

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A420010

Issue Date: May 25, 2012

North Renfrew Landfill Operations Board
34465 Highway 17 Laurentian Hills Municipal Building
Rural Route, No. 1
Deep River, Ontario
K0J 1P0

Site Location: North Renfrew Landfill
995 Baggs Rd, Lot 5, Concession 11, Chalk River
Deep River Town, County of Renfrew

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:

the use and operation of a 2.8 hectare disposal area within a total site area of 25.92 hectares.

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

"Access Road" means the portion of Baggs Road, north from Plant Road, to the landfill entrance;

"Approval" means this Environmental Compliance Approval and any Schedules to it, including the application and supporting documentation listed in Schedule "A";

"Attenuation Zone" means those lands located between the landfill site and the Maskinonge Lake which are shown on Schedule "A" of the Access Agreement between The Corporation of the Town of Deep River, The Corporation of the Town of Laurentian Hills and Atomic Energy of Canada Ltd. included as Item 5 of Schedule "A" to this *Approval*;

"Contaminating Life Span" means,

- (a) in respect of a landfilling site, the period of time during which the site will produce contaminants at concentrations that could have an unacceptable impact if they were to be discharged from the site, and
- (b) in respect of a landfilling site and a contaminant or group of contaminants, the period of time during which the site will produce the contaminant or a contaminant in the group at concentrations that could have an unacceptable impact if they were to be discharged from

the site;

"*Buffer*" means those lands located within the landfill property boundary which are not part of the landfill footprint as shown in Figure No. 6 in Item 7 in Schedule "A";

"*Director*" means any *Ministry* employee appointed in writing by the Minister pursuant to section 5 of the EPA as a Director for the purposes of Part V of the *EPA*;

"*District Manager*" means the District Manager of the local district office of the *Ministry* in which the *Site* is geographically located;

"*EPA* " means *Environmental Protection Act* , R.S.O. 1990, c. E. 19, as amended;

"*Household Hazardous Waste*" means hazardous wastes which have been generated by domestic households, including waste motor oil, automotive batteries, refrigerants, acid wastes, heavy metals, alkaline wastes, paints/pigments, aliphatic solvents, light fuels, waste oils & lubricants, organic laboratory chemicals, inorganic laboratory chemicals, waste compressed gas cylinders, and fluorescent lights.

"*Ministry*" means the Ontario Ministry of the Environment;

"*MNR*" means the Ministry of Natural Resources;

"*NMA* " means *Nutrient Management Act* , 2002, S.O. 2002, c. 4, as amended from time to time;

"*Publication NPC-115*" means Publication NPC-115, Sound Level Limits for Construction Equipment, part of the Model Municipal Noise Control By-Law, Final Report, August, 1978.

"*Operator*" means any person, other than the Owner's employees, authorized by the *Owner* as having the charge, management or control of any aspect of the *Site* and includes its successors or assigns;

"*Owner*" or "*Board*" means the consortium responsible for the establishment and/or operation of the *Site* being approved by this *Approval*, and includes North Renfrew Landfill Operations Board its successors and assigns;

"*OWRA* " means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40, as amended;

"*PA* " means the *Pesticides Act* , R.S.O. 1990, c. P-11, as amended from time to time;

"*Provincial Officer*" means any person designated in writing by the Minister as a provincial officer pursuant to Section 5 of the *OWRA* or Section 5 of the *EPA* or Section 17 of *PA* or Section 4 of *NMA* or Section 8 of *SDWA*;

"*PWQO*" means Provincial Water Quality Objectives included in the July 1994 publication entitled "Water Management Policies, Guidelines, Provincial Water Quality Objectives" as amended from time

to time or limits set by the *Regional Director*, for the protection of the surface water at and off the *Site*.

"*Regional Director*" means the Regional Director of the local Regional Office of the *Ministry* in which the *Site* is located.

"*Regulation 347*" or "*Reg. 347*" means Regulation 347, R.R.O. 1990, made under the EPA, as amended;

"*SDWA*" means *Safe Drinking Water Act*, 2002, S.O. 2002, c. 32, as amended from time to time;

"*Service Area*" means the area from which waste may be received at the *Site* for disposal or transfer;

"*Site*" or "*Landfill*" means the entire waste disposal site, including the buffer lands, and contaminant attenuation zone at North Renfrew Landfill, 995 Baggs Rd, Lot 5, Concession 11, Chalk River, Town of Deep River, County of Renfrew;

"*SLC*" means the Site Liaison Committee; and

"*Trained personnel*" means personnel knowledgeable in the following through instruction and/or practice:

- a. relevant waste management legislation, regulations and guidelines;
- b. major environmental concerns pertaining to the waste to be handled;
- c. occupational health and safety concerns pertaining to the processes and wastes to be handled;
- d. management procedures including the use and operation of equipment for the processes and wastes to be handled;
- e. emergency response procedures;
- f. specific written procedures for the control of nuisance conditions;
- g. specific written procedures for refusal of unacceptable waste loads; and
- h. the requirements of this *Approval*.

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

Compliance

- (1) The *Owner* and *Operator* shall ensure compliance with all the conditions of this *Approval* and shall ensure that any person authorized to carry out work on or operate any aspect of the *Site* is notified of this *Approval* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- (2) Any person authorized to carry out work on or operate any aspect of the *Site* shall comply

with the conditions of this *Approval*.

In Accordance

- (3) Except as otherwise provided by this *Approval*, the *Site* shall be designed, developed, built, operated and maintained in accordance with the documentation listed in the attached Schedule "A".

Interpretation

- (4) Where there is a conflict between a provision of any document listed in Schedule "A" in this *Approval*, and the conditions of this *Approval*, the conditions in this *Approval* shall take precedence.
- (5) Where there is a conflict between the application and a provision in any document listed in Schedule "A", the application shall take precedence, unless it is clear that the purpose of the document was to amend the application and that the *Ministry* approved the amendment.
- (6) Where there is a conflict between any two documents listed in Schedule "A", the document bearing the most recent date shall take precedence.
- (7) The conditions of this *Approval* are severable. If any condition of this *Approval*, or the application of any condition of this *Approval* to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this *Approval* shall not be affected thereby.

