

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 1015-BECPHS

Issue Date: August 22, 2019

Norshred Inc.
1245 Maple Hill Court, No. 7
Newmarket, Ontario
L3Y 9E8

Site Location: Mobile Facility

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) portable waste processing facility to de-pollute and shred end-of-life vehicles, consisting of the following sources discharging to the air:

- one (1) Hammel model 950 vehicle shredder exhausting passively to the air through a source identified as SH2, an area of 6.00 square metres and 3.20 metres above grade;
- one (1) CAT18 diesel engine powering the Hammel model 950 shredder, exhausting to the air through a stack identified as source SH1, at a temperature of 511 degrees Celsius, a diameter of 0.40 metre, a flow rate of 2.22 cubic metres per second and 3.20 metres above grade;
- one (1) inclined conveyor attached to the Hammel model 950 shredder, exhausting passively to the air through a source identified as SH3, an area of 6.00 square metres and 3.20 metres above grade;
- one (1) CAT model 938G loader equipped with a diesel engine exhausting to the air through a stack identified as source WL1, at a temperature of 511 degrees Celsius, a diameter of 0.40 metre, a flow rate of 2.22 cubic metres per second and 3.20 metres above grade;
- one (1) CAT model 322BL excavator equipped with a diesel engine exhausting to the air through a stack identified as source WL2, at a temperature of 511 degrees Celsius, a diameter of 0.40 metre, a flow rate of 2.22 cubic metres per second and 3.20 metres above grade; and
- two (2) custom vehicle de-pollution containers;

all in accordance with the Application for Approval (Air) submitted by Norshred Inc., dated November 29, 2018 and signed by James Gray, President; the supporting information, including the Emission Summary and Dispersion Modelling Report, dated November 26, 2018, submitted by Fulco Environmental Inc., and signed by Greg

Fullarton; and email updates provided by Greg Fullarton on June 24, and July 4, 12 and 22, 2019.

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 *Plant*. "*Acoustic Assessment Report*" also means the Acoustic Assessment Report dated June 24, 2019, and signed by Jamie Paterson, Actinium Engineering;
2. "*Acoustic Barrier*" means a barrier or berm positioned such that it completely interrupts the line of sight between the *Equipment* and the noise sensitive *Points of Reception* continuous without holes, gaps and other penetrations, and having surface mass of at least 20 kilograms per square metre;
3. "*Approval*" means this Environmental Compliance Approval, including the application and supporting documentation listed above;
4. "*Best Management Practices Plan*" means a document or a set of documents which describe measures to minimize dust emissions from the *Facility* and/or *Equipment*;
5. "*Class 1 Area*" means an area with an acoustical environment typical of a major population centre, where the background sound level is dominated by the activities of people, usually road traffic, often referred to as "urban hum";
6. "*Class 2 Area*" means an area with an acoustical environment that has qualities representative of both *Class 1* and *Class 3 Areas*:
 - a. sound levels characteristic of *Class 1* during daytime (07:00 to 19:00 or to 23:00 hours); and
 - b. low evening and night background sound level defined by natural environment and infrequent human activity starting as early as 19:00 hours (19:00 or 23:00 to 07:00 hours);
7. "*Class 3 Area*" means a rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic, such as:
 - a. a small community;
 - b. agricultural area;
 - c. a rural recreational area such as a cottage or a resort area; or
 - d. a wilderness area;

8. "*Company*" means **Norshred Inc.**, that is responsible for the construction or operation of the *Facility* and includes any successors and assigns;
9. "*Director*" means any *Ministry* employee appointed by the Minister pursuant to Section 5 of the EPA;
10. "*District Manager*" means the District Manager of the appropriate local district office of the *Ministry*, where the *Facility* is geographically located;
11. "*EPA*" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended ;
12. "*Equipment*" means the portable waste processing facility described in the *Company's* application, this *Approval* and in the supporting documentation submitted with the application, to the extent approved by this *Approval*;
13. "*Facility*" means the entire operation located on the property where the *Equipment* is located;
14. "*Manual*" means a document or a set of documents that provide written instructions to staff of the *Company*;
15. "*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;
16. "*Ministry*" means the ministry of the *Minister*;
17. "*Noise Control Measures*" means measures to reduce the noise emissions from the *Facility* / *Equipment* including, but not limited to, silencers, acoustic louvers, enclosures, absorptive treatment, plenums and barriers, described in the *Company's* application, this *Approval* and in the supporting documentation referred to herein, to the extent approved by this *Approval*;
18. "*Plant*" means the entire portable waste processing facility, incorporating the *Equipment*;
19. "*Point of Reception*" means a Point of Reception as defined in *Publication NPC-300*;
20. "*Publication NPC-233*" means *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. "*Sensitive Receptor*" means any location where routine or normal activities occurring at reasonably expected times would experience adverse effect(s) from

