

NORTH RENFREW LANDFILL OPERATIONS BOARD

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2004 ANNUAL STATUS REPORT

NORTH RENFREW LANDFILL SITE

PROVISIONAL CERTIFICATE OF APPROVAL NO. A 420010

Submitted to:

**Regional Director
Ministry of Environment
Kingston Regional Office
Box 820
133 Dalton Ave. Kingston ON K7L 4X6**

Prepared by:

North Renfrew Landfill Operations Board

and

Robinson Consultants Inc.

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March 20, 2005

Regional Director

Ministry of Environment

Kingston Regional Office

Box 820, 133 Dalton Ave.

Kingston ON K7L 4X6

Attention: Mr. Brian Ward

Subject: 2004 Annual Status Report, North Renfrew Landfill Site

Dear Mr. Ward,

The North Renfrew Landfill Operations Board and Robinson Consultants Inc. have prepared this 2004 Annual Status Report. This report fulfills the annual reporting requirements for the landfill site for 2004 as required by Condition 55 of the Site's Provisional Certificate of Approval No. A 420010 dated May 28, 1999. The Site began receiving waste July 6, 2002. The former Board, the North Renfrew Waste Management Board, has been renamed the North Renfrew Landfill Operations Board after the signing of the March 12, 2003 Agreement with the Town of Deep River and the Town of Laurentian Hills.

The report is divided into two sections. Section A, prepared by the North Renfrew Landfill Operations Board, describes the Board's activities to date in preparing, opening and operating the Site and provides a compliance summary. Section B was prepared by Robinson Consultants Inc. and contains the 2004 groundwater and surface water monitoring program protocol and results of analysis.

Gartner Lee Limited on behalf of the Board submitted an application for an amendment to the Certificate of Approval regarding the base and final contours, on August 31, 2000. The Board received the approval of this amendment, dated February 11, 2002. On December 18, 2002 the Board submitted an application for an amendment to the Certificate of Approval regarding the allowing of waste to be deposited on statutory holidays. The Board received the approval of this amendment, dated April 2, 2003. Robinson Consultants, on behalf of the Board, submitted an application for an amendment to the Certificate of Approval regarding the use of alternate cover material, on September 3, 2003. The Board received the approval of this amendment, dated July 29, 2004.

There were three complaints from neighbouring residents about litter found on or near their properties in 2004. There have been a total of four complaints since the opening of the Site. The Logs and reply letters are included in Appendix A-15.

If you have any questions, please do not hesitate to contact Mr. Andrew Buzza of Robinson Consultants at (613) 592-6060, or Chairperson Fred Adams at (613) 586-2652 or myself at the above number.

Yours truly,

James Leon

Waste Management Coordinator

EXECUTIVE SUMMARY

This 2004 Annual Status Report describes the preparations to receive waste, the operation of the North Renfrew Landfill Site and monitoring of groundwater and surface water at the Site and in the attenuation zone. It has been prepared to inform the Ministry of Environment of the status of the North Renfrew Landfill Site.

The Location Map, Site Map and Facility Layout Plan are presented as Figures A-1, A-2 and A-3. Areas of Excavation, Progress of Landfilling and the 500 Metre Landfill Impact Zone sketches are presented as Figures A-4, A-5 and A-6.

The Board entered into a contract with Robinson Consultants Inc. in September 2000 to perform the monitoring program. In November 2000, Robinson Consultants Inc. and Wellteck Environmental installed all boreholes required for the monitoring program. All monitoring wells were properly capped, locked, and protected from damage. The fall and winter sampling events were performed in 2000 and the spring and summer sampling events were performed in 2001. The four seasonal yearly sampling events were performed in 2002, 2003 and 2004. The contract with Robinson Consultants Inc. was extended to include the monitoring program for the years 2003, 2004 and 2005. Monitoring samples results and exceedances are included in Appendix B.

Waste, including household hazardous waste (HHW), has been and is being accepted at the Site since the date of opening, July 6, 2002. There have been no incidents in this facility since opening. Only HWIN approved household hazardous wastes have been accepted and disposed of, as described in Appendix A-11. This HHW Depot has been registered yearly with HWIN.

