise emissions and Noise Control Measures present at the Facility, as updated in accordance with Condition 5 of this Approval;
4. "Acoustic Assessment Summary Table" means a table prepared in accordance with the Basic Comprehensive User Guide summarising the results of the Acoustic Assessment Report, as updated in accordance with Condition 5 of this Approval;
5. "Afterburners" and "Fume Incinerators" means the two (2) Afterburners and two (2) Fume Incinerators as described in the Company's application, this Approval and in the supporting documentation referred to herein, to the extent approved by this Approval;
6. "Approval" means this entire Environmental Compliance Approval and any Schedules to it;
7. "Basic Comprehensive User Guide" means the Ministry document titled "Basic Comprehensive Certificates of Approval (Air) User Guide" dated March 2011, as amended;
8. "Company" means Roxul 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;

9. "Compound of Concern" means a contaminant described in paragraph 4 subsection 26 (1) of O. Reg. 419/05, namely, a contaminant that is discharged from the Facility in an amount that is not negligible;
10. "Continuous Monitoring Plan" means a plan to continuously monitor and record:
 - a. the concentration of sulphur dioxide in the undiluted gas emitted from the following two sources:
 1. Source ID: 100 (TOR 1 Cupola); and
 2. Source ID: 300A (TOR 3 Cupola); and
 - b. the operating temperatures for the following two sources:
 1. Two Afterburners; and
 2. Two Fume Incinerators.
11. "Continuous Monitoring System" means the continuous emission monitoring system described in the Continuous Monitoring Plan, consisting of continuous monitors and recording devices;
12. "Description Section" means the section on page one of this Approval describing the Company's operations and the Equipment located at the Facility and specifying the Facility Production Limit for the Facility;
13. "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;
14. "District Manager" means the District Manager of the appropriate local district office of the Ministry, where the Facility is geographically located;
15. "Emission Summary Table" means a table described in paragraph 14 of subsection 26 (1) of O. Reg. 419/05;
16. "Environmental Assessment Act" means the *Environmental Assessment Act*, R.S.O. 1990, c.E.18;
17. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19;
18. "Equipment" means equipment or processes described in the ESDM Report, this Approval and in the Schedules referred to herein and any other equipment or processes;
19. "Equipment with Specific Operational Limits" means:
 - a. two (2) Afterburners that serve lines TOR-1 and TOR-3;
 - b. two (2) Fume Incinerators that serve lines TOR-1 and TOR-3;

- c. the DeSOx control system that being is used to reduce sulphur dioxides emissions from the TOR 1 and TOR3 Cupola process with a minimum control efficiency of 75%; and
 - d. and any Equipment related to the thermal oxidation of waste or waste derived fuels, fume incinerators or any other Equipment that is specifically referenced in any published Ministry document that outlines specific operational guidance that must be considered by the Director in issuing an Approval;
20. "ESDM Report" means the most current Emission Summary and Dispersion Modelling Report that describes the Facility. The ESDM Report is based on the Original ESDM Report and is updated after the issuance of this Approval in accordance with section 26 of O. Reg. 419/05 and the Procedure Document;
 21. "Facility" means the entire operation located on the property where the Equipment is located;
 22. "Facility Production Limit" means the production limit placed by the Director on the main product(s) or raw materials used by the Facility;
 23. "Log" means a document that contains a record of each change that is required to be made to the ESDM Report and Acoustic Assessment Report, including the date on which the change occurred. For example, a record would have to be made of a more accurate emission rate for a source of contaminant, more accurate meteorological data, a more accurate value of a parameter that is related to a source of contaminant, a change to a Point of Impingement and all changes to information associated with a Modification to the Facility that satisfies Condition 2;
 24. "Manager" means the Manager, Technology Standards Section, Technical Assessment and Standards Development Branch of the Ministry, or any other person who represents and carries out the duties of the Manager, as those duties relate to the conditions of this Approval;
 25. "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;
 26. "Ministry" means the ministry of the Minister;
 27. "Modification" means any construction, alteration, extension or replacement of any plant, structure, equipment, apparatus, mechanism or thing, or alteration of a process or rate of production at the Facility that may discharge or alter the rate or manner of discharge of a Compound of Concern to the air or discharge or alter noise or vibration emissions from the Facility;
 28. "Noise Control Measures" means measures to reduce the noise emissions from the Facility and/or Equipment including, but not limited to, silencers, acoustic louvres, enclosures, absorptive treatment, plenums and barriers;
 29. "O. Reg. 419/05" means Ontario Regulation 419/05: Air Pollution – Local Air Quality, made under

the EPA;