- discharges from the *Plant* to the atmosphere, including one or a combination of:
- a. private residences or public facilities where people sleep (e.g.: single and multi-unit dwellings, nursing homes, hospitals, trailer parks, camping grounds, etc.);
 - b. institutional facilities (e.g.: schools, churches, community centres, day care centres, recreational centres, etc.);
 - c. outdoor public recreational areas (e.g.: trailer parks, play grounds, picnic areas, etc.); and
 - d. other outdoor public areas where there are continuous human activities (e.g.: commercial plazas and office buildings).

23. "*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.

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. Production Limit

- a. The *Company* shall limit their vehicle shredding rate to a maximum of 19.3 tonnes per hour.

2. Noise Emissions

- a. The *Company* shall, at all times, ensure that the noise emissions from the *Plant* comply with the limits determined in accordance with *Ministry Publication NPC-300*.

3. Time Restrictions

- a. The *Company* shall ensure that the Equipment is not operated more than sixty (60) calendar days per year at any one site.
- b. The *Company* shall restrict:
 - i. the *Facility* operations to the daytime hours of 7 a.m. and 7 p.m.; and
 - ii. the operation of the loader operation, during de-pollution, up to a maximum of forty (40) minutes per sixty (60) minute period.

- c. The *Company* shall ensure that the *Acoustic Barrier*, when required, is erected within five (5) working days of start-up of the *Equipment* and until that time, the *Facility* operations shall be restricted to the daytime hours of 7 a.m. and 7 p.m., Monday to Friday.

4. Minimum Separation Distance(s) to the Nearest *Sensitive Receptor*

- a. The *Company* shall ensure a minimum separation distance between the boundary of the *Plant* and the nearest *Sensitive Receptor* of:
 - i. 40 metres when there is a water spray system in operation on the *Equipment*.
 - ii. 250 metres when there is no water spray system in operation on the *Equipment*.

5. Minimum Separation Distance(s) to the Nearest *Point of Reception*

- a. The *Company* shall ensure a minimum separation distance between the *Equipment* and the nearest *Point of Reception* as specified in **SCHEDULE "B"**.

6. Noise Control Measures

- a. Except as noted in Condition 1.3, the *Company* shall ensure that the *Acoustic Barrier*, when required, is implemented at all times during the operation of the *Facility*.
- b. The *Company* shall ensure that the *Acoustic Barrier*, when required, is a minimum 7.2 metres high and a minimum 30 metres long, continuous without holes, gaps or other penetrations, having a surface mass density of at least 20 kilograms per square metre, and will be positioned in between the *Facility/Equipment* and *Points of Reception* that require shielding in accordance with the *Acoustic Assessment Report*.
- c. The *Company* shall ensure that the *Acoustic Barrier*, when required, is positioned in between the *Facility* and the *Points of Reception* that require shielding, in such a way that the distance from the *Acoustic Barrier* to the *Facility* is not greater than distances presented in **Schedule "B"**.
- d. The *Company* shall ensure that the *Acoustic Barrier*, when required, is properly maintained and continues to provide the acoustical performance outlined in the *Acoustic Assessment Report*.

7. Operation and Maintenance Manual

- a. The *Company* shall ensure that the *Plant/Equipment* is properly operated and maintained at all times. The *Company* shall:

- i. 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 *Plant/Equipment*, including:
 - 1. routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the *Equipment* suppliers;
 - 2. emergency procedures, including spill clean-up procedures;
 - 3. procedures for any record keeping activities relating to the operation and maintenance of the *Equipment*;
 - 4. all appropriate measures to minimize noise and odorous emissions from all potential sources; and
 - 5. the frequency of inspection and replacement of the filter material in the *Equipment*;

- b. implement the recommendations of the *Manual*.

8. Fugitive Dust Control

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

- b. The *Company* shall submit the *Best Management Practices Plan* to the *District Manager* not later than three months after the date of this *Approval* or as otherwise indicated by the *District Manager*.

