

**AMENDMENT TO PROVISIONAL CERTIFICATE OF  
APPROVAL  
WASTE DISPOSAL SITE  
NUMBER A420018  
Notice No. 17  
Issue Date: October 28, 2010**

Laflèche Environmental Inc.  
17125 Laflèche Rd  
Moose Creek, Ontario  
K0C 1W0

Site Location: Eastern Ontario Waste Handling Facility  
17125 Laflèche Rd Moose Creek  
North Stormont Township, United Counties of Stormont, Dundas and Glengarry  
K0C 1W0

*You are hereby notified that I have amended Provisional Certificate of Approval No. A420018 issued on November 4, 1999 for the development and operation of a 66-hectare landfill/composting site within a total site area of 189 hectares , as follows:*

1. The following definition has been amended to read as follows:

"**Finished Compost**" means the organic waste that has been composted and fully cured and is considered ready for sampling and testing for compliance with the compost quality criteria. Finished Compost is considered a waste until testing for the compost quality criteria is completed and compliance with the criteria is demonstrated;

2. The following definitions have been added:

"**Compost**" means the material produced by an aerobic composting of the organic waste and which has been tested to show compliance with the compost quality criteria listed in this Notice and can be used as a soil additive or for other similar uses. Compost is not considered a waste;

"**Immature Compost**" means the organic waste which has been composted in the aerated composting channels and screened. Composted organic waste is considered an immature compost until it has been fully cured and is ready for compliance testing for compost quality criteria. Immature compost is considered a waste;

3. Condition 83.1 c. has been amended to read as follows:

83.1 The *Owner* shall ensure that the amount of waste received at the *Site* for composting does not exceed:

c. 500 tonnes per day of bulking agents.

4. Condition 84.2 c. has been amended to read as follows:

84.2 The *Owner* shall ensure that the following maximum storage capacities are not exceeded:

c. a maximum of 100 tonnes of bulking agents indoor and 15,000 tonnes outdoor;

5. Condition 84.3 c. has been amended to read as follows:

84.3 The *Owner* may store waste received for composting in accordance with the documentation listed in the attached Schedule "A" and subject to the following limitations:

c. odourous components of the bulking agents and of the *wet leaf and yard waste* , excluding the leaves, shall be incorporated into the *composting* process within four (4) days of receipt;

6. Condition 85.0 has been amended to read as follows:

### **85.0 Composting Operation**

85.1 The *Owner* shall ensure that waste accepted for compost feedstock does not exceed the criteria for trace metals and organic chemicals listed in the attached Schedule "G".

85.2 Notwithstanding Condition 85.1, the feedstock that does not meet the criteria for trace metals and organic chemicals listed in the attached Schedule "G" may be composted for use as daily and intermediate cover in the landfill.

85.3 The *Owner* shall ensure that compost feedstock from *industrial, commercial and institutional* sources are of acceptable quality by:

- a. screening waste generators and their waste streams and limiting the receipt of waste from approved waste generators only;
- b. visually inspecting all incoming waste loads;
- c. immediately rejecting any waste which does not comply with this *Certificate* or is of unacceptable quality; and

- d. if the acceptability of the feedstock is in doubt, verifying the quality through an on-going testing program.

85.4 The *Owner* shall ensure that *composting* operation meets the following:

- a. waste shall be composted indoors, in aerated concrete channels which have been additionally covered as described in Item 61 of the attached Schedule "A";
- b. waste shall be subjected to an active *composting* phase for a minimum of 25 days;
- c. during the active *composting* phase, all waste being composted shall:
  - (i) reach and maintain a temperature of at least 55°C for a minimum of three (3) consecutive days to inactivate pathogens; and
  - (ii) reach and maintain a minimum temperature of at least 40 °C for at least 14 of the 25 days of active *composting*; and
  - (iii) maintain an average temperature of at least 45 °C throughout the active *composting* phase;
- d. during the active *composting* phase, the temperature of the waste being composted shall be monitored and recorded hourly; and
- e. during the active *composting* phase, the *composting* waste will be turned regularly and no less than five (5) times.

85.5 The *Owner* shall prevent pathogenic cross-contamination during the *composting* process as follows:

- a. the *Owner* shall ensure that the incoming waste and the equipment used in handling of the incoming waste are kept separate and do not come in contact with the *immature compost* or the *finished compost* or the *compost* except in the case where the *immature compost* or the *finished compost* is being fed back into the *composting* process; and
- b. with respect to the *composting* process turner, upon completion of the turning in one channel, the *composting* process turner will be operated for at least an additional two (2) minutes without any material to clear the turner. The turner shall be cleaned with compressed air or pressure washed and visually inspected to confirm that the conveyors have been cleared before being moved to the next channel.