30. "Odour Management Plan" means a document or a set of documents that provide written instructions to staff of the Company, for the purpose of meeting the requirements of terms and condition No. 7(3) of this Approval;
31. "Original ESDM Report" means the Emission Summary and Dispersion Modelling Report which was prepared in accordance with section 26 of O. Reg. 419/05 and the Procedure Document by Wasef Jamil, Arcadis Canada Inc. and dated January 2023 submitted in support of the application, and includes any changes to the report made up to the date of issuance of this Approval;
32. "Point of Impingement" has the same meaning as in section 2 of O. Reg. 419/05;
33. "Point of Reception" means Point of Reception as defined by Publication NPC-300;
34. "Procedure Document" means Ministry guidance document titled "Procedure for Preparing an Emission Summary and Dispersion Modelling Report" dated March 2018, as amended;
35. "Processes with Significant Environmental Aspects" means the Equipment which, during regular operation, would discharge one or more contaminants into the air in an amount which is not considered as negligible in accordance with section 26 (1) 4 of O. Reg. 419/05 and the Procedure Document;
36. "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;
37. "Publication NPC-233" means the Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995, as amended;
38. "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;
39. "Schedules" means the following schedules attached to this Approval and forming part of this Approval namely:
 - Schedule A - Supporting Documentation
 - Schedule B - Minimum Operating Temperature Requirement for Afterburners and Fume Incinerators
 - Schedule C - Source Testing Requirements for Volatile Organic Compounds
 - Schedule D - Source Testing Requirements for Polycyclic Organic Matter
 - Schedule E - Source Testing Requirements for Other Parameters
 - Schedule F - Source Testing Requirements;

40. "Source Testing" means site-specific sampling and testing to measure the rates of emissions of Test Contaminants from the Sources identified in Schedule F of this Approval under operating conditions that will derive an emission rate that, for the relevant averaging period of the contaminant, is at least as high as the maximum emission rate that the source of contaminant is reasonably capable of within the approved operating range of the Incinerators which satisfies paragraph 1 of subsection 11(1) of O. Reg. 419/05 or as directed or agreed by the Manager;
41. "Source Testing Code" means the Ontario Source Testing Code, dated June 2010, prepared by the Ministry, as amended;
42. Sulphur Dioxide Contingency Plan means a document or a set of documents that provide written instructions to staff of the Company, for the purpose of meeting the requirements of terms and condition No. 8 of this Approval;
43. "Test Contaminants" means Odour and contaminants as defined in Schedule C, Schedule D and Schedule E of this *Approval*;
44. "Toxicologist" means a qualified professional currently active in the field of risk assessment and toxicology that has a combination of formal university education, training and experience necessary to assess contaminants; and
45. "Written Summary Form" means the electronic questionnaire form, available on the Ministry website, and supporting documentation, that documents the activities undertaken at the Facility in the previous calendar year.

