

**ENVIRONMENTAL COMPLIANCE APPROVAL**NUMBER 2172-BAGR2C  
Issue Date: October 7, 2019

Taggart Miller Environmental Services Inc.  
225 Metcalfe St, No. 708  
Ottawa, Ontario  
K2P 1P9

Site Location: Capital Region Resource Recovery Centre  
Lot 22-25, Concession XI  
City of Ottawa

*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 facility that processes Industrial, Commercial, & Institutional waste, and Construction & Demolition waste, consisting of the following processes and support units:

- Flare
- Material recovery facility
- Construction & demolition waste recycling
- Organics processing
- Composting
- Petroleum hydrocarbon impacted soil treatment
- Landfill
- Anaerobic digestion
- Leachate pre-treatment
- Biofilters

including the *Equipment* and any other ancillary and support processes and activities, operating at a *Facility Production Limit* of up to 3,000 tonnes of waste and contaminated soils received per day and up to 450,000 tonnes of waste and contaminated soils received per year, 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 Golder Associates Ltd., dated May 2018 and signed by Danny da Silva, P.Eng. 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 10 of this *Approval*;
4. "*Acoustic Assessment Summary Table*" means a table prepared in accordance with the *Basic Comprehensive User Guide* summarizing the results of the *Acoustic Assessment Report*, as updated in accordance with Condition 10 of this *Approval*;
5. "*Approval*" means this entire Environmental Compliance Approval and any *Schedules* to it;
6. "*Basic Comprehensive User Guide*" means the *Ministry* document titled "Basic Comprehensive Certificates of Approval (Air) User Guide" dated March 2011, as amended;
7. "*Best Management Practices for Industrial Sources of Odour*" means the *Ministry* Publication "Best Management Practices for Industrial Sources of Odour", dated January 31, 2017, as amended;
8. "*Best Management Practices Plan*" means the document titled "Capital Region Resource Recovery (sic) Centre (CRRRC) Dust Management Plan", dated February 9, 2018 and prepared by Camille Taylor, P.Eng.;
9. "*Company*" means Taggart Miller Environmental Services 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*;

10. "*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;
11. "*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*;
12. "*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*;
13. "*District Manager*" means the District Manager of the appropriate local district office of the *Ministry*, where the *Facility* is geographically located;
14. "*Emission Summary Table*" means a table described in paragraph 14 of subsection 26 (1) of *O. Reg. 419/05*;
15. "*Environmental Assessment Act*" means the Environmental Assessment Act, R.S.O. 1990, c.E.18, as amended;
16. "*EPA*" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
17. "*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;
18. "*Equipment with Specific Operational Limits*" means 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*;
19. "*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*;
20. "*Facility*" means the entire operation located on the property where the *Equipment* is located;
21. "*Facility Production Limit*" means the production limit placed by the *Director* on the main product(s) or raw materials used by the *Facility*;
22. "*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;

23. "*Licensed Engineering Practitioner*" has the same meaning as in Ontario Regulation 1/17;
24. "*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;
25. "*Ministry*" means the ministry of the *Minister*;
26. "*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*;
27. "*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;
28. "*Odour Management Plan*" means a document which describes the measures to minimize odour emissions from the *Facility* and/or *Equipment*;
29. "*O. Reg. 419/05*" means Ontario Regulation 419/05, Air Pollution – Local Air Quality, as amended;
30. "*Organics Pre-processing Biofilter*" means the biofilter serving the *Organics Pre-processing Building* as described in the *Company's* application, this *Approval* and in the supporting documentation submitted with the application, to the extent approved by this *Approval*;
31. "*Organics Pre-processing Building*" means the building defined as the organics pre-processing building and forming part of the Organics Processing Facility as described in the *Original ESDM Report* ;
32. "*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 Camille Taylor P.Eng. of Golder Associates Ltd., dated February 2018, and submitted in support of the application, and includes any changes to the report made up to the date of issuance of this *Approval*;
33. "*PHC Soil Biofilter*" means the biofilter serving the PHC Soil Treatment Facility as described in the *Company's* application, this *Approval* and in the supporting documentation submitted with the application, to the extent approved by this *Approval*;

