



Ministry of the Environment
Le Ministère de l'Environnement

PROVISIONAL CERTIFICATE OF APPROVAL
FOR A WASTE DISPOSAL SITE
NO. A 420010
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Under the Environmental Protection Act and the regulations and subject to the limitations thereof, this Provisional Certificate of Approval is issued to:

North Renfrew Waste Management Board
c/o Township of Rolph, Buchan, Wylie and McKay
Rural Route #1
Deep River, Ontario
K0J 1P0

for the use and operation of a 2.8 hectare landfilling area within a 3.2 ha landfill site property.

all in accordance with the following plans and specifications:

as per the attached Schedule "A",

Located: Part of Lot 5,
Concession 11 in the Town of Deep River,
Renfrew County

which includes the use of the site only for the disposal of the following categories of waste (Note: Use of the site for additional categories of wastes requires a new application and amendments to the Provisional Certificate of Approval) solid non-hazardous residential, industrial, commercial, and institutional waste,

and subject to the following conditions:

DEFINITION OF TERMS

- In this Provisional Certificate of Approval:
 - "Access Road" means the portion of Bagg's Road, north from Plant Road, to the landfill entrance;
 - "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 Township of Rolph, Buchanan, Wylie & McKay, The Corporation of the Village of Chalk River and Atomic Energy of Canada Ltd. included as Item 5 of Schedule "A" to this Certificate;



- (c) "Board" or "North Renfrew Waste Management Board" or "North Renfrew Waste Management Board of Operations", means the consortium responsible for the development of Site plans, construction, and operations of the landfill site on behalf of the holders of the Certificate: The Corporation of the Town of Deep River, The Corporation of the Village of Chalk River, and The Corporation of the Township of Rolph, Buchanan, Wylie and McKay, all of which are located in the County of Renfrew;
- (d) "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";
- (e) "Certificate" means this Certificate of Approval No. A 420010, as amended from time to time, including all Schedules attached to and forming part of this Certificate;
- (f) "Director" means the one or more persons who from time to time are so designated for the purpose of Part V of the Environmental Protection Act, R.S.O. 1990, as amended from time to time;
- (g) "District Manager" means the District Manager of the Ottawa District Office of the Ministry of the Environment;
- (h) "EPA" means the Environmental Protection Act, R.S.O. 1990, as amended from time to time;
- (i) "Footprint" means the 2.8 ha area where waste may be disposed as delineated by the shaded area labelled as 'Landfill Footprint' shown on Figure No. 6 in Item 7 in Schedule "A";
- (j) "Household Hazardous Wastes" means hazardous wastes which have been generated by domestic households, including waste motor oil, automotive batteries, refrigerants, and compressed gas cylinders;
- (k) "Landfill" or "Site" means the property comprising the Footprint and the Buffer;
- (l) "Ministry" or "MOE" means the Ontario Ministry of the Environment;
- (m) "MNR" means the Ontario Ministry of Natural Resources;
- (n) "ODWO" means the Ontario Drinking Water Objectives as amended from time to time;
- (o) "OWRA" means the Ontario Water Resources Act, R.S.O. 1990 as amended from time to time;



- (p) "PWQO" means the Provincial Water Quality Objectives included in the July 1994 MOE publication entitled *Water Management Policies, Guidelines, Provincial Water Quality Objectives* as amended from time to time;
- (q) "Regional Director" means the Director, Eastern Region of the Ministry of the Environment;
- (r) "Service Area" means the area from which waste shall be received shall be limited to generators within the Town of Deep River, the Village of Chalk River, and the Township of Rolph, Buchanan, Wylie and McKay, in the County of Renfrew; and
- (s) "SLC" means the Site Liaison Committee.

CERTIFICATE OF PROHIBITION

Pursuant to Section 197 of the Environmental Protection Act, neither the Board nor any person having an interest in the property comprising the Site shall deal with the Site in any way without first giving a copy of this Certificate to each person acquiring an interest in the Site as a result of the dealing.

The Board shall,

- (i) within 60 days of the date of this Certificate, submit to the Director for the Director's signature two copies of a completed Certificate of Prohibition containing a registrable description of the Site and the Attenuation Zone, in accordance with Form 1 O. Reg. 14/92.
- (ii) within 10 calendar days of receiving the Certificates of Prohibition signed by the Director, register the Certificate of Prohibition in the appropriate Land Registry Office and with the Atomic Energy Canada Limited against title to the Site and the Attenuation Zone and submit to the Director immediately following registration the duplicate registered copy.

