

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A321504

Issue Date: February 16, 2026

The Corporation of the City of Kawartha Lakes
322 Kent St W
Lindsay, Ontario
K9V 5R8

Site Location: Lindsay Ops Landfill
51 Wilson Road Rd
Lindsay, Ontario

*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:*

a waste disposal site with a 21.2 hectare Waste fill area within a total site area of 53.9 hectares including buffer area to used for the disposal, and processing and transfer of the following type of waste generated within the municipal boundary of the City of Kawartha Lakes:

Solid non-hazardous Municipal Waste generated from residential, commercial, institutional and industrial sectors;

Recyclable waste listed in Schedule 1 to 3 of Regulation 101/94 including construction and demolition waste and asbestos waste;

Septage waste;

Non-hazardous treated biosolids (processed organic waste) and dewatered sewage sludge from the Lindsay Water Pollution Control Plant (WPCP);

Other municipal non-hazardous waste: non-recyclable material from parks, grit from pollution control plants, street sweepings/road waste;

Non-hazardous Contaminated Soils;

Municipal Hazardous and Special Waste (MHSW) as listed in O. Reg. 387/16 ;

Source Separated Organics (SSO);

Waste Electrical and Electronic Equipment (WEEE) as listed in Schedules 1 through 7 of Ontario Regulation 389/16, as amended; and

Miscellaneous municipal solid non-hazardous waste: scrap metal, White

Goods, textile and bulky plastics.

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

"Adverse Effect" means the same as the definition in the EPA;

"Approval" means this entire Environmental Compliance Approval (ECA), issued in accordance with Section 20.2 of the EPA, and includes any schedules to it, the application and the supporting documentation listed in schedule "A";

"Contaminated Soils" in the context of this Approval means soils which are non-hazardous and do not meet Table 3 chemical quality standards prescribed in "Soil, ground water and sediment standards for use under Part XV.1 of the Environmental Protection Act, dated April 15, 2011".

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

"excess soil" has the same meaning as in the O. Reg. 406/19, as amended;

"Major Works" are those works that have an engineering component;

"Ministry" means the Ontario Ministry of Environment, Conservation and Parks (MECP);

"Municipal Waste" is as defined in Reg. 347;

"Municipal Hazardous or Special Waste" and the acronym "MHSW" as defined in O. Reg. 387/16, as amended

"North expansion fill area" means the 13.24 hectare expansion waste disposal fill area, as shown on Map 2-1, Property Plan, Earth Tech Canada Inc., dated March 2001 (Item 35.m) in Schedule "A" attached to this Approval;

"NMA" means the Nutrient Management Act, 2002, S.O. 2002, c. 4, as amended;

"Design and Operations Report" means Design and Operations Report included as Item 110 in Schedule "A" of this Approval;

"Owner" means any person that is responsible for the establishment or operation of the site being approved by this Approval, and The Corporation of the City of Kawartha Lakes, its successors and assigns;;

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

"Partially Composted Leaf and Yard Waste" is leaf and yard waste which has not been composted in strict accordance with Sections 31 to 33 of Regulation 101/94, Part V- Leaf and Yard Waste Composting Sites and can not be defined as Compost;

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

"PRC" means the Public Review Committee for this landfilling Site;

"Professional Engineer" means an engineer licensed to engage in the practice of professional engineering, as defined in the Professional Engineers Act, R.S.O. 1990, c. P-28, as amended;

"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;

"Reg. 232" means Ontario Regulation 232/98 or O. Reg. 232/98, Landfilling Sites, made under the EPA, as amended;

"Reg. 347" means Regulation 347 of Revised Regulations of Ontario, 1990 (General - Waste Management), made under the EPA, as amended;

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

"SDWA" means the Safe Drinking Water Act, 2002, S.O. 2002, c. 32, as amended;

"Site" means the entire waste disposal site, including the waste fill area and all buffer lands, including lands used for contaminant attenuation, approved by this Approval and located at 51 Wilson Road, Lindsay, Ontario;

"Source Separated Organics or SSO" in the context of this Approval means organic material and food waste excluding leaf and yard waste that has been separated from non-compostable material at the point of generation;

"Waste fill area" means the area on the surface of the landfilling site beneath which or above which waste is disposed of by landfilling, including the existing and north expansion fill areas at this Site; and

"White goods" means White goods which contain, or may contain refrigerants, and which include, but are not restricted to, refrigerators, freezers and air-conditioning systems.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

Compliance

1.1 The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Site is notified of the Approval and the conditions herein and shall take all reasonable measures to ensure the person complies with the same.

1.2 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

1.3 Except as otherwise provided for in this Approval , the Site shall be designed, developed, constructed, operated and maintained in accordance with the applications for this Approval and the supporting documentation listed in Schedule "A".

Other Legal Obligations

1.4 The issuance of, and compliance with, this Approval does not:

a. relieve any person of any obligation to comply with any provision of the EPA or any other 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 request that any further information related to compliance with this Approval be provided to the Ministry ;

unless a provision of this Approval specifically refers to the other requirement or authority and clearly states that the other requirement or authority is to be replaced or limited by this Approval .

Adverse Effect

1.5 The Owner shall remain 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 or impairment of air and/or water quality.

Furnish Information

1.6 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 in a timely manner.

1.7 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 subordinate legal instrument, 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 condition of this Approval or any statute, regulation or other subordinate legal requirement; or
- b. acceptance by the Ministry of the information's completeness or accuracy.

1.8 Any information related to this Approval and contained in Ministry files may be made available to the public in accordance with the provisions of the Freedom of Information and Protection of Privacy Act, RSO 1990, CF-31.

Interpretation

1.9 This Approval revokes and replaces the previous Approval and all subsequent amendments.

1.10 Where there is a conflict between a provision of any document, including the application, referred to in this Approval, and the conditions of this Approval, the conditions in this Approval shall take precedence.

1.11 Where there is a conflict between the application and a provision in any documents 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 in writing.

1.12 Where there is a conflict between any two documents listed in Schedule "A", other

than the application, the document bearing the most recent date shall take precedence.

1.13 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.

Certificate of Requirement

1.14 Pursuant to Section 197 of the EPA , no 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.

1.15 In the event any additional land is acquired for the Site, then two (2) copies of a completed Certificate of Requirement, containing a registerable description of the additional lands for the Site, shall be submitted to the Director for the Director's signature within sixty (60) calendar days of any amendment to this Approval that incorporates the land into the Approval.

1.16 In the event any additional land is acquired for the Site, then the Certificate of Requirement shall be registered in the appropriate land registry office on title to the Site and a duplicate registered copy shall be submitted to the Director within ten(10) calendar days of receiving the Certificate of Requirement signed by the Director .

Certificate of Withdrawal of Requirement

1.17 If the Owner wants to withdraw the Certificate of Requirement for the Site, the Owner shall:

(a) submit to the Director, a completed Certificate of Withdrawal of Requirement; and its supporting documents, outlining the reasons for the Withdrawal of the Requirement.

(b) submit to the Director:

(i) a plan of survey of the area where waste was deposited sealed by an Ontario Land Surveyor and for the Site;

(ii) a letter signed by a member of the Law Society of Upper Canada or other qualified legal practitioner acceptable to the Director verifying the legal description of the Certificate of Withdrawal of Requirement,

(iii) the legal abstract of the property; and

(iv) completed Certificate of Withdrawal of Requirement containing a registerable description of the Site.

(c) within fifteen (15) calendar days of receiving a Certificate of Withdrawal of Requirement authorized by the Director, the Owner may:

(i) register the Certificate of Withdrawal of Requirement in the appropriate Land Registry Office on the title to the property; and

(ii) submit to the Director and District Manager, written verification that the Certificate of Requirement has been registered on title.

No Transfer or Encumbrance

1.18 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 is satisfied with the arrangements made to ensure that all conditions of this Approval will be carried out and that sufficient financial assurance is deposited with the Ministry to ensure that these conditions will be carried out.

Change of Owner

1.19 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 address of the Owner;

d. the partners, where the Owner is or at any time becomes a partnership and a copy of the most recent declaration filed under the Business Names Act , R. S. O. 1990, c. B.17, shall be included in the notification;

e. the name of the corporation where the Owner is or at any time becomes a

corporation, other than a municipal corporation, and a copy of the most current information filed under the Corporations Information Act , R. S. O. 1990, c. C.39, shall be included in the notification.

1.20 In the event of any change in the ownership of the Site, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval , and a copy of such notice shall be forward to the Director and District Manager .

Inspections

1.21 No person shall hinder or obstruct a Provincial Officer from carrying out any and all inspections authorized by the EPA or the PA or the NMA or the OWRA or the SDWA, 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 or the PA or the NMA or the OWRA or the SDWA.

Design and Operations Report

1.22 The Owner shall maintain an up-to-date Design and Operations Report for the Site, which shall contain at a minimum the information required by the Ministry's "Guide to applying for an Environmental Compliance Approval" as it applies to the Site.

1.23 The Design and Operations Report shall be:

- a. kept up-to-date at all times so that it accurately reflects the ongoing Site activities as approved under this Approval;
- b. retained at the Site;

- c. available for inspection by a Provincial Officer upon request; and
- d. updated and submitted with all future ECA applications for the Site, including a revisions tracking log.

1.24. Changes to the Site's operations that do not require an amendment to this Approval under Section 27 of the EPA shall be recorded in a revisions tracking log in the Design and Operations Report and submitted to the District Manager for record keeping.

2.0 CONSTRUCTION, INSTALLATION AND PLANNING

Major Works

2.1 For the purposes of this Approval the following are considered Major Works:

- a. gas management system;
- b. leachate collection system;
- c. stormwater management system;
- d. final cover;
- e. liner system;
- f. Household Hazardous Waste Facility;
- g. Re-use Centre; and
- h. Leaf and Yard Waste Facility.

2.2 A final detailed design shall be prepared for each Major Work to be constructed at the Site consistent with the conceptual design of the Site as presented in the Supporting Documentation in Schedule "A".

2.3 The final detailed design of each Major Work shall include the following:

- a. design drawings and specifications;
- b. a detailed quality assurance / quality control (QA/QC) program for construction of the major work, including necessary precautions to avoid disturbance to the underlying soils; and

c. details on the monitoring, maintenance, repair and replacement of the engineered components of the major work, if any.

2.4 Any design optimization or modification that is inconsistent with the conceptual design shall be clearly identified, along with an explanation of the reasons for the change.

2.5 The final detailed design of each Major Work shall be submitted to the Director for approval and copied to the District Manager.

2.6 Each major work shall be constructed in accordance with the approved final detailed design and the QA/QC procedures shall be implemented as proposed by the Owner. Any significant variances from the conceptual design for the Site shall be subject to approval by the Director.

2.7 As-built drawings for all Major Works shall be retained on site and made available to Ministry staff for inspection.

Compacted Soil Liner

2.8 The soil liner in the North expansion fill area (base and sideslopes, except common north slope of existing fill area) shall be placed and compacted to a minimum thickness of 750 mm, compacted in at least 5 lifts of no more than 0.15 metres in compacted thickness each, and to achieve a hydraulic conductivity of 1×10^{-7} cm/sec or less, in addition to the design recommendations in Section 4.3.3 in the Design Report, Item 28(b) in Schedule "A", as amended in Items 35 and 37 in Schedule "A" attached to this Approval.

2.9 During installation of the compacted soil liner, care shall be taken to:

- a. control soil properties and water content;
- b. ensure the break-up of clods;
- c. control lift thickness and compaction;
- d. remove stones larger than 100 millimetres in diameter;
- e. prevent desiccation of the compacted clayey liner;
- f. prevent damage to the compacted clayey liner due to freezing;
- g. prevent damage to the compacted clayey liner from vehicular traffic;

- h. prevent damage to the compacted clayey liner due to rodents; and
- i. prevent damage to the compacted clayey liner due to differential settlement.

2.10 As part of the liner construction protocol, the Owner shall ensure that a soils technician, under the direction of a suitably qualified geotechnical Professional Engineer shall be on the Site full-time during construction of the compacted soil liner. Responsibilities shall include maintaining the quality of the liner in terms of evaluating soil suitability, water content, compaction effort and density, and to verify that the liner is placed according to the technical specifications.

2.11 The report of a suitably qualified geotechnical Professional Engineer shall be included in each Site Preparation Report and must confirm that there is no evident cracking in the constructed liner or significant occurrence of clods, stones, branches or other material that could shorten the service life of the constructed liner or significantly increase the hydraulic conductivity of the liner.

2.12 In addition to the trial soil liner construction (Item 28(d)(iv) in Schedule "A"), additional test pits shall be excavated during the detailed design stage to estimate the quantity of suitable liner material available from the excavation of each cell and from the Owner-owned lands south of the existing fill area. Prior to the actual construction of the landfill base liner system in the north expansion fill area at this Site with a new source of liner material, the Owner shall submit a report prepared by a suitably qualified geotechnical Professional Engineer to the Director and District Manager which demonstrates and ensures that the materials and installation/construction procedures will produce a liner system that will meet the liner design specifications and performance objectives.

2.13 The Owner shall notify the District Manager in writing prior to placement of the compacted soil liner that a qualified geotechnical Professional Engineer has inspected and approved the native soil sub-grade for placement of the overlying compacted soil liner.

2.14 No later than seven (7) days after completion and inspection of the base excavation, the Owner shall submit to the District Office an interim inspection report for the base excavation and preparation. The report shall be prepared by a qualified geotechnical Professional Engineer.

Geosynthetic Clay Liner

2.15 Prior to installation of the Geosynthetic Clay Liner (GCL) liner, the Owner shall provide to the Director construction and installation procedures including the following:

- a. procedures for hydrating the GCL in the field;
- b. details regarding visual inspection of the suitability of the subgrade;
- c. methods of protecting the GCL during shipping, storage and handling;
- d. deployment of the GCL at the construction site, a panel layout plan, seam preparation, seaming methods;
- e. methods to avoid opening of seams due to movement as overlying layers are placed.
- f. a description of the inspection, sampling and testing methods and frequencies to be employed to assure that the GCL meets the design requirements;
- g. a demonstration that adequate shear strength will be provided in the GCL and between the GCL and other components of the liner system so that slippage and sloughing does not occur on the slopes of the landfill.

Geomembrane Liner

2.16 (1) The geomembrane must be made of high density polyethylene (HDPE) and must have a thickness of at least 1.5 millimetres.

(2) The geomembrane liner shall be installed in direct and uniform contact with a suitable foundation.

(3) The geomembrane must be protected against puncturing and load induced damage at all times including during installation.

(4) During installation, care must be taken to:

- a. remove wrinkles in the geomembrane;
- b. minimize stress concentrations;
- c. ensure high quality seams;
- d. minimize differential settlement;
- e. minimize exposure to ultraviolet light;

- f. prevent damage due to sliding;
- g. prevent damage due to installation in cold conditions, and
- h. prevent damage due to rodents.

Geosynthetic Clay Liner (GCL) and Geomembrane

2.17 To ensure that the geosynthetic products specified in the design have been supplied and installed in accordance with the design drawings and specifications, a qualified inspector(s) shall be on the Site during construction to sample, test and confirm installation in accordance with the recommendations of the manufacturers, design drawings and specifications, and QA/QC procedures.

Geotechnical Inspection and Assessment

2.18 Excavation within and preparation of the foundation soils underlying the Site and construction of the base liner of the leachate containment system in a new cell shall be inspected by a suitably qualified geotechnical Professional Engineer to ensure that preparation and construction proceeds in accordance with approved detailed design plans, technical specifications and QA/QC activities and procedures. The results of inspections shall be included in the Site Preparation Reports and subsequent inspection reports for the Site. No landfilling of wastes shall occur on any portion of the liner and leachate collection system until the Director and District Manager have received an inspection report from the engineer indicating that the portion of the base liner of the leachate containment system has been constructed as required by this Approval.

Inspections with respect to the base liner system shall include assessment of the following:

- a. The adequacy of extracted till material from the landfill excavation and/or clayey material from the clay borrow pit(s) for base liner construction and leachate/liner compatibility;
- b. The acceptability of foundation conditions to ensure adequate bearing capacity and slope stability, adequate provisions to prevent basal heave or blowout, absence of standing water, and absence of potential conduits for leachate and landfill gas migration; and

c. Compliance with liner installation specifications and QA/QC procedures related to items such as grain size distribution and clay content of native and borrow materials, clod size limits, removal of stones, Atterberg limits, compaction moisture content, compaction effort, required Standard Proctor Density, lift thickness, scarification between lifts, permeability, and procedures to avoid desiccation of the clayey liner.