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

1. Except as otherwise provided by this Approval, the Facility shall be designed, developed, built, operated and maintained in accordance with the terms and conditions of this Approval and in accordance with the following Schedules attached hereto:
 - Schedule A - Supporting Documentation
 - Schedule B - Minimum Operating Temperature Requirement for Afterburners and Fume Incinerators
 - Schedule C - Source Testing Requirements for Volatile Organic Compounds
 - Schedule D - Source Testing Requirements for Polycyclic Organic Matter
 - Schedule E - Source Testing Requirements for Other Parameters
 - Schedule F - Source Testing Requirements;

2. LIMITED OPERATIONAL FLEXIBILITY

1. Pursuant to section 20.6 (1) of the EPA and subject to Conditions 2.2 and 2.3 of this Approval, future construction, alterations, extensions or replacements are approved in this Approval if the future construction, alterations, extensions or replacements are Modifications to the Facility that:
 - a. are within the scope of the operations of the Facility as described in the Description Section of this Approval;
 - b. do not result in an increase of the Facility Production Limit above the level specified in the Description Section of this Approval; and
 - c. result in compliance with the performance limits as specified in Condition 4.
2. Condition 2.1 does not apply to,
 - a. the addition of any new Equipment with Specific Operational Limits or to the Modification of any existing Equipment with Specific Operational Limits at the Facility; and
 - b. Modifications to the Facility that would be subject to the Environmental Assessment Act.
3. Condition 2.1 of this Approval shall expire ten (10) years from the date of this Approval, unless this Approval is revoked prior to the expiry date. The Company may apply for renewal of Condition 2.1 of this Approval by including an ESDM Report and an Acoustic Assessment Report that describes the Facility as of the date of the renewal application.

3. REQUIREMENT TO REQUEST AN ACCEPTABLE POINT OF IMPINGEMENT CONCENTRATION

1. Prior to making a Modification to the Facility that satisfies Condition 2.1.a. and 2.1.b., the Company shall prepare a proposed update to the ESDM Report to reflect the proposed Modification.
2. The Company shall request approval of an Acceptable Point of Impingement Concentration for a Compound of Concern if the Compound of Concern is not identified in the ACB list as belonging to the category "Benchmark 1" and a proposed update to an ESDM Report indicates that one of the following changes with respect to the concentration of the Compound of Concern may occur:
 - a. The Compound of Concern was not a Compound of Concern in the previous version of the ESDM Report and
 - i. the concentration of the Compound of Concern exceeds the concentration set out for the contaminant in the ACB list; or

- ii. the Compound of Concern is not identified in the ACB list; or
- b. The concentration of the Compound of Concern in the updated ESDM Report exceeds the higher of,
 - i. the most recent Acceptable Point of Impingement Concentration, and
 - ii. the concentration set out for the contaminant in the ACB list, if the contaminant is identified in that document.
- 3. The request required by Condition 3.2 shall propose a concentration for the Compound of Concern and shall contain an assessment, performed by a Toxicologist, of the likelihood of the proposed concentration causing an adverse effect at Points of Impingement.
- 4. If the request required by Condition 3.2 is a result of a proposed Modification described in Condition 3.1, the Company shall submit the request, in writing, to the Director at least 30 days prior to commencing to make the Modification. The Director shall provide written confirmation of receipt of this request to the Company.
- 5. If a request is required to be made under Condition 3.2 in respect of a proposed Modification described in Condition 3.1, the Company shall not make the Modification mentioned in Condition 3.1 unless the request is approved in writing by the Director.
- 6. If the Director notifies the Company in writing that the Director does not approve the request, the Company shall,
 - a. revise and resubmit the request; or
 - b. notify the Director that it will not be making the Modification.
- 7. The re-submission mentioned in Condition 3.6 shall be deemed a new submission under Condition 3.2.
- 8. If the Director approves the request, the Company shall update the ESDM Report to reflect the Modification.
- 9. Condition 3 does not apply if Condition 2.1 has expired.

4. PERFORMANCE LIMITS

- 1. Subject to Condition 4.2, the Company shall not discharge or cause or permit the discharge of a Compound of Concern into the air if,
 - a. the Compound of Concern is identified in the ACB list as belonging to the category "Benchmark 1" and the discharge results in the concentration at a Point of Impingement