GENERAL

- The requirements of this Certificate are severable. If any requirement of this Certificate to any circumstance is held invalid, the application of such requirement to other circumstance and the remainder of this Certificate of Approval shall not be affected thereby.
- In all matters requiring the interpretation and implementation of this Certificate, the decision of the Environmental Appeal board shall take precedence followed in descending order by: the decision of the Environmental Assessment Board, by conditions of the Certificate, the



documentation referred to the Environmental Assessment Board, the application entitled Application for Approval of a Landfill Site, and other supporting documentation included in Schedule "A" with the most recent documentation taking precedence.

5. The Board shall comply with the conditions and schedules in this Certificate. The requirements specified in this Certificate are minimum requirements and do not abrogate the need to take all reasonable steps to avoid violating the provisions of other applicable legislation.
6. The Board shall allow MOE personnel, or a MOE authorized representative(s), upon presentation of credentials, to:

- (a) carry out any and all inspections authorized by the Environmental Protection Act, the Ontario Water Resources Act, or the Pesticides Act, as amended from time to time, of any place to which this Certificate relates, and

without restricting the generality of the foregoing, to:

- (b)
 - i. enter upon the premises or the location where the records required by the conditions of this Certificate are kept;
 - ii. have access to and copy, at any reasonable time, any records required by the conditions of this Certificate;
 - iii. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations required by the conditions of this Certificate; and
 - iv. sample and monitor, at reasonable times, for the purposes of assuring compliance with the conditions of this Certificate.
7. The Site shall not be transferred without prior notice to the Director.
8. No water obtained from surface water or from a well constructed on the Site shall be used for drinking purposes. Any water supply system that obtains water from a well or surface water source on the Site shall be clearly marked to indicate that the water is not potable.

LIMITS OF FILL

9. The excavation of the Footprint shall not go below the depths indicated on Figure No. 4 dated January 1997 in Item 1 of Schedule "A".
10. The maximum amount of waste, daily cover, intermediate cover, and final cover which may be disposed of within the fill area may not



exceed the final contours shown in Figure No. 5 dated January 1997 in Item 1 of Schedule "A".

11. Waste may only be disposed of within the 2.8 hectare Footprint or a smaller area as approved by the Director in accordance with Condition 10.
12. Prior to any excavation or disposal of waste at the Site, the Board shall ensure that the Site boundaries and the Footprint are marked and corner posts erected so as to be visible throughout the year, using proper surveying techniques.

SITE DESIGN AND DEVELOPMENT

13. The Site shall be constructed in accordance with Item 1 and Item 7 in Schedule "A" and in accordance with all other documents listed in Schedule "A" to this Certificate.
14. No waste shall be deposited at the Site until the Director provides a written indication of receipt of the proof of The Corporation of the Town of Deep River's ownership of the Site and a signed agreement for access to the Attenuation Zone.
15. Notwithstanding Conditions 2 and 14, detailed design of major works to be constructed at the Site shall be submitted to the Director for approval and no waste shall be deposited until approval of such works is obtained from the Director. The detailed design shall follow the conceptual design framework outlined in Item 1 and Item 7 in Schedule "A". Any significant design optimization or modification shall be clearly identified along with an explanation of the reasons.
16. 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 Item 1 and Item 7 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.
17. A facility for the acceptance, storage and packaging of household hazardous wastes and subsequent transfer of such wastes by an approved carrier for disposal elsewhere shall be established at the Landfill and operated in accordance with the following:
 - (a) The operation of the Household Hazardous Wastes depot is limited to the collection, processing, and storage of:



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- i. motor oil;
 - ii. automobile batteries;
 - iii. paints;
 - iv. refrigerants; and
 - v. compressed gas cylinders;
- (b) All refrigerants and batteries received at the Site shall be handled by trained technician(s) and in accordance with Ontario Regulation 347;
- (c) White goods, containing regulated refrigerants, shall not be stored on-site for longer than three months unless they are drained and tagged in accordance with Ontario Regulation 347;
- (d) The amount of waste received at the Site, at any given time, shall not exceed 10 tonnes of Household Hazardous Wastes;
- (e) All spills and upsets shall immediately be reported to the Ministry's Spills Action Centre at (416) 325-3000 or 1-800-268-6060 and shall be recorded in the Site inspection record, referred to in Condition 32 of this Provisional Certificate of Approval, as to the nature of the spill or upset, and the action taken for clean-up, correction, and prevention of future occurrences;
- (f) No PCBs shall be accepted at this Site. Oil and Oil-based paints which have been manufactured prior to 1972; or whose manufacturing date cannot be determined, may contain PCBs and shall be handled in the manner prescribed:
- i. The oil and oil-based paints shall not be mixed (bulked) with other paints prior to testing. Paints which are lab-packed are not considered to be mixed under this Certificate;
 - ii. The oil and oil based paints shall be tested for PCB content and shall be handled in the manner outlined in subcondition 17(f)(iii) if found to contain PCB;
 - iii. If the oil and oil based paints are found to have PCBs at or above levels identified in subcondition 17(f)(iv), it shall be forthwith reported to the District Manager and shall be managed in accordance with Ontario Regulation 363/92 and stored or removed from the Site to an approved PCB storage site, in accordance with written instructions from the District Manager; and



- iv. The oil and oil-based paint shall not be distributed for reuse if they have any measurable PCB content. The oil and oil-based paint is considered to be a PCB waste, if measured levels are equal to or greater than 50 parts per million; and
- v. Except as specified in subcondition 17(f) (iv), paints collected at the Site may be returned or sold to the general public for reuse provided all transactions are recorded by invoice. Information on the type and volume of paint returned to the public through this Site shall be recorded in the daily record specified in Condition 33; and
- (g) The local police and fire departments shall be informed of the existence of this Site and this Certificate. They shall also be notified in writing of operating hours and any changes to scheduled operating hours prior to the changes being made. In the event of an emergency change to operating hours there is no requirement for advance notification.
18. 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.
19. Final cover shall be applied progressively, as weather conditions permit, as each part of the Footprint reaches its final grades. The design of the final cover shall comply with the specifications contained in Item 1 in Schedule "A". Vegetation of completed final cover using drought-resistant, low-nutrient requirement grass and legume blends which regenerate annually shall occur within three months of its placement and final grading.
20. Petroleum contaminated soil may be disposed of as waste at the Site provided that it is not hazardous waste according to 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.

ACCESS ROAD

21. Any proposed change to the location of the Landfill entrance or exit shall be submitted to the Director for approval.



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22. The Access Road shall be improved and hard-surfaced prior to the acceptance of any waste for disposal at the Landfill.
23. The Board shall take all practical steps to prevent the escape of litter from the Site. Periodic pick-up of litter at the Site and along the Access Road shall be carried out as required, or every two weeks as a minimum. Private property adjacent to the Landfill shall be inspected weekly and litter shall be collected if needed, with permission of access from the property owner.

TRAINING

24. The Board shall ensure that prior to acceptance of waste at the Site that ongoing training of all Site supervisors be initiated with respect to the following:
- (a) the terms, conditions, and operating requirements of this Certificate and the content of the schedules attached to the Certificate;
 - (b) the Design and Operations Report (Item 1 and Item 7 on Schedule "A");
 - (c) relevant waste management regulations and legislation;
 - (d) environmental concerns related to the waste and other materials being handled at the Site;
 - (e) occupational health and safety concerns pertaining to the waste being handled at the Site;
 - (f) emergency procedures and contingency plans in the event of fire, off-site impacts, and other emergency situations; and
 - (g) visual monitoring of Site conditions with respect to the potential for creation of dust impacts.

SITE OPERATIONS

25. Notwithstanding conditions number 4 and 39 the Site shall be operated in accordance with Item 1 and Item 7 in Schedule "A" and in accordance with all other documents listed in Schedule "A" to this Certificate.
26. 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 and statutory holidays. 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. The Board may determine the actual hours of operation within these approved limits providing that the actual hours are posted at the Landfill entrance gate. Equipment maintenance and administrative functions may occur at any time.