2.19 During excavation for landfill base preparation, any intersected granular lenses, interbedded layers, wells, boreholes, agricultural drains, or other possible groundwater conduits encountered in the excavation, shall be adequately mapped, and removed/over-excavated or sealed with appropriately engineered low permeability materials, as necessary, prior to liner construction and landfiling.

Pre-Loading of North Slope

2.20 The north slope of the existing fill area shall be pre-loaded with soil for a minimum of five (5) years to expedite the waste settling process prior to placement of the GCL, geomembrane and leachate collection system for the north expansion fill area on the common north slope, and in accordance with Section 4.3.4 in the Design Report and Section 3.2.4 in the Maintenance & Operations Report, Items 28(b) & 28(c) in Schedule "A", as revised in Items 31 to 37 in Schedule "A" attached to this Approval.

Site Preparation Report

2.21 The Owner shall not commence landfiling in a newly prepared cell in the south expansion fill area of Cell 4 & 5 (south half) until a written report has been submitted to the Director and District Manager documenting all construction, QA/QC activities and procedures, and confirming that the Site conditions and details of the construction of the fill area are in accordance with the approved design plans and specifications for the Site, and including sufficient baseline data from existing and new monitoring installations to support environmental monitoring programs for the Site.

3.0 APPROVED WORKS

Liner System Approval

3.1 (1) Approval is hereby granted for the detailed design for the Cells 1, 2, 3, 6, 4 & 5 (south half) base liner and leachate collection system, all in accordance with the following documentation, hereby added to Schedule "A" of this Approval .

(2) The Owner shall construct the northern half of Cells 4 and 5, base liner and leachate collection system in accordance with the following Items 88 through 92 in Schedule "A" of this Approval.

(3) Alterations to the base liner and collection system connections between Cells 4 and 5 (North Half) Stage 2 and Cells 3 and 6 are approved in accordance with Item 104 of Schedule "A":

4) The Owner shall construct the southern half of Cells 4 and 5, base liner and leachate collection system in accordance with Item 106 in Schedule "A" of this Approval.

Ancillary Features

3.2 Approval is hereby granted for the detailed design of ancillary facilities associated with landfill expansion, including new site entrance and roads, weigh scales and scale house, multi-use operations building (administration, vehicle maintenance, re-use depot and recycling depot), household hazardous waste (HHW) depot, leaf and yard waste composting facility, residential container station and SSO, all in accordance with the documentation in Schedule "A" in the Approval.

Landfill Gas Collection System

3.3 (1) The landfill gas collection and flaring system shall be constructed and operated in accordance with Items 57 through 59 and 103 in Schedule "A".

(2) For the future phases of the landfill gas collection and flaring system, the Owner shall submit the final detailed design to the Director for approval, with copies to the District Manager prior to construction.

3.4 Prior to construction of extensions of the landfill gas collection and flaring system, the Owner shall have in place, and available for Ministry's review upon request, the following:

- a. An odour control plan to minimize odour impacts off-site during the construction phase;
- b. A monitoring plan for odour and air emissions during the construction phase of the work and post-construction phase;
- c. A sediment/erosion control plan to be implemented during the construction and post-construction for the installation of the landfill gas collection and flaring system.
- d. A construction schedule for the installation of the landfill gas collection and flaring system;

3.5 Within ninety (90) days of commissioning of extensions to the landfill gas collection and flaring system, the Owner shall submit to the District Manager a construction report

detailing the construction activities and any design changes made to the system during construction. This report shall include but not be limited to the following topics:

- a. “as-built” drawing(s) of the location of the landfill gas collection and flaring system;
- b. a description of the various construction stages;
- c. quality assurance/quality control plan for the construction; and
- d. any changes to the design of the landfill gas collection and flaring system.

3.6 (1) In the event a gas well needs replacing due to damage or the well is deemed to be not functioning properly, the Owner may replace the gas well.

(2) The Owner shall notify the District Manager in writing that a well is being replaced, no later than fourteen (14) days prior to replacement of the well. The replacement well shall be located at the same location as the replaced well or in the immediate vicinity of the well it is replacing.

(3) For any other major repairs, replacements and/or upsets of the landfill gas collection and flaring system, the Owner shall notify the District Manager in writing within thirty (30) days of the changes. Such changes shall also be included in the landfill annual report.

Leachate Collection and Disposal System

3.7 The Leachate Collection and Disposal System consists of the Leachate Pumping Station No. 1; Leachate Pumping Station No. 1; and Sewage Pumping Station, that are described as follows and in accordance with documentation listed in Schedule ‘A’:

- a. Leachate Pumping Station No. 1 consists of:

One (1) 1.8 m diameter x 6.4 m deep concrete pumping station equipped with two (2) stainless steel submersible pumps (one on standby) each rated at 7.0 L/s @ 17.3 m TDH, one (1) 1.8 m wide x 2.4 m long x 2.4 m deep valve chamber, receiving leachate from the existing landfill cells through a 150 mm diameter sewer and discharging through a 75 mm diameter forcemain and a 75 mm magnetic flow meter into the inlet works of the Lindsay WPCP.

- b. Leachate Pumping Station No. 2 consists of:

One (1) 1.8 m diameter x 7.3 m deep fibreglass package pumping station equipped with two (2) stainless steel submersible pumps (one on standby) each rated at 7.0 L/s

@ 17.5 m TDH, one (1) 2.4 m wide x 3.0 m long x 2.7 m deep valve chamber equipped with 75 mm magnetic flow meter, receiving leachate from the new landfill cells through a 200 mm diameter PVC sewer and discharging through a 100 mm diameter forcemain into a Sewage Pumping Station described below or into the inlet works of the Lindsay WPCP when the need arises.

c. Sewage Pumping Station consists of:

One (1) 3.6 m diameter x 6.7 m deep precast concrete pumping station equipped with three (3) stainless steel submersible pumps (two on duty in parallel and one on standby) each rated at 7.5 L/s @ 25.5 m TDH, receiving leachate from Leachate Pumping Station No. 2, septage from a septage dumping station through a 250 mm diameter sewer and sewage from site buildings through a 200 mm diameter sewer, and discharging through a 150 mm diameter forcemain and a 100 mm magnetic flow meter, into the inlet works of the Lindsay WPCP; and

d. Including all controls, alarms, and associated appurtenances.

4.0 GENERAL OPERATIONS

Proper Operation

4.1 A. Site Operations:

The Site shall be properly operated and maintained at all times. All waste shall be managed and disposed of in accordance with the EPA and Reg. 347 and the requirements of this Approval. At no time shall the discharge of a contaminant that causes or is likely to cause an Adverse Effect be permitted.

B. Leachate Collection and Disposal System (LCDS) Operations:

a. The Owner shall exercise due diligence in ensuring that, at all times, the LCDS and the related equipment and appurtenances used to achieve compliance with this Approval; are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate staffing and training.

b. The Owner shall ensure that the total maximum flow of leachate from Leachate Pumping Station No.1 and Leachate Pumping Station No.2 into the Lindsay Water Pollution Control

Plant does not exceed the peak flow rate of 750 m³/day at any time.

c. The Owner shall ensure that the total average daily flow of leachate from Leachate Pumping Station No. 1 and Leachate Pumping Station No. 2 into Lindsay Water Pollution Control Plant does not exceed 300 m³/day for any period of time greater than one (1) calendar year.

d. Any diversion of sewage flow from any portion of the LCDS is prohibited, except:

i. where it is unavoidable in preventing loss of life, danger to public health, personal injury or severe property damage; or

ii. where it is necessary for the purpose of essential maintenance of the LCDS to assure their efficient operation, and the District Manager has given a prior written approval for the bypass.

Service Area

4.2 Only wastes generated from within the geographic boundaries of the City of Kawartha Lakes may be received for final disposal or processing and transfer at this Site. Wastes may be received from outside the geographic boundaries of the City of Kawartha Lakes if it is only for the purposes of temporary storage and is sent off-site for final disposal, reuse or recycling.

Capacity

4.3 (1) The total waste disposal capacity of the Site expansion in the north expansion fill area, including waste, daily cover and interim cover, is 1,487,240 cubic metres. This volume does not include the composite liner, leachate collection system and final cover. The total waste disposal capacity of the Site (existing fill area and the north expansion fill area), including waste, daily cover and interim cover, is approximately 2.34 million cubic metres.

(2) The amount of waste and daily and interim cover materials deposited at the Site

shall not exceed the Site capacity as defined in Condition 4.3 (1) of this Approval.

Waste Fill Rate

4.4 The maximum rates at which the Waste fill area may receive waste are 240 tonnes per day and 58,200 tonnes per calendar year. Receipt of waste in excess of the daily maximum fill rate may only be allowed on a limited short-term basis, on no more than two consecutive operating days.

Waste Placement

4.5 No waste shall be landfilled outside of the limit of fill area for the existing and expansion waste disposal fill areas shown on Map 2-1, Property Plan, dated March 2001 (Item 35.m) in Schedule "A" attached to this Approval.

4.6 No waste shall be landfilled below the base contours shown on Map 4-5, Proposed Base Contours, dated March 2001 (Item 35.m) in Schedule "A" attached to this Approval.

4.7 No waste shall be landfilled at any time above the final contours shown on Figure 3.1 and 3.2 in Item 110 in Schedule "A" attached to this Approval. The maximum elevation of the north expansion fill area shall be 274 metres above sea level, including final cover.

4.8 No waste shall be landfilled in the contaminant attenuation zone described in Items 23, 24, 25 and 26 in Schedule "A" attached to this Approval.

Waste Inspection Procedures

4.9 The Owner shall develop and implement a program to inspect waste to ensure that the waste is of a type approved for acceptance under this Approval.

4.10 The Owner shall conduct appropriate inspections and ensure that appropriate controls are in place to prevent the acceptance of liquid industrial waste and hazardous waste and to prevent the acceptance of waste from outside the approved service area. Records of violations by haulers or waste generators shall be recorded in the daily records for the Site operations. The Owner shall forthwith notify the District Manager of any and all waste load refusals at the Site related to requirements in this Approval, including service area and waste types.

Waste Inspection and Deposition

4.11 All loads of waste must be inspected by trained site personnel prior to acceptance

at the Site and waste vehicles must be diverted to appropriate areas for waste disposal.

Cell Development

4.12 Waste landfilling operations shall generally move from north to south in the north expansion fill area to accommodate the pre-loading and to allow for settling of the north slope area of the existing fill area. Cell designation and initial development is shown on Map 4-2, Initial Cell Development Plan, dated March 2001 (Item 35.m) in Schedule "A" attached to this Approval, and shall proceed as follows: 1, 2, 3, 6, 4A, 4B, 5A, 5B.

Hours of Operation

4.13 The maximum operating hours for the Site for receipt of waste for disposal, Site preparation, Site maintenance and daily cover activities are from Monday through Saturday between the hours of 7:00 a.m. and 7:00 p.m.

4.14 With prior notification to the PRC and written approval of the District Manager, the time periods may be extended to accommodate seasonal or unusual quantities of waste.

4.15 The Owner may provide limited hours of operation provided that the hours are posted at the landfill gate and that suitable notice is provided to the public of any change in operating hours.

4.16 Upon reasonable notice to the District Manager, contingency actions may take place outside normal hours of operation. Emergency response may occur at any time as required.

Signage

4.17 Signs shall be placed at the landfill Site entrance/exit indicating, at a minimum, the following:

- a. Name of the landfill and name of the owner;
- b. Ministry Approval Number;
- c. Days and hours of operation and public use;
- d. Telephone number/contact at the City of Kawartha Lakes;
- e. Area served by the landfill;

- f. Types of waste accepted and prohibited;
- g. Overview of landfill complaints procedure, including a phone number for registering a complaint;
- h. Unauthorized entry is prohibited; and
- i. A warning against dumping wastes outside the Site.

4.18 Signs shall also be posted along internal access roads controlling vehicle speed, turning movements and to direct vehicles to the working face and other designated areas and facilities on the Site, as appropriate. All landfill signs shall be kept legible, in good repair, and cleaned when required.

Site Supervision and Security

4.19 (1) No waste shall be received, landfilled or removed from the Site unless a Site supervisor or attendant is present and supervises the operations during operating hours. The Owner shall ensure that adequately trained persons are on duty at all times during the operation of the Site to provide proper supervision of all waste management activities. Incoming waste shall be inspected prior to acceptance at the Site to ensure that the Site is approved to accept that type of waste.

(2) During non-operating hours, the Owner shall ensure that the Site entrance and exit gates shall be locked and the Site shall be secured against access by unauthorized persons.

On-Site Roads

4.20 On-Site roads shall be provided and maintained in a manner that vehicles hauling waste to and on the Site may travel readily and safely on any operating day. During winter months, when the Site is in operation, roads must be maintained to ensure safe access to the landfill working face. The Owner may establish and use temporary working roads for landfill operating and construction equipment, as needed.

Litter Control, Vermin, Scavenging, Dust, Litter, Odour, Noise, etc.

4.21 The Owner shall implement control measures for dust, odour, litter, noise, birds, vector and vermin in accordance with Section 7 of the Design and Operations Report. Effectiveness of the control measures shall be reviewed and monitored regularly and updated/revised, as required, based on operational experience and complaints.

4.22 Controlled removal of reusable material from the Site may only occur in a

designated and supervised area of the Site.

4.23 (1) Litter from the Site shall be picked up on a daily basis along the Site's perimeter and access roads.

(2) Upon the consent of neighbouring residents, the Owner shall, at its own expense, remove landfill-related litter from neighbouring properties on a daily basis. Landfill-related litter on municipal or public roads within 500 metres of the Site shall be removed monthly by the Owner, upon the consent of the authorities having jurisdiction over such roads.

4.24 Visual screening shall be installed, inspected and maintained as required during the operating life of the landfill Site.

4.25 The Owner shall carry out a program to minimize dust, based on dust control measures outlined in Section 7.1 of the Design and Operations Report. Accurate records shall be kept of the use of any chemical dust suppressants, including date and location of application on the Site. Effectiveness of the dust suppression plan shall be reviewed and monitored regularly and updated/revised, as required, based on operational experience and complaints. Measures shall be taken to prevent mud-tracking off the Site.

Noise Control

4.26 Noise shall be controlled in accordance Section 7.4 of the Design and Operations Report. Noise from or related to the operation of the landfill shall be kept to a minimum and in any event, the Owner shall comply with the criteria set out in the Ministry's "Noise Guidelines for Landfill Sites":

a. The limits for sound levels due to the landfilling Site operation at a point of reception are 45 dBA in any hour of the night, 7:00 p.m. - 7:00 a.m., and 55 dBA in any hour of the day, 7:00 a.m. - 7:00 p.m. These levels are expressed in terms of the One Hour Equivalent Sound Level (Leq).

b. For impulsive sound, other than quasi-steady impulsive sound, from a pest control device employed to deter birds from the landfilling Site, the applicable sound level limit at a point of reception expressed in terms of the Logarithmic Mean Impulse Sound Level (LLM) is 70 dBA.

c. For quasi-steady impulsive sound, but not including other impulsive sound from a pest control device employed to deter birds from the landfilling Site, the applicable sound level limit at a point of reception expressed in terms of the One Hour Equivalent Sound Level (Leq) is 60 dBA.

Gull Control

4.27 The Owner shall implement and carry out the Gull Control Program (Habitat Management, Active and Lethal Control Measures, Contingency Exclusions Measures, Personnel and Training, Monitoring and Reporting) for the landfill Site, in accordance with Item 110 in Schedule "A", as soon as possible following issuance of this Approval, acquisition of required permits and specific equipment, and staff training.

Other Controls

4.28 Bare soil surfaces on the landfill Site shall be minimized and vegetated, as necessary, to prevent loafing by gulls. Specifically, bare soil areas that will remain unused for extended periods of time (4 months or more) shall be seeded with a grass/weed seed mixture to establish tall vegetation (> 20 cm).

4.29 (1) The Owner shall empty the open-air garbage bins at the Residential Container Station at the Site when they are near capacity. No waste materials other than approved by this Approval shall be placed/stored outside of the bin.

(2) In the event gulls become a nuisance at the station, the Owner shall implement the approved gull control measures as approved by this Approval.

(3) In the event the approved gull control measures are unsuccessful in alleviating gull nuisances at the station, the Owner shall submit to the Director for approval, a plan that provides alternative methods (from those already approved) to minimize nuisance created by gulls at the station.

4.30 The Site shall be actively monitored to eliminate pools of standing water and reduce the attraction to gulls for loafing. Areas of standing water shall be regraded or filled with soil as soon as practically possible.

4.31 The stormwater management pond for this landfill Site shall be designed and constructed to discourage use of the pond by gulls as a loafing site during the day. Pond design shall consider high perimeter berms and dense planting of trees or tall shrubs on the berms.