- exceeding the Benchmark 1 concentration; or
- b. the Compound of Concern is not identified in the ACB list as belonging to the category “Benchmark 1” and the discharge results in the concentration at a Point of Impingement exceeding the higher of,
 - i. if an Acceptable Point of Impingement Concentration exists, the most recent Acceptable Point of Impingement Concentration, and
 - ii. the concentration set out for the contaminant in the ACB list, if the contaminant is identified in that document.
2. Condition 4.1 does not apply if the benchmark set out in the ACB list has a 10-minute averaging period and no ambient monitor indicates an exceedance at a Point of Impingement where human activities regularly occur at a time when those activities regularly occur.
 3. The Company shall:
 - a. ensure at all times that the noise emissions from the Facility comply with the limits set out in Ministry Publication NPC-300; and
 - b. ensure that the Noise Control Measures are properly maintained and continue to provide the acoustical performance outlined in the Acoustic Assessment Report.
 4. The Company shall ensure that the vibration emissions from the Facility comply with the limits set out in Ministry Publication NPC-207.
 5. The Company shall operate any Equipment with Specific Operational Limits approved by this Approval in accordance with the Original ESDM Report and Condition 7(6) to 7(10) of this Approval.
 6. The Company shall ensure that the concentration in the combustion gases leaving the Afterburners and Fume Incinerators, of organic matter, expressed as equivalent methane, being an average of ten measurements taken at approximately one minute intervals, shall not exceed 100 parts per million by volume, measured on an undiluted basis.
 7. The concentrations of dioxins and furans in the undiluted flue gas leaving the Afterburners and Fume Incinerators shall not be greater than 80 picograms per cubic metre, expressed as toxic equivalents, which shall be calculated in accordance with the rules identified in O. Reg. 419/05, and normalized to 11 percent oxygen at a reference temperature of 25 degrees Celsius and a reference pressure of 101.3 kilopascals, on a dry basis.

5. DOCUMENTATION REQUIREMENTS

1. The Company shall maintain an up-to-date Log.
2. No later than March 31 in each year, the Company shall update the Acoustic Assessment Report and shall update the ESDM Report in accordance with section 26 of O. Reg. 419/05 so that the information in the reports is accurate as of December 31 in the previous year.
3. The Company shall make the Emission Summary Table (see section 27 of O. Reg. 419/05) and Acoustic Assessment Summary Table available for examination by any person, without charge, by posting it on the Internet or by making it available during regular business hours at the Facility.
4. The Company shall, within three (3) months after the expiry of Condition 2.1 of this Approval, update the ESDM Report and the Acoustic Assessment Report such that the information in the reports is accurate as of the date that Condition 2.1 of this Approval expired.
5. Conditions 5.1 and 5.2 do not apply if Condition 2.1 has expired.

6. WRITTEN SUMMARY FORM

1. Subject to Condition 6.2, the Company shall prepare, and make available to the Ministry upon request, no later than June 30 of each year, a Written Summary Form signed by the Highest Ranking Person.
2. Condition 6.1 does not apply if:
 - a. Condition 2.1 has expired; and
 - b. the Written Summary Form has been completed for the year in which Condition 2.1 expired.

7. OPERATION AND MAINTENANCE

1. The Company shall prepare and implement, not later than three (3) months from the date of this Approval, operating procedures and maintenance programs for all Processes with Significant Environmental Aspects, which shall specify as a minimum:
 - a. frequency of inspections and scheduled preventative maintenance;
 - b. procedures to prevent upset conditions;
 - c. procedures to minimize all fugitive emissions;
 - d. procedures to prevent and/or minimize odorous emissions;
 - e. procedures to prevent and/or minimize noise emissions; and
 - f. procedures for record keeping activities relating to the operation and maintenance programs.