34. "*Point of Impingement*" has the same meaning as in section 2 of *O. Reg. 419/05*;
35. "*Point of Reception*" means Point of Reception as defined by *Publication NPC-300*;
36. "*Procedure Document*" means *Ministry* guidance document titled "Procedure for Preparing an Emission Summary and Dispersion Modelling Report" dated February 2017, as amended;
37. "*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*;
38. "*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;
39. "*Publication NPC-233*" means the *Ministry* Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995, as amended;
40. "*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;
41. "*Schedules*" means the following schedules attached to this *Approval* and forming part of this *Approval* namely:
- Schedule A - Supporting Documentation
  - Schedule B - Biofilter Monitoring Parameters
42. "*Substantiated Complaint*" means a complaint received either by the *Company* or the *District Manager* that has been confirmed by staff of the *Ministry* and the cause of which is attributed to the activities at the *Organics Pre-processing Building*;
43. "*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;
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;
45. "*Ventilation Assessment Report*" means a report prepared by a *Licensed Engineering Practitioner* based on ventilation assessment conducted at the *Facility*; and
46. "*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 - Biofilter Monitoring Parameters

### 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*; or
- 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 ensure that the noise emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-300*.
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*.

## **5. FUGITIVE DUST CONTROL**

1. The *Company* shall update, in consultation with the *District Manager*, the *Best Management Practices Plan* for the control of fugitive dust emissions.
2. The *Company* shall commence the update of the *Best Management Practices Plan* with the *District Manager* no less than ninety (90) days prior to commencement of operation of the *Facility* or as otherwise indicated by the *District Manager*.
3. The updated *Best Management Practices Plan* shall include a list of all *Ministry* comments received, if any, during the update of the *Best Management Practices Plan*, and a description of how each *Ministry* comment was addressed in the updated *Best Management Practices Plan*.
4. Upon commencement of operations at the *Facility*, the *Company* shall immediately implement the updated *Best Management Practices Plan* as accepted by the *District Manager*, 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*.
5. The *Company* shall continue to update the *Best Management Practices Plan* as necessary or at the direction of the *District Manager*.

## **6. ODOUR MANAGEMENT PLAN**

1. The *Company* shall, at all times, take all reasonable measures to minimize odorous emissions and odour impacts from all potential sources at the *Facility*.
2. The *Company* shall submit to the *District Manager*, no less than ninety (90) days prior to commencement of operation of the *Facility*, an *Odour Management Plan* that includes measures in place and proposed, to minimize odour impacts of the *Facility* on off-site receptors.
3. The *Odour Management Plan* shall include:
  - a. *Facility* and process descriptions including a list of potential sources of odour;
  - b. a list of in place and proposed measures at the *Facility* that can minimize the odour impact of the *Facility* on off-site receptors, including:
    - i. minimizing fugitive odour emissions from the *Facility* ;
    - ii. operating a system designed to maintain sufficient negative pressure to minimize fugitive emissions from the *Organics Pre-processing Building* ;
    - iii. applying best engineering practices to the design of new non-fugitive odour exhausts;

and,

- iv. an implementation schedule for any proposed measures.
  - c. best management practices described in *Ministry 's Best Management Practices for Industrial Sources of Odour* to ensure the effective implementation of the odour impact reduction measures, including:
    - i. periodic preventative activities and their frequency;
    - ii. inspection and maintenance procedures;
    - iii. monitoring initiatives; and,
    - iv. record keeping practices for odour complaints and steps taken to address each complaint.
4. The *Company* shall:
- a. implement the *Odour Management Plan*, as accepted by the *District Manager* in writing, upon commencement of operations at the *Facility* .
  - b. update and revise the *Odour Management Plan* within three (3) months of the following:
    - i. implementation of any proposed modifications;
    - ii. submission of a *Ventilation Assessment Report* to the *District Manager* ;
    - iii. implementation of a recommendation from a Technology Benchmarking Report.
  - c. review, and if necessary update the *Odour Management Plan* for the control of odour emissions, once every twelve (12) months from commencement of operation of the *Facility* , or at a frequency directed or agreed to in writing by the *District Manager* ;
  - d. record the results of each review and evaluation, and update the *Odour Management Plan* accordingly;
  - e. maintain the updated *Odour Management Plan* at the *Facility* and make it available to the *Ministry* staff upon request; and
  - f. implement the most recent version of the *Odour Management Plan* within sixty (60) days of an update, or in accordance with an implementation schedule agreed to in writing by the *District Manager* .
5. The *Company* shall record, and retain such records, each time a specific preventative and odour