4.32 Construction of berms on the Site using a mixture of soil and waste shall not use waste that contains food scraps.

4.33 Any long-term soil stockpiles on the Site shall be seeded with a grass/weed seed mixture to establish vegetation in order to minimize soil erosion, dust and attraction by gulls for loafing.

4.34 The Owner shall ensure that one full-time staff member at the landfill Site shall be designated as the Control Officer responsible for directing daily gull control program activities.

4.35 Prior to the implementation of the gull control program and on a regular basis thereafter, all staff directly responsible for daily operation of the landfill shall be trained on all aspects of the program in accordance with Section 7.5 in Item 110 in Schedule "A" of this Approval, as amended.

4.36 The Owner shall make its best efforts to communicate and cooperate with management staff of the Lindsay Airport regarding the effectiveness of the gull control program for the landfill Site. The Annual Report (Condition 15) shall be made available to management staff of the Lindsay Airport.

Paved Roads and Parking Lots

4.37 Use of chloride-based de-icing salts on paved surfaces (on-site roads and parking areas) shall be minimized in order to limit the potential for groundwater contamination and interference with groundwater / leachate monitoring for the Site. Alternative de-icing products may be used to ensure safe vehicle operations during winter conditions. Accurate records of application of de-icing products (type, date, amount, location) shall be prepared and maintained.

Spills

4.38 All spills and upsets shall be immediately reported to the Ministry's Spills Action Centre (SAC) and shall be recorded in a log as to the nature of the spill or upset, and the action taken for clean-up, correction and prevention of future occurrences.

Subsurface Migration of Landfill Gas

4.39 The Owner shall ensure that all buildings and structures to be built on the Site shall be situated, constructed and monitored in a manner which minimizes the potential for explosive hazards due to landfill gas. Methane detection and alarm equipment, with active venting or with an effective passive venting system to relieve any possible landfill gas accumulation, shall be installed and maintained for all enclosed buildings on the Site which at times are occupied by people. Routine monitoring for explosive methane gas levels shall be conducted in all buildings on the Site, especially enclosed structures which at times are occupied by people.

4.40. The design of the Site and any plans, specifications and descriptions for the control of landfill gas must ensure that the subsurface migration of landfill gas meets the following limits from Section 14(2) of Reg. 232:

- a. The concentration of methane gas below the surface of the land at the boundary of the Site must be less than 2.5 per cent by volume;
- b. The concentration of methane gas must be less than 1.0 per cent by volume in any on-Site building or enclosed structure, and in the area immediately outside the foundation or basement floor of the building or structure, if the building or structure is accessible to any person or contains electrical equipment or a potential source of ignition;
- c. Sub-condition (b) does not apply to a leachate collection, storage or treatment facility or a landfill gas collection or treatment facility for which specific health and safety measures and procedures are in place relating to the risk of asphyxiation and the risk of explosion; and
- d. The concentration of methane gas from the Site must be less than 0.05 per cent by volume in any off-Site building or enclosed structure, and in the area immediately outside the foundation or basement floor of the building or structure, if the building or structure is accessible to any person or contains electrical equipment or a potential source of ignition.

4.41 The Owner shall follow the landfill gas trigger level and contingency response plan described in the Design and Operations Report. If the measured gas concentration at a gas probe exceeds the applicable Reg. 232 limit, the reading shall be re-measured immediately and daily for a period of up to 3 consecutive days. If these readings confirm the applicable limit has been exceeded, appropriate control measures shall be implemented as soon as possible thereafter.

Granular Leachate Collection Layer

4.42 (1) A thickness of at least five (5) metres of compacted waste and cover material shall be maintained between any landfilled sludge (solid non-hazardous as per Reg. 347) and the granular leachate collection layer.

(2) The maximum path of that leachate may travel prior to intercepting a leachate collection pipe shall be not more than 50 metres in length.

(3) Pipes must be bedded in a continuous layer of stones that extends completely across the base of the waste fill zone and that has a minimum thickness of 0.3 metres on the base side slopes and a minimum thickness of 0.5 metres elsewhere. The stones must have a D₈₅ of not less than 37 millimetres, a D₁₀ of not less than 19 millimetres, a uniformity coefficient (D₆₀/D₁₀) of less than 2.0 and, when measured by weight, not more than 1.0 per cent of the stones may pass the US #200 sieve.

4.43 Heavy equipment, such as the landfill compactor, shall not be allowed to pass over the composite liner and leachate collection system in the north expansion fill area until at least 1.5 metres of waste has been placed over the leachate collection system and liner.

Leachate Treatment

4.44 Leachate generated at this Site shall be collected and treated as long as necessary following closure of this Site for protection of the natural environment. Leachate collection and treatment may be discontinued following written approval by the Director, based on consultation with the PRC and an application by the Owner to the Director with supporting documentation to confirm that leachate collection and treatment is no longer necessary, including monitoring results which indicate that the levels of contamination in the leachate have decreased to acceptable levels with respect to groundwater and surface water impacts.

Seepages

4.45 The Owner shall thoroughly inspect the landfill Site, at least once per month, for evidence of leachate seepage or leachate springs. Incidences of leachate breakout are to be reported monthly to the PRC and District Manager, and annually to the Regional Director in the Annual Report, together with a description of the remedial action taken.

Leachate Characterization

4.46 Upon commencement of landfilling in the north expansion fill area, the Owner shall conduct a leachate characterization study, based on representative samples of leachate obtained from the leachate collection systems, for the purposes of determining the current and projected leachate quality and quantity generated at this Site, and implementing an appropriate long-term leachate management plan for this Site. The results of the study shall be included in the Annual Report for this Site, as required by this Approval. Loadings to the Lindsay WPCP shall be closely monitored to determine the need for plant upgrades.

Leachate Disposal

4.47 Leachate from the leachate collection system shall be discharged to the Lindsay WPCP, unless prior approval of the Director is obtained for alternative leachate management and disposal.

Surface Water Management

4.48 Surface water and stormwater shall be managed in accordance with the

stormwater management plan outlined in Section 5.1 of the Design and Operations Report. Prior to construction of the works, the Owner shall submit an application and obtain approval an Approval (sewage works) for surface water management works, including the stormwater management pond.

4.49 During the detailed design stage, trigger levels for the stormwater management pond discharge shall be established for closing the pond outlet valve, based on existing water quality monitoring data and the Scugog River background information.

4.50 Stormwater runoff generated from the active waste fill area shall be considered contaminated and treated as leachate. Operational methods shall ensure that any precipitation falling onto active waste fill areas, not under final cover, shall be directed to the leachate collection system. If necessary, granular sumps shall be dug into the waste to facilitate drainage of contaminated stormwater towards the leachate collection system.

Additional Construction Requirements

4.51 (1) Groundwater monitors and landfill gas monitors shall be protected from potential damage during construction of the ancillary facilities.

(2) Erosion and sediment control measures, including silt fencing and flow check dams, shall be employed and function properly for the construction period. Installation of the erosion and sediment control measures shall be completed prior to commencement of construction. The measures shall be inspected regularly and maintained during construction and decommissioned once the site has been stabilized. Any problems that are found during inspections shall be rectified as soon as practicable. Accumulation of sediment in traps and along silt fences shall be cleared as required.

ON-SITE METEOROLOGICAL STATION

4.52. The Owner shall install an on-site meteorological station to measure weather conditions during the operating life of the Site. Ambient temperature (minimum, mean, maximum), precipitation events, barometric pressure and wind speed and direction shall be recorded daily. Data shall be used to confirm estimates of infiltration and leachate generation, and to correlate with any nuisance complaints and landfill gas monitoring data.

5.0 SITE OPERATIONS

Waste Types

5.1 The Owner may only accept the following categories of waste to be landfilled and/or processed

at the Site:

- Solid non-hazardous Municipal Waste generated from residential, commercial, institutional and industrial sectors;
- Recyclable waste listed in Schedule 1 to 3 of Regulation 101/94 including construction and demolition waste and asbestos waste;
- Septage waste;
- Non-hazardous treated biosolids (processed organic waste) and dewatered sewage sludge from the Lindsay Water Pollution Control Plant (WPCP);
- Other municipal non-hazardous waste: non-recyclable material from parks, grit from pollution control plants, street sweepings/road waste;
- Non-hazardous Contaminated Soils;
- Municipal Hazardous and Special Waste (MHSW) as listed in O. Reg. 387/16;
- Source Separated Organics (SSO);
- Waste Electrical and Electronic Equipment (WEEE) as listed in Schedules 1 through 7 of Ontario Regulation 389/16, as amended; and
- Miscellaneous municipal solid non-hazardous waste: scrap metal, White Goods, textile and bulky plastics.

Landfill operations

5.2 (1) Except as otherwise provided for in this Approval, the Site shall be designed, developed, built, operated and maintained in accordance with the supporting documentation in Schedule "A".

(2) Non-hazardous Contaminated Soils and/or excess soil can only be landfilled at the Site if they meet Section 22 of O. Reg. 406/19, as amended, requirements.

(3) Excess soil may be used at the Site for the purposes outlined in Section 22(2) of O. Reg. 406/19, as amended. Excess soil used at the Site for the purposes outlined in Section 22(2) of O. Reg. 406/19 shall not be landfilled and shall be stored within the approved fill limit in case of non-hazardous Contaminated Soils or at appropriate locations within the buffer lands in case excess soil is not Contaminated Soils.

(4) Dewatered sewage sludge and treated biosolids shall be accepted and handled as per procedure outlined in Section 4.3.2 of Item 110 of Schedule "A".

Burning of Waste

5.3 Burning of waste is not permitted at the Site.

Waste Placement

5.4 Final slopes above grade at the time of Site closure within the waste fill area shall be within the range of 4H:1V (25%) and 20H:1V (5%).

5.5 Waste placement shall occur at a minimum 1 meter above the highest groundwater table elevation at the Site

5.6 The Owner shall deposit waste in a manner that minimizes exposure area at the landfill working face and all waste shall be compacted before cover is applied.

Asbestos Waste

5.7 Any waste that is considered asbestos waste shall be handled in accordance with Section 17 of O. Reg. 347 as amended from time to time.

5.8 A suitable sized excavation for the asbestos waste shall be made by the Owner in a location away from the active landfilling face.

5.9 All asbestos waste shall be inspected to ensure that the asbestos waste is properly bagged or contained and free from puncture, tears or leaks.

5.10 The asbestos waste shall be placed in the excavation to avoid damage to the containers and to prevent dust and spillage.

5.11 Upon completion of the unloading and deposition of the asbestos in the excavation, at least 125 centimetres of cover or waste material shall be placed over the asbestos.

5.12 All asbestos waste shall be deposited to a level no higher than 1.25 metres below the general elevation of the disposal area to ensure that daily cover material removal in the future does not encounter the asbestos waste.

Cover Material

5.13 Daily, interim and final cover material shall be applied in accordance with Section 3.1.5 of the Design and Operations Report and as follows:

a. Daily Cover - By the end of each working day, the entire working face shall be compacted and covered with a minimum thickness of 150 mm of soil cover or an approved thickness of alternative cover material. Prior to placing waste at the start of the next operating day, the existing daily cover material shall be scarified or removed to ensure vertical hydraulic connection is maintained between layers of waste and to

promote percolation of leachate downwards to the leachate collection system. The daily soil cover material shall be applied with appropriate wide-track or rubber tire equipment, not the waste compactor. Where weather conditions or operational problems prevent the daily application of cover material, the Owner shall immediately notify the District Manager and the PRC.

b. Interim Cover - In areas where landfilling has been temporarily discontinued for 3 months or more, a minimum thickness of 300 mm of soil cover or an approved thickness of alternative cover material shall be placed and vegetated, as required.

c. Final Cover - Shall be applied progressively as areas of the landfill reach final waste elevations within the existing fill area, subject to Response #66 in Item 37 in Schedule "A", and within the north expansion fill area. All areas of final cover shall be graded and vegetated as soon as practically possible. The final soil cap shall be regularly inspected and maintained following application and during the post-closure period. Without limiting the above, the Owner shall ensure for a minimum of five years after completion of the cap that the Site shall be inspected at least on a quarterly basis to ensure that there is positive drainage along the cap and that during the frost free period of the first two years following completion, such inspections shall be monthly. If any inspection indicates that there is an area of ponding or zero slope, the Owner shall take all steps necessary to provide positive drainage and rehabilitate the final cap as soon as practically possible.

Alternative Daily and Interim Cover Material

5.14 (1) Alternative materials to soil may be used as daily 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 the PRC, 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:

- a. Control of blowing litter, odours, dust, landfill gas, gulls, vectors, vermin and fires;
- b. Provision for an aesthetic condition of the landfill during the active life of the Site;
- c. Provision for vehicle access to the active tipping face; and

d. Compatibility with the design of the Site for groundwater protection, leachate management and landfill gas management.

(2) The following materials are approved by the Director be used as Alternative Daily Cover (the material thickness with the exception of Item (f) and (i) must be 150 mm in thickness):

- a. Non-hazardous Contaminated Soil and uncontaminated soil;
- b. Foundry sand;
- c. Wood chips;
- d. Compost;
- e. Shingles;
- f. Flexible Membranes (tarps, Enviro Cover); and
- g. Blasting mats.
- h Partially Composted leaf and yard waste from onsite composting
- i Steel plates
- j. road sweeping, grit from catchbasin

(3) The Owner for Condition 5.14 (2) - Items (a), (b), (c) , (d) and (e) shall ensure that if material brought to the Site from outside the City of Kawartha Lake boundaries, no more than a 3 month supply of daily cover is stockpiled a the Site at any time. Any material from outside the boundaries of the Owner of Kawartha Lakes must be approved by the District Manager prior to receipt and reviewed by the PRC.

(4) The Owner shall ensure they have a supply of daily cover (soil) available should any of the alternative daily covers listed in Condition 5.14 (2) fail to meet required specifications outlined in this Approval.

(5) The Owner shall review with the PRC the effectiveness of the alternative daily cover every two (2) years.

Leachate Monitoring

5.15 Regular monitoring of leachate quantity and quality collected and discharged from the Site shall be conducted to allow the potential impact to the local receiving sewage treatment plant to be closely monitored and any necessary corrective action taken.

Cleaning Leachate Collection System (LCS)

5.16 The leachate collection system piping for the existing fill area and constructed portions of the north expansion fill area shall be cleaned out at least once per year with a high pressure wash, and with video inspections conducted to confirm that the pipes are clean and to determine the need for more frequent cleaning. Assessment of the need to amend the cleaning frequency shall be based on regular inspections of the leachate collection system and monitoring results. Inspection and maintenance of the leachate collection pipes, pumping station and forcemain shall be carried out in accordance with Sections 5.22 and 5.23 in the Design and Operations Report, and Response #72 in Item 35 in Schedule "A" attached to this Approval.

6.0 OTHER WASTE MANAGEMENT FACILITIES

Recycling Depot

6.1 The Recycling Depot shall be operated in accordance with Regulation 101/94, Part III - Municipal Waste Recycling Depots, Section 19.

6.2 The Owner may establish outdoor storage in bins, bunkers or trailers for the temporary storage of the following:

- a. Construction and demolition waste in addition to waste listed in Schedule 3 - Recyclable Waste Other Than Blue Box Waste That Cannot be Comingled of Regulation 101/94;
- b. Material destined for off-site reuse or recycling;
- c. Textiles;
- d. Mattresses;
- e. Road sweepings, soils from ditch cleaning or catchbasin cleanouts.

Leaf and Yard Waste Composting Facility

6.3 (1) The relocated Leaf and Yard Composting Facility shall be constructed,

maintained and monitored in accordance with the Report listed as item No.76 (Stantec Report January 2015) as amended by items No. 78, 79, 80, 81, 83, 84 and 85 of the Schedule A of this Approval.

(2) The relocated Leaf and Yard Composting Facility shall be operated in accordance with Regulation 101/94, Part V - Leaf and Yard Waste Composting Sites, Sections 31 to 33.

(3) Notwithstanding any of the provisions in Section 31 to 33 of Part V of the Regulation 101/94, the Owner shall operate the relocated Leaf and Yard Composting Facility subject to the following Conditions;

a. The maximum amount of the Leaf and Yard waste at the relocated Leaf and Yard Waste Composting Facility (as shown on the drawing listed as item No. 77 of the Schedule A), at any time shall not be greater than 8000 tonnes.

b. Leaf and Yard waste segregated fine material may not be stored for more than four days before it is placed in windrows.

c. Leaf and Yard waste coarse material that is segregated for grinding shall be ground twice per year at a minimum unless agreed to by the District Manager.

d. The maximum quantity of the segregated coarse material at any time at the relocated Leaf and Yard Composting Facility shall not be greater than 750 tonnes.

e. On a trial basis, during three years, following the completion of the relocated leaf and yard composting facility construction, the temperature of each composting mass shall be measured and recorded weekly, at a minimum until the requirements in paragraphs 4 and 5 of Section 31 of Part V of the Regulation 101/94 have been satisfied. During the curing phase the temperature shall be measured and recorded weekly.