The Board has enhanced recycling in the service area by signing an Agreement with Beaumen Waste Management Systems Ltd., on August 23, 2004, for the collection of cardboard and office mixture. On October 12, 2004 the Town of Deep River opened the Millers Road Landfill Site for receiving construction and demolition waste. The volume of landfilled waste has decreased by 36% in 2004, when compared with the 2003 landfilled volume.

There is a discrepancy in the total area of the landfill site, which should be addressed. The Certificate of Approval indicates the total area as 3.2 hectares, whereas the survey indicates it is 25.92 hectares. The C of A should read "The use and operation of the landfill site is limited to a 2.8 hectare landfilling area within a 25.9 hectare landfill site property."

The benchmark for the contour elevation survey was completed by Jp2g Consultants prior to receiving waste.

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SECTION A – OPERATIONS PREPARATIONS AND COMPLIANCE SUMMARY

A.1 INTRODUCTION

A 1.1 Site Description

The North Renfrew Landfill Site, which consists of Part of Lot 5, Concession 11, formerly in Buchanan Township, now in the Town of Deep River, in Renfrew County, is located at 995 Baggs Road, 2.5 kilometres north of Plant Road in the former Village of Chalk River.

The use and operation of the landfill site is limited to a 2.8-hectare landfilling area within a 25.9-hectare landfill site property. The landfilling area is surrounded by a 30 metre buffer area and an adjacent approved area for ancillary waste management facilities in accordance with the Provisional Certificate of Approval, and as shown in Figure A-3.

There is an approved Natural Attenuation Zone of which 63.13 hectares is located on adjacent property owned by Atomic Energy of Canada Ltd.

There is a discrepancy in the total area of the landfill site on page 1 of 23 of the Certificate of Approval, which should be addressed. That states “the use and operation of a 2.8 hectare landfilling area within a 3.2 hectare landfill site property”. This discrepancy was identified in a letter from Robert Bruce of MOE to the North Renfrew Waste Management Board dated March 16, 1999 and a reply dated April 1, 1999 (Appendix A-2). The legal survey of the property shows the area as 64.05 acres, which is approximately 25.9 hectares, whereas the area of the footprint, buffer zone, and ancillary waste management facilities is 3.2 hectares.

A 1.2 Site History and Background

The Landfill Site was purchased by the Town of Deep River for the benefit of the Town of Deep River and the Town of Laurentian Hills (formerly the Village of Chalk River and the Townships of Rolph, Buchanan, Wylie & McKay), pursuant to an agreement signed by the municipalities September 15, 1998 (Appendix A-3).

The North Renfrew Waste Management Board was established by the three municipalities in an agreement signed May 31, 1994 and mandated to plan, construct, and operate the Site. (Appendix A-4).

The North Renfrew Waste Management Board contracted for the construction of the Landfill Site on October 12, 1999. Construction of the Landfill Site and Access Road was considered complete on June 13, 2000. Construction of the ancillary waste management facility was completed by June 30, 2002.

The North Renfrew Waste Management Board opened and began operations of the Landfill Site on July 6, 2002. The population being served is approximately 7,000 persons.

A 1.3 Approvals

The Ministry of Environment issued Provisional Certificate of Approval No. A 420010 on May 28, 1999. (Appendix A-1)

In accordance with Condition 2, a Certificate of Prohibition was submitted to the Director for the Director's signature and subsequently registered against title to the Landfill Site on March 15, 2000. (Appendix A-5)

A.2 LIMITS OF FILL

A.2.1 Base and Final Contours

An application to amend the C of A was submitted August 31, 2000 to the MOE by Gartner Lee Limited to lower the base contours and final contours by one metre to provide additional cover material for the following reasons. (Appendix A-6)

The construction proceeded according to the Design and Operations Report. (Appendix A-7) Section 4.6 paragraph, 2 indicated the topsoil was to be stripped off and stockpiled for subsequent use as final cover. This material was stockpiled in a berm to provide temporary visual and noise screening between the footprint and the private recreational land to the west. The Board chose this location to augment the mitigation measures being taken by planting trees in this area. As landfilling progresses away from this area, and the trees become established, the berm will be used as topsoil on the final cover.