Other Legal Obligations

- (8) The issuance of, and compliance with, this *Approval* does not:
 - (a) relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or
 - (b) limit in any way the authority of the *Ministry* to require certain steps be taken or to require the *Owner* and *Operator* to furnish any further information related to compliance with this *Approval* .

Adverse Effect

- (9) The *Owner* and *Operator* shall take steps to minimize and ameliorate any adverse effect on the natural environment or impairment of water quality resulting from the *Site*, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.
- (10) Despite an *Owner*, *Operator* or any other person fulfilling any obligations imposed by this *Approval* the person remains responsible for any contravention of any other condition

of this *Approval* or any applicable statute, regulation, or other legal requirement resulting from any act or omission that caused the adverse effect to the natural environment or impairment of water quality.

Change of Ownership

- (11) The *Owner* shall notify the *Director*, in writing, and forward a copy of the notification to the *District Manager*, within 30 days of the occurrence of any changes in the following information:
 - (a) the ownership of the *Site*;
 - (b) the *Operator* of the *Site*;
 - (c) the address of the *Owner or Operator*; and
 - (d) the partners, where the *Owner or Operator* 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, shall be included in the notification.
- (12) No portion of this *Site* shall be transferred or encumbered prior to or after closing of the *Site* unless the *Director* is notified in advance and sufficient financial assurance is deposited with the *Ministry* to ensure that these conditions will be carried out.
- (13) In the event of any change in *Ownership* of the *Site*, other than change to a successor Owner, the *Owner* shall notify the successor of and provide the successor with a copy of this *Approval*, and the *Owner* shall provide a copy of the notification to the *District Manager* and the *Director*.

Certificate of Requirement/Registration on Title

- (14) The Owner shall:
 - (a) Within sixty (60) days of the date of the issuance of this *Approval*, submit to the *Director* for review, two copies of a completed Certificate of Requirement with a registerable description of the *Site*; and
 - (b) Within 10 calendar days of receiving the Certificate of Requirement authorized by the *Director*, register the Certificate of Requirement in the appropriate Land Registry Office on title to the *Site* and submit to the *Director* and the *District Manager* the duplicate registered copy immediately following registration.
- (15) Pursuant to Section 197 of the Environmental Protection Act, neither the *Owner* nor any person having an interest in the *Site* shall deal with the *Site* in any way without first giving a copy of this *Approval* to each person acquiring an interest in the *Site* as a result of the dealing.

Inspections by the Ministry

- (16) No person shall hinder or obstruct a *Provincial Officer* from carrying out any and all inspections authorized by the *OWRA*, the *EPA*, the *PA*, the *SDWA* or the *NMA*, of any place to which this *Approval* relates, and without limiting the foregoing:
- (a) to enter upon the premises where the approved works are located, or the location where the records required by the conditions of this *Approval* are kept;
 - (b) to have access to, inspect, and copy any records required to be kept by the conditions of this *Approval*;
 - (c) to inspect the *Site*, related equipment and appurtenances;
 - (d) to inspect the practices, procedures, or operations required by the conditions of this *Approval*; and
 - (e) to sample and monitor for the purposes of assessing compliance with the terms and conditions of this *Approval* or the *EPA*, the *OWRA*, the *PA*, the *SDWA* or the *NMA*.

Information and Record Retention

- (17) Any information requested, by the *Ministry*, concerning the *Site* 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 *Ministry*, upon request, in a timely manner. Records shall be retained for *contaminating life span* of the *Site* except for as otherwise authorized in writing by the *Director*.
- (18) The receipt of any information by the *Ministry* or the failure of the *Ministry* to prosecute any person or to require any person to take any action, under this *Approval* or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as:
- (a) an approval, waiver, or justification by the *Ministry* of any act or omission of any person that contravenes any term or condition of this *Approval* or any statute, regulation or other legal requirement; or
 - (b) acceptance by the *Ministry* of the information's completeness or accuracy.
- (19) The *Owner* shall ensure that a copy of this *Approval*, in its entirety and including all its Notices of Amendment, and documentation listed in Schedule "A", are retained at the *Site* at all times.

2. SITE OPERATION

Operation

- (1) The *Site* shall be operated and maintained at all time including management and disposal of all waste in accordance with the *EPA*, *Regulation 347*, and the conditions of this *Approval*. At no time shall the discharge of a contaminant that causes or is likely to cause an adverse effect be permitted.

Signs

- (2) A sign shall be installed and maintained at the main entrance/exit to the *Site* on which is legibly displayed the following information:
- (a) the name of the *Site* and *Owner*;
 - (b) the number of the *Approval*;
 - (c) the name of the *Operator*;
 - (d) the normal hours of operation;
 - (e) the allowable and prohibited waste types;
 - (f) the telephone number to which complaints may be directed;
 - (g) a warning against unauthorized access;
 - (h) a twenty-four (24) hour emergency telephone number (if different from above);
and
 - (i) a warning against dumping outside the *Site*.
- (3) The *Owner* shall install and maintain signs to direct vehicles to working face, recycling and re-use areas.
- (4) The *Owner* shall provide signs at recycling and reuse depot informing users what materials are acceptable and directing users to appropriate storage area.

Vermin, Vectors, Dust, Litter, Odour, Noise and Traffic

- (5) (a) The *Site* shall be operated and maintained such that the vermin, vectors, dust, litter, odour, noise and traffic do not create a nuisance.
- (b) In addition to the general noise control measures contained in the documents in Schedule "A", the *Owner* shall abide by the applicable municipal noise control by-laws, if any. In case of a noise complaint, the *Owner* shall verify that the above measures are being complied with and shall instigate measures deemed to be needed. If despite these efforts the complaint persists, the *Owner* shall comply with the sound level limits in *Publication NPC-115*, as amended from time to time.
- (c) Noise from or related to the operation of the facility shall be kept to a minimum and in any event, the *Owner* shall comply with the criteria set out in documents in Schedule "A".