impact reduction measure described in the *Odour Management Plan* is implemented.

## 7. VENTILATION ASSESSMENT REPORT

1. If the *Company* or the *District Manager* has received a *Substantiated Complaint* and the *Company* has been advised in writing by the *District Manager* that actions taken by the *Company* in accordance with other *Ministry* approvals for the *Facility* have not resolved the *Substantiated Complaint* within a reasonable time period or to the satisfaction of the *District Manager*, the *Company* shall:
  - a. conduct a ventilation assessment for the *Organics Pre-processing Building* within three (3) months of receiving written notification from the *District Manager* ;
  - b. prepare and submit a *Ventilation Assessment Report* for the *Organics Pre-processing Building* to the *District Manager* within three (3) months of completing the ventilation assessment. The report should include, but not be limited to:
    - i. the measured static pressure of the ventilation system, including, where feasible, the static pressure of each branch of each local exhaust ventilation system that may capture odours;
    - ii. the volumetric flow rate of the ventilation system. The report shall also include the methods used to determine the volumetric flow rate, including any calculations;
    - iii. a comparison of total make-up air flow rates to the total combined flow rates of general exhaust and the local exhaust ventilation systems;
    - iv. a comparison, where feasible, of the measured static pressure within processing areas of the building to the measured ambient static pressure outside of the building;
    - v. The exit velocity for each exhaust stack, if any, in the ventilation system;
    - vi. A depiction that shows the orientation and the configuration of each exhaust stack in the ventilation system;
    - vii. an evaluation of the ability of the ventilation system to capture all odour emissions under all operating scenarios as described in section 10 of *O. Reg. 419/05*, including scenarios where doors are open, and the resulting odour impact at off-site receptors;
    - viii. recommended improvements to the ventilation system to ensure that fugitive odours are adequately captured by ventilation systems;
  - c. commence the implementation of the recommendations in the *Ventilation Assessment Report*, if any, within three (3) months of submission of the *Ventilation Assessment Report* to the *District Manager* .

## 8. TECHNOLOGY BENCHMARKING REPORT

1. If the *Company* or the *District Manager* has received environmental complaints and the *Company* has been advised in writing by the *District Manager* that the complaints have been confirmed and that actions taken in accordance with other *Ministry* approvals for the *Facility* have not resolved the complaints within a reasonable time period or to the satisfaction of the *District Manager*, the *Company* shall:
  - a. Submit to the *Director* a Technology Benchmarking Report prepared by a *Licensed Engineering Practitioner* to identify potential options to reduce off-site odour impacts, no later than six (6) months after receipt of the written notification from the *District Manager*.
2. The Technology Benchmarking Report shall include the following, at a minimum:
  - a. a comprehensive list of all control methods for odour impact reduction based on the following:
    - i. a comparison of methods used by other facilities in the same or similar industrial sector;
    - ii. a review of emission control requirements and strategies from other jurisdictions; and,
    - iii. where applicable, transfer of technologies from other sectors with similar issues, including preventative steps such as material substitutions, process changes and add-on controls or treatment methods.
  - b. an evaluation of the technical feasibility of the identified control options individually, and where applicable, control options in combination. This evaluation will include the availability and applicability of the option to the odour source, technical considerations, and any site specific considerations;
  - c. a ranking of feasible options, or option combinations with an assessment of predicted impact reductions at off-site receptors for major sources and aggregate facility emissions including percent contribution, maximum and average odour concentrations and frequency assessment at off-site receptors, and compared to current operations; and
  - d. recommendations based on current odour impact assessment, predicted reductions that can be achieved by implementing feasible options, timelines, approval requirements and other applicable considerations.
3. The *Company* shall implement one or more recommendation from the Technology Benchmarking Report upon written request by the *District Manager*.