Upon completion of construction of the Landfill Site, there appeared to be inadequate cover material available for start-up and continued operations at the Landfill Site. The Board commissioned Janota Patrick and Associates to determine the short term and long-term requirements for cover material. They submitted a report to the Board that indicates a shortfall in the order of 22,000 cubic metres of cover material, and that the only available cover material on site for the start up of operations is in the berm. (Appendix A-8)

The Approvals Branch has completed the approval of this application to amend the C of A and the Board received the approved document, dated February 11, 2002.

A.2.2 Site Boundaries and Footprint Boundaries

The Landfill Site property is bordered by Baggs Road on the east side, by the unmaintained King's Road allowance on the south side, and by a firebreak along the north and west boundaries. The buffer area and ancillary facilities area are enclosed by a two-metre chain link fence along approximately two thirds of the southern perimeter and by page wire fencing on the remainder. (Figure A-3)

Jp2g Consultants Inc. completed a survey to establish benchmarks and corner posts for the footprint prior to the opening date of the Site.

A.3 SITE DESIGN AND DEVELOPMENT

A 3.1 Design and Operations Report – Construction

The Access Road and Landfill Site were constructed according to the Design and Operations Report Addenda Figure 7 with the following exceptions:

- A Future Steel Building with a concrete floor was completed in September 2001 and is being used as a Household Hazardous Waste Depot and as a shelter for the Board-owned Liebherr crawler-loader,
- The 2.0 metre chain link fence was extended from the Composting Area to the southeast corner of the buffer area and page wire fencing was installed around the buffer zone,
- A berm was constructed in the buffer area along the southwest corner as a visual barrier,
- An additional locked gate was installed in the western fence to allow access to the water monitoring locations,
- A page wire fence around the Re-Use Area was completed in April 2002,
- A 30'x12' construction trailer was donated by AECL to the Board to be used as the Site Office. In June 2003 the trailer was fastened to an open concrete pillar foundation. A large front overhang roof and an 8' wide step were added to the Site Office. Solar electricity, propane heat, spray foam under-floor insulation, additional insulation for the roof and outside vinyl siding were also added. The Office houses a large fireproof locking file cabinet that is used to protect Site reports and manifest forms.
- A solar-powered electric fence was constructed in the spring of 2003 to discourage bears and other animals from digging up garbage in the landfill area. The fence surrounds Phase I and Phase II of the footprint. The Board applied for "Bear Wise" funding from the Ministry of Natural Resources in 2004 to extend the electric fence so that all four Phases of the footprint are surrounded. Approval for this MNR application was received in December 2004.
- A 45' X 10' trailer was purchased and placed in the RE-Use area to shelter and secure the reusable materials.

A 3.2 Proof of Ownership

The Corporation of the Town of Deep River purchased the North Renfrew Landfill Site from Atomic Energy of Canada Ltd. and registered the deed as instrument No 009814 on October 7, 1999. (Appendix A-9-1)

An Access Agreement to the Attenuation Zone was signed August 19, 1999 between Atomic Energy of Canada Ltd. and the municipalities. (Appendix A-9-2)

A 3.3 Detailed Design

Janota Patrick & Associates submitted detailed design of the major works to the Director on September 2, 1999. The contract documents and drawings were reviewed by MOE as evidenced by a letter from A. Mohan dated September 15, 1999. Janota Patrick & Associates clarified the design in regards to three conditions of the C of A in their letter to G. Lau dated October 14,

1999. The Director indicated approval of the detailed design in his letter dated October 27, 1999. (Appendix A-10)

A 3.4 Buffer Area

The Buffer area was constructed and fenced in accordance with the Design and Operations Report.

A 3.5 Household Hazardous Waste Depot

The Household Hazardous Waste Depot was completed in September 2001. It is a Future Steel Building on a concrete floor and it has passive ventilation. Atomic Energy of Canada Ltd. donated two 1000-gallon (4500 litre) Con-Vault double walled steel storage tanks that are being used to store used motor oil.

The Board applied for and received Generator Registration No. ON2562400 from the MOE on October 10, 2000. (Appendix A-11) Page 3 of the Generator Registration number assignment letter is Schedule "A". This Schedule contains the list of the waste numbers for which the HHW facility is registered. The Board has registered with the Ministry of Environment's Hazardous Waste Information Network (HWIN) for the years 2002, 2003, 2004 and 2005.