SUPERVISION AND SECURITY

- 27. No waste materials shall be accepted, placed, or removed from the Site unless a Site supervisor is present to oversee the operations.
- 28. During non-operating hours, the Landfill entrance and exit gates will be locked to secure against access by unauthorized persons.
- 29. The Board shall not allow liquid industrial wastes or hazardous wastes as defined under Ontario Regulation 347, as amended from time to time, to be disposed of at the Landfill. Only solid, nonhazardous residential, industrial, commercial, and institutional wastes from within the Service Area shall be disposed of at the Site.
- 30. Daily records shall be maintained, for all waste refused at the Site, which shall include the following:
 - (a) the date of refusal;
 - (b) time of arrival;
 - (c) name of hauler;
 - (d) vehicle license plate number of hauler;
 - (e) type of waste or fill;
 - (f) quantity (by volume) of each load refused; and
 - (g) reason for refusal.

SITE INSPECTIONS

- 31. (a) A Site supervisor shall inspect the Site each day that fill is received or regraded at the Site for any situation which may cause an adverse effect and to ensure that the Site is being operated in accordance with this Certificate. The Board shall initiate remedial measures to remedy any situation which is causing or may cause an adverse effect; and
 - (b) Following completion of final cover construction, the surface water management system shall be inspected, by a Site supervisor, and maintained as described in the closure plan.
- 32. The Board shall maintain, at the Site, a written record of Site inspections including:
 - (a) time and date of the inspection;
 - (b) name, title, and signature of trained personnel conducting the inspection;



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- (c) listing of all general site areas, fencing, gates, and systems inspected and all deficiencies observed;
- (d) assessment of the potential for creation of off-site dust impacts; and
- (e) recommendations for remedial action and the date that any recommended remedial action was taken.

DAILY RECORDS

33. Daily records shall be maintained, for all waste received at the Site, which shall include the following:
- (a) all complaints from the public received by the Board and an indication of the action taken by the Board in response;
 - (b) results of any tests done to determine the acceptability of waste or fill at the Site; and
 - (c) calculation of the total volume of fill received at the Site for each day.
34. Each daily record and Site inspection record shall be retained by the Board in fire-proof storage for at least five years following the date of the record or inspection. The Board shall make all daily records and site inspection records available for inspection by the MOE or the SLC upon request.

WASTE COMPACTION AND COVER

35. Waste shall be deposited in a manner that minimizes the area of exposed waste at the Landfill working face.
36. At the end of each day on which waste is received at the Site or existing waste is regraded, the Board shall ensure that the waste placed that day is compacted before cover material is applied.
37. At the end of each working day, and within two hours of the entrance gate closure, weather permitting, cover material consisting of a minimum of 0.15 m thickness of soil or a mixture of composted leaves and wood chips shall be applied to all exposed waste. Any proposed alternative cover material must first be submitted to the Regional Director for approval.
38. In landfilling areas where waste placement is below the final approved contours and landfilling is to be suspended for one month or more in these areas, an interim cover consisting of a minimum of 0.30 m thickness of soil or a mixture of composted leaves and wood chips shall be applied.



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- 39. The Board shall ensure that an interim cover material of at least 0.30 m depth is applied as soon as reasonably possible on all side slope areas where waste contours have been reached, and all areas where no waste is to be deposited for at least 180 days. Final cover shall be applied as soon as reasonably possible on all side slope areas. These areas should be seeded as soon as practical but not later than 9 months from the time of final cover application.
- 40. Where existing cover material has eroded such that waste is exposed, the cover material shall be promptly replaced.

WASTE BURNING

- 41. The burning of wastes at the Landfill is prohibited except for natural wood products in accordance with the MOE Guidance Manual for Landfill Sites Receiving Municipal Waste, November 1993 as amended from time to time.
- 42. Should any fires occur at the Site, remedial action shall be taken immediately in accordance with the procedures as shown in Item 7 and on page 34 of Item 1 in Schedule "A".

WASTE SCAVENGING

- 43. Scavenging at the Landfill is prohibited, except at the designated reuse area and under the supervision of the Site supervisor.

NOISE

- 44. In addition to the general noise control measures contained in Item 1 of Schedule "A", the Board shall abide by the applicable municipal noise control by-laws, if any. In case of a noise complaint, the Board 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 Board shall comply with the sound level limits for construction equipment as contained in the Ministry Model Municipal Noise Control By-Law as amended from time to time.
- 45. Noise from or related to the operation of the facility shall be kept to a minimum and in any event, the Board shall comply with the criteria set out in Item 4 of Schedule "A".