Burning Waste Prohibited

- (6) (a) Burning of waste at the *Site* is prohibited.
- (b) Notwithstanding Condition 2. (6) (a) above, burning of segregated, clean wood and brush at the landfill may be carried out in strict compliance with the Ministry of the Environment Document titled "Guideline C-7, Burning at Landfill Sites"

dated April 1994.

Site Access

- (7) (a) The maximum waste disposal operating hours of the Landfill shall be 7:00 a.m. to 7:00 p.m., Monday to Saturday. The Landfill will be closed on Sundays.
 - (b) During days when the Landfill is open, on-site activity other than waste disposal may occur an hour before 7:00 a.m. or two hours after 7:00 p.m. or both.
 - (c) The Owner/Operator may determine the actual hours of operation within these approved limits providing that the actual hours are posted at the Landfill entrance gates.
 - (d) Equipment maintenance and administrative functions may occur at any time.
- (8) On-site equipment used for daily site preparation and closing activities may be operated one (1) hour before and one (1) hour after the hours of operation approved by this *Approval*.
- (9) With the prior written approval from the *District Manager*, the time periods may be extended to accommodate seasonal or unusual quantities of waste.

Site Security

- (10) No waste shall be received, landfilled or removed from the *Site* unless a site supervisor or an attendant is present and supervises the operations during operating hours. The *Site* shall be closed when a site attendant is not present to supervise landfilling operations.
- (11) The *Site* shall be operated and maintained in a safe and secure manner. During non-operating hours, the *Site* entrance and exit gates shall be locked and the *Site* shall be secured against access by unauthorized persons.

3. EMPLOYEE TRAINING

- (1) A training plan for all employees that operate any aspect of the *Site* shall be developed and implemented by the *Operator*. Only *Trained Personnel* shall operate any aspect of the *Site* or carry out any activity required under this *Approval*.

4. COMPLAINTS RESPONSE PROCEDURE

- (1) If at any time the *Owner* receives complaints regarding the operation of the *Site*, the *Owner* shall respond to these complaints according to the following procedure:
- (a) The *Owner* shall record and number each complaint, either electronically or in a

log sheet, and shall include the following information: the nature of the complaint, the name, address and the telephone number of the complainant if the complainant will provide this information and the time and date of receiving the complaint, and the time and date of the occurrence leading to the complaint;

- (b) The *Owner*, upon notification of the complaint, shall initiate appropriate steps to determine all possible causes of the complaint, proceed to take the necessary actions to eliminate the cause of the complaint and forward a formal reply to the complainant;
- (c) Respond to the complainant within ten (10) working days with a written notice of action;
- (d) Review at least twice annually with SLC, all complaints about the operations of the Landfill and the Owner's response and action; and
- (e) The *Owner* shall complete and retain on-site or at the *Board's* Office a report written within one (1) week of the complaint date, listing the actions taken to resolve the complaint and any recommendations for remedial measures, and managerial or operational changes to reasonably avoid the recurrence of similar incidents.

5. EMERGENCY RESPONSE

- (1) Any spills, fires or other emergency situations shall be forthwith reported directly to the *Ministry's* Spills Action Centre (1-800-268-6060) and shall be cleaned up immediately.
- (2) In addition, the *Owner* shall submit, to the *District Manager* a written report within three (3) business days of the emergency situation, outlining the nature of the incident, remedial measures taken, handling of waste generated as a result of the emergency situation and the measures taken to prevent future occurrences at the *Site*.
- (3) All wastes resulting from an emergency situation shall be managed and disposed of in accordance with *O.Reg. 347*.
- (4) All equipment and materials required to handle the emergency situations shall be:
 - (a) kept on hand or near by at all times that waste landfilling and/or handling is undertaken at the *Site*; and
 - (b) adequately maintained and kept in good repair.
- (5) The *Owner* shall ensure that the emergency response personnel are familiar with the use of such equipment and its location(s).

6. RECORD KEEPING AND REPORTING

Daily Log Sheets

- (1) A daily log shall be maintained in written format and shall include the following information:
 - (a) the type, date and time of arrival, hauler of all large waste loads and cover material received at the *Site*;
 - (b) a record of litter collection activities and the application of any dust suppressants;
 - (c) a record of the daily inspections; and
 - (d) a description of any out-of-service period of any control, treatment, disposal or monitoring facilities, the reasons for the loss of service, and action taken to restore and maintain service and the measures taken to prevent future occurrences at the *Site*.
- (2) Any information requested, by the *Director* or a *Provincial Officer*, concerning the *Site* 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 *Ministry*, upon request.

Weekly Inspections and Log Sheets

- (3) An inspection of the entire *Site* and all equipment on the *Site* shall be conducted each day the *Site* is in operation to ensure that: the *Site* is secure; that the operation of the *Site* is not causing any nuisances; that the operation of the *Site* is not causing any adverse effects on the environment and that the *Site* is being operated in compliance with this *Approval*. Any deficiencies discovered as a result of the inspection shall be remedied immediately, including temporarily ceasing operations at the *Site* if needed.
- (4) A record of the inspections shall be kept in a daily log sheet that includes:
 - (a) the name and signature of person that conducted the inspection;
 - (b) the date and time of the inspection;
 - (c) the list of any deficiencies discovered;
 - (d) the recommendations for remedial action; and
 - (e) the date, time and description of actions taken.
- (5) A record shall be kept in the log sheet of all refusals of waste shipments, the reason(s) for refusal, and the origin of the waste, if known.

Environmental Monitoring Report (EMR)

- (6) A written report on the development, operation and monitoring of the *Site*, shall be completed biennially (the "EMR"). The EMR shall be submitted to the *District Manager*, by March 31st of the year following the period being reported upon.