85.6 Upon completion of the active *composting* phase:

- a. *immature compost* shall be cured for six (6) months; or

- b. *immature compost* shall be cured for a minimum of twenty one (21) days and shall meet one of the following maturity criteria:
    - (i) O<sub>2</sub> consumption rate = 400 mg/kg of organic matter per hour; or
    - (ii) CO<sub>2</sub> production rate = 4 mg of C from CO<sub>2</sub> / g of organic matter per day; or
    - (iii) temperature rise of compost pile < 8°C above ambient temperature.
- 85.7 Prior to being released off *Site* for unrestricted use, *finished compost* shall be monitored for quality as follows:
- a. as a minimum, a composite sample, consisting of a minimum of ten (10) representative grab samples, shall be collected for every 500 tonnes of the *finished compost* produced during the first four (4) months of operation;
  - b. as a minimum, following the first four (4) months of operation, a composite sample, consisting of a minimum of ten (10) representative grab samples, shall be collected every two (2) months representing all *finished compost* generated within the preceding sixty (60) days or every 5,000 tonnes of *finished compost*, whichever comes first;
  - c. if non-compliance with the *compost* quality criteria has taken place during three (3) consecutive sampling events, the Owner shall sample and test the *finished compost* in accordance with Condition 85.7 (a) until compliance with the *compost* criteria is demonstrated again; and
  - d. samples shall be analyzed for criteria listed in this *Certificate* ; and
  - e. all production records shall be reviewed to ensure temperature and residency time requirements for pathogen inactivation have been met.
- 85.8
- a. *Finished compost* that meets the quality and maturity criteria listed in this *Certificate* is considered to be *compost* and may be transferred off *Site* for unrestricted use.
  - b. *Finished compost* that meets the metals and foreign matter quality requirements listed in the attached Schedule "G" of this *Certificate*, but did not achieve the pathogen inactivation time or temperature requirements, or does not meet the attached Schedule "G" pathogen quality requirements, may be returned to the *composting* process for re-processing. Alternatively, the *finished compost* may be segregated from all other all other waste and *compost* and disposed of in accordance with *Ontario Regulation 347* and the *Act* or may be used as alternative daily or intermediate cover in the landfill.

- c. *Finished compost* that meets the metals and foreign matter quality requirements listed in the attached Schedule "G" of this *Certificate*, but does not meet the maturation criteria from Condition 85.6 shall be re-tested and/or shall continue to undergo the curing process until the maturation criteria are met. Alternatively, the *finished compost* may be segregated from all other all other waste and *compost* and disposed of in accordance with *Ontario Regulation 347* and the *Act* or may be used as alternative daily or intermediate cover in the landfill.
- d. *Finished compost* that does not meet the metal quality requirements listed in the attached Schedule "G" of this *Certificate* shall be segregated from all other all other waste and *compost* and shall disposed of in accordance with *Ontario Regulation 347* and the *Act* or may be used as alternative daily or intermediate cover in the landfill.

85.9 All analysis required in this *Certificate* for the purpose of verifying compliance with the requirements of this *Certificate* shall be undertaken in accordance with the document entitled "National Standard of Canada CAN/BNQ 0413-200/2005 Organic Soil Conditioners – Composts", dated 2005, as amended.

85.10 Unless otherwise specified by the conditions of this *Certificate*, the *Owner* shall comply with the requirements of the Ministry's document entitled "Interim Guidelines for the Production and Use of Aerobic Compost in Ontario", dated November 2004, as amended.

7. The following documents have been added to Schedule "A":

- 91. Application for a Certificate of Approval for a Waste Disposal Site dated June 14, 2010, signed by Dale Phippen, Lafèche Environmental Inc., including the following supporting documentation:
  - Letter dated May 11, 2010, from Brian R. King, Lafèche Environmental Inc. to Andrew Neill, Ontario Ministry of the Environment, including additional clarification on the proposal;
  - Drawing No. S-1A, entitled "Landfill Overall Site Plan"
  - Report dated May 2010, Revision No. 4, entitled "Operational Contingency Plan"
- 92. E-mail dated August 6, 2010 (3:37 p.m.) from Dale Phippen, Lafèche Environmental Inc., to Margaret Wojcik, Ontario Ministry of the Environment, including additional information on the proposal.
- 93. E-mail dated August 19, 2010 (12:25 p.m.) from Dale Phippen, Lafèche Environmental Inc., to Margaret Wojcik, Ontario Ministry of the Environment, including additional information on the proposal.

8. Reason 7 has been amended to read as follows:

7. The reason for Conditions 85.7, 85.8 and 85.9 is to demonstrate that the composting operation is performing as designed and the finished compost will not present a safety or health hazard to the public or negatively impact the environment. Condition 85.10 is included to require the Owner to design, operate, maintain and monitor the waste management activities at the Composting Site in compliance with the Ministry's supplementary requirements as they become published and amended from time to time.

The reasons for this amendment to the Certificate of Approval are as follows:

to approve an increase in the daily receipt rate of bulking agents, an increase in the maximum amount of bulking agents approved for storage at the site, to change the finished compost sampling and testing protocol, to approve an updated Operational Contingency Plan and to up-date the conditions of the approval.

**This Notice shall constitute part of the approval issued under Provisional Certificate of Approval No. A420018 dated November 4, 1999**

*In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, S.O. 1993, Chapter 28, the Environmental Commissioner, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner 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:*

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

*The Notice should also include:*

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the waste disposal site is located;

*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, 15th Floor  
Toronto, Ontario  
M5G 1E5

AND

The Environmental  
Commissioner  
1075 Bay Street, 6th Floor  
Suite 605  
Toronto, Ontario  
M5S 2B1

AND

The Director  
Section 39, *Environmental Protection Act*  
Ministry of the Environment  
2 St. Clair Avenue West, Floor 12A  
Toronto, Ontario  
M4V 1L5

\* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or [www.ert.gov.on.ca](http://www.ert.gov.on.ca)

*This instrument is subject to Section 38 of the Environmental Bill of Rights, 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 [www.ene.gov.on.ca](http://www.ene.gov.on.ca), you can determine when the leave to appeal period ends.*

*The above noted waste disposal site is approved under Section 39 of the Environmental Protection Act.*

DATED AT TORONTO this 28th day of October, 2010



---

Tesfaye Gebrezghi, P.Eng.

Director

Section 39, *Environmental Protection Act*

MW/

c: District Manager, MOE Cornwall  
Dale Phippen, Laflèche Environmental Inc.