2. The Company shall ensure that all Processes with Significant Environmental Aspects are operated and maintained in accordance with this Approval, the operating procedures and maintenance programs.
3. The Company shall prepare and submit to the District Manager, not later than three (3) months following the date of this Approval an Odour Management Plan, and review and update as necessary or as a minimum annually, outlining:
 - i. elements of operation of the Facility that have a potential to release odour including fugitive odour emission sources; and
 - ii. the physical and procedural controls such as policies and standard operating procedures, monitoring, measurement, corrective actions, communication and management reviews required in order to prevent or mitigate any impacts on the Sensitive Receptors.
4. The Company shall implement the procedures/recommendations of the accepted and updated Odour Management Plan.
5. The Company shall keep all doors and windows in the Facility fully closed at all times except when used for necessary personnel or vehicle entrance and exit; and during preventive maintenance on TOR lines 1 and 3.
6. The Company shall ensure that the Afterburners and Fume Incinerators, are operated at all times during normal Facility operations to control volatile organic compounds (VOC) emissions from the Facility.
7. The Company shall not introduce the exhausts stream from Facility's various operations into the Afterburners and Fume Incinerators until a minimum operating temperature as outlined in Schedule B of this Approval is reached in the combustion chamber, as measured by the monitoring and recording system.
8. The Company shall maintain a minimum operating temperature in the combustion chamber of the Afterburners and Fume Incinerators as outlined in Schedule B of this Approval, using the continuous temperature monitors at all times while exhaust stream from any of the Facility's operations are being fed into the Afterburners or Fume Incinerators.
9. The Company shall prepare, not later than three (3) months from the date of this Approval and update, as necessary, a manual outlining the operating procedures and a maintenance program for the Afterburners and Fume Incinerators, including the operating and maintenance procedures recommended by the equipment suppliers, the calibration procedures of the continuous monitor and data recorder.
10. The Company shall not burn any chlorinated and/or fluorinated organic compounds in the Afterburners or Fume Incinerators.

8. SULPHUR DIOXIDE CONTINGENCY PLAN

1. The Company shall prepare and submit to the District Manager, not later than three (3) months following the date of this Approval a Sulphur Dioxide Contingency Plan to reduce Sulphur Dioxide emissions from the Facility in case the DeSox control system is not able to reduce the Sulphur Dioxide emissions to the extent required to achieve the maximum Point of Impingement concentration to be lower than the concentration set out in the ACB list.
2. The Company shall implement the procedures/recommendations of the accepted and updated Sulphur Dioxide Contingency Plan.

9. COMPLAINTS RECORDING AND REPORTING

1. If at any time, the Company receives an environmental complaint from the public regarding the operation of the Equipment approved by this Approval, the Company shall take the following steps:
 - a. Record and number each complaint, either electronically or in a log book. The record shall include the following information: the time and date of the complaint and incident to which the complaint relates, the nature of the complaint, wind direction at the time and date of the incident to which the complaint relates and, if known, the address of the complainant.
 - b. Notify the District Manager of the complaint within 24 hours days after the complaint is received, or in a manner acceptable to the District Manager.
 - c. Initiate appropriate steps to determine all possible causes of the complaint, and take the necessary actions to appropriately deal with the cause of the subject matter of the complaint.
 - d. Complete and retain on-site a report written within five (5) business days of the complaint date. The report shall list the actions taken to appropriately deal with the cause of the complaint and set out steps to be taken to avoid the recurrence of similar incidents.

10. RECORD KEEPING REQUIREMENTS

1. Any information requested by any employee in or agent of the Ministry concerning the Facility and its operation under this Approval, including, but not limited to, any records required to be kept by this Approval, shall be provided to the employee in or agent of the Ministry, upon request , in a timely manner.
2. Unless otherwise specified in this Approval, the Company shall retain, for a minimum of five (5) years from the date of their creation all reports, records and information described in this Approval, including,
 - a. a copy of the Original ESDM Report and each updated version;

- b. a copy of each version of the Acoustic Assessment Report;
- c. supporting information used in the emission rate calculations performed in the ESDM Reports and Acoustic Assessment Reports;
- d. the records in the Log;
- e. copies of each Written Summary Form provided to the Ministry under Condition 6.1 of this Approval;
- f. records of maintenance, repair and inspection of Equipment related to all Processes with Significant Environmental Aspects; and
- g. all records related to environmental complaints made by the public as required by Condition 8 of this Approval.