- (7) The EMR shall include the following:
- (a) the results and an interpretive analysis of the results of all leachate, groundwater, surface water and landfill gas monitoring, including an assessment of the need to amend the monitoring programs;
 - (b) an assessment of the operation and performance of all engineered facilities, the need to amend the design or operation of the *Site* , and the adequacy of and need to implement the contingency plans;
 - (c) site plans showing the existing contours of the *Site*; areas of landfilling operation during the reporting period; areas of intended operation during the next reporting period; areas of excavation during the reporting period; the progress of final cover, vegetative cover, and any intermediate cover application; previously existing site facilities; facilities installed during the reporting period; and site preparations and facilities planned for installation during the next reporting period;
 - (d) calculations of the volume of waste, daily and intermediate cover, and final cover deposited or placed at the *Site* during the reporting period and a calculation of the total volume of *Site* capacity used during the reporting period;
 - (e) a calculation of the remaining capacity of the *Site* and an estimate of the remaining *Site* life;
 - (f) a summary of any complaints received and the responses made;
 - (g) a discussion of any operational problems encountered at the *Site* and corrective action taken;
 - (h) any changes to the Design and Operations Report and the Closure Plan that have been approved by the *Director* since the last *Annual Report*;
 - (i) a report on the status of all monitoring wells and a statement as to compliance with *Ontario Regulation 903*;
 - (j) any other information with respect to the *Site* which the *Regional Director* may require from time to time; and
 - (k) a summary and analysis of all hydraulic and geochemical monitoring results.

7. LANDFILL DESIGN AND DEVELOPMENT

Approved Waste Types

- (1) Only solid non-hazardous municipal waste including asbestos as defined under *Reg. 347* shall be accepted at the *Site* for landfilling.
- (2) The *Owner* shall develop and implement a program to inspect waste to ensure that the waste received at the *Site* is of a type approved for acceptance under this *Approval*.
- (3) The *Owner* shall ensure that all loads of waste are properly inspected by *Trained personnel* prior to acceptance at the *Site* and that the waste vehicles are directed to the appropriate areas for disposal or transfer of the waste. The *Owner* shall notify the *District Manager*, in writing, of load rejections at the *Site* within five (5) business days from

their occurrence.

Capacity

- (4) The maximum volumetric capacity of the *Site*, consisting of the waste, daily cover, intermediate cover and the final cover is 212,250 cubic metres.
- (5) The excavation of the Footprint shall not go below an elevation of one hundred fifty seven (157) metres, one (1) metre below the depths indicated on Figure No. 4 dated January 1997 in Item 1 of Schedule "A".
- (6) The maximum amount of waste, daily cover, intermediate cover, and final cover which may be disposed of within the fill area may not exceed an elevation of one hundred seventy (170) metres, one (1) metre below the final contours shown in Figure No. 5 dated January 1997 in Item 1 of Schedule "A".

Service Area

- (7) Only waste that is generated within the boundaries of the Town of Deep River and the Town of Laurentian Hills, in the County of Renfrew may be accepted at the *Site*.

Cover

- (8) (a) Alternative materials to soil may be used as weekly and interim cover material, based on an application with supporting information and applicable fee for a trial use or permanent use, submitted by the *Owner* to the *Director*, copied to the *District Manager* and as approved by the *Director* via an amendment to this *Approval*. The alternative material shall be non-hazardous according to *Reg. 347* and will be expected to perform at least as well as soil in relation to the following functions:
 - (i) Control of blowing litter, odours, dust, landfill gas, gulls, vectors, vermin and fires;
 - (ii) Provision for an aesthetic condition of the landfill during the active life of the *Site*;
 - (iii) Provision for vehicle access to the active tipping face; and
 - (iv) Compatibility with the design of the *Site* for groundwater protection, leachate management and landfill gas management.
- (b) The following material may be used as alternative daily cover:
 - (i) construction and demolition waste consisting of size reduced concrete, brick, asphalt, gypsum board and wood;
 - (ii) brush and lumber chips, leaf and yard waste mixed with sand and composted leaf and yard waste;
 - (iii) asphalt shingles;
 - (iv) processed tires;

- (v) non-hazardous contaminated soil; and
 - (vi) temporary or movable, low permeability, flexible membranes.
 - (c) No final contours, capacity volumes or fill rates shall be affected by the use of the alternative daily cover material.
 - (d) The stockpiling of waste to be processed into the alternative daily cover material shall be segregated from other waste and stored in the location as outlined in documents in Schedule "A".
 - (e) The waste that is to be processed into alternative daily cover material shall not exceed a volume of 6,000 cubic metres and shall be processed a minimum of once per year or more frequently as the volume of waste approaches the maximum allowed amount.
- (9) Cover material shall be applied as follows:
- (a) Daily Cover -Weather permitting, deposited waste shall be covered daily with a 150 mm thick soil or with an approved alternative daily cover of an approved thickness in a manner acceptable to the *District Manager* so that no waste is exposed to the atmosphere;
 - (b) Intermediate Cover - In areas where landfilling has been temporarily discontinued for six (6) months or more, a minimum thickness of 300 millimetre of soil cover or an approved thickness of alternative cover material shall be placed; and
 - (c) Final Cover - In areas where landfilling has been completed to final contours, a minimum 600 millimetre thick layer of soil of medium permeability and 150 millimetres of top soil (vegetative cover) shall be placed. Fill areas shall be progressively completed and rehabilitated as landfill development reaches final contours.
- (10) The 30 metre Buffer adjacent to the Footprint shall not be used for waste disposal but may be used for receiving and recording waste arrivals, monitoring, surface water management, contingency measures, perimeter access road, and the operation of other approved ancillary waste management facilities to include, a scrap metal recycling pile, a tire recycling pile, recycling bins, a re-use area, a brush and wood chipping area, a yard and leaf waste composting area, a household hazardous wastes depot, and a heavy equipment bay, all in accordance with documents in Schedule "A". All parts of the Buffer, other than roadways, parking areas, surface water management areas, and structures shall be maintained with a healthy vegetative cover or other appropriate surface treatment which will minimize erosion.
- (11) The Attenuation Zone shall not be used for waste disposal but may be used for monitoring and any needed contingency plans to prevent excessive environmental impacts. All parts of the Attenuation Zone, other than access roads, shall be maintained in their existing natural state of vegetation, or re-vegetated as soon as possible, if disturbed for any reason.