(4) The Owner shall prepare and submit a Report to the District Manager within 3 years following the completion of the relocated leaf and yard composting facility construction, providing results of the monitoring of the relocated Leaf and Yard Composting Facility and compliance with Conditions 6.3(1), 6.3(2) and 6.3(3). The Report shall include at a minimum, the sampling analysis of the finished compost and document

recommendations for continuation or amendment of Condition 6.3(3)(e).

(5) Approval is hereby granted for the construction and operation of the Infiltration Pond and a Valve Chamber to collect and treat the unsegregated and impacted storm water run off from the relocated compost pad in accordance with Items 94, 95 and 105 of Schedule "A".

(6) Water level in the Infiltration Pond shall be recorded on a weekly basis, at a minimum, using a staff gauge. Excess water from the Infiltration Pond shall be discharged via the Valve Chamber into Lagoon 1.

(7) Discharge of water via the spillway shall be minimized by managing the water level with the Valve Chamber. If an overflow does occur from the Infiltration Pond via the spillway, then the event shall be recorded and reported to the Ministry as part of the Annual Monitoring Report.

Septage Waste Drop Off Station

6.4. The manhole(s) for the septage waste drop-off station shall be covered at all times when not in use.

Household Hazardous Waste (HHW) Depot

6.5. (1) The HHW depot shall be built and operated in accordance with Items 52 and 53 of Schedule "A". Administrative amendments to Item 52 of Schedule "A" (i.e. HHW Depot Operations Manual) shall be submitted to the District Manager for approval.

(2) The operation of the HHW Depot is limited to the receipt and transfer of household hazardous waste consisting of classes 112, 113, 114, 122, 123, 135, 145, 146, 147, 148, 212, 213, 221, 232, 241, 242, 252, 261, 263, 269, 312 and 331 as defined in the "New Ontario Waste Classes" dated January 1986 or as amended.

(3) The HHW Depot may receive HHW during the maximum operating hours of 7:00 am. and 7:00 p.m. from Monday through Saturday.

(4) The total amount of liquid waste stored at the HHW Depot, at any one time, shall not exceed 5,000 litres (5 cubic metres) or equivalent.

(5) The total amount of solid waste stored at the HHW Depot, at any one time, shall not exceed 40 tonnes.

(6) No HHW shall be stored at the HHW Depot for a period longer than three (3) months without approval of the District Manager.

6.6 (1) The HHW depot shall not receive any pathological waste (class 312) other than syringes, lancets and needles.

(2) No radioactive wastes shall be accepted at the HHW depot.

(3) No PCBs (class 243) shall be accepted at the HHW depot. 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 following manner;

a. Oil and oil-based paints shall not be mixed or bulked with other paints prior to testing. Paints which are lab-packed are not considered to be mixed under this Approval.

b. The oil and oil-based paints shall be tested by a certified laboratory for PCB content. If the oil and oil-based paints are found to contain PCBs at or above levels identified in subcondition 6.6(3)(c), it shall be forthwith reported to the District Manager and the PCB waste shall be managed in accordance with Regulation 362/92 and stored or removed from the HHW depot to an approved PCB storage site, in accordance with written instructions from the District Manager.

c. The oil and oil-based paints 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.

(4) Except as specified in subcondition 6.6(3)(c), paints collected at the HHW depot 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 HHW depot shall be recorded in a log book kept at the HHW depot.

(5) The Owner shall maintain a log book at the HHW depot which shall record, on each day of operation:

a. date of record;

b. types, quantities and source of waste received;

- c. quantities of waste stored at the Depot;
- d. quantities and destination of waste shipped from the Depot;
- e. quantities of paints returned or sold to the general public;
- f. results of routine, visual inspection of the Depot; and
- g. any reporting of spills or upsets and actions taken to contain and manage.

6.7 (1) The HHW Depot shall only operate when under the supervision of staff trained in accordance with Item 52 of Schedule "A", the HHW Depot Operations Manual.

(2) Sufficient numbers of drums and lab-packed containers shall be available at the HHW depot such that all HHW, in quantities unanticipated or otherwise, can be safely stored.

(3) The Owner shall ensure that the waste are properly handled, packaged, contained or stored in a safe and secure manner so as not to pose any threat to the general public, site personnel and the natural environment, and that the operation of this HHW depot does not interfere with any other activities associated with this waste disposal Site.

(4) Emergency response in the event of a spill or upset shall be undertaken in accordance with Item 52 of Schedule "A", the HHW Depot Operations Manual. This Manual shall be kept at the HHW depot at all times and made easily accessible to all staff.

(5) The Owner shall ensure that all contingency and emergency response equipment and materials are immediately available at the HHW depot at all times, in a good state of repair and fully operational.

(6) The Owner shall conduct routine, visual inspections of the entire HHW depot area to ensure its security and to minimize off-site impacts such as odour, dust, litter and other nuisance factors.

6.8 Within four (4) months of the scheduled closure of the HHW depot, the Owner shall submit a detailed Closure Plan for approval by the Director. The Plan shall include, as a minimum, description of the work required to close the HHW depot, schedule of works

and decommissioning of the HHW area.

Source Separated Organics Facility

6.9 (1) The Source Separated Organics (SSO) Facility shall be constructed, maintained and monitored in accordance with the Report listed as item No.108 of Schedule "A" of this Approval.

(2) The Owner shall operate Source Separated Organics Facility subject to the following Conditions;

- a. The maximum amount of SSO at any time shall not exceed 18 tonnes.
- b. The amount of SSO receive per day shall not exceed 18 tonnes.
- b. SSO shall be transfer off-site to a licenced processing facility within 24 to 48 hours after its receipt.
- c. SSO shall be transferred to sealed roll-off containers/bins which shall be covered all the time except when being loaded.
- e. Daily inspection of the SSO Facility shall be conducted for potential odour concerns, bin conditions, pest control and water ponding and findings shall be noted in log book required in Condition 7.2.

(3) Stormwater run-off (contact or non-contact) generated at SSO Facility shall be directed towards the North Stormwater Management Facility.

7.0 RECORD KEEPING

7.1 The Owner shall ensure that daily records of Site operations are made for each operating day during the operation of the Site, in accordance with Section 11 of the Design and Operations Report, and that the records are retained at the Site for at least two years after they are made.

7.2 Daily records shall be maintained at the Site in a log book and shall include:

- a. the type, date and time of arrival, hauler, and quantity (tonnes) of all waste and cover

material received at the Site, and of all waste refused by the Site;

b. the area of the Site in which waste disposal operations are taking place;

c. any complaints from the public received by the Owner concerning landfilling operations and a description of the action taken by the Owner in response;

d. the amount of any leachate removed, or treated and discharged from the Site;

e. a record of litter collection activities and the application of dust suppressants;

f. a record of the inspections of any control, treatment, disposal or monitoring facilities; and

g. 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.

Record Retention

7.3 The Owner shall retain all documentation listed in Schedule “A” for as long as this Approval is valid.

7.4 The Owner shall retain employee training records as long as the employee is working at the Site.

7.5 The Owner shall make all of the above documents available for inspection upon request of Ministry staff.

8.0 COMPLAINTS PROCEDURE

8.1 The Owner shall establish a public complaints response procedure for the landfill Site in accordance with Section 11.1 of the Design and Operations Report. The Owner shall establish and publicise a day time and after hours telephone number for complaints about the operation and maintenance of the landfill Site. The Owner shall be responsible for responding to a complaint in accordance with the public complaints response procedure.

9.0 EMERGENCY SITUATIONS

9.1 In the event of a fire or discharge of a contaminant to the environment, Site staff shall contact the MECP Spills Action Centre (1-800-268-6060) and the District Office of the MECP.

9.2 The Owner shall submit to the District Manager a written report within three (3) days of the spill, outlining the nature of the incident, remedial measures taken and measures taken to prevent future occurrences at the Site.

9.3 The Owner shall have a Emergency Response Procedures Manual at the Site and shall be available for inspection by Ministry staff.

9.4 The Owner shall ensure that adequate fire extinguishers and contingency spill clean up equipment is available and that emergency response personnel are familiar with its use and location.

10.0 ENVIRONMENTAL MONITORING

Groundwater Wells/Monitors

10.1. The Owner shall ensure that all groundwater monitoring wells which form part of the monitoring program shall be properly capped, locked and protected from damage.

10.2. Where landfilling is to proceed around monitoring wells, suitable extensions shall be added to the wells, and the wells shall be properly re-secured and protected.

10.3. Any groundwater monitoring wells included in the ongoing monitoring program that are damaged shall be assessed, repaired, replaced or decommissioned by the Owner, as required.

10.4. The Owner shall repair or replace any monitoring well which is destroyed or in any way made to be inoperable for sampling, but still required as part of the monitoring program, such that no more than one regular sampling event is missed.

10.5. All monitoring wells which are no longer required as part of the groundwater monitoring program, and have been approved by the District Manager for abandonment, shall be decommissioned by the Owner, as required, in accordance with Ontario Regulation 903. A report on the decommissioning of the well shall be included in the Annual Report for the reporting period during which the well was decommissioned.

Environmental Monitoring Programs

10.6. The Owner shall carry out monitoring programs for waste, groundwater, leachate, surface water, and landfill gas, as described in the Design and Operations Report, as summarized in Schedules "B", "C", "D", "E" and "F" attached to this Approval, and in accordance with any related other Approval approvals issued for this Site. The Owner shall ensure that any proposed changes to the monitoring programs under this

Approval shall be acceptable to the District Manager before applying for an amendment to the Director for Approval.

10.7 Leachate heads acting on the composite liner in the north expansion fill area shall be monitored three (3) times per year using vibrating wire piezometers (VWPs) installed on the liner surface at 5 locations shown on Figure 8.1, Monitoring Well and Gas Probe Locatin Plan, WSP Canada Inc., dated December 2025 and revised on February 2026 (Item 110 in Schedule "A"). If failure of a vibrating wire piezometer is detected within the contaminating life span of the landfill, it shall be replaced with a slotted PVC standpipe installed through the waste, or another device or method acceptable to the Director.

10.8 Any off site exceedances of parameters for groundwater, surface water, or odour shall be reported to the District Manager within seven (7) days of receiving laboratory test results that indicate an exceedance. In addition, a statement detailing which results are out of compliance with the Ministry's guidelines and objectives shall be provided at the same time as the results.

Compliance Criteria

10.9 The Site shall be operated in such a way to ensure compliance with the following:

- a. Guideline B-7 Reasonable Use Concept at monitoring points along the property line that have the potential to be impacted by leachate from the Site;
- b. Provincial Water Quality Objectives (PWQO) for surface water impact; and
- c. Landfill gas standards prescribed in O. Reg. 232/98, as amended, and outlined in Condition 4.40.

Leachate Collection and Disposal System Monitoring and Recording

The Owner shall carry out the following monitoring program for the LCDS:

10.10 All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of leachate over the time period being monitored.

10.11 Samples shall be collected at sampling points, at the frequency specified, by means of the specified sample type and analyzed for each parameter listed in Tables 1 and 2 of Schedule G of this Approval and all results shall be recorded.

10.12 The methods and protocols for sampling leachate, analysis and recording shall

conform, in order of precedence, to the methods and protocols specified in the following:

- a. The Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only)", as amended from time to time by more recently published editions;
- b. The Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions; and
- c. The publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.

10.13 The Owner shall install and maintain (a) flow measuring device(s), to measure the flow rate of leachate from the LCDS with an accuracy to within plus or minus 15 per cent (+/- 15%) of the actual flow rate for the entire design range of the flow measuring device in order to measure and record:

- a. The quantity of leachate being conveyed through Leachate Pumping Station No.1;
- b. The quantity of leachate being conveyed through the Leachate Pumping Station No.2; and
- c. The quantity of sewage being conveyed through the Sewage Pumping Station.

10.14 The Owner shall retain for a minimum of three (3) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by Conditions 10.10 through 10.13 of this Approval.

Changes to the Monitoring Plan

10.15 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 a separate letter that shall accompany the Annual Report.

10.16 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.

10.17 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.

11.0 TRIGGER MECHANISMS AND CONTINGENCY PLANS

11.1. In the event of a confirmed exceedance 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 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 described in Section 8 of the Design and Operations Report.

11.2. The Owner shall ensure that any proposed changes to the site-specific trigger levels for groundwater and surface water impacts due to leachate shall be approved in advance by the Director via an amendment to this Approval.

11.3 If monitoring results, investigative activities and implementation criteria indicate the need to implement contingency measures, the Owner shall ensure that the following steps are taken:

- a. The Director, District Manager and PRC shall be notified by the Owner as soon as possible of the need to implement contingency measures;
- 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 Director for approval; and
- c. The contingency measures shall be implemented by the Owner upon approval by the Director.

12.0 ADDITIONAL STUDIES

Landfill Assessment and Wetland Impact Study

12.1 Study B in the Landfill Assessment and Wetland Impact Study, Item 21(b) in Schedule "A", shall be reviewed and updated by the Owner every 5 years, starting in 2003, and included with the Annual Report for the Site.

12.2 Commencing 2023, the Owner shall conduct aquatic lethality testing at SW13 and wastewater pollution control plant (WPCP) four times a year in addition to the

implementation of existing surface water monitoring program. The changes in the frequency of aquatic lethality testing can be made after District Manager's approval.

12.3 A discharge estimate of the daily flow entering the Scugog River shall be made at SW3, SW13 and WPCP to determine loading using parameter concentration data obtained under Condition 10.6.

12.4 The technical data and its analysis collected under Conditions 12.2 and 12.3 shall be included in the annual monitoring report required under Condition 15.

13.0 PUBLIC REVIEW COMMITTEE (PRC)

13.1 The Owner shall forthwith take all reasonable steps to maintain and participate in a landfill Public Review Committee (PRC), which is to function within terms of reference for the PRC, as prepared in consultation with the interested members of the affected public, and as amended from time to time according to appropriate amending procedures. The PRC shall serve as a focal point for dissemination, consultation, review and exchange of information regarding the operation of the landfill Site, including environmental monitoring, maintenance, complaint resolution, and new approvals or amendments to existing approvals related to the operation of this landfill Site.

13.2 The membership of the PRC shall include at least one member from the Owner and at least two members from interested parties.

13.3 Copies of all reports or other submissions required by the conditions of this Approval shall be made available to the PRC in accordance with the deadlines specified in the Conditions.

13.4 The Owner shall provide to members of the PRC and to any neighbouring residents reasonable notice and opportunities to make comments regarding any proposed amendment to this Approval. The Owner shall forward to the Director for consideration any written comments received by the Owner and advise the Director of the essence of any verbal comments received by the Owner regarding such proposed amendment.

14.0 SITE STAFF TRAINING PLAN

14.1 The Owner shall develop and maintain a training plan for current and new Site operations employees and shall ensure that all Site operations employees have been adequately trained and receive on-going training with respect to the following, as amended:

- a. Terms, conditions and operating requirements of this Approval;
- b. The operation, inspection, and maintenance of the Site with respect to the approved design and operations documents;
- c. Relevant waste management legislation and regulations;
- d. Environmental concerns related to waste management at the Site;
- e. Occupational health and safety concerns related to waste management at the Site;
and
- f. Emergency procedures and contingency plans in cases of fire, spills, off-site impacts and any other emergency situations.