11. CONTINUOUS MONITORING

1. The Company shall submit to the Manager, not later than sixty (60) days from the date of this Approval, a Continuous Monitoring Plan, complete with specifications for the Continuous Monitoring System and continuous recording devices.
2. The Continuous Monitoring Plan shall include descriptions of, but not be limited to:
 - a. source and air pollutants / parameters requiring continuous monitoring and associated targets,
 - b. sample probe and gas calibration port location(s) and associated flue gas conditions,
 - c. sample extraction, transport and conditioning system,
 - d. analyzer performance specifications,
 - e. calibration strategies,
 - f. relative accuracy and reference method for test audit,
 - g. performance indicators and monitoring frequency,
 - h. communication protocol(s) and corrective action(s) regarding malfunctions,
 - i. preventative maintenance and spare parts,
 - j. service contractor and staff responsibilities including training,

- k. other operating and maintenance procedures as applicable,
 - l. data acquisition system, and
 - m. data verification procedures.
3. The Company shall finalize the Continuous Monitoring Plan in consultation with the Manager.
 4. The Company shall procure, install, operate and maintain the Continuous Monitoring System not later than six (6) months after the Manager has approved the Continuous Monitoring Plan. A current copy of the Continuous Monitoring Plan shall be kept at an accessible location for easy access by persons responsible for supervising, operating and maintaining the Continuous Monitoring System and associated continuous monitoring data as well as by a Ministry representative, upon request.
 5. The Continuous Monitoring System shall be operated and maintained so that accurate data is obtained during a minimum of 90 percent of the time for each calendar quarter during the first full year of operation from the date of installation, and 95 percent, thereafter.

12. SOURCE TESTING

1. The Company shall monitor the emissions from the operation of the Facility as follows:
 - a. The Company shall perform Source Testing for the sources and contaminants outlined in Schedule F of this Approval.
 - b. The Company shall submit, within three (3) months following the date of this Approval, to the Manager and District Manager a test protocol, including the Pre-Test Information for the Source Testing required by the Source Testing Code.
 - c. The Company shall finalize the test protocol in consultation with the Manager.
 - d. The Company shall not commence the Source Testing until the Manager has accepted the test protocol.
 - e. The Company shall complete the Source Testing within six (6) months after the Manager has accepted the test protocol, or within a period as directed or agreed by the District Manager in consultation with the Manager.
 - f. The Company shall repeat the Source Testing as directed or agreed by the District Manager.

13. NOTIFICATION OF UPCOMING SOURCE TESTING

1. The Company shall notify the District Manager and the Manager in writing of the location, date and time of any impending Source Testing required by this Approval, at least fifteen (15) business days prior to the Source Testing or as approved by the Manager.

14. REPORT ON SOURCE TESTING

1. The Company shall submit a report (hardcopy and electronic format) on the Source Testing to the District Manager, the Manager and the Director, as stated in the test protocol, but no later than three (3) months after completing the Source Testing. The report shall be in the format described in the Source Testing Code, and shall also include but not be limited to:
 - a. an executive summary including the results from the Source Testing;
 - b. records of all operating conditions including any upset conditions during the Source Testing; and
 - c. results of Source Testing, including the emission rate, emission concentration and relevant emission factor of the Test Contaminants from the sources listed in Schedule G;
 - d. a tabular comparison of Source Testing results for the sources and Test Contaminants listed in Schedule G to original emission estimates described in the Company's application and the ESDM Report.
2. If the Source Testing results indicate the emission estimates are higher than the original emission estimates described in the Company's application and the Original ESDM Report, the Company shall update their ESDM Report in accordance with Section 26 of O. Reg. 419/05 with the emission estimates from the Source Testing report and make these records available for review by staff of the Ministry upon request.

15. REFUSAL OF SOURCE TESTING

1. The Director may not accept the results of the Source Testing if:
 - a. the Source Testing Code or the requirements of the Manager were not followed; or
 - b. the Company did not notify the District Manager and the Manager of the Source Testing; or
 - c. the Company failed to provide a complete report on the Source Testing.
2. If the Director does not accept the results of the Source Testing, the Director may require re-testing. If re-testing is required, the Pre-Test Information strategies need to be revised and submitted to the Manager for approval. The actions taken to minimize the possibility of the Source Testing results not being accepted by the Director must be noted in the revision.