- (12) Petroleum contaminated soil may be disposed of as waste at the *Site* provided that it is not hazardous waste according O.Reg. 347 and subject to the following:
 - (a) so long as it does not cause a complaint about odour problems and if a complaint is made then petroleum contaminated soil shall no longer be received, the District Manager shall be notified, and the soils shall not be received until the District manager provides permission; and
 - (b) minimize the working face of these materials and ensure that it is covered quickly.
- (13) Any proposed change to the location of the Landfill entrance or exit shall be submitted to the *Director* for approval.
- (14) The *Access Road* shall be improved and hard-surfaced prior to the acceptance of any waste for disposal at the landfill and maintained as long as the *Site* is in operation.
- (15) Storage of bulky material is hereby approved subject to the following conditions:
 - (a) Up to 1000 units of bulky material including mattresses may be stored for size reduction by shredding as per documents in the Schedule "A";
 - (b) The *Owner* shall ensure that only Ministry-approved mobile waste processing operators undertake waste shredding at the *Site*; and
 - (c) Stored material shall be shredded and deposited in the landfill at least once per year.

8. LANDFILL MONITORING

Landfill Gas

- (1) The *Owner* shall ensure that any buildings or structures at the *Site* contain adequate ventilation systems to relieve any possible landfill gas accumulation to prevent methane concentration reaching the levels within its explosive range. Routine monitoring for explosive methane gas levels shall be conducted in all buildings or structures at the *Site*, especially enclosed structures which at times are occupied by people.

Compliance

- (2) The *Site* shall be operated in such a way as to ensure compliance with the following:
 - (a) Reasonable Use Guideline B-7 for the protection of the groundwater at the *Site*; and
 - (b) Provincial Water Quality Objectives included in the July 1994 publication entitled

Water Management Policies, Guidelines, Provincial Water Quality Objectives, as amended from time to time or limits set by the *Regional Director*, for the protection of the surface water at and off the *Site*.

Surface Water and Ground Water

- (3) The *Owner* shall monitor surface water and ground water in accordance with the monitoring programs outlined in documents listed in the attached Schedule "A".
- (4) A certified Professional Geoscientist or Engineer possessing appropriate hydrogeologic training and experience shall execute or directly supervise the execution of the groundwater monitoring and reporting program.

Groundwater Wells and Monitors

- (5) The *Owner* shall ensure that all groundwater monitoring wells which form part of the monitoring program are properly capped, locked and protected from damage.
- (6) Where landfilling is to proceed around monitoring wells, suitable extensions shall be added to the wells and the wells shall be properly re-secured.
- (7) Any groundwater monitoring well included in the on-going monitoring program that is damaged shall be assessed, repaired, replaced or decommissioned by the *Owner*, as required.
 - (a) The *Owner* shall repair or replace any monitoring well which is destroyed or in any way made to be inoperable for sampling such that no more than one regular sampling event is missed.
 - (b) All monitoring well which is no longer required as part of the groundwater monitoring program, and has been approved by the *Director* for abandonment, shall be decommissioned by the *Owner*, as required, in accordance with *O.Reg. 903*, that will prevent contamination through the abandoned well. A report on the decommissioning of the well shall be included in the Annual Report for the period during which the well was decommissioned.

Trigger Mechanisms and Contingency Plans

- (8)
 - (a) Trigger mechanisms shall be in accordance with the documents in the Schedule "A".
 - (b) Contingency plan in the event of a confirmed exceedence of a site-specific trigger level relating to leachate mounding or groundwater or surface water impacts due to leachate shall be in accordance with the documents in the Schedule "A".

- (9) In the event of a confirmed exceedence of a site-specific trigger level relating to leachate mounding or groundwater or surface water impacts due to leachate, the *Owner* shall immediately notify the *District Manager* and the SLC, and an investigation into the cause and the need for implementation of remedial or contingency actions shall be carried out by the *Owner* in accordance with the approved trigger mechanisms and associated contingency plans.
- (10) If monitoring results, investigative activities and/or trigger mechanisms indicate the need to implement contingency measures, the *Owner* shall ensure that the following steps are taken:
 - (a) The *Owner* shall notify the *District Manager*, in writing of the need to implement contingency measures, no later than 30 days after confirmation of the exceedences;
 - (b) Detailed plans, specifications and descriptions for the design, operation and maintenance of the contingency measures shall be prepared and submitted by the *Owner* to the *District Manager* for approval; and
 - (c) The contingency measures shall be implemented by the *Owner* upon approval by the *District Manager*.
- (11) The *Owner* shall ensure that any proposed changes to the site-specific trigger levels for leachate impacts to the surface water or groundwater, are approved in advance by the *Director* via an amendment to this *Approval*.
- (12) In the event that the results of the monitoring programs listed in documents in Schedule "A" are such that an off-site exceedence of the PWQO can be predicted to occur, the *Owner* shall include in the EMR:
 - (a) The details of any such predicted off-site exceedence, including the assumptions upon which the prediction is based;
 - (b) A discussion of the modifications if any, to operations which would be needed to prevent the predicted off-site exceedence;
 - (c) A discussion of the modifications, if any, which should be made to the monitoring program; and
 - (d) A discussion of other mitigation measures or contingency actions, if any, which may be needed to prevent off-site impacts.
- (13) Commencing from five years after the initial year of operation of the *Site* and at every subsequent five year interval, the *Owner* shall include in the EMR an assessment and if appropriate an update of the groundwater contingency plan.