DUST CONTROL

- 46. The Board shall take all reasonable steps to mitigate dust impacts from the Site including the measures outlined in Item 1 and Item 7 of Schedule "A".
- 47. If dust, odour, litter, traffic, or vermin associated with the operation of the Site must, in the opinion of the District Manager, be



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reduced or otherwise controlled to prevent adverse impacts, the Board shall implement reasonable contingency measures as approved by the District Manager.

LANDFILL GAS

48. Any enclosed structure on the landfill Site shall be passively vented or equipped with a methane gas detector and an active venting system.

MONITORING

49. The Board shall monitor ground water and surface water according to Schedule "B" as may be amended with the prior written consent of the Regional Director.
50. All monitoring wells which form part of any monitoring program shall be properly capped, locked, and protected from damage. Any ground water monitoring wells that are damaged shall be repaired or replaced forthwith in a manner that ensures that no more than one regular sampling event is missed. Prior written notification is required from the Regional Director to abandon a ground water monitoring well.
51. All monitoring wells which are no longer required as part of the groundwater monitoring program, and which have been approved by the Regional Director for abandonment, shall be decommissioned in accordance with Ontario Regulation 903, R.R.O. 1990, in a manner which will prevent contamination through the abandoned monitor. A report of the abandonment of the monitor shall be included in the annual report.

CONTINGENCY PLAN

52. In the event that the results of the monitoring programs listed in Schedule "B" indicate that an off-site exceedance of the PWQC or Reasonable Use Criteria has occurred as a result of the operation of the Site, the Board shall immediately implement the contingency plan, notify the Regional Director, and the SLC and shall specify the following in a report, submitted within 30 days of the exceedance, to the Regional Director for approval:
- Details of the off-site exceedance, confirmatory monitoring requirements, and the potential off-site impacts to surface water and ground water users;
 - The extent and timing of contingency measures implemented;
 - Modifications, if any, which should be made to the monitoring program; and
 - Other mitigation measures, if any, which may be needed to reduce or prevent off-site impacts.

In the event that the results of the monitoring programs listed in Schedule "B" are such that an off-site exceedance of the PWQO can be predicted to occur, the Board shall include in the annual status report:

- (a) The details of any such predicted off-site exceedance, 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 exceedance;
- (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.

Commencing from five years after the initial year of operation of the landfill Site and at every subsequent five year interval, the Board shall include in the status report an assessment and if appropriate an update of the groundwater contingency plan.

STATUS REPORT

By March 31, 1999, and by March 31st of each subsequent year, the Company shall submit to the Regional Director, a status report on the monitoring of the Landfill during the previous calendar year. The status report shall be submitted annually for at least the first five (5) years following the year in which waste is first received for disposal. Thereafter, the frequency of the report may be reduced only with the prior written permission of the District Manager, and provided that the Board demonstrates to the District Manager that the Site operations and monitoring results have become routine and consistent and the SLC has been consulted on the matter. Notwithstanding any approved change in reporting frequency, the District Manager may at any time require the Board to return to annual submission of the Status Report if there is reasonable evidence to conclude that the Site operations or monitoring results are no longer routine or consistent. This report shall include:

- (a) a location map which locates the Site within the boundaries of the Service Area;
- (b) a Site plan(s) which shows:
 - i. the Site boundaries;
 - ii. the fill area and buffer areas;
 - iii. the location of the benchmark for the contour elevation survey;



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- iv. existing contours of the Site;
 - v. areas of excavation in the previous year;
 - vi. the areas of the Site completed to final grade in the previous year;
 - vii. the areas of the Site still to be completed to final grade;
 - viii. the areas of the Site with completed final cover;
 - ix. the portions of the interim and final covers which have been vegetated or seeded;
 - x. all surface water bodies and works;
 - xi. all significant landmarks (roads, escarpment edge, etc.);
 - xii. all nearby dwellings and ground water users;
 - xiii. location of all monitoring points; and
 - xiv. details of any works installed in the previous calendar year.
- (c) a cross section which includes the Site footprint area;
 - (d) an update on any operating difficulties encountered;
 - (e) a report on the types and volumes of waste diverted from disposal in the footprint by recycling from the Site;
 - (f) a report on the variances from Item 1 and Item 2 in Schedule "A";
 - (g) a summary of any complaints made regarding Site operations and the Board's response;
 - (h) an interpretation of the surface water monitoring results including:
 - i. an assessment of the surface water quality at the Site boundaries with respect to FWQO;
 - ii. an assessment of the adequacy of the Attenuation Zone; and
 - iii. an assessment of the physical condition of the surface water monitoring installations;
 - (i) an interpretation of the monitoring results by an experienced hydrogeologist including:



- i. text, maps, and diagrams sufficient to characterize the Site hydrogeology;
 - ii. documentation of the ground water sampling protocols, including a description of the quality assurance and quality control measures and a description of any problems encountered during the sampling runs which may have impacted the reliability of analytical results;
 - iii. presentation of data in a format that is easy to follow, including:
 - presentation of all analytical results from the reporting period and a summary of analytical results from previous sampling in a tabular form;
 - iv. conclusions and recommendations with respect to future sampling parameters, frequency, and protocols;
- (j) an assessment of whether or not the Board is operating the Site in a manner consistent with the conditions of this Certificate;
- (k) an assessment every fifth year of the contingency plan; and
- (l) recommendations respecting any proposed changes to:
- i. the surface water or ground water monitoring programs or any repairs required to the monitoring well network;
 - ii. the operation of the Site; and
 - iii. the requirement for any remedial works or contingency actions based on the monitoring results or operation of the Site.

CLOSURE

56. At least five years before it is expected that waste will no longer be disposed of at the Site, the Board, following consultation with the SLC, shall submit for approval to the Director a complete plan for the closure, long term maintenance, long term monitoring, and after closure use of the Site. The plan shall include, but not be limited to, the following:
- (a) Plans for fencing and access control;
 - (b) Details of any additional cover required;
 - (c) Details of any vegetative cover required;



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- (d) Post-closure land use plans, including any further grading, filling or landscaping and the need for any structures;
 - (e) The need for any municipal or provincial approvals that would be required to implement the proposed closure plan and the schedule for obtaining such approvals;
 - (f) Plans for the continued maintenance, operation, and monitoring of the storm water management system, and landfill gas collection and destruction system (if implemented);
 - (g) Plans for the continued monitoring of landfill gas, surface water and ground water;
 - (h) Updated contingency plans to mitigate potential impacts from landfill gas, leachate, storm water, and ground water contingency; and
 - (i) Details of post-closure ownership of the Site.
57. The Board shall continue to be responsible for the operation, maintenance and monitoring of the Site until such time as the Board can demonstrate to the Director's satisfaction that the leachate and gas being produced at the Site would not cause an exceedance of the FWGO, ODWO, Reasonable Use Guideline, or any other relevant statutes and policies respecting ground water, surface water, and air as may be in effect at that time.
58. Closure of the Site, including post-closure care, shall be carried out in accordance with the conditions of this Certificate and the provisions of the Closure Plan.

SITE LIAISON COMMITTEE

59. The Board shall organize, support, and participate in a Site Liaison Committee (SLC) composed of the members of the public appointed by the Board 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 landfill Site.
60. The Board 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 Board 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 Board, the Municipal office, and the Public Library.



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1. The Board shall provide for the administrative costs to establish and to operate the SLC, including the cost of meeting places and clerical services.
2. The Board 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 landfill Site. The Terms of Reference for the SLC shall include protocols to govern such access.
3. After notifying the Board, the SLC shall have reasonable access to inspect the Site during construction, operations, and closure.

PUBLIC COMPLAINT PROCEDURE

14. The Board shall establish a public complaints procedure that includes:
 - (a) Within 60 days of the date of this Certificate, posting and maintaining a copy of the landfill complaints procedures at the Site office, the Board office, and at each of the municipal offices comprising the Board;
 - (b) Within 60 days of the date of this Certificate: placing a public notice containing the complaints procedures in local newspapers; and distributing a copy of the complaints procedures to all residences and commercial establishments within 500 m of the Landfill, and adjacent to Bagg's Road and Plant Road;
 - (c) Designating a person to receive any complaints and to respond within ten working days with a written notice of action;
 - (d) Recording the name and address of each complainant, and the date, time, and nature of complaint; and
 - (e) Reviewing at least twice annually with SLC, all complaints about the operations of the Landfill and the Board's response and action.



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SCHEDULE "A"

This Schedule "A" forms part of Provisional Certificate of Approval No. A 420010:

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 Roiba.
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 updated 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.



SCHEDULE "B"

Schedule "B" forms part of Provisional Certificate of Approval No. A 420010.