16. REVOCATION OF PREVIOUS APPROVALS

1. This Approval replaces and revokes all Certificates of Approval (Air) issued under section 9 EPA and Environmental Compliance Approvals issued under Part II.1 EPA to the Facility in regards to the activities mentioned in subsection 9(1) of the EPA and dated prior to the date of this Approval.

SCHEDULE A

Supporting Documentation

1. Environmental Compliance Approval Application, dated October 19, 2021, signed by Andrew Avgousti and submitted by the Company;
2. Emission Summary and Dispersion Modelling Report, prepared by Wasef Jamil, Arcadis Canada Inc. and dated January 2023; and email updates provided by Daniil Pavlov of the Company on October 17, 2022, April 14 and May 31, 2023;
3. Acoustic Assessment Report, prepared by Arcadis Canada, Inc. and dated January 2022;

SCHEDULE B

Temperature Requirement for Afterburners and Fume Incinerators

Equipment	Set Point Temperature (Degree Celsius)	Minimum Operating Temperature (Degree Celsius)
Afterburner for TOR-1 Cupola	750	715
Fume Incinerator for Curing Oven (TOR-1)	750	715
Afterburner for TOR-3 Cupola	750	715
Fume Incinerator for Curing Oven (TOR-3)	850	810

SCHEDULE C

SOURCE TESTING FOR VOLATILE ORGANIC MATTER

- Acetaldehyde
- acetone
- acrolein
- benzene
- bromodichloromethane
- bromoform
- bromomethane
- butadiene, 1,3 -
- Butanone, 2 -
- Carbon tetrachloride
- chloroform
- cumene
- dibromochloromethane
- dichlorodifluoromethane
- dichloroethane, 1,2 -
- Dichloroethene, trans - 1,2 -
- Dichloroethene, 1,1 -
- Dichloropropane, 1,2 -
- Ethylbenzene
- ethylene dibromide
- formaldehyde

- mesitylene
- methylene chloride
- styrene
- tetrachloroethene
- toluene
- trichloroethane, 1,1,1 -
- Trichloroethene
- trichloroethylene, 1,1,2 -
- Trichlorofluoromethane
- trichlorotrifluoroethane
- vinyl chloride
- xylenes, m-, p- and o-

SCHEDULE D

SOURCE TESTING FOR POLYCYCLIC ORGANIC MATTER

- Benzo(a)pyrene

SCHEDULE E

SOURCE TESTING FOR OTHER PARAMETERS

- Ammonia
- Carbon Dioxide
- Carbon Monoxide
- Fluorides (as Hydrogen Fluoride)
- Formaldehyde
- Hydrogen Sulphide
- Phenol
- Arsenic
- Chromium (II-III and VI)
- Mercury
- Nickel
- Vanadium
- Suspended Particulate Matter
- Nitrogen Oxides
- Sulphur Dioxide
- Total Hydrocarbons
- Dioxins and Furans

SCHEDULE F

SOURCE TESTING REQUIREMENT

Source ID	Facility ID	Source Description	Test Parameters
100	TOR 1	Cupola Desox System Outlet	Sulphur Dioxide
300A	TOR 3	Cupola Desox System Outlet	Sulphur Dioxide
100	TOR 1	Cupola	Odour, Schedule C, D & E
101	TOR 1	Collection Chamber/Spinning Chamber	Odour, Schedule C, D & E
102	TOR 1	Curing Oven/Cooling Zone	Odour, Schedule C, D & E
300A	TOR 3	Cupola Afterburner	Odour, Schedule C, D & E
300B	TOR 3	Collection Chamber	Odour, Schedule C, D & E
300C	TOR 3	Curing Oven	Odour, Schedule C, D & E
300D	TOR 3	Cooling Zone	Odour, Schedule C, D & E
Yardmelt	-	Melt Pit Yard Activities	Odour
Yardwaste	-	Waste Activities (Lagoons, Filter Waste, Wool Waste, Liquids)	Odour
T3_MHAN2	-	Melt Pit Material Handling (Dumping)	Odour
T1_WWMH	-	Waste Wool Pile Material Handling at Pile	Odour

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

1. GENERAL

Condition No. 1 is included to require the Approval holder to build, operate and maintain the Facility in accordance with the Supporting Documentation in Schedule A considered by the Director in issuing this Approval.