Changes to the Monitoring Plan

- (14) The *Owner* may request to make changes to the monitoring program(s) to the *District Manager* in accordance with the recommendations of the annual report. The *Owner* shall make clear reference to the proposed changes in separate letter that shall accompany the annual report.

- (15) Within fourteen (14) days of receiving the written correspondence from the *District Manager* confirming that the *District Manager* is in agreement with the proposed changes to the environmental monitoring program, the *Owner* shall forward a letter identifying the proposed changes and a copy of the correspondences from the *District Manager* and all other correspondences and responses related to the changes to the monitoring program, to the *Director* requesting the *Approval* be amended to approve the proposed changes to the environmental monitoring plan prior to implementation.
- (16) In the event any other changes to the environmental monitoring program are proposed outside of the recommendation of the annual report, the *Owner* shall follow current ministry procedures for seeking approval for amending the *Approval*.

9. CLOSURE PLAN

- (1) At least 3 years prior to the anticipated date of closure of this *Site*, the *Owner* shall submit to the *Director* for approval, with copies to the *District Manager*, a detailed *Site* closure plan pertaining to the termination of landfilling operations at this *Site*, post-closure inspection, maintenance and monitoring, and end use. The plan shall include the following:
- (a) a plan showing *Site* appearance after closure;
 - (b) a description of the proposed end use of the *Site*;
 - (c) a description of the procedures for closure of the *Site*, including:
 - (i) advance notification of the public of the landfill closure;
 - (ii) posting of a sign at the *Site* entrance indicating the landfill is closed and identifying any alternative waste disposal arrangements;
 - (iii) completion, inspection and maintenance of the final cover and landscaping;
 - (iv) *Site* security;
 - (v) removal of unnecessary landfill-related structures, buildings and facilities;
 - (vi) final construction of any control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas; and
 - (vii) a schedule indicating the time-period for implementing sub-conditions (i) to (vi) above;
 - (d) descriptions of the procedures for post-closure care of the *Site*, including:
 - (i) operation, inspection and maintenance of the control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas;
 - (ii) record keeping and reporting; and
 - (iii) complaint contact and response procedures;
 - (e) an assessment of the adequacy of and need to implement the contingency plans for leachate and methane gas; and
 - (f) an updated estimate of the contaminating life span of the *Site*, based on the results of the monitoring programs to date.

- (2) The *Site* shall be closed in accordance with the closure plan as approved by the *Director*.

10. WASTE DIVERSION

- (1) The *Owner* shall ensure that:
 - (a) all bins and waste storage areas are clearly labelled;
 - (b) all lids or doors on bins shall be kept closed during non-operating hours and during the high wind events; and
 - (c) if necessary to prevent litter, waste storage areas shall be covered during the high winds events.
- (2) The *Owner* shall provide a segregated area for the storage of *Refrigerant Appliances* so that the following are ensured:
 - (a) all *Refrigerant Appliances* have been tagged to indicate that the refrigerant has been removed by a licensed technician. The tag number shall be recorded in the log sheet and shall remain affixed to the appliance until transferred from the *Site*;
or
 - (b) all *Refrigerant Appliances* accepted at the *Site*, which have not been tagged by a licensed technician to verify that the equipment no longer contains refrigerants, are stored segregated, in a clearly marked area, in an upright position and in a manner which allows for the safe handling and transfer from the *Site* for removal of refrigerants as required by O.Reg. 189; and
 - (c) all *Refrigerant Appliances* received on-site shall either have the refrigerant removed prior to being transferred from the *Site* or shall be shipped off-site only to facilities where the refrigerants can be removed by a licensed technician in accordance with O.Reg. 189.
- (3) Propane cylinders shall be stored in a segregated area in a manner which prevents cylinders from being knocked over or cylinder valves from breaking
- (4) The *Owner* shall transfer waste and recyclable materials from the *Site* as follows:
 - (a) recyclable materials shall be transferred off-site once their storage bins are full;
 - (b) scrap metal shall be transferred off-site at least twice a year;
 - (c) tires shall be transferred off-site as soon as a load for the contractor hired by the *Owner* has accumulated or as soon as the accumulated volume exceeds the storage capacity of its bunker; and
 - (d) immediately, in the event that waste is creating an odour or vector problem.
- (5) The *Owner* may collect, store and transfer Electronic waste in accordance with the document titled "Organizing & Operating waste Electrical and Electronic Equipment (WEEE) collection sites" dated September 27, 2009" prepared by Ontario Electronic Stewardship.

11. COMPOSTING

- (1) The *Owner* shall ensure that composting is conducted in accordance with the "Interim Guidelines for the Production and Use of Aerobic Compost in Ontario" dated November 1991 as amended.
- (2) Waste accepted for composting shall be limited to leaf and yard waste.

12. HHW TRANSFER STATION

- (1) The operation of the Household Hazardous Wastes depot is limited to the collection, processing, and storage of the materials set out in the definition of *Household Hazardous Waste*.
- (2) All refrigerants and batteries received at the *Site* shall be handled in accordance with documents in Schedule "A".
- (3) All white goods received at the *Site* shall be handled in accordance with documents in Schedule "A".

13. SITE LIAISON COMMITTEE

- (1) The *Owner* shall organize, support, and participate in a Site Liaison Committee (SLC) composed of the members of the public appointed by the *Owner* following advertisement. Participation from neighbours of the *Site* will be encouraged. The public membership shall include, if available, two or more neighbours of the *Site*. The SLC shall serve as the focal point for public dissemination, review, and exchange of information relevant to municipal and local concerns on the operation of the *Site*.
- (2) The *Owner* shall prepare a Terms of Reference for the SLC, prior to waste being deposited at the *Site*, and document any amendments to the Terms. The Terms of Reference shall include, but not be limited to, specification of the term of office and the basis for election or appointment to the SLC. The SLC is to function within the Terms of Reference. The *Owner* shall submit a copy of the Terms of Reference for establishing the SLC to the Regional Director and ensure that the approved Terms of Reference and any amendments are maintained in the office of the *Owner*, the Municipal office, and the Public Library.
- (3) The *Owner* shall provide for the administrative costs to establish and to operate the SLC, including the cost of meeting places and clerical services.
- (4) The *Owner* shall provide the SLC with access to all records, final reports and consistent with the Freedom of Information and Privacy Act, communications with the *Ministry* relating to the *Site*. The Terms of Reference for the SLC shall include protocols to govern such access.