SURFACE WATER AND GROUND WATER MONITORING PROGRAM

TABLE 1(a): MONITORING PROGRAM - MONITORING LOCATIONS AND SCHEDULE

Monitoring Location	Description/Location	Spring (March)	Summer (June)	Fall (September)	Winter (December)
Surface Water					
SW 11-I	Downgradient Piezometer Leachate Indicator	Water Level Sample-List 1	Water Level	Water Level Sample-List 2	Water Level
SW 11-II	Downgradient Standpipe Leachate Indicator	Water Level Sample-List 1	Water Level	Water Level Sample-List 2	Water Level
Ground Water					
BH-1	Upgradient Standpipe	Water Level	Water Level	Water Level	Water Level
BH-2	Lateral Standpipe West to Stream	Water Level Sample-List 2	Water Level	Water Level Sample-List 2	Water Level
BH 3-I	Downgradient Piezometer Lower Aquifer	Water Level Sample-List 4	Water Level	Water Level	Water Level
BH 3-II	Downgradient Piezometer Base of Upper Aquifer	Water Level Sample-List 3	Water Level	Water Level Sample-List 2	Water Level
BH 3-III	Downgradient Standpipe	Water Level Sample-List 2	Water Level	Water Level Sample-List 2	Water Level
BH 4	Lateral Standpipe along Bagg's Road	Water Level Sample-List 3	Water Level	Water Level	Water Level
BH 5-I	Downgradient Piezometer Lower Aquifer	Water Level Sample-List 2	Water Level	Water Level	Water Level
BH 5-II	Downgradient Standpipe	Water Level Sample-List 2	Water Level	Water Level Sample-List 2	Water Level
BH 6	Upgradient Standpipe West of Phase I	Water Level Sample-List 1	Water Level	Water Level Sample-List 2	Water Level
BH 7	Lateral Standpipe North of Attenuation Zone	Water Level Sample-List 2	Water Level	Water Level	Water Level
BH 8	Downgradient Standpipe Near Lower Wetland	Water Level	Water Level	Water Level	Water Level
BH 9	Downgradient Standpipe Near Lower Wetland	Water Level Sample-List 2	Water Level	Water Level	Water Level
BH 10**	Upgradient Standpipe West of Phase III	Water Level Sample-List 2	Water Level	Water Level Sample-List 1	Water Level

Refer to Figure 3 in Item 1 of Schedule "A" for monitoring locations.
To be installed prior to development of Phase III.



SCHEDULE "B" (Cont'd)

SURFACE WATER AND GROUND WATER MONITORING PROGRAM

TABLE 1 (a): MONITORING PROGRAM - MONITORING LOCATIONS AND SCHEDULE

Monitoring Location*	Description/Location	Spring (March)	Summer (June)	Fall (September)	Winter (December)
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Surface Water** and Seeps

SW 1	Creek Upstream of Landfill	Flow Sample-List 3	Flow Sample-List 3	Flow Sample-List 3	Flow Sample-List 3
SW 2	Creek - Downstream Top of Escarpment	Flow Sample-List 3	Flow Sample-List 3	Flow Sample-List 3	Flow Sample-List 3
SW 3	Downstream Escarpment Seep South Tributary	Flow Sample-List 2	Flow Sample-List 2	Flow Sample-List 2	Flow Sample-List 2
SW 4	Downstream Escarpment Seep North Tributary	Flow Sample-List 2	Flow Sample-List 2	Flow Sample-List 2	Flow Sample-List 2
SW 5	Wetland Relocated to Main Pond Inlet	Flow Sample-List 3	Flow Sample-List 4	Flow Sample-List 3	Flow Sample-List 3
SW 6	Wetland Outlet to Maskinonge Lake	Flow Sample-List 3	Flow Sample-List 4	Flow Sample-List 3	Flow Sample-List 3
SW 7	Upstream of SW 6	Flow Sample-List 3	Flow Sample-List 4	Flow Sample-List 3	Flow Sample-List 3

* Refer to Figure 2 in Item 1 of Schedule "A" for monitoring locations.