2. LIMITED OPERATIONAL FLEXIBILITY, REQUIREMENT TO REQUEST AN ACCEPTABLE POINT OF IMPINGEMENT CONCENTRATION AND PERFORMANCE LIMITS

Conditions No. 2, 3 and 4 are included to limit and define the Modifications permitted by this Approval, and to set out the circumstances in which the Company shall request approval of an Acceptable Point of Impingement Concentration prior to making Modifications. The holder of the Approval is approved for operational flexibility for the Facility that is consistent with the description of the operations included with the application up to the Facility Production Limit. In return for the operational flexibility, the Approval places performance based limits that cannot be exceeded under the terms of this Approval. Approval holders will still have to obtain other relevant approvals required to operate the Facility, including requirements under other environmental legislation such as the Environmental Assessment Act. The condition is also included to require the Company to provide the minimum performance requirement considered necessary to prevent an adverse effect resulting from the operation of the Facility.

3. DOCUMENTATION REQUIREMENTS

Condition No. 5 is included to require the Company to maintain ongoing documentation that demonstrates compliance with the performance limits as specified in Condition 4 of this Approval and allows the Ministry to monitor on-going compliance with these performance limits. The Company is required to have an up to date ESDM Report and Acoustic Assessment Report that describe the Facility at all times and make the Emission Summary Table and Acoustic Assessment Summary Table from these reports available to the public on an ongoing basis in order to maintain public communication with regard to the emissions from the Facility.

4. REPORTING REQUIREMENTS

Condition No. 6 is included to require the Company to provide a yearly Written Summary Form to the Ministry, to assist the Ministry with the review of the site's compliance with the EPA, the regulations and this Approval.

5. OPERATION AND MAINTENANCE

Condition No. 7 is included to require the Company to properly operate and maintain the Processes with Significant Environmental Aspects to minimize the impact to the environment from these processes.

6. SULPHUR DIOXIDE CONTINGENCY PLAN

Condition No. 8 is included to require the Company to properly operate and maintain the Processes with Significant Environmental Aspects to minimize the impact to the environment from these processes.

7. COMPLAINTS RECORDING AND REPORTING PROCEDURE

Condition No. 9 is included to require the Company to respond to any environmental complaints regarding the operation of the Equipment, according to a procedure that includes methods for preventing recurrence of similar incidents and a requirement to prepare and retain a written report.

8. RECORD KEEPING REQUIREMENTS

Condition No. 10 is included to require the Company to retain all documentation related to this Approval and provide access to employees in or agents of the Ministry, upon request, so that the Ministry can determine if a more detailed review of compliance with the performance limits as specified in Condition 4 of this Approval is necessary.

9. CONTINUOUS MONITORING

Condition No. 11 is included to require the *Company* to gather accurate information on a continuous basis so that the environmental impact and subsequent compliance with the *EPA*, the regulations and this Approval can be verified.

10. SOURCE TESTING

Conditions No. 12 to 15 are included to require the Company to gather accurate information so that compliance with the EPA, the regulations and this Approval can be verified.

11. REVOCATION OF PREVIOUS APPROVALS

Condition No. 16 is included to identify that this Approval replaces all Section 9 Certificate(s) of Approval and Part II.1 Approvals in regards to the activities mentioned in subsection 9(1) of the EPA and dated prior to the date of this Approval.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s).
5344-AR4N5V issued on February 14, 2018.**

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 19th day of July, 2023



Nancy E Orpana, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

BS/

c: District Manager, MECP Halton-Peel
Wasef Jamil, Arcadis Canada Inc.