15.0 ANNUAL REPORT

15.1 The Owner shall prepare an Annual Report on the development, operations and monitoring of the Site. The report shall be submitted to the Regional Director, the District Manager and the PRC, by April 30 each year, and shall cover the preceding calendar year. The report shall include the following:

- a. The results and an interpretive analysis of the results of all leachate, groundwater, surface water, landfill gas and biology monitoring, including an assessment of the need to amend the monitoring programs and trigger mechanisms or to implement contingency measures. This will include a discussion on the monitoring parameters and locations required by the Approval and the deletion of any parameter or location. In addition, this will include a discussion on the analyse(s) and location(s) on any additional sampling parameter(s) and/or sampling location(s) in which the Owner completed that is not currently required by this Approval.
- b. Mapping of concentrations of chloride, ammonia-N, phosphorus, toluene and phenols in the upper bedrock aquifer and estimates of contaminant mass loadings to the Scugog River from the landfill via leachate migration and from the WPCP lagoons through the upper bedrock aquifer, for chloride, ammonia-N, phosphorus, toluene and phenols, based on Response #98 in Items 35 and 37 in Schedule "A";
- c. Review and assessment of the effectiveness of the gull control program, including the following information:
 - i. Implementation and status of habitat management activities;

- ii. Implementation and effectiveness of active control measures;
- iii. Summaries of gull activity at the landfill Site;
- iv. Monthly summaries of the number and species of gulls shot for the lethal gull control program;
- v. Documentation of complaint records and actions taken in response;
- vi. Status of required permits; and
- vii. Changes undertaken, or required, to improve the effectiveness of the gull control program.

d. 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;

e. submission of the WPCP data as an appendix to the landfill annual report;

f. an assessment of the discharge from SW3, SW13 and the WPCP on water quality in the Scugog River, particularly Embayment A using interpretive or modelling tools;

g. 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; the progress of liner placement and leachate collection system placement; previously existing site facilities; facilities installed during the reporting period; and site preparations and facilities planned for installation during the next reporting period;

h. Calculations of the volume of waste, daily and intermediate cover, final cover, and liner and leachate collection system material 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;

i. A calculation of the remaining capacity of the Waste fill area and an estimate of the remaining waste disposal capacity;

- j. A summary of wastes accepted and transferred off site for recycling or reuse.
- k. A summary of the quantity of any leachate or pre-treated leachate removed from the Site or leachate treated and discharged from the Site during each operating week;
- l. Summaries of the monthly, maximum daily (as available), and total annual quantity (tonnes) of waste received at the Site;
- m. A summary of any public complaints received by the Owner and the responses made;
- n. A discussion of any operational problems encountered at the Site and corrective action taken;
- o. The status of compliance with all conditions of this Approval, including the inspection, monitoring and reporting requirements in the conditions of this Approval;
- p. Any other information with respect to the Site which the Regional Director or District Manager may require from time to time; and
- q. A discussion of any operational or performance issues related to the use of alternative daily cover at the Site.

16.0 SITE CLOSURE PLAN

16.1 The low permeability final cover system for the completed south area of the landfill shall be completed in accordance with Item 48 in Schedule "A".

16.2 At least two (2) years prior to the anticipated date of closure of this Site or the date 90 per cent of the total waste disposal volume is reached, whichever occurs first, the Owner shall submit to the Director for approval, with copies to the District Manager and the PRC, a detailed Site Closure Plan pertaining to the termination of landfilling operations at this Site, post-closure inspection, maintenance and monitoring, and end use, based on Section 12 of the Design and Operations Report. 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. Descriptions 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; and
- vi. Final construction of any control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas;

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 landfill gas; and

f. An updated estimate of the contaminating life span of the Site, based on the results of the monitoring programs to date.

SCHEDULE "A"

This Schedule "A" forms part of this Approval. If there is a conflict between documents listed in Schedule "A", the document bearing the most recent date shall apply:

Selected Supporting Documentation - Interim Expansion

1. Hydrogeological Investigation and Design Plan of a Proposed Sanitary Landfill, Lot 26, Concession 6, Township of Ops, prepared by Hydrology Consultants Limited, dated August 1978.
2. Surface Water Quality Assessment Report, prepared by Senes Consultants Limited, dated March 1991.
3. Biological Assessment Report, prepared by Totten Sims Hubicki Associates, dated September 1991.
4. Survey attached to letter from W. R. Coe, William R. Coe Limited, to J. Tidball, Miller Thomson, dated December 2, 1991.
5. Supplementary Report [Hydrogeology], Town of Lindsay/Township of Ops Interim Landfill Expansion, prepared by Hydroterra Limited, dated May 1993.
6. Leachate Impact on Township of Ops Sewage Treatment Plant, prepared by Totten Sims Hubicki Associates, dated May 1993.

Conceptual Purge Well System (approved June 24, 1994)

7. Document entitled CONCEPTUAL PURGE-WELL SYSTEM, dated February 2, 1994, included as an attachment to the LINDSAY-OPS LANDFILL INTERIM EXPANSION HEARING Outline of Evidence of Leon Bryck and Bob Kearse, shown as Exhibit Number 33 at the Environmental Assessment Board hearing, including Figure entitled Town of Lindsay Lindsay-Ops Landfill Site Conceptual Bedrock Purge Well System, dated February 1994, shown as Exhibit Number 33(a) at the Environmental Assessment Board hearing.

Expansion of the Leachate Collection System (approved January 25, 1995)

8. Document entitled "Lindsay/Ops Landfill Site Leachate Collection System Expansion", dated September 1994 and prepared by Totten Sims Hubicki Associates.
9. Drawing No. G1 (Legend and Abbreviations), dated October 20, 1994 and prepared by Totten Sims Hubicki Associates.
10. Drawing No. P1 (Leachate Collector and Forcemain), dated October 20, 1994 and prepared by Totten Sims Hubicki Associates.
11. Drawing No. P2 (Leachate Collector - Profile), dated October 20, 1994 and

prepared by Totten Sims Hubicki Associates.

12. Drawing No. P3 (Leachate Collector - Profile), dated October 20, 1994 and prepared by Totten Sims Hubicki Associates.

13. Drawing No. D1 (Details), dated October 20, 1994 and prepared by Totten Sims Hubicki Associates.

14. Letter from I. Parrott, Ministry of Environment and Energy to S. Blakey, Totten Sims Hubicki Associates, dated December 5, 1994, re: Review Comments on Leachate Collection System.

15. Letter from S. Blakey, Totten Sims Hubicki Associates to I. Parrott, Ministry of Environment and Energy, dated December 6, 1994, re: Response to Ministry Review Comments of December 5, 1994.

Eastward Extension to Existing Shallow Leachate Collection System along South Side of Landfill Site (approved February 29, 1996)

16. Letter dated December 27, 1995, from S. J. Blakey of Totten Sims Hubicki Associates to D. Staseff of MOEE Approvals Branch, including:

a. Tender Documents dated December 1995.

b. Drawing No. G1 entitled "Leachate Collection System - Legend and Abbreviations", dated December 1995.

c. Drawing No. 1 entitled "Leachate Collector - Profile", dated December 1995.

d. Drawing No. 2 entitled "Leachate Collector - Profile", dated December 1995.

e. Application for Approval of a Waste Disposal Site, signed by P. Jeffrey Seaton, County Engineer, County of Victoria, dated December 19, 1995.

17. Letter dated January 4, 1996 from D. Staseff of MOEE Approvals Branch to S. J. Blakey of Totten Sims Hubicki Associates - comments on design.

18. Letter dated January 11, 1996 from S. J. Blakey of Totten Sims Hubicki Associates to D. Staseff of MOEE Approvals Branch - response to comments on design.

19. Letter dated January 30, 1996 from S. J. Blakey of Totten Sims Hubicki Associates to D. Staseff of MOEE Approvals Branch, including revised Tender Document, Section 11200, Page 3.

20. Letter dated February 2, 1996 from S. J. Blakey of Totten Sims Hubicki Associates to D. Staseff of MOEE Approvals Branch, including revised Drawing No. D1 entitled "Details".

Landfill Assessment and Wetland Impact Study (February 1996)

21. Report entitled "Landfill Assessment and Wetland Impact Study, Lindsay/Ops Landfill", prepared by Golder Associates Limited, dated February 1996, including:

- a. Study A - Hydrogeological Assessment of Lindsay/Ops Landfill.
- b. Study B - Assessment of Impacts from Lindsay/Ops Landfill and Lindsay WPCP on Surgen Lake Wetland and Scugog River.

Contaminant Attenuation Zone (approved March 8, 1999)

22. Property description and legal survey Plan 57R-7810, dated June 19, 1997, attached to letter dated February 23, 1999, from W. Abbott, P. Eng., County of Victoria, to D. Staseff, P. Eng., Ministry of the Environment.

23. Letter dated September 30, 1998, from W. Abbott, P. Eng., County of Victoria, to A. Dominski, Ministry of the Environment.

24. Application for Approval of a Waste Disposal Site, signed by W. Abbott, P. Eng., Waste Management Engineer, County of Victoria, dated September 30, 1998.

25. Letter dated September 22, 1998, from S. Richardson, Clerk-Treasurer, Corporation of the Township of Ops, to W. Abbott, County of Victoria.

26. Letter dated February 23, 1999, from W. Abbott, P. Eng., County of Victoria, to D. Staseff, P. Eng., Ministry of the Environment.

Approval under the *Environmental Assessment Act*

27. Order in Council dated May 31, 2000, and *Environmental Assessment Act*, Section 9, Notice of Approval to Proceed with the Undertaking, Re: An Environmental Assessment for the Provision of Long Term Waste Disposal Capacity for the County of Victoria - specifically with respect to those matters that are subject to Part V of the *Environmental Protection Act* and for the purposes of Section 12.2(2) in the *Environmental Assessment Act*.

Application under Part V *Environmental Protection Act* for Continued Use & North Expansion

28. Letter and Application for a Certificate of Approval under Part V of the *Environmental Protection Act* for the Continued Use and North Expansion of the Lindsay-Ops Landfill (MOE Ref. #3722-4NPK9T), signed by David Moy, Corporation of the County of Victoria, dated August 25, 2000, including the following supporting documentation dated July 2000 (except where noted otherwise):

- a. EPA Summary Report, prepared by Earth Tech Canada Inc.
- b. Design Report, prepared by Earth Tech Canada Inc.
- c. Maintenance & Operations Report, prepared by Earth Tech Canada Inc.
- d. Hydrogeological / Geotechnical Assessment Reports:
 - i. Preliminary Modelling for Lindsay/Ops Landfill Expansion - Golder Associates Ltd., June 16, 1998.
 - ii. Evaluation of Native Till as Potential Landfill Liner Material, Lindsay/Ops Landfill - Golder Associates Ltd., July 1998.
 - iii. Estimation of Ammonia-N Loadings Due to Leakage from the Sewage Lagoon System, Lindsay/Ops Landfill Site - Golder Associates Ltd., December 1998.
 - iv. Trial Soil Liner Construction, Lindsay/Ops Landfill Expansion Study - Golder Associates Ltd., July 21, 1999.
 - v. Letter report dated November 19, 1999 from Frank Barone, Golder Associates Limited, to Julie Preslie, County of Victoria, Re: Revised "Trigger Mechanism", Lindsay/Ops Landfill.
 - vi. Geotechnical Assessment of the Proposed Cover System for the Existing Lindsay/Ops Landfill - Golder Associates Ltd., February 18, 2000.
 - vii. Leachate Generation Rates, Proposed Lindsay/Ops Landfill Expansion - Golder Associates Ltd., February 22, 2000.
 - viii. Estimated Quantity and Quality of Groundwater Collected from the Proposed Contingency Groundwater Purge Well System, Lindsay/Ops Landfill - Golder Associates Ltd., March

17, 2000.

iv. Hydrogeological Conditions and Assessment of Ammonia-N Loadings, Proposed Lindsay/Ops Landfill Expansion - Golder Associates Ltd., June 2000, including Appendix A - Site Specific Analysis of Leachate Collection System Service Life [200 years].

e. Agricultural Study, prepared by Stovel and Associates Inc.

f. Air Quality Impact Assessment, prepared by Earth Tech Canada Inc.

g. Archaeology Assessment, prepared by Heritage Quest Inc. (revised July 13, 2000).

h. Bird Hazard Assessment, prepared by Jacques Whitford Environment Limited.

i. Leachate Disposal Study, prepared by Earth Tech Canada Inc.

j. Natural Environment Assessment, prepared by Earth Tech Canada Inc.

k. Noise Impact Assessment, prepared by Aeroustics Engineering Limited (revised July 25, 2000).

l. Surface Water Assessment / Stormwater Management Plan, prepared by Earth Tech Canada Inc.

m. Traffic Assessment, prepared by Earth Tech Canada Inc.

n. Visual Impact Assessment, prepared by Earth Tech Canada Inc.

Gull Control

29. Letter dated September 26, 2000, from Greg Taras, Greg Taras Planning Consultants Ltd., to David Staseff, Ministry of the Environment, Re: **Wildlife Control Program** for the Continued Use and North Expansion of the Existing Lindsay-Ops Landfill, including:

a. Attachment "A" - Letter dated September 19, 2000, from Ron Huizer, Jacques Whitford Environment Limited, to David Moy, County of Victoria, Re: Lindsay-Ops Landfill Wildlife Control Program - Work Plan.

b. Attachment "B" - Letter dated September 15, 2000, from David Moy, County of Victoria, to Anne Mehnart, Lindsay Airport Authority, Re: Wildlife Awareness & Control Program for Lindsay Airport.

30. Final Report, Owner of Kawartha Lakes, Continued Use & North Expansion of the Lindsay-Ops Landfill, **Gull Control Program**, prepared by Jacques Whitford Environment Limited, dated September 2001.

Slope Modifications

31. Letter dated February 9, 2001, from Joe Ovcjak, Earth Tech Canada Inc., to Dave Staseff, Ministry of the Environment (response to letter dated February 1, 2001, from Dave Staseff, Ministry of the Environment, to Greg Taras, Greg Taras Planning Consultants Ltd.), including:

a. Drawing No. A1-99252-G1, entitled "Revised Final Contour Plan (2001), Existing Lindsay-Ops Landfill", dated February 2001.

b. Drawing No. A1-99252-G2, entitled "Cross Section A-A' and B-B' Plan, Existing Lindsay-Ops Landfill", dated February 2001.

32. Letter dated March 15, 2001, from J. J. Ovcjak, Earth Tech Canada Inc., to D. Staseff, Ministry of the Environment, Re: Proposed Slope Modifications, Lindsay-Ops Landfill Site (response to letter dated March 2, 2001, from Dave Staseff, Ministry of the Environment, to Joe Ovcjak, Earth Tech Canada Inc.), including attached letter dated March 9, 2001, from Frank S. Barone, Golder Associates Limited, to Joe Ovcjak, Earth Tech Canada Inc., Re: Proposed Slope Modifications, Lindsay-Ops Landfill Site.

33. Letters dated April 2 & 17, 2001, from Julie Preslie, Owner of Kawartha Lakes, to Dave Staseff, Ministry of the Environment, Re: Proposed Slope Modifications, Lindsay-Ops Landfill Site, including attachments re: public consultation pursuant to Condition 7 in Certificate of Approval No. A321504 (dated June 24, 1994).

Name Change - Owner of Kawartha Lakes

34. Letter dated March 6, 2001, from Julie Preslie, Owner of Kawartha Lakes, to Dave Staseff, Ministry of the Environment, Re: Confirmation of Amalgamation and Name Change (County of Victoria to Owner of Kawartha Lakes), including attachment (copy of May 6, 2000 edition of Ontario Gazette - Order of the Commission made under the *Municipal Act*, R.S.O. 1990, c. M. 45 re: County of Victoria).