- c. Upon acceptance of the *Best Management Practices Plan* by the *District Manager*, the *Company* shall immediately implement the *Best Management Practices Plan* for the control of fugitive dust emissions to provide effective dust suppression measures to any potential sources of fugitive dust emissions resulting from the operation of the *Facility*.

- d. The *Company* shall update the *Best Management Practices Plan* as

necessary or at the direction of the *District Manager*.

9. Marking of Portable Plant

- a. The *Company* shall post a legible sign in a location which is accessible to the public, clearly identifying:
 - i. the *Company* name;
 - ii. the number of this *Approval*;
 - iii. a brief description of the nature of the operation;
 - iv. a *Company* contact name and telephone number for the public to provide comments;
 - v. hours of operation; and
 - vi. length of time the *Company* intends to operate the *Plant* at that location.

10. Keeping a Valid Approval

- a. The *Company* shall ensure that a copy of this *Approval*, as well as any subsequent amended *Approvals* or notices that amend this *Approval*, are available for inspection by the *Ministry* at each site where the *Plant* is operated.

11. Record Retention

- a. 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:
 - i. all records on the maintenance, repair and inspection of the *Equipment*;
 - ii. all records on the daily operation of the *Plant/Equipment*, including:
 1. daily production rate;
 2. daily start-up and shut-down times of the *Plant/Equipment*;
 - iii. all records of any upset conditions associated with the operation of the *Plant/Equipment*;
 - iv. all records of any environmental complaints, including:
 1. a description, time and date of each incident;
 2. operating conditions (e.g. upset conditions, etc.) at the time of the incident;

3. wind direction at the time of the incident;
4. the name(s) of *Company* personnel responsible for handling the incident;
5. the cause of the incident;
6. the *Company* response to the incident; and
7. a description of the measures taken to address the cause of the incident and to prevent a similar occurrence in the future, and the outcome of the measures taken.

12. Notification of Complaints

- a. 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:
 - i. a description of the nature of the complaint;
 - ii. the time, date and location of the incident;
 - iii. the wind direction and other weather conditions at the time of the incident; and
 - iv. the name(s) of *Company* personnel responsible for handling the incident.

13. Change of Owner

- a. The *Company* shall notify the *District Manager*, in writing, of any of the following changes within one (1) month of the change occurring:
 - i. change of owner or operating authority, or both;
 - ii. change of address of owner or operating authority or address of new owner or operating authority;
 - iii. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c. B.17, as amended, shall be included in the notification;
 - iv. change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C.39, as amended, shall be included in the notification.
- b. The *Company* shall notify any succeeding new owner, in writing, of the existence of this *Approval*, as well as any subsequent Amended

Approvals or Notices that amend this *Approval* and, shall forward a copy of such a notice to the *Director* and the *District Manager* together with the notification required under Condition No. 13.a.

14. Relocation

- a. The *Company* shall notify the *District Manager*, in writing, at least ten (10) business days in advance of any intended location of the *Plant* at each operating site, by submitting a completed Form 1, outlined in **SCHEDULE "A"**.

SCHEDULE "A"

NOTICE OF RELOCATION FOR PORTABLE EQUIPMENT

1. Owner and/or Operator

1. Company name:
2. Contact person:
3. Telephone number:

2. Proposed Location

1. Municipality:
2. Lot number:
3. Concession number:

3. Operation

1. Date of commencement and completion of operation:
 - a. Start Date:
 - b. End Date:
2. Hours of operation:
 - a. Start Time:
 - b. End Time:
3. Maximum production rate (tonnes per hour):
4. Type of material to be processed:

Please attach the following:

1. A copy of the *Approval*;
2. A plot plan or sketch of the proposed location showing the following:

- a. the entire operating site;
- b. distance between the *Equipment* and the nearest off-property;
- c. distance between the *Equipment* and the nearest off-property *Sensitive Receptor*;
- d. land use within the minimum separation distances from *Equipment* specified in Conditions Nos. 4 and 5 of this *Approval*.