The local police and fire departments have been notified of the existence of the HHW Depot before operations began and of this certificate prior to receiving special wastes.

A 3.6 Attenuation Zone

The 63-hectare attenuation zone is located on Atomic Energy of Canada Ltd. property, adjacent to the Site. The attenuation zone shall be maintained in its existing natural state.

A 3.7 Petroleum Contaminated Soil

Condition 20 of the certificate allows for the disposal of petroleum-contaminated soil and a letter from Robert Bruce indicated the condition would allow restricted use of this material as daily cover. (Appendix A-12)

A.4 ACCESS ROAD

A 4.1 Location & Construction

The Access Road (Baggs Road) was widened and paved in accordance with the Design and Operations Report and Addenda Section 4.8.3.

A 4.2 Litter

The Waste Management Coordinator and the Site Attendant inspect and remove litter from the Access Road on a weekly basis.

A.5 TRAINING

The Board joined the Municipal Waste Integration Network MWIN in June 2000.

The Board had an Operations Manual prepared prior to the Site's opening. (Appendix A-16)

A.6 SITE OPERATIONS

The Landfill Site operating hours have been established and are within the hours stipulated in Condition 26.

A.7 SUPERVISION AND SECURITY

Fencing and gates were installed surrounding the site in November 1999. High quality padlocks were installed on the gates in May 2000 in response to incidents of unauthorized access to the Site. The keys are under the control of the Waste Management Coordinator, the Chief Administrative Officer of the Town of Laurentian Hills, the Landfill Site Contractor, the Chiefs of the Fire Departments of Deep River and of Laurentian Hills and the Town Superintendent of Deep River. The Landfill Site Attendant carries out security inspections weekly.

A 8 NOISE

The Town of Laurentian Hills, which is adjacent to the Site, does not have a municipal noise control by-law.

The Town of Deep River Excessive Noise By-Law No. 37-93 applies to operations at the site. (Appendix A-13)

A 9 LANDFILL GAS

The Board has designed and completed the Household Hazardous Waste Depot with passive ventilation. The Site Management Office has been mounted on concrete pillars several feet above ground level.

A 10 GROUND WATER AND SURFACE WATER MONITORING

All ground water and surface water monitoring stations were installed and brought into compliance with Condition 50 in the fall of 2000.

Boreholes BH 5-I and BH 5-II were damaged during road construction. Prior to construction they were located where the shoulder of Baggs Road was to be built. A Technical Field Representative of Janota Patrick & Associates, under the supervision of Gartner Lee Limited, decommissioned both boreholes. The new BH 5-I and BH 5-II replaced these two wells on the edge of the Baggs Road right of way and within ten metres of their original location.

Protective casings that were missing were installed on BH-2, BH-8 and BH-9. All ground water monitors now have protective casings. New padlocks were installed on each.

During the fall 2002 water monitoring event, damage to BH-4 was discovered. A high-powered rifle bullet had been fired into the front and travelled out through the back of the steel protective casing. A repair using concrete was completed in the spring of 2003. During the 2004 spring thaw, damage to the BH-5-I monitoring well was discovered. The well was likely struck by a snowmobile during the winter. It was repaired by MacKinnon Well Drilling Ltd. on April 30, 2004.

Metal signs and posts were installed at all surface water monitoring locations. Warning marker/signs were added to the BH-4 and BH-5 well locations, which are adjacent to the snowmobile trail, in October 2004.

A 11 ANNUAL STATUS REPORT

A 11.1 Location Map (Figure A-1)

The Location Map indicates the location of the Site within the Service Area of the Town of Deep River and the Town of Laurentian Hills, which includes the former Village of Chalk River.

A 11.2 Site Map (Figure A-2)

The Site Map shows the Site Boundaries, the fill areas, the buffer areas, the original contours of the Site, all surface water bodies, all significant landmarks, all nearby dwellings, and the location of all monitoring points.

A 11.3 Facility Layout Plan (Figure A-3)

The Facility Layout Plan shows the Site Boundaries, the fill areas and buffer areas, all existing facilities, and the area excavated to the Base Contours approved in the C of A.