EPA Application - Responses to MOE Comments

35. Letter dated May 2, 2001, from P. Jeffrey Seaton, Owner of Kawartha Lakes, to Dave Staseff, Ministry of the Environment, Re: Response to MOE Comments [January 19, 2001, February 1, 2001, and March 19, 2001] re: Part V EPA Application for Continued Use & North Expansion of the Lindsay-Ops Landfill, Owner of Kawartha Lakes, including binder with Responses to MOE Comments (pages 1 to 78) and the following attachments:

a. Attachment A - Existing Lindsay-Ops Landfill Perimeter Leachate Collection System Design Drawings.

b. Attachment B - Estimated Service Life of the Existing Perimeter Leachate Collection System for the Existing Lindsay-Ops Landfill, Golder Associates Ltd., April 17, 2001.

c. Attachment C - Legal Survey of Properties (5) Purchased by the Owner of Kawartha Lakes & Compiled Plan of Landfill Property.

d. Attachment D - Settlement Calculations for North Slope, Golder Associates Ltd., April 17, 2001.

e. Attachment E - Inclinator Locations and Settlement Monitoring for Common North Slope, Golder Associates Ltd. - Figure E-1: Location of Settlement Plates over the North Slope of the Existing Landfill (March 2001), Figure E-2: Installation Detail for Settlement Plates on the North Slope of the Landfill (March 2001), Figure E-3: Typical Schematic of Inclinator Installation along North Slope (February 2001).

f. Attachment F - Owner of Kawartha Lakes Council Resolution No. CW2001-123 Identifying Contaminant Attenuation Zone.

g. Attachment G - Figure G-1: Conceptual Design of a Contingency Leachate Purge Well for the Expansion Area of the Landfill, Golder Associates Ltd., February 2001.

h. Attachment H - Conceptual Design Calculations for Leachate Purge Wells in the Landfill, Golder Associates Ltd., April 17, 2001.

i. Attachment I - Figure 2: Regional Cross-Section A-A', Ops Township, Victoria County, Golder Associates Ltd., February 2000.

j. Attachment J - Figure J-1: Variation in Ammonia-N Source Concentration With Time - Landfill Expansion Area, Golder Associates Ltd., April 2001.

k. Attachment K - Groundwater Flow Direction and Monitoring Locations - Figure K-1: Overburden Groundwater Flow Direction (October 1999), Figure K-2: Upper Bedrock Groundwater Flow Direction (October 1999), Golder Associates Ltd., April 2000.

l. Attachment L - Impacts of Projected Leachate Loadings on the Lindsay Water Pollution Control Plant Aeration Requirements: Sample Calculations for Aerator Preference & Power Requirements for Mixing, Tables 4-1b.1 & 4-1b.2 (revised), "Projected Leachate Loadings - Impact on the WPCP", Earth Tech Canada Inc., March 2001.

m. Attachment M - Revised Maps and Figures from the Part V EPA Application (August 2000) for the Continued Use and Northerly Expansion of the Existing Lindsay-Ops Landfill Site, Earth Tech Canada Inc., March 2001:

Design Report

Map 1-1: Site Location Plan; Map 1-2: Surrounding Land Use; Map 2-1: Property Plan; Map 2-2: Existing Site Conditions (November 2000); Map 4-1: Features of the Proposal; Map 4-2: Initial Cell Development Plan; Map 4-3: Cell 2 Development Plan; Map 4-4: Cell 4 Development Plan; Map 4-5: Proposed Base Contours; Map 4-6: Proposed Final Contours; Figure 4-1: Typical Cross Sections of Fill Area; Figure 4-2: Cross Sections and Anchor Trench Details; Map 6-1: Existing Stormwater Ditches and Catchment Areas; Map 6-2: Final Stormwater Ditches, Catchment Areas and Surface Water Monitoring Locations; Map 6-3: Proposed Stormwater Facility Conceptual Design; Map 7-1: Existing Leachate Management System; Map 7-2: Proposed Leachate Management System; Figure 7-1: Leachate Underdrain Pipe and Landfill Base Details; Figure 7-2: Leachate Manhole and Sidewall Detail; Map 9-1: Landfill Gas Management and Monitoring System; Figure 9-1: Typical Gas Vent Trench and Gas Monitoring Probe; Map 11-1: Existing and Proposed Groundwater Monitoring Well Locations Adjacent to the Landfill Expansion Area (Monitoring Plan for Landfill Expansion Area) - Golder Associates Ltd.

Maintenance & Operations Report

Map 7-4 Scugog River Surface Water Sampling Locations

36. Letter dated May 9, 2001, from Julie Preslie, Owner of Kawartha Lakes, to Dave Staseff, Ministry of the Environment, Re: Response to MOE Comments re: Part V EPA Application for Continued Use & North Expansion of the Lindsay-Ops Landfill (corrected page 31).

37. Letter dated September 17, 2001, from Stan Irwin, Owner of Kawartha Lakes, to Dave Staseff, Ministry of the Environment, Re: Response to Additional MOE Comments [August 27, 2001] on The Owner of Kawartha Lakes Application for a Certificate of Approval Under Part V of the Environmental Protection Act for the Continued Use and Expansion of the Lindsay-Ops Landfill, including responses to MOE comments (pages

1 to 9) and the following attachments:

a. Revised Map 7-2: Proposed Leachate Monitoring Locations, Golder Associates Ltd., September 2001.

b. Manhole Penetration Detail 'A', Urban & Environmental Management Inc., September 2001.

38. Report entitled, "*Detailed Design for Cell 1 Base Liner and Leachate Collection System and Overview of Future Design Submissions - Lindsay-Ops Landfill Expansion*", prepared by Gartner Lee Ltd., in association with Golder Associates and TSH, dated August 2002, including:

Detailed Design Drawings

1. Existing Conditions - Rev. 1 - Aug 07/02

2. Facility Layout - Rev. 1 - Aug 07/02

3. Site Preparation - Rev. 1 - Aug 07/02

4. Grading Plan - Cell 1 - Base Excavation - Rev. 1 - Aug 07/02

5. Grading Plan - Cell 1 - Top of Clay Liner - Rev. 1 - Aug 07/02

6. Grading Plan - Cell 1 - Leachate Collection System Layout - Rev. 1 - Aug 07/02

7. Grading Plan - Cell 1 - Top of Leachate Collection Granular Blanket - Rev. 1 - Aug 07/02

8. Typical Sections and Details - Rev. 1 - Aug 07/02

9. Typical Sections and Details - Rev. 2 - Aug 22/02

10. Typical Sections and Details - Rev. 1 - Aug 07/02

11. Manhole 1 and 2 Details - Rev. 1 - Aug 07/02

Appendices

A. *Report on Geotechnical and Hydrogeological Data/Analyses for the Detailed Design of the Lindsay/Ops Landfill Expansion [Cell 1]*, prepared by Golder Associates Ltd., dated August 2002.

B. Cell 1 Base Liner and Leachate Collection System Construction Specifications, prepared by Gartner Lee Ltd., dated August 8, 2002.

39. Letter dated September 27, 2002 from Mark Sungaila, P. Eng., Gartner Lee Ltd., to Dave Staseff, P. Eng., Ministry of the Environment, Re: Response to MOE Comments [September 25, 2002] on Detailed Design of Cell 1, Lindsay-Ops Landfill Site, Certificate of Approval No. A321504.

40. Letter dated September 27, 2002 from Frank Barone, P. Eng., Golder Associates Ltd., to Dave Staseff, P. Eng., Ministry of the Environment, Re: Responses to MOE Comments on Detailed Design for Lindsay/Ops Landfill Expansion (MOE Letter dated September 25, 2002).

41. Letter dated October 1, 2002 from Frank Barone, P. Eng., Golder Associates Ltd., to Dave Staseff, P. Eng., Ministry of the Environment, Re: Responses to MOE Comments [September 27, 2002] on Construction Specifications for Cell 1 - Base Liner and Leachate Collection System, Lindsay/Ops Landfill - North Expansion.

42. Letter dated October 2, 2002 from Mark Sungaila, P. Eng., Gartner Lee Ltd., to Dave Staseff, P. Eng., Ministry of the Environment, Re: Response to MOE Comments [dated September 27, 2002 on Construction Specifications] on Detailed Design of Cell 1, Lindsay-Ops Landfill Site, Certificate of Approval No. A321504, including:

a. Construction Specifications (Section 13) for Geosynthetic Clay Liner (GCL), dated September 3, 2002.

43. Letter dated March 24, 2003 from Mark Sungaila, P. Eng., Gartner Lee Limited, to Dave Staseff, P. Eng., Ministry of the Environment, Re: Detailed Design of Site Infrastructure for Lindsay-Ops Landfill Expansion (C of A No. A321504).

44. Report entitled "Detailed Design of Site Infrastructure for Lindsay-Ops Landfill Expansion (C of A No. A321504)", prepared by Gartner Lee Limited, in association with TSH and Golder Associates, dated March 2003, including design brief and the following drawings:

Detailed Design Drawings

1. GA1 - General Facility Layout - Rev. 2 - March 12, 2003

2. R1 - Access Road 'A' - Sta. 0+000 to Sta. 0+083.378 - Rev. 2 - March 12, 2003

3. R2 - Access Road 'B' - Sta. 0+000 to Sta. 0+300 - Rev. 2 - March 12, 2003

4. R3 - Access Road 'B' - Sta. 0+300 to Sta. 0+600 - Rev. 2 - March 12, 2003
5. R4 - Access Road 'B' - Sta. 0+600 to Sta. 0+870 - Rev. 2 - March 12, 2003
6. R5 - Scale House and Scale By-Pass Area - Rev. 2 - March 12, 2003
7. R6 - Typical Sections and Details - Rev. 2 - March 12, 2003
8. CF1 - Leaf and Yard Compost Facility - Facility Layout - Rev. 2 - March 12, 2003
9. CF2 - Leaf and Yard Compost Facility - Detailed Facility Layout - Rev. 2 - March 12, 2003
10. CF3 - Leaf and Yard Compost Facility - Typical Sections and Details - Rev. 2 - March 12, 2003
11. CF4 - Leaf and Yard Compost Facility - Details - Rev. 2 - March 12, 2003
12. SG-1 - Site Grading Plan - Buildings - Rev. 2 - March 12, 2003
13. M01 - Scale House & Hazardous Waste Depot - Plan S - Rev. 2 - March 12, 2003
45. Report entitled "Detailed Design for Cell 2 Base Liner and Leachate Collection System - Lindsay-Ops Landfill Site" prepared for the Owner of Kawartha Lakes by Gartner Lee Limited, in association with Golder Associates and TSH, dated June 2004.

Detailed Design Drawings

1. Existing Conditions - Issued for MOE Approval June 30, 2004;
2. Facility Layout/Site Preparation - Issued for MOE Approval June 30, 2004;
3. Grading Plan - Cell 2 Base Excavation - Issued for MOE Approval June 30, 2004;
4. Grading Plan - Cell 2 Top of Soil Liner - Issued for MOE Approval June 30, 2004;
5. Grading Plan - Cell 2 Leachate Collection System Layout - Issued for MOE Approval June 30, 2004;
6. Grading Plan - Cell 2 Top of Leachate Collection Granular Blanket - Issued for MOE Approval June 30, 2004;
7. Typical Sections and Details - Issued for MOE Approval June 30, 2004;

8. Typical Sections and Details - Issued for MOE Approval June 30, 2004;
9. Typical Sections and Details - Issued for MOE Approval June 30, 2004; and
10. Manhole 3 and 4 Details - Issued for MOE Approval June 30, 2004.

Appendices

A. Geotechnical and Hydrogeological Data/Analyses for the Detailed Design of the Lindsay/Ops Landfill Expansion (Cell 2), prepared by Golder Associates Ltd., dated June 2004.

B. Cell 2 Base Liner and Leachate Collection System Construction Specifications, prepared by Gartner Lee Limited and Golder Associated, dated June 30, 2004 and June 15, 2004, respectively.

46. Letter dated July 29, 2004 from Mark Sungaila, P.Eng. Gartner Lee Limited to Dale Gable, P.Eng. Ministry of the Environment, Re: 40-504 - Responses to Review Comments - Owner of Kawartha Lakes, Detailed Design of Lindsay-Ops Landfill Site - Cell 2, MOE Reference Number 8240-62LQ9T.

47. Report letter entitled "Monitoring Plan for Compost Pad Facility Lindsay/Ops Landfill" and supporting documentation to Mr. Ian Parrott, Ministry of the Environment from Mr. Frank Barone, Golder Associates Ltd. dated February 9, 2005.

48. Letter and supporting documentation dated June 12, 2006 addressed to Mr. Dale Gable, Ministry of the Environment from Mr. Frank Barone, Golder Associates Ltd. submitted to satisfy Condition No. 22. The supporting documentation includes the following:

- i. Report entitled "*Detailed Design Brief - Low Permeability Final Cover System for Completed South area of Lindsay-Ops Landfill*" prepared for the Owner of Kawartha Lakes by Golder Associated Ltd dated June 2006;
- ii. Construction Specifications - Low Permeability Final Cover System for Completed South Area of Lindsay-Ops Landfill prepared by Golder Associated Ltd. dated June 2006;
- iii. Dwg. No. 1 - Title Page - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated June 8. 2006;
- iv. Dwg. No. 2 - Existing Conditions - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated

June 8. 2006;

v. Dwg. No. 3 - Cut and fill Depths for Landfill Surface Regrading - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated June 8. 2006;

vi. Dwg. No. 4 - Regrading Surface Prior to Geomembrane Placement - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated June 8. 2006;

vii. Dwg. No. 5 - Cross Sections - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated June 8. 2006;

viii. Dwg. No. 6 - Landfill Gas Venting System Layout - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated June 8. 2006;

ix. Dwg. No. 7 - Geocomposite Outlet Tubing Layout - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated June 8. 2006;

x. Dwg. No. 8 - Top of Final Cover Surface - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated June 8. 2006;

xi. Dwg. No. 9 - Details - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated June 8. 2006;

xii. Dwg. No. 10 - Details - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated June 8. 2006; and

xiii. Dwg. No. 11 - Details - Low Permeability Final Cover Construction Lindsay-Ops Landfill prepared by Golder Associated (Project No. 05-1113-162) dated June 8. 2006.

49. Letter to the Ministry of the Environment from Golder Associates Ltd., dated January 29, 2008 which describes the proposed development of the northern half of Cells 3 and 6, which differs from the original plan and explains the operational benefits of this change.

50. Construction Specifications Report prepared by Golder Associates Ltd., dated January 2008 and associated Drawings Nos. 1 to 12, Project No. 07-1113-0326.

51. Geotechnical and Hydrogeological Data/Analyses for the Detailed Design of the Cells 3 and 6 (Northern Half) Lindsay/Ops Landfill Expansion, prepared by Golder Associates Ltd., dated January 2008.
52. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated January 16, 2009 and signed by Andrew Boyd, Supervisor, Solid Waste Services including the Owner of Kawartha Lakes Household Hazardous Waste (HHW) Depot Operations Manual dated January 2009.
53. E-mail dated August 21, 2009 (4:08 PM) from Heather Van Bruinessen, Regulatory Compliance Officer to B. Wilkinson, MOE re: storage of batteries (on shelving unit with roof) & oil bins (double-lined walls).
54. E-mail dated September 8, 2009 (10:22 AM) from Heather Van Bruinessen, Regulatory Compliance Officer to B. Wilkinson, MOE re: maximum solid waste.
52. Application for a Provisional Certificate of Approval for a Waste Disposal Site signed by Andrew Boyd, Supervisor, Solid Waste Division, The Corporation of the Owner of Kawartha Lakes, including all attached supporting information.
53. E-mail dated October 1, 2009, from Andrew Boyd, Supervisor, Solid Waste Division, The Corporation of the Owner of Kawartha Lakes, to Cathy Curlew, Senior Environmental Officer, Ministry of the Environment. Re: Use of Rancor Materials for Landfill Cover.
54. E-mail dated October 2, 2009, from Andrew Boyd, Supervisor, Solid Waste Division, The Corporation of the Owner of Kawartha Lakes, to David Lee, Senior Review Engineer, Ministry of the Environment. Re: Application for a Provisional CofA - Use of Rancor Fines as ADC.
55. E-mail dated October 13, 2009, from Heather Van Bruinessen, Regulatory Compliance Officer, The Corporation of the Owner of Kawartha Lakes to David Lee, Senior Review Engineer, Ministry of the Environment. Re: Use of Rancor Fines as ADC.
56. E-mail dated October 14, 2009, from Andrew Boyd, Supervisor, Solid Waste Division, The Corporation of the Owner of Kawartha Lakes, to David Lee, Senior Review Engineer, Ministry of the Environment. Re: Application for a Provisional CofA - Use of Rancor Fines as ADC.
57. Report entitled "Ontario Regulation 347 Design Report Lindsay/OPS Landfill Site Lindsay, Ontario" dated June 26, 2009 prepared by Comcor Environmental Limited.

58. Letter dated January 15, 2010 addressed to Rick Li, Ministry of the Environment from Denise Burgess, Comcor Environmental Limited providing a response to the MOE comments on the design report (Item 57).

59. Letter dated February 25, 2010 addressed to Rick Li, Ministry of the Environment from Denise Burgess, Comcor Environmental Limited providing a response to the MOE comments on the header pipe trench and liner penetration detail.

60. Report entitled "Geotechnical and Hydrogeological Data/Analyses for the Detailed Design of Cells 3 and 6 (Southern Half), Lindsay-Ops Landfill, Lindsay, Ontario" prepared by Golder Associated (Project Number 11-1111-0146) and dated March 2012.

61. Report entitled "Construction Specifications Cells 3 and 6 (Southern Half), Lindsay-Ops Landfill, Owner of Kawartha Lakes, Lindsay, Ontario" prepared by Golder Associated (Project Number 11-1111-0146) and dated March 2012.

62. Detailed design drawing set entitled "Owner of Kawartha Lakes - Cells 3 and 6 (South Half) Construction - Lindsay-Ops Landfill" prepared by Golder Associates (Project Number 11-1111-1146). The set includes the following drawings:

i. Drawing No. 1 entitled "Title Page" dated March 12, 2012;

ii. Drawing No. 2 entitled "Site Boundaries and Existing Facilities" dated March 12, 2012;

iii. Drawing No. 3 entitled "Proposed Base Grade Prior to Liner Installation" dated March 12, 2012;

iv. Drawing No. 4 entitled "Proposed Base Grade Cross-Sections A-A' and B-B'" dated March 12, 2012;

v. Drawing No. 5 entitled "Proposed Top of Soil Liner Contours" dated March 12, 2012;

vi. Drawing No. 6 entitled "Proposed Leachate Collection System Pipe Layout" dated March 12, 2012;

vii. Drawing No. 7 entitled "Proposed Top of Leachate Collection Granular Blanket Contours" dated March 12, 2012;

viii. Drawing No. 8 entitled "Proposed Final Grade Contours Prior to Waste Placement" dated March 12, 2012;

ix. Drawing No. 9 entitled "Typical Details" dated March 12, 2012;

- x. Drawing No. 10 entitled "Typical Details" dated March 12, 2012;
- xi. Drawing No. 11 entitled "Typical Details" dated March 12, 2012; and
- xii. Drawing No. 12 entitled "Leachate Collection System Maintenance Hole 7 and 8 Typical Details" dated March 12, 2012.