SCHEDULE "B"

Minimum Requires Separation Distances from Points of Reception

Setback requirements for unmitigated shredding operation

NPC-300 Acoustical Area	Time of <i>Equipment</i> Operation	Sound Level Limit	Minimum Separation Distance
Class 1 and Class 2 Areas (Urban)	between 7:00 am and 7:00 pm	50 dBA	1,065 metres
Class 1 Areas (Urban)	between 7:00 pm and 11:00 pm	50 dBA	No Operation
Class 2 Areas (Urban)	between 7:00 pm and 11:00 pm	45 dBA	No Operation
Class 1 and Class 2 Areas (Urban)	between 11:00 pm and 7:00 am	45 dBA	No Operation
Class 3 Areas (Rural)	between 7:00 am and 7:00 pm	45 dBA	1,675 metres
Class 3 Areas (Rural)	between 7:00 pm and 7:00 am	40 dBA	No Operation

a.

Setback requirements for shredding operation with at least 7.2 metre high and at least 30 metres long Acoustic Barrier, at a distance within 5 metres from the Equipment (the shredder and the excavator)

NPC-300 Acoustical Area	Time of <i>Equipment</i> Operation	Sound Level Limit	Minimum Separation
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			Distance
Class 1 and Class 2 Areas (Urban)	between 7:00 am and 7:00 pm	50 dBA	265 metres
Class 1 Areas (Urban)	between 7:00 pm and 11:00 pm	50 dBA	No Operation
Class 2 Areas (Urban)	between 7:00 pm and 11:00 pm	45 dBA	No Operation
Class 1 and Class 2 Areas (Urban)	between 11:00 pm and 7:00 am	45 dBA	No Operation
Class 3 Areas (Rural)	between 7:00 am and 7:00 pm	45 dBA	545 metres
Class 3 Areas (Rural)	between 7:00 pm and 7:00 am	40 dBA	No Operation

Setback requirements for unmitigated de-pollution operation

NPC-300 Acoustical Area	Time of Equipment Operation	Sound Level Limit	Minimum Separation Distance
Class 1 and Class 2 Areas (Urban)	between 7:00 am and 7:00 pm	50 dBA	205 metres
Class 1 Areas (Urban)	between 7:00 pm and 11:00 pm	50 dBA	No Operation
Class 2 Areas (Urban)	between 7:00 pm and 11:00 pm	45 dBA	No Operation
Class 1 and Class 2 Areas (Urban)	between 11:00 pm and 7:00 am	45 dBA	No Operation
Class 3 Areas (Rural)	between 7:00 am and 7:00 pm	45 dBA	380 metres
Class 3 Areas (Rural)	between 7:00 pm and 7:00 am	40 dBA	No Operation

Setback requirements for de-pollution operation with at least 7.2 metre high and at least 30 metres long Acoustic Barrier, at a distance within 30 metres from the Equipment (the loader and the generator)

NPC-300 Acoustical Area	Time of Equipment Operation	Sound Level Limit	Minimum Separation Distance
Class 1 and Class 2 Areas	between 7:00 am and	50 dBA	50 metres

(Urban)	7:00 pm		
Class 1 Areas (Urban)	between 7:00 pm and 11:00 pm	50 dBA	No Operation
Class 2 Areas (Urban)	between 7:00 pm and 11:00 pm	45 dBA	No Operation
Class 1 and Class 2 Areas (Urban)	between 11:00 pm and 7:00 am	45 dBA	No Operation
Class 3 Areas (Rural)	between 7:00 am and 7:00 pm	45 dBA	115 metres
Class 3 Areas (Rural)	between 7:00 pm and 7:00 am	40 dBA	No Operation

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

1. Conditions No. 1 to 10, inclusive, are included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the *Plant/Equipment* and to emphasize that the *Plant/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. 11 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.
3. Conditions No. 12 to 14, inclusive, are included to require the *Company* to notify/report to the *Ministry* so that compliance with the *EPA*, the regulations and this *Approval* can be verified.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

1. The name of the appellant;

2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary* Environmental Review Tribunal 655 Bay Street, Suite 1500 Toronto, Ontario M5G 1E5	AND	The Minister of the Environment, Conservation and Parks 777 Bay Street, 5th Floor Toronto, Ontario M7A 2J3	AND	The Director appointed for the purposes of Part II.1 of the Environmental Protection Act Ministry of the Environment, Conservation and Parks 135 St. Clair Avenue West, 1st Floor Toronto, Ontario M4V 1P5
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*** 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**

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 22nd day of August,
2019

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

EC/
c: District Manager, MECP York-Durham
Greg Fullarton, Fulco Environmental Inc.