## 9. DOCUMENTATION REQUIREMENTS

1. The *Company* shall maintain an up-to-date *Log*.
2. No later than March 31 in each year, the *Company* shall, as required, update the *Acoustic Assessment Report* and, as required, 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 9.1 and 9.2 do not apply if Condition 2.1 has expired.

## **10. REPORTING REQUIREMENTS**

1. Subject to Condition 6.2, the *Company* shall provide the *Director* no later than June 30 of each year, a *Written Summary Form* to be submitted through the *Ministry's* website that shall include the following:
  - a. a declaration of whether the *Facility* was in compliance with section 9 of the *EPA, O. Reg. 419/05* and the conditions of this *Approval*;
  - b. a summary of each *Modification* satisfying Condition 2.1.a. and 2.1.b. that took place in the previous calendar year that resulted in a change in the previously calculated concentration at a *Point of Impingement* for any *Compound of Concern* or resulted in a change in the sound levels reported in the *Acoustic Assessment Summary Table* at any *Point of Reception*.
2. Condition 10.1 does not apply if Condition 2.1 has expired.

## **11. OPERATION AND MAINTENANCE**

1. The *Company* shall prepare and implement, upon commencement of operation of the *Facility*, 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 fugitive emissions;

- d. procedures to prevent and/or minimize odorous emissions;
  - e. procedures to prevent and/or minimize noise emissions;
  - f. procedures to respond to insufficient negative pressure in the *Organics Pre-processing Building* as indicated by the differential pressure monitoring equipment and/or alarms;
  - g. procedures for monitoring the performance of the *Organics Pre-processing biofilter* and *PHC Soil Biofilter*, including monitoring the parameters specified in Schedule B, and the frequency of monitoring each parameter;
  - h. the frequency of inspection and replacement of the media in the *Biofilters*; and
  - i. procedures for record keeping activities relating to the operation and maintenance programs.
2. The *Company* shall monitor the differential pressure of the *Organics Pre-processing Building* relative to ambient pressure;
  3. The *Company* shall operate, at all times, a system designed to maintain sufficient negative pressure to minimize fugitive emissions from the *Organics Pre-Processing Building* .
  4. 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.

## **12. COMPLAINTS RECORDING AND REPORTING**

1. If at any time, the *Company* receives an environmental complaint from the public regarding the *Facility* , the *Company* shall respond to the complaint as follows:
  - a. The *Company* shall record each complaint in a written or digital tracking system. The information to be recorded shall include the following:
    - i. name, address and the telephone number of the complainant, if known;
    - ii. time and date of the complaint; and
    - iii. details of the complaints.
  - b. Within two (2) business days after the complaint is received, the *Company* shall notify the *District Manager* of the complaint. The *Company* shall attempt to verify if the complaint relates to operations at the *Facility* . If the complaint is verified the *Company* shall then immediately initiate investigation of the cause of the complaint. The investigation shall include, as a minimum, the following:

- i. determination of the activities being undertaken at the *Facility* at the time of the complaint;
  - ii. meteorological conditions including, but not limited to the ambient temperature, approximate wind speed and its direction;
  - iii. determination if the complaint is attributed to activities being undertaken at the *Facility* and if so, the possible causes of the complaint;
  - iv. determination of the remedial actions to address the causes of the complaint, and the schedule for the implementation of the necessary remedial actions.
- c. The *Company* shall document the complaint investigation and shall make the document available for inspection by staff of the *Ministry* upon request.
  - d. The *Company* shall respond to the complainant, if known, and the response shall include the results of the investigation of the complaint, the actions taken or planned to be taken to address the causes of the complaint, and if any follow-up responses would be provided.
  - e. Upon successful resolution of the complaint, the *Company* shall, within three (3) business days, submit a report to the *District Manager* on that complaint, and all proposed actions to prevent recurrence of the complaint in the future.