63. Letter dated April 10, 2012 addressed to Ms. Heather Dzurko, Supervisor Solid Waste Division The Corporation of the Owner of Kawartha Lakes from Mr. Dale Gable, Ministry of the Environment requesting additional information pertaining to liner construction, specifications and leachate collection piping.

64. Letter dated May 18, 2012 addressed to Mr. Dale Gable, Ministry of the Environment from Mr. Frank Barone, Golder Associates providing clarification on construction specifications and construction methodology's.

65. Letter dated May 29, 2012 addressed to Mr. Dale Gable, Ministry of the Environment from Mr. Frank Barone, Golder Associates providing an additional detail on connecting the new liner to the existing liner.

66. Report entitled "Operating Instructions - Landfill Gas Collection and Flaring System - Lindsay/Ops Landfill Site" prepared for the Owner of Kawartha Lakes by Comcor Environmental Limited dated March 2012.

67. Appendix A of the letter dated October 31, 2012 addressed to Mr. Dale Gable, Ministry of the Environment from Ms. Roberta Purdue, Owner of Kawartha-Lakes regarding the specifications for an additional waste oil tank.

72. Application for Amendment of the Provisional Environmental Compliance Approval for a Waste Disposal Site dated November 21, 2014, and received on November 24, 2014, and signed by Mr. David Kerr, Manager, Solid Waste Services including the Owner of Kawartha Lakes, regarding change of hours, along with supporting documentation that includes the Report listed as item No. 70 of the Schedule A.

73. Application for Amendment of the Provisional Environmental Compliance Approval for a Waste Disposal Site dated March 3, 2014 and received on March 3, 2014, and signed by Mr. David Kerr, Manager, Solid Waste Services to modify conditions listed under Section 6 in the ECA, composting operations.

74. Application for Amendment of the Provisional Environmental Compliance Approval for a Waste Disposal Site dated February 20, 2014 and received on March 21, 2014, and signed by Mr. David Kerr, Manager, Solid Waste Services for including the monitoring wells "lagoon Wells" in Schedule B.

75. Application for Amendment of the Provisional Environmental Compliance Approval for a Waste Disposal Site dated January 30, 2015 and received on February 4, 2015, and signed by Mr. David Kerr, Manager, Solid Waste Services for the relocation of an existing composting pad and associated stormwater pond to a future landfill disposal cell at the Lindsay-Ops Landfill Site

76. Report submitted in support of the Application listed as item No. 73, entitled "Supporting Documentation for ECA Amendment (A321504)-Relocation of Existing Leaf and Yard Waste Composting Operations, Lindsay-Ops Landfill Site, Owner of Kawartha Lakes, dated January 2015, prepared by Stantec Consulting Ltd.

77. Drawing No. C-100 included in the Report listed as item No. 74 of the Schedule A, showing the proposed Leaf and Yard Composting Facility, monitoring locations and stormwater management works, dated January 30, 2015, prepared by Stantec Consulting Ltd.

78. Letter from Ms. Angela Porteau, Owner of Kawartha Lakes, dated July 6, 2015, addressed to Ms. Cathy Curlew, Ministry of the Environment and Climate Change, providing additional information supplementing the Report listed as item No. 74 of the Schedule A.

79. Letter from Ms. Angela Porteous, Owner of Kawartha Lakes, dated July 6, 2015, addressed to Mr. Khalid Hussain, Ministry of the Environment and Climate Change, providing additional information supplementing the Report listed as item No. 74 of the Schedule A.

80. Letter from Mr. Jim Archibald, Stantec Consulting Inc., dated July 10, 2015, addressed to Mr. Khalid Hussain, Ministry of the Environment and Climate Change, providing additional information supplementing the Report listed as item No. 74 of the Schedule A.

81. Letter from Mr. Jim Archibald, Stantec Consulting Inc., dated September 2, 2015, addressed to Mr. Khalid Hussain, Ministry of the Environment and Climate Change, providing additional information supplementing the Report listed as item No. 74 of the Schedule A.

82. Consolidated Maintenance and Operations Report, Lindsay-Ops Landfill, Lindsay, Ontario" prepared by UEM - Urban and Environmental Management Inc., dated December 2012.

83. Email and attachments from Ms. Angela Porteous, S.C., Owner of Kawartha Lakes addressed to Mr. Khalid Hussain, Ministry of Environment and Climate Change, dated

September 10, 2015, providing the Owner's comments and other information.

84. Email and attachments from Ms. Angela Porteous, S.C., Owner of Kawartha Lakes addressed to Mr. Khalid Hussain, Ministry of Environment and Climate Change, dated September 17, 2015, providing the Owner's comments and map showing monitoring location SW18, and other information.

85. Email from Ms. Angela Porteous, Owner of Kawartha Lakes, dated September 28, 2015, addressed to Mr. Khalid Hussain, Ministry of the Environment and Climate Change, providing additional information regarding the landfill site monitoring program.

86. Email from Ms. Angela Porteous, Owner of Kawartha Lakes, dated October 2, 2015, addressed to Ms. Cathy Curlew, Ministry of the Environment and Climate Change, providing additional information regarding the proposed stormwater management pond for relocated Leaf and Yard Waste Composting Facility.

87. Revised Drawings No. C-100 and C-101, prepared by Stantec Consulting Ltd., included with Email dated October 1, 2015 from Ms. Angela Porteous, Owner of Kawartha Lakes, dated October 1, 2015, addressed to Mr. Khalid Hussain and others, providing these drawings and other information.

88. Application for approval dated November 30, 2015 and received on December 1, 2015 and supporting documents

89. Report - Construction Specifications Cells 4 and 5 (Northern Half) Lindsay/OPS Landfill, Owner of Kawartha Lakes, Lindsay, Ontario (Report Number 1524542) - November 2015

90. Report - Geotechnical and Hydrogeological Data/Analysis for the Detailed Design of Cells 4 and 5 (north half) Lindsay/OPS Landfill, Lindsay, Ontario (Report Number 1524542) - November 2015

91. Detailed Design Drawings - Issued for MOE Approval - Lindsay OPS Landfill, Cells 4 and 5 (Northern half) - (Project Number 1524542) - Stamped November 30, 2015 - F. S. Barone

92. Correspondence with Frank Barone (see memo to file) regarding clarification of size of waste fill area

93. Application for Amendment of the Provisional Environmental Compliance Approval for a Waste Disposal Site dated December 6 2016 and received on December 8, 2016 and signed by Mr. David Kerr, Manager, Solid Waste Services including the Owner of Kawartha Lakes, regarding changes to the Cover Materials and Monitoring

Requirements.

94. Letter dated May 16, 2017 regarding the relocation of composting pad and leachate collection pond prepared by Golder Associates.

95. Email dated 19th June 2017 from Angela Porteous, Regulatory Compliance Officer, Owner of Kawartha Lakes regarding the Solids and Odour management from the Infiltration Pond.

Previous Works Approved on November 15, 2002:

96. Application for Approval of Municipal and Private Sewage Works submitted by the Owner of Kawartha Lakes dated August 28, 2002 and design specifications and drawings prepared by Totten Sims Hubicki Associates (1997) Limited, Whitby, Ontario.

97. "Lindsay/Ops Landfill Continuing Use and North Landfill Expansion - Leachate/Sewage Pumping Stations Design Report" August 2002, prepared by Totten Sims Hubicki.

98. "Lindsay/Ops Landfill Continuing Use and North Landfill Expansion - Leachate/Sewage Pumping Stations, TSH Project No. 52-27395" August 2002, prepared by Totten Sims Hubicki.

99. "Continued Use & North Expansion of Existing Lindsay-Ops Landfill - Leachate Disposal Study" July 2000, prepared by Earth Tech Canada Inc.

100. "Provisional Certificate of Approval Waste Disposal Site Number A321504 - Lindsay-Ops Landfill Site" issued May 11, 2001.

Previous Works Approved on June 18, 2003:

101. Application for approval submitted by the Owner of Kawartha Lakes dated March 3, 2003 and drawings and design specifications prepared by Gartner Lee Limited, Markham, Ontario.

Previous Works Approved on October 10, 2008:

102. Application for approval submitted by the Owner of Kawartha Lakes dated April 25, 2008 and drawings and design specifications prepared by Golder Associates Ltd., Mississauga, Ontario.

Previous Works Approved on November 14, 2008

103. Document entitled "2018 Landfill Gas Collection System Detailed Design Report, Lindsay-Ops Landfill Site, Kawartha Lakes, Ontario Amended Compliance Approval Number A321504", dated June 13, 2018 and prepared by Comcor Environmental Limited on behalf of the Owner of Kawartha Lakes.

Previous Works Approved on September 3, 2019:

104. Application to amend Environmental Compliance Approval A321504, submitted by the Owner of Kawartha Lakes, dated August 16, 2019 re: Change to Cells 4 and 5 (North Half), Stage 2 Design, WSP Project No. 171-1-835-02.

Valve Chamber for Compost Infiltration Pond

105. Application to amend Environmental Compliance Approval A321504, submitted by the Owner of Kawartha Lakes, dated June 12, 2020 re: Valve Chamber for Compost Pad Infiltration Pond.

106. Application to amend Environmental Compliance Approval A321504, submitted by the Owner of Kawartha Lakes, dated December 24, 2021, including technical supporting documents prepared by WSP dated December 14, 2021, re: Lindsay Ops Landfill Cells 4 and 5 (South Half), Design, Environmental Compliance Approval No.A321504.

107. Application to amend Environmental Compliance Approval A321504, dated May 31, 2022, including technical supporting documents.

108. Environmental Compliance Approval Application dated September 22, 2025, including technical supporting documents "Interim Source Separated Organics Design and Operations Report, WSP Canada Inc., dated September 2025.

109. Environmental Compliance Approval Application dated December 19, 2025.

110. Design and Operations Report, Version 1.0, dated February 2026, WSP Canada Inc.

SCHEDULE "B"

This Schedule "B.1" forms part of this Approval-

GROUNDWATER MONITORING PROGRAM - EXISTING FILL AREA

1. Landfill Monitors : 6-90-R1 and 7-90-R1

Parameters: alkalinity, conductivity, pH, BOD, COD, DOC, barium, chloride, fluoride, iron, manganese, hardness, calcium, magnesium, potassium, sodium, TKN, nitrate, nitrite, ammonia, phenols, phosphorus, sulphate, benzene, toluene, xylene, aluminium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, silver,

thallium, vanadium, zinc, antimony, arsenic, selenium.

Frequency: Two times per year (May and October)

Parameters: Volatile Organic Compounds, Halogenated and Non-Halogenated

Frequency: Once per year (May)

2. Overburden Monitors :

North - 32-93-1/2/3

East - 12-91-1/2, 49-96-2/3

West - 15-91-1/2, 16-91-1/2, 17-91-1/2, 19-91

South - 13-91-1/2, 14-07, 18-91, 23-07, 25-91, 29-93, 35-93-1/2, 36-93, 37-93-1/2, 38-93, 39-93-1/2, 61-10-2

Parameters: alkalinity, conductivity, pH, COD, DOC, barium, chloride, fluoride, iron, manganese, hardness, calcium, magnesium, potassium, sodium, nitrate, nitrite, ammonia, phenols, phosphorus, sulphate, benzene, toluene, xylene, aluminium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, silver, vanadium, zinc.

Frequency: twice per year (May and October)

3. Bedrock Monitors :

20-91-1/2/3, 21-91-1/2/3, 25-96, 27-93, 28-93, 49-96-1, 55-98-1/2, 61-10-1

Parameters: alkalinity, conductivity, pH, COD, DOC, barium, chloride, fluoride, iron, manganese, hardness, calcium, magnesium, potassium, sodium, nitrate, nitrite, ammonia, phenols, phosphorus, sulphate, benzene, toluene, xylene, aluminum, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, silver, vanadium, zinc.

Frequency: twice per year (May and October)

4. Water Levels :

All monitors (excludes Residential Wells, lagoon well and office well) - 4 times per year (February, May, July, October)

5. Lagoon Wells:

(i) Overburden: 30-93, 31-93, 45-95-2, 46-95-2, 47-96-2, 48-96-2, 59-05, 60-05

(ii) Bedrock: 45-95-1, 46-95-1, 47-96-1, 48-96-1

Parameters: alkalinity, conductivity, pH, COD, DOC, barium, chloride, fluoride, iron, manganese, hardness, calcium, magnesium, potassium, sodium, nitrate, nitrite, ammonia, phenols, phosphorus, sulphate, benzene, toluene, xylene, aluminium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, silver, vanadium, zinc.

Frequency: twice per year (May and October)

SCHEDULE "B.2"

This Schedule "B.2" forms part of this Approval.

GROUNDWATER MONITORING PROGRAM - LANDFILL EXPANSION

Well Identification	Hydrogeologic Unit Monitored	Sample Parameters (Schedule D)	Sampling Frequency (per year)
32-93-1	silty sand till	Indicator	2 x 1 x

		Comprehensive	
32-93-2	silty sand till	Indicator Comprehensive	2 x 1 x
32-93-3	silty sand till	Indicator Comprehensive	2 x 1 x
43-93-1	overburden	Indicator Comprehensive	2 x 1 x
43-93-2	overburden	Indicator Comprehensive	2 x 1 x
44-93-1	sandy silt till	Indicator Comprehensive	2 x 1 x
44-93-2	sandy silt till	Indicator Comprehensive	2 x 1 x
45-93	silty sand to sandy silt till	Indicator Comprehensive	2 x 1 x
11-90	limestone bedrock	Indicator Comprehensive	2 x 1 x
53-98	limestone bedrock	Indicator Comprehensive	2 x 1 x
55-98-1/2	limestone bedrock	Indicator Comprehensive	2 x 1 x
58-02-1	Overburden	Indicator Comprehensive	2 x 1 x
57-02-2	Overburden	Indicator Comprehensive	2 x 1 x
61-10-1	Bedrock	Indicator Comprehensive	2 x 1 x
61-10-2	Overburden	Indicator Comprehensive	2 x 1 x
61-17-1	Bedrock	Indicator Comprehensive	2 x 1 x
62-17-1	Bedrock	Indicator Comprehensive	2 x 1 x
62-17-2	Bedrock	Indicator Comprehensive	2 x 1 x
62-17-3	Bedrock	Indicator Comprehensive	2 x 1 x

1. Water levels to be measured at the time of sampling at all monitoring locations.

SCHEDULE "C"

This Schedule "C" forms part of this Approval.

LEACHATE QUALITY AND QUANTITY MONITORING

Existing Fill Area:

Location	Parameters	Frequency
<i>Quality:</i>		
Existing Leachate Pumping Chamber	conductivity, chloride, nitrate, nitrite, ammonia, TKN, sulphate, barium, iron, lead, cadmium, chromium, BOD, COD, DOC, phenols, phosphorus, benzene, toluene, xylene	Monthly (unless samples collected in accordance with the Lindsay WPCP OWRA ECA of Approval are available as surrogates)
Existing Leachate Pumping Chamber	arsenic, boron, free cyanide, fluoride, mercury, NTA, pesticides, radionuclides, selenium, silver, trihalomethanes	Twice per year (May and October)
<i>Quantity:</i>		
Existing Leachate Pumping Chamber	flow volume	continuous

North Expansion Fill Area:

Location	Parameters	Frequency
<i>Quality:</i>		
North Expansion Leachate Pumping Chamber	Comprehensive List in Schedule "D"	Annual
North Expansion Leachate Pumping Chamber	Indicator List in Schedule "D"	Twice per year
<i>Quantity:</i>		
North Expansion Leachate Pumping Chamber	flow volume	continuous

Leachate heads acting on the composite liner in the north expansion fill area shall be monitored **three (3) times per year** using **vibrating wire piezometers (VWPs)** installed on the liner surface at eight locations shown on Map 7-2, Proposed Leachate Monitoring Locations, Golder Associates, September 2001 (Item 37(a) in Schedule "A").

SCHEDULE "D"

This Schedule "D" forms part of this Approval.