A 11.4 Areas of Excavation (Figure A-4)

The Areas of Excavation sketch shows the progression of excavation of Phase I of the Landfill's Footprint to the end of the year 2003. There has not been any additional excavation during 2004. Note that none of the excavated areas have been filled to final grade and only Phase I has been excavated and has received waste to December 31, 2004. Phases II, III and IV have not yet been excavated.

A 11.5 Progress of Landfilling (Figure A-5)

A sketch of Landfilling Progress of Phase I of the landfill's footprint is presented and illustrates the landfilling progress to the end of year 2004.

A 11.6 Survey Sketch of the Limits of the 500 Metre Landfill Impact Zone (Figure A-6)

The sketch shows the limits of the Impact Zone on affected properties of landowners.

A 11.7 Monitoring Report

The 2003 Monitoring Report is included as Appendix B

A 12 SITE LIAISON COMMITTEE

A 12.1 Board Appointments

The three 2003 SLC members and one new applicant applied for 2004 membership. During the January 26, 2004 Board Meeting, the four applicants were appointed as SLC members for 2004.

A 12.2 Terms of Reference

The Board continues to use the Terms of Reference for the Site Liaison Committee that had been adopted on February 29th, 2000. (Appendix A-14)

A 13 PUBLIC COMPLAINT PROCEDURE

The Board prepared a Public Complaints Procedure, which it posted in the Board Office, and at each of the municipal offices in the Service Area. The Procedure was also advertised in the North Renfrew Times. (Appendix A-15)

The Board received three complaints in 2003. (Appendix A-15)

COMPLIANCE SUMMARY

NORTH RENFREW LANDFILL SITE REVIEW OF CONDITIONS OF PROVISIONAL CERTIFICATE OF APPROVAL NO. A 420010

Condition No.	Item	Comments
1.	Definition of Terms	Understood
2. (i)	Submit two copies of the Certificate of Prohibition within 60 days to the Director containing a description of the Site and Attenuation Zone.	In Compliance
2. (ii)	Register the certificate in the Land Registry Office within 10 days, and submit a duplicate registered copy to the Director.	In Compliance Appendix A-5
3.	Requirements of this Certificate of Approval are severable.	Understood
4.	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, the conditions of this Certificate, the documentation referred to the Environmental Assessment Board, the application entitled <i>Application for Approval of a Landfill Site</i> , and other supporting documentation included in Schedule "A" with the most recent documentation taking precedence.	Understood
5.	The requirements of this Certificate are minimum requirements; all other applicable legislation is to be respected.	Understood
6. 6. (a) 6. (b) i. ii iii iv	The Board shall allow MOE personnel to: carry out authorized inspections under applicable legislation. enter upon the premises where the records are kept have access to and copy any records required by the conditions of this certificate inspect facilities, equipment, practices, and operations required as above sample and monitor for the purposes of assuring compliance	In Compliance
7.	The Site shall not be transferred without prior notice to the Director	In Compliance
8.	No water obtained from surface water or from a well constructed on the site shall be used for drinking purposes, and any water supply system obtaining water from these sources shall be clearly marked to indicate that the water is not potable.	In Compliance