- (5) After notifying the *Owner*, the SLC shall have reasonable access to inspect the *Site* during construction, operations, and closure.

SCHEDULE "A"

1. Report entitled "Design and Operations Report, Proposed North Renfrew Landfill Site" dated February 1997 and prepared by Gartner Lee Limited.
2. A completed Ministry of the Environment form entitled "Application for Approval of a Waste Disposal Site" dated February 27, 1997, and signed by Richard Roiha.
3. Report entitled "Ground Water and Surface Water Assessment Proposed North Renfrew Landfill Site" prepared February 1997 by Gartner Lee Limited.
4. Publication entitled Noise Guidelines for Landfill Sites Prepared by the Ministry of the Environment.
5. The 21 July 1998 Option to Purchase Agreement between The Corporation of the Town of Deep River and Atomic Energy of Canada Ltd.
6. The Access Agreement between The Corporation of the Town of Deep River, The Corporation of the Township of Rolph, Buchanan, Wylie & McKay, The Corporation of the Village of Chalk River and Atomic Energy of Canada Ltd.
7. The undated eleven page Addenda; Design and Operations Report - Proposed North Renfrew landfill Site prepared by Gartner Lee which includes revised Figure 6 and revised Figure 7.
8. Letter and attachments dated May 8, 2001 from Steven Testart, North Renfrew Waste Management Board to the Dave Staseff, Environmental Assessment and Approvals Branch.
9. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated December 18, 2002 and signed by James Leon, Waste Management Coordinator, North Renfrew Waste Management Board including attached supporting information and cover letter.
10. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated August 20, 2003 and signed by James Leon, Coordinator, North Renfrew Waste Management Board ("NRWMB") including the following attached information:
 - attached covering letter dated September 3, 2003 and prepared by Andrew Buzza, Robinson Consultants.
 - Drawing entitled "Bagg's Road Landfill Site Plan" dated August 2003.
11. Letter dated November 20, 2003 to James Leon, North Renfrew Waste Management Board from

David Lee, MOE requesting additional information.

12. Letter dated April 27, 2004 to David Lee, MOE from Andrew Buzza, Robinson Consultants supplying requested information regarding Regulation 347 testing, Dust Control, Surface Water Runoff, Augmentation of Processed Construction Waste with Clean Sand, and Vermin, Odour and Vector Control.
13. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated November 28, 2005 and signed by James Leon, Waste Management Coordinator.
14. Report entitled "North Renfrew Landfill Site" prepared by Robinson Consultants Inc. and dated November 2005, not including the section entitled "Existing Manual" in Appendix C.
15. Application for a Provisional Certificate of Approval for a Waste Disposal Site with the supporting documents dated July 20, 2007 signed by James Leon, Waste Management Coordinator.
16. Application for a Provisional Certificate of Approval for a Waste Disposal Site with the supporting documents dated March 6, 2009 signed by James Leon, Waste Management Coordinator.
17. The Application for a Provisional Certificate of Approval for a Waste Disposal Site dated November 3, 2010.
18. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated March 21, 2011, signed by James Leon, Waste Management Coordinator, including the supporting documents,
19. Appendix "A" titled "Monitoring Program" of the report titled "North Renfrew Landfill Site Baggs Road, 2010 Monitoring Report" Prepared by Robinson Consultants Inc., dated March 2011.

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

GENERAL

1. The reason for Conditions 1(1), (2), (4), (5), (6), (7), (8), (9), (10), (17), (18) and (19) is to clarify the legal rights and responsibilities of the *Owner* and *Operator* under this *Approval* .
2. The reasons for Condition 1(3) are to ensure that the *Site* is designed, operated, monitored and maintained in accordance with the application and supporting documentation submitted by the *Owner*, and not in a manner which the *Director* has not been asked to consider.
3. The reasons for Condition 1(11) are to ensure that the *Site* is operated under the corporate name which appears on the application form submitted for this *approval* and to ensure that the *Director* is informed of any changes.

4. The reasons for Condition 1(12) are to restrict potential transfer or encumbrance of the *Site* without the approval of the *Director* and to ensure that any transfer of encumbrance can be made only on the basis that it will not endanger compliance with this *Approval* .
5. The reason for Condition 1(13) is to ensure that the successor is aware of its legal responsibilities.
6. Conditions 1 (14) and (15) are included, pursuant to subsection 197(1) of the *EPA* , to provide that any persons having an interest in the *Site* are aware that the land has been approved and used for the purposes of waste disposal.
7. The reason for Condition 1(16) is to ensure that appropriate Ministry staff has ready access to the *Site* for inspection of facilities, equipment, practices and operations required by the conditions in this *Approval* . This Condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the *Act* , the *OWRA* , the *PA* , the *NMA* and the *SDWA* .

SITE OPERATION

8. The reasons for Conditions 2(1), 2(5) and 6(3) are to ensure that the *Site* is operated, inspected and maintained in an environmentally acceptable manner and does not result in a hazard or nuisance to the natural environment or any person.
9. The reason for Conditions 2 (2), 2(3) and 2(4) is to ensure that users of the *Site* are fully aware of important information and restrictions related to *Site* operations and access under this *Approval*.
10. The reasons for Condition 2(6) (a) are open burning of municipal waste is unacceptable because of concerns with air emissions, smoke and other nuisance affects, and the potential fire hazard and to make sure burning of brush and wood are carried out in accordance with Ministry guidelines.
11. The reasons for Condition 2(7), 2(8) and 2(9) are to specify the hours of operation for the landfill site and a mechanism for amendment of the hours of operation, as required.
12. The reasons for Condition 2(10) and 2(11) are to ensure that the *Site* is supervised by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person and to ensure the controlled access and integrity of the *Site* by preventing unauthorized access when the *Site* is closed and no site attendant is on duty.