### **13. 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 10.1 of this

*Approval;*

- f. records of maintenance, repair and inspection of *Equipment* related to all *Processes with Significant Environmental Aspects*;
- g. all records related to the differential pressure monitoring of the *Organics Pre-processing Building* ;
- h. records related to the monitoring of the *Organics Pre-processing Biofilter* and *PHC Soil Biofilter* ; and
- i. all records related to environmental complaints made by the public as required by Condition 12 of this *Approval*.

#### **14. 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 February 13, 2018, signed by Paul S. Taggart and submitted by the *Company*;
2. Emission Summary and Dispersion Modelling Report, prepared by Camille Taylor P.Eng. of Golder Associates Ltd., dated February 2018, and updated to version 2.2 dated December 2018;
3. Information submitted via e-mail by Camille Taylor, P.Eng., of Golder Associates Ltd. on October 23, 2018, December 19, 2018, December 20, 2018, and March 20, 2019;
4. *Acoustic Assessment Report*, prepared by Golder Associates Ltd., dated May 2018 and signed by Danny da Silva, P.Eng.

## SCHEDULE B

### Biofilter Monitoring Parameters

The *Company* shall monitor and record the operational parameters of the *Organics Pre-processing Biofilter* and *PHC Soil Biofilter* either as specified by each respective biofilter manufacturer, or as deemed necessary in accordance with site-specific operational conditions, as follows:

#### *Organics Pre-processing Biofilter* Parameters:

1. Pressure drop across the *Organics Pre-processing Biofilter* bed (kilopascals);
2. Process air flow through the *Organics Pre-processing Biofilter* (cubic metres per second);
3. Inlet air temperature (degrees Celsius), after the pre-humidification chamber;
4. Inlet air relative humidity (percent), after pre-humidification chamber;
5. pH of the water runoff from the *Organics Pre-processing Biofilter* bed;
6. Water flow in the pre-humidification chamber and the media irrigation system;
7. Any other parameters necessary to evaluate the performance of the *Organics Pre-processing Biofilter* .

#### *PHC Soil Biofilter* Parameters:

1. Pressure drop across the *PHC Soil Biofilter* bed (kilopascals);
2. Process air flow through the *PHC Soil Biofilter* (cubic metres per second);
3. *PHC Soil Biofilter* bed moisture (percent);
4. *PHC Soil Biofilter* bed temperature (degrees Celsius);
5. Inlet air temperature (degrees Celsius);
6. Water flow in the media irrigation system;
7. Any other parameters necessary to evaluate the performance of the *PHC Soil Biofilter* .

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

**1. GENERAL**

Condition number 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 number 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*.

**3. FUGITIVE DUST CONTROL AND ODOUR MANAGEMENT PLAN**

Conditions number 5 and 6 are included to emphasize that the *Facility* must be maintained and operated according to a procedure that will result in compliance with the *EPA*, the regulations and this *Approval*.

**4. VENTILATION ASSESSMENT REPORT**

Condition number 7 is included to require the *Company* to gather accurate information so that compliance with the *EPA*, the regulations and this *Approval* can be verified.

**5. TECHNOLOGY BENCHMARKING**

Condition number 8 is included to require the *Company* to provide information to the ministry on the efforts of the *Company* in minimizing odorous emissions relative to industry best practices.

**6. DOCUMENTATION REQUIREMENTS**

Condition number 9 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*.

## **7. REPORTING REQUIREMENTS**

Condition number 10 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*.

## **8. OPERATION AND MAINTENANCE**

Condition number 11 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.

## **9. COMPLAINTS RECORDING AND REPORTING PROCEDURE**

Condition number 12 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.

## **10. RECORD KEEPING REQUIREMENTS**

Condition number 13 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.

## **11. REVOCATION OF PREVIOUS APPROVALS**

Condition number 14 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*.

*In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. 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 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)**

*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 October, 2019



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

NR/

c: District Manager, MECP Ottawa  
Camille Taylor P.Eng., Golder Associates Ltd.