9.	The excavation of the Footprint shall not go below the depths indicated on Figure No 4 in Item 1 of Schedule A.	Submission for application for an Amendment to Condition 9 Approved on February 11, 2002 Appendix A-6
10.	The maximum amount of waste and cover material shall not exceed the final contours shown in Figure No. 5 in Item 1 of Schedule A.	same as for Condition 9 Appendix A-6
11.	Waste may only be disposed of within the 2.8-hectare footprint.	In Compliance
12.	Prior to any excavation or disposal of waste at the Site, the Site boundaries and Footprint area are to be marked and corner posts erected so as to be visible throughout the year, using proper surveying techniques.	In Compliance
13.	The Site shall be constructed in accordance with all documents listed in Schedule "A".	In Compliance
14.	No waste shall be deposited at the Site until the Director provides a written indication of receipt of the proof of ownership of the Site and a signed agreement for access to the Attenuation Zone.	In Compliance Appendix A-9
15.	No waste shall be deposited at the Site until a detailed design of major works is submitted to the Director, and until the Director has approved such.	In Compliance Appendix A-10
16.	The 30-metre Buffer adjacent to the Footprint shall not be used for waste disposal, and shall be maintained with an appropriate surface treatment to minimize erosion.	In Compliance
17.	A facility for the acceptance, storage, packaging, and transfer of Household Hazardous Waste has been completed in September 2001.	In Compliance
18.	All parts of the Attenuation Zone, other than access roads, shall be maintained in their existing natural state of vegetation.	In Compliance
19.	Final cover shall be applied progressively as each part of the Footprint reaches its final grades. Vegetation of completed final cover shall occur within three months of final placement and grading.	In Compliance
20.	Petroleum contaminated soil may be disposed of at the Site provided it is not hazardous according to Regulation 347.	In Compliance, Appendix A-12
20. (a)	If a complaint is made about odour problems, petroleum contaminated soil shall no longer be received until the District Manager provides permission.	
20. (b)	Minimize the working face of these materials and ensure that it is covered quickly.	
21.	Any proposed change to the Landfill entrance or exit shall be submitted to the Director for approval.	In Compliance

22.	The Access Road shall be hard surfaced prior to accepting any waste for disposal at the Site.	In Compliance
23.	Litter shall be picked up at the Site and along the Access Road at least every two weeks. Private properties adjacent to the Site will be inspected weekly and litter shall be collected if needed, with permission from the property owner.	In Compliance
24.	The Board shall ensure that prior to acceptance of waste at the Site, ongoing training of all Site Supervisors be initiated.	In Compliance
25.	The Site shall be operated in accordance with the conditions in this certificate and all other documents listed in Schedule "A".	In Compliance
26.	The maximum waste disposal operating hours shall be 7:00 a.m. to 7:00 p.m., Monday to Saturday. The Landfill will be closed on Sundays and Statutory holidays.	Submission for application for an Amendment to Condition 26. Approved on April 2, 2003, see Appendix A-6
27.	No waste shall be accepted, placed, or removed from the Site unless a Site supervisor is present to oversee the operations.	In Compliance
28.	During non-operating hours the gates will be locked.	In Compliance
29.	Only solid, non-hazardous waste from within the Service Area shall be disposed of at the Site.	In Compliance
30.	Daily records shall be maintained of all waste refused at the Site.	In Compliance
31. (a)	A Site Supervisor shall inspect the Site each day that fill is received or re-graded.	In Compliance
31. (b)	Following completion of final cover construction, the surface water management system shall be inspected and maintained as described in the closure plan.	
32.	The Board shall maintain, at the Site, a written record of Site inspections.	In Compliance
33.	Daily records shall be maintained, for all waste received at the Site, which shall include the following:	In Compliance
33. (a)	all complaints from the public and action taken;	
33. (b)	results of any tests done to determine the acceptability of waste or fill;	
33. (c)	calculation of total volume of fill received at the Site for each day.	
34.	Daily and Site Inspection Records shall be retained in fire-proof storage for at least five years and made available for inspection by MOE or the SLC, upon request.	In Compliance
35.	Waste shall be deposited in a manner that minimizes the area of exposed waste at the Landfill working face.	In Compliance
36.	At the end of each day on which waste is received or re-graded, the Board shall ensure that the waste is compacted before cover material is applied.	In Compliance