EMPLOYEE TRAINING

13. The reason for Condition 3(1) is to ensure that the *Site* is supervised and operated by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person.

COMPLAINTS RESPONSE PROCEDURE

14. The reason for Condition 4(1) is to ensure that any complaints regarding landfill operations at this *Site* are responded to in a timely and efficient manner.

EMERGENCY RESPONSE

15. Conditions 5(1) and 5(2) are included to ensure that emergency situations are reported to the Ministry to ensure public health and safety and environmental protection.
16. Conditions 5(3), 5(4) and 5(5) are included to ensure that emergency situations are handled in a manner to minimize the likelihood of an adverse effect and to ensure public health and safety and environmental protection.

RECORD KEEPING AND REPORTING

17. The reason for Conditions 6(1) and 6(2) is to ensure that accurate waste records are maintained to ensure compliance with the conditions in this *Approval* (such as fill rate, site capacity, record keeping, annual reporting, and financial assurance requirements), the *EPA* and its regulations.
18. The reason for Conditions 6(4) and 6(5) is to ensure that detailed records of *Site* inspections are recorded and maintained for inspection and information purposes.
19. The reasons for Conditions 6(6) and 6(7) are to ensure that regular review of site development, operations and monitoring data is documented and any possible improvements to site design, operations or monitoring programs are identified. An environmental monitoring report is an important tool used in reviewing site activities and for determining the effectiveness of site design.

LANDFILL DESIGN AND DEVELOPMENT

20. The reason for Conditions 7(1) to 7(7) inclusive is to specify the approved areas from which waste may be accepted at the *Site* and the types and amounts of waste that may be accepted for disposal at the *Site*, based on the *Owner's* application and supporting documentation.
21. Condition 7(8) (a) is to provide the *Owner* the process for getting the approval for alternative daily and intermediate cover material.
22. The reasons for Conditions 7(8) (b) to 7(8) (e) inclusive and 7(12) are to specify the alternative daily covers approved for this *Site* and the limitations of this approval so that the health and safety of the environment and people are protected.
23. The reasons for Condition 7(9) are to ensure that daily/weekly and intermediate cover are used to control potential nuisance effects, to facilitate vehicle access on the *Site*, and to ensure an acceptable site appearance is maintained. The proper closure of a landfill site requires the

application of a final cover which is aesthetically pleasing, controls infiltration, and is suitable for the end use planned for the *Site*.

24. The reason for conditions 7(10) and 7(11) is to specify the activities that can be carried out in the Buffer area and the Contaminant Attenuation Zone so that the health and safety of the environment and public are protected.
25. The reason for condition 7(13) is to require the *Owner* to obtain approval from the Director to protect the health and safety of the environment and public.
26. The reasons for the condition 7(14) are to make sure the access to the site is maintained and doesn't create any adverse effects to the health and safety of the environment and to the public.
27. Condition 7(15) is included to ensure that only approved mobile waste processing operators undertake waste shredding and compost screening at the Site as such activities were considered by the Director during the issuance of this Certificate and to specify the limits of storage of material to protect the health and safety of the environment.

LANDFILL MONITORING

28. Reasons for Condition 8(1) are to ensure that off-site migration of landfill gas is monitored and all buildings at the *Site* are free of any landfill gas accumulation, which due to a methane gas component may be explosive and thus create a danger to any persons at the *Site*.
29. Condition 8(2) is included to provide the groundwater and surface water limits to prevent water pollution at the *Site*.
30. Conditions 8(3) and 8(4) are included to require the Owner to demonstrate that the *Site* is performing as designed and the impacts on the natural environment are acceptable. Regular monitoring allows for the analysis of trends over time and ensures that there is an early warning of potential problems so that any necessary remedial/contingency action can be taken.
31. Conditions 8(5), 8(6) and 8(7) are included to ensure the integrity of the groundwater monitoring network so that accurate monitoring results are achieved and the natural environment is protected.
32. Conditions 8(8) to 8(13) inclusive are added to ensure the *Owner* has a plan with an organized set of procedures for identifying and responding to potential issues relating to groundwater and surface water contamination at the *Site's* compliance point.
33. Conditions 8(14), 8(15) and 8(16) inclusive are included to streamline the approval of the changes to the monitoring plan.

CLOSURE PLAN

34. The reasons for Condition 9 are to ensure that final closure of the *Site* is completed in an aesthetically pleasing manner, in accordance with Ministry standards, and to ensure the long-term protection of the health and safety of the public and the environment.

WASTE DIVERSION

35. Condition 10 is included to ensure that the recyclable materials are stored in their temporary storage location in a manner as to minimize a likelihood of an adverse effect or a hazard to the natural environment or any person.

COMPOSTING

36. Condition 11 was added to ensure that composting is undertaken in a manner which does not result in a nuisance or a hazard to the health and safety of the environment or people.

HHW TRANSFER STATION

37. The reason for Condition 12 is to ensure the HHW depot is constructed and operated as per the submitted information. This is to ensure the protection of the environment and human health.

SITE LIAISON COMMITTEE

38. The reason for Condition 13 is to ensure there is a forum for the exchange of information and public dialogue on activities carried out at the landfill Site. Open communication with the public and local authorities is important in helping to maintain high standards for site operation and environmental protection.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A420010 issued on May 28, 1999 and associated notices.

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:

1. 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;
2. 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:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. 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
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) 212-6349, Fax: (416) 314-4506 or 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 25th day of May, 2012



Tesfaye Gebrezghi, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

RM/

c: District Manager, MOE Ottawa
James Leon, North Renfrew Landfill Operations Board