** Surface water flow measurements shall be taken during each sampling run.



SCHEDULE "B" (Cont'd)

SURFACE WATER AND GROUND WATER MONITORING PROGRAM

TABLE 1(b): MONITORING PROGRAM - PARAMETER LISTS

LIST 1 LEACHATE CHEMISTRY	LIST 2 GROUND WATER INDICATORS	LIST 3 SURFACE WATER INDICATORS	LIST 4 SURFACE WATER COMPLIANCE
Field Temperature pH Electrical Conductance	Field: Temperature pH Electrical Conductance	Field: Temperature pH Electrical Conductance Dissolved Oxygen	Field: Temperature pH Electrical Conductance Dissolved Oxygen
General Chemistry Alkalinity	General Chemistry: Alkalinity	General Chemistry: Total Suspended Solids (TSS) Alkalinity	General Chemistry: Total Suspended Solids (TSS) Alkalinity Hardness
Nutrients: Total Kjeldahl Nitrogen (TKN) Ammonia (NH ₃) Nitrate (NO ₃) Total Phosphorus (P)	Nutrients: Ammonia (NH ₃) Total Phosphorus (P)	Nutrients: Total Kjeldahl Nitrogen (TKN) Ammonia (NH ₃) Nitrate Total Phosphorus (P) Biological Oxygen Demand (BOD ₅)	Nutrients: Total Kjeldahl Nitrogen (TKN) Ammonia (NH ₃) Nitrate Total Phosphorus (P) Biological Oxygen Demand (BOD ₅)
Anions: Chloride (Cl) Sulphate (SO ₄) Cyanide (CN)	Anions: Chloride (Cl) Sulphate (SO ₄)	Anions: Chloride (Cl) Sulphate (SO ₄)	Anions: Chloride (Cl) Sulphate (SO ₄)
Major Cations: Calcium (Ca) Magnesium (Mg) Potassium (K) Sodium (Na)			
Metals: Aluminium (Al) Barium (Ba) Beryllium (Be) Boron (B) Cadmium (Cd) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe)	Metals: Lead (Pb) Aluminium (Al) Boron (B) Iron (Fe) Nickel (Ni) Zinc (Zn)	Metals: Aluminium (Al) Boron (B) Iron (Fe) Nickel (Ni) Zinc (Zn)	Metals: Lead (Pb) Manganese (Mn) Mercury (Hg) Molybdenum (Mo) Nickel (Ni) Selenium (Se) Silver (Ag) Vanadium (V) Zinc (Zn)
Organics: Dissolved Organic Carbon (DOC) Benzene 1,4 Dichlorobenzene Dichloromethane Phenol Toluene Vinyl Chloride	Organics: Dissolved Organic Carbon (DOC) Phenol	Organics: Chemical Oxygen Demand (COD) Phenol	Organics: Chemical Oxygen Demand (COD) Phenol



Ontario

Ministry of the Environment
Ministère de l'Environnement

PROVISIONAL CERTIFICATE OF APPROVAL
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SCHEDULE "B" (Cont'd)

SURFACE WATER AND GROUND WATER MONITORING PROGRAM

TABLE 1(b): MONITORING PROGRAM - FOOTNOTES TO PARAMETER LISTS

Surface Water

The trigger mechanism for initiating the surface water contingency plan involves exceedance of PWQO for the parameters in list 4 of Table 1(b), at stations SW-5 (located near the entrance of the creek into the pond) and SW-6 (located near the discharge to Maskinonge Lake). The exceptions are aluminum, iron, total phosphorus, and field pH. The last four shall be regarded as out of compliance if two consecutive values exceed the concentration values represented by the 75th percentile of the range of concentration values obtained from the average pre-development water quality measurements at the upgradient control station SW-1.



The reason for the imposition of these conditions is to ensure that site operations do not cause a nuisance, and to prevent a hazard to the health or safety of any person.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990 c. E-19, you are hereby written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 142 of the Environmental Protection Act, as amended provides that the Notice requiring a hearing shall state:

The portions of the approval or each term or condition in the approval in respect of which the hearing is required; and;

The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

The name of the appellant;

The address of the appellant;

The Certificate of Approval number;

The date of the Certificate of Approval;

The name of the Director;

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 Appeal Board,
100 Yonge St., 12th Floor,
O. Box 2352
Toronto, Ontario,
M4P 1E4

AND

The Director,
Section 39, Environmental Protection Act,
Ministry of the Environment,
250 Davisville Avenue, 3rd Floor,
Toronto, Ontario,
M4S 1H2

DATED AT TORONTO this 28th day of May, 1999.



A. Dominski, P. Eng.,
Director,
Section 39,
Environmental Protection Act