37.	At the end of each day on which waste is received, and within two hours of the entrance gate closure, a minimum of 0.15 m (6 inches) of soil, composted leaves or wood chips shall be applied to all exposed waste. Any proposed alternative cover must first be approved by the Director.	In Compliance
38.	In areas where waste placement is below the final approved contours and landfilling is to be suspended for one month or more, an interim cover of 0.30 m (12 inches) of soil or a mixture of composted leaves and wood chips shall be applied.	In Compliance
39.	All side slopes where final contours have been reached shall be covered with interim cover of 0.30 m as soon as reasonably possible. Final cover shall be applied as soon as reasonably possible, and seeded as soon as practicable but not later than 9 months from the time of final cover application.	Final Contours have not been reached as of December 31, 2004.
40.	Where existing cover material has eroded such that waste is exposed, the cover material shall be promptly replaced.	In Compliance
41.	The burning of waste at the site is prohibited except in accordance with the MOE Guidance Manual for Landfill Sites.	In Compliance
42.	Should any fires occur at the Site, the fire department shall be notified, and the site operator shall put sand on the fire.	In Compliance
43.	Scavenging at the Site is prohibited.	In Compliance
44.	The Board shall comply with the sound level limits for construction equipment as contained in the Ministry Model Municipal Noise Control By-Law. In addition all site equipment shall be maintained in proper working order, especially the mufflers.	In Compliance
45.	Noise from the operation of the facility shall be kept to a minimum, and the Board will comply with the Ontario Noise Guidelines for Landfill Sites.	In Compliance
46.	The Board shall take all reasonable steps to mitigate dust impacts from the Site including the measures outlined in Items 1 and 7 of Schedule "A".	In Compliance

47.	If dust, odour, litter, traffic, or vermin associated with the operation of the Site must, in the opinion of the District Manager, be reduced or otherwise controlled, the Board shall implement reasonable contingency measures as approved by the District Manager.	Electric Fence constructed in 2003 to keep Bears out of landfill.
48.	Any enclosed structure on the landfill site shall be passively vented, or equipped with a methane gas detector and an active venting system.	In Compliance
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.	In Compliance Appendix B
50.	All monitoring wells shall be properly capped, locked, and protected from damage. Any monitoring wells that are damaged shall be repaired or replaced in a manner that ensures that no more than one regular sampling event is missed.	In Compliance

51.	All monitoring wells that are no longer required, and which have been approved by the Regional Director for abandonment, shall be decommissioned in accordance with Ontario Regulation 903. A report on the abandonment shall be included in the annual report.	In Compliance
52.	If the results of the monitoring program listed in Schedule “B” indicates there is an off-site exceedance of the PWQO or Reasonable Use Criteria 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 submit a report within 30 days to the Regional Director for approval.	In Compliance
53.	If the results of the monitoring program listed in Schedule “B” are such that an off-site exceedance of PWQO can be predicted to occur, details will be included in the annual report.	In Compliance
54.	Every five years after the initial year of operation, the annual status report shall include an assessment, and if appropriate, an update of the groundwater contingency plan.	Understood
55.	An Annual Status report shall be submitted to the Regional Director on March 31 st of each year for the first five years following the year in waste is first received for disposal. The District Manager may give written permission to reduce the frequency of the report if the Site operations and monitoring results have become routine and consistent and the SLC has been consulted on the matter.	In Compliance
56.	Five years before closure, the Board, following consultation with the SLC, shall submit for approval to the Director, a complete plan for closure, long term maintenance, and use of the site.	Understood
57.	The Board shall continue to be responsible for the Site until such time as leachate and gas being produced at the Site would not cause an exceedance of the PWQO, ODWO, Reasonable Use Guidelines, or any other statutes and policies respecting ground water, surface water, and air.	Understood
58.	Closure and post-closure care of the Site shall be carried out in accordance with this Certificate and the provisions of the Closure Plan.	Understood
59.	The Board shall organize, support, and participate in a Site Liaison Committee.	In Compliance
60.	The Board shall prepare a Terms of Reference for the SLC, prior to waste being deposited at the Site. The Board shall submit a copy of the Terms of Reference to the Regional Director. The Board shall ensure the Terms of Reference are maintained in the Board office, the municipal office, and the Public Library.	In Compliance Appendix A-14 In Compliance
61.	The Board shall provide for the administrative costs of the SLC.	In Compliance
62.	The Board shall provide the SLC with access to all records, final reports, and communications with MOE relating to the landfill site.	In Compliance
63.	The SLC shall have reasonable access to inspect the Site during construction, operations and closure.	In Compliance

64.	The Board will establish a Public Complaints Procedure. Within 60 days from the date of this Certificate, a copy will be posted and maintained at the Site office, the Board office, and each municipal office, a copy will be published in local newspapers, and copies will be distributed to all residences and businesses within 500 m of the Site and adjacent to Baggs Road and Plant Road. All complaints about the operations of the Site will be reviewed with the SLC twice annually.	In Compliance Appendix A-15
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