GROUNDWATER AND LEACHATE MONITORING PARAMETERS

Comprehensive List	Indicator List
<i>Inorganics</i> Alkalinity, Ammonia-N, Arsenic, Barium, Boron, Cadmium, Calcium, Chloride, Chromium, Conductivity (lab), Conductivity (field), Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nitrate, Nitrite, Total Kjeldahl Nitrogen (TKN), pH (lab), pH (field), Total Phosphorus, Potassium, Sodium, Suspended Solids (Leachate Only), Total Dissolved Solids (TDS), Sulphate, Zinc.	Alkalinity, Ammonia-N, Barium, Boron, Calcium, Chloride, Conductivity (lab), Conductivity (field), Iron, Magnesium, Nitrate, pH (lab), pH (field), Sodium, Suspended Solids (Leachate Only), Total Dissolved Solids (TDS), Sulphate

<i>Volatile Organics</i> Benzene, 1,4 Dichlorobenzene, Dichloromethane, Toluene, Vinyl Chloride	
<i>Other Organics</i> Biochemical Oxygen Demand (BOD ₅), Chemical Oxygen Demand (COD), Dissolved Organic Carbon (DOC), Phenols, PCBs	Biochemical Oxygen Demand (BOD ₅), Chemical Oxygen Demand (COD), Dissolved Organic Carbon (DOC)

SCHEDULE "E"

This Schedule "E" forms part of this Approval.

SURFACE WATER MONITORING PROGRAM

Stations	Parameters	Frequency
<i>Drainage Ditches:</i> SW1, SW2, SW3, SW4, SW14, SW15, SW16, SW18	conductivity, pH, alkalinity, hardness, COD, chloride, fluoride, nitrite, nitrate, total phosphorus, sulphate, calcium, sodium, potassium, iron, manganese, phenols, DOC, ammonia, in situ dissolved oxygen, in situ temperature, in situ conductivity, in situ pH, aluminium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, zinc, antimony, arsenic, selenium, suspended solids, turbidity	Four (4) times per year - samples shall be collected within 12 hours of the first rainfall greater than 15 mm, starting from February 1, May 15, August 1, and October 1
<i>Upgradient and Downgradient:</i> SW13, SW14, Scugog River (1 upgradient, 1 downgradient)	conductivity, pH, alkalinity, hardness, COD, chloride, fluoride, nitrite, nitrate, total phosphorus, sulphate, calcium, sodium, potassium, iron, manganese, phenols, DOC, ammonia, in situ dissolved oxygen, in situ temperature, in situ conductivity, in situ pH, aluminium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, zinc, antimony, arsenic, selenium, suspended solids, turbidity	Four (4) times per year - samples shall be collected within 12 hours of the first rainfall greater than 15 mm, starting from February 1, May 15, August 1, and October 1
SW3, SW13, SW14, SW18 Scugog River (1 upgradient, 1 downgradient)	Volatile Organic Compounds, Halogenated and Non-Halogenated (refer to Schedule E.1)	Biannual (every two years)
CP #1, CP#2	pH (field), Magnesium, Aluminum, pH (lab), Potassium, Boron, Temperature(field), Sodium,	Twice per year during the spring and late summer/early fall.

	Cadmium, Conductivity (field), Dissolved Organic Carbon, Chromium, Conductivity (lab), Thallium, Cobalt, Total Alkalinity (as CaCO ₃), Chemical Oxygen Demand, Copper, Total Dissolved Solids, Ammonia, Iron, Strontium, Phosphorus (Total), Lead, Hardness, Total Kjeldahl Nitrogen, Manganese, Chloride, Phenols Nickel, Sulphate, Mercury, Vanadium, Nitrate, Arsenic, Zinc, Nitrite, Barium, Antimony, Calcium, Fluoride, Beryllium, Molybdenum, Selenium, Silver, Tannins and Lignins	
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1. All surface water monitoring locations, except for CP#1 and CP#2 appearing in Schedule E shall be sampled for total PCBs every three (3) years, with the exception of SW13 and SW3 which shall be sampled for total PCBs Four (4) times per year.

Should concentrations of total PCBs at SW3 or SW13 exceed 0.001 mg/L then the Owner shall sample all stations in Schedule E for total PCBs for two (2) consecutive sampling events. Should the Owner find exceedances of 0.001 mg/L total PCB in any samples in the following sampling events the District Office should be notified.

2. For surface water sampling station locations, see Map 7-3, Final Stormwater Ditches, Catchment Areas and Surface Water Monitoring Locations, and Map 7-4, Scugog River Surface Water Sampling Stations (from Items 28(c) and 35(m) in Schedule "A")

3. Tannins and Lignins are to be included in the analytical parameters for SW14 and SW18.

Schedule E.1

This Schedule "E.1" forms part of this Approval.

Analytical Test Group Name	Parameters
Volatiles, Halogenated	1,1,2,2-Tetrachloroethane, 1,1,2- Trichloroethane, 1,1-Dichloroethane, 1,1- Dichloroethylene, 1,2-Dichlorobenzene, 1,2- Dichloroethane (Ethylene Dichloride), 1,2- Dichloropropane, 1,3-Dichlorobenzene, 1,4- Dichlorobenzene, Bromoform, Bromomethane, Carbon tetrachloride, Chlorobenzene, Chloroform, Chloromethane, Cis-1,3-Dichloropropylene, Dibromochloromethane, Ethylene Dibromide, Methylene Chloride, Tetrachloroethylene (Perchloroethylene), Trans-1,2- Dichloroethylene, Trans-1,3- Dichloropropylene, Trichloroethylene, Trichlorofluoromethane, Vinyl chloride

Volatiles, Non-Halogenated	(Chloroethylene)
	Benzene, Styrene, Toluene, o-Xylene, m-Xylene and p-Xylene (Note 1)

Schedule E.1: Analytical Test Groups and Parameters

Note 1: m-Xylene and p-Xylene often co-elute in the analysis. A single combined result may be reported as m-Xylene.

SCHEDULE "F"

This Schedule "F" forms part of this Approval.

LANDFILL GAS MONITORING

Monitoring Probe (see Map 9-1, Landfill Gas Management and Monitoring System - Item 35(m) in Schedule "A")	Parameters	Frequency
<u>Existing:</u>		
12-91, 13-91, 14-91, 16-91, 17-91, 6-90-R1, 7-90-R1, 33-93	methane concentration	monthly during frozen ground conditions and quarterly otherwise
<u>Proposed:</u>		
GP1, GP2, GP3, GP4, GP5, GP6, GP7, GP8, GP9, GP10	methane concentration	monthly during frozen ground conditions and quarterly otherwise

SCHEDULE "G"

This Schedule "G" forms part of this Approval.

LEACHATE COLLECTION AND DISPOSAL SYSTEM MONITORING

For the purposes of this monitoring program, the following definitions apply:

- (a) Monthly means once every month;
- (b) Quarterly means once every three months;
- (c) Semi-annually means once every six months; and
- (d) Annually means once every twelve months.

Table 1 - Leachate Monitoring
Sampling Location: Leachate Pumping Station No. 1 Chamber

Parameters	Frequency	Parameters	Frequency
(Ammonia + Ammonium) N	Monthly	Arsenic	Semi-annually
Barium	Monthly	Boron	Semi-annually
Benzene	Monthly	Cyanide (Free)	Semi-annually
CBOD ₅	Monthly	Fluoride	Semi-annually
Cadmium	Monthly	Mercury	Semi-annually
Chloride	Monthly	NTA	Semi-annually
Chromium	Monthly	Pesticides	Semi-annually
COD	Monthly	Radionuclides	Semi-annually
Conductivity	Monthly	Selenium	Semi-annually
DOC	Monthly	Silver	Semi-annually
Iron	Monthly	Trihalomethanes	Semi-annually
Lead	Monthly		
Nitrates as N	Monthly		
Nitrites as N	Monthly		
Phenols	Monthly		
Phosphorus	Monthly		
Sulphate	Monthly		
Toluene	Monthly		
Total Kjeldahl Nitrogen (TKN)	Monthly		
Xylene	Monthly		

Table 2 - Leachate Monitoring Sampling Location: Leachate Pumping Station No. 2 Chamber			
Parameters	Frequency	Parameters	Frequency
Arsenic	Annually	Alkalinity	Semi-annually
Cadmium	Annually	(Ammonia + Ammonium) N	Semi-annually
Chromium	Annually	Barium	Semi-annually
Copper	Annually	Boron	Semi-annually
Lead	Annually	Calcium	Semi-annually
Manganese	Annually	Chloride	Semi-annually
Mercury	Annually	Conductivity	Semi-annually
Nitrite	Annually	Iron	Semi-annually
Total Kjeldahl Nitrogen	Annually	Magnesium	Semi-annually
Total Phosphorus	Annually	Nitrate	Semi-annually
Potassium	Annually	pH (Lab)	Semi-annually
Zinc	Annually	pH (Field)	Semi-annually
Benzene	Annually	Sodium	Semi-annually
1,4 Dichlorobenzene	Annually	Suspended Solids	Semi-annually
Dichloromethane	Annually	Total Dissolved Solids	Semi-annually
Toluene	Annually	Sulphate	Semi-annually
Vinyl Chloride	Annually	Biochemical Oxygen Demand (CBOD5)	Semi-annually
Phenols	Annually	Chemical Oxygen Demand	Semi-annually
PCBs	Annually	Dissolved Organic Carbon	Semi-annually

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

The reason for Conditions 1.1 and 1.2 is 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.

The reason for Conditions 1.3, 1.4, 1.5, 1.9, 1.10, 1.11, 1.12 and 1.13 is to clarify the legal rights and responsibilities of the Owner under this Approval of Approval.

Conditions 1.6 and 1.7 are included to ensure that the appropriate Ministry staff have ready access to information and the operations of the Site, which are approved under this Approval.

Condition 1.8 has been included in order to clarify what information may be subject to the Freedom of Information Act.

Conditions 1.14 to 1.17 inclusive are included, pursuant to subsection 197(1) of the EPA, The reason for Conditions 1(18) and 1(19) is that the Part II.1 Director is an individual with authority pursuant to Section 197 of the Environmental Protection Act to require withdrawal of registration on the title and provide any person with an interest in property before dealing with the property in any way to give a copy of the Approval to any person who will acquire an interest in the

property as a result of the dealing.

The reasons for Condition 1.18 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 ECA of Approval.

The reasons for Conditions 1.19 and 1.20 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.

The reason for Condition 1.21 is to ensure that appropriate Ministry staff have ready access to the Site for inspection of facilities, equipment, practices and operations required by the conditions in this ECA of Approval. This condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the EPA and OWRA.

The reasons for the conditions 1.22 to 1.24 are to ensure the Design and Operations Report is maintained, up-to-date and available at the Site at all times and to ensure that any changes to the Report are done with prior approval from the Ministry.

The reasons for Conditions 2.1 to 2.6 is to ensure that the Site is designed, constructed and operated in an environmentally acceptable manner, based on the conceptual design and operations for the Site.

The reason for Condition 2.7 is to ensure the availability of as-built drawings for inspection and information purposes.

The reasons for Conditions 2.8, 2.9, 2.10, 2.11, 2.12, 2.15, 2.16 and 2.17 are to ensure that the engineered facilities are properly installed and constructed to meet the design specifications and performance objectives.

The reasons for Conditions 2.13 and 2.14 are to ensure the Ministry is updated on construction progress and to ensure the long-term protection of the health and safety of the public and the environment;

The reasons for Conditions 2.18 and 2.19 are to ensure that preparation and construction within a new landfill cell proceeds in accordance with approved detailed design plans, technical specifications and QA/QC activities and procedures.

The reasons for Conditions 2.20 and 2.21 are to expedite and monitor the waste settling process prior to placement of the GCL, geomembrane and leachate collection system for the north expansion fill area on the common north slope.

The reasons for Conditions 3.1 and 3.2 is for approving the detailed design for Cell 1, Cell 2, Cell3 and Cell 6 and the ancillary facilities associated with landfill expansion and to allow the Owner to develop and operate the landfill site expansion in accordance with the approved final detailed design.

The reason for Condition 3.3 is to ensure the gas collection and flaring system shall be built and operated as per the submission and supporting documentation.

The reasons for Condition 3.4 are to ensure the Owner has plans in place during the construction of the system to address potential off-site impacts and construction timing.

The reason for Condition 3.5 is to ensure the Owner documents the construction activities and provides this information in a report to the District Manager.

The reasons for Condition 3.6 are to ensure the proper maintenance of the gas collection system and the District Manager is informed of any changes to the gas wells.

The reason for Conditon 3.7 is to approve the leachate collection and disposal system.

The reason for Conditions 4.1 is to ensure that waste disposal at the site is undertaken in accordance with applicable Ministry regulations, and the approved documents incorporated into this Approval. Compliance with these regulations and guidelines and an organized operation will ensure that the site does not cause and adverse effect on the environment.

The reason for Conditions 4.2, 4.3 and 4.4 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.

The reason for Conditions 4.5, 4.6, 4.7 and 4.8 is to specify restrictions on the extent of landfilling at this Site based on the Owner's application and supporting documentation. These limits define the approved volumetric capaOwner of the site.

The reason for Conditions 4.9 to 4.11 is to ensure only waste approved by this Approval ia accepted at the Site.

The reasons for Condition 4.12 is to accommodate the pre-loading and to allow for settling of the north slope area of the existing fill area by landfilling in a north-south direction within the north expansion fill area.

The reasons for Conditions 4.13 to 4.16 are to specify the normal hours of operation for the landfill Site and a mechanism for amendment of the hours of operation.

The reasons for Conditions 4.17 and 4.19 are to ensure that users of the Site are fully aware of important information and restrictions related to Site operations under this ECA of Approval.

The reason for Conditions 4.2 to 4.26 are to ensure that the Site is operated in an environmentally acceptable manner for protection of the natural environment and public health and safety.

The reasons for Conditions 4.27, 4.28, 4.29, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35 and 4.36 are to minimize and control the use of the landfill Site by gulls with the goal to prevent the potential for gull/aircraft interaction.

The reason for Condition 4.37 is to ensure de-icing operations at the site do not impact the environmental monitoring program.

The reason for Condition 4.38 is to ensure the Owner is aware of their responsibility for ensuring regarding spillages at the Site.

The reason for Conditions 4.39 to 4.41 are to ensure that landfill gas generated at this Site is managed in an environmentally acceptable manner.

The reason for Condition 4.43 is to ensure protection of the composite liner and leachate collection system in the north expansion fill area.

The reasons for Condition 4.42 are to minimize the potential for clogging of the leachate drainage layer and to minimize temperature effects on the leachate collection system. Failure to maintain the specified minimum thickness of waste and cover material may result in a decrease in the service life of the drainage layer.

The reason for Condition 4.45 and 4.47 are to ensure that leachate generated at this Site is disposed of in an environmentally acceptable manner.

The reason for Condition 4.44 is to ensure that noise from landfill operations are controlled to minimize any impacts to receptors.

The reason for Condition 4.49 is to determine the current and projected leachate quality and quantity generated at this Site and landfilling proceeds, and to implement an appropriate long-term leachate management plan for this Site.

The reason for Conditions 4.48, 4.49 and 4.50 is to ensure that surface water and stormwater is managed in an environmentally acceptable manner.

The reason for Condition 4.51 is to ensure procedures are in place to protect features

of the landfill are protected during construction of the cells.

The reason for Condition 4.52 is to ensure the Owner can record weather conditions at the Site for the records and to assist in managing nuisances at the Site (Litter Control).

The reason for Condition 5.1 is to specify the waste type that may be accepted at the Site for disposal and processing and transfer, based on the Owner's application and supporting documentation.

The reason for Condition 5.2 is to ensure that waste disposal at the site is undertaken in accordance with applicable Ministry of the Environment regulations, and the approved documents incorporated into this Approval. Compliance with these regulations and guidelines and an organized operation will ensure that the site does not cause and adverse effect on the environment.

The reason for Conditions 5.3 is to ensure the Owner is fully aware the burning of waste at the Site is not permitted and that open burning of waste is unacceptable because of concerns with air emissions, smoke and other nuisance affects, and the potential fire hazard.

The reason for Condition 5.4, 5.5 and 5.6 are to specify restrictions on the extent of landfilling at this Site based on the Owner's application and supporting documentation. These limits define the approved volumetric capacity of the site. Approval to landfill beyond these limits would require an application with supporting documentation submitted to the Director.

The reasons Conditions 5.7, 5.8, 5.9, 5.10, 5.11, and 5.12 have been included are to ensure asbestos waste is handled and disposed of in accordance with O. Reg. 347 as amended from time to time. Proper handling and disposal of asbestos waste ensures that the asbestos waste does not cause an adverse impact on the environment and also does not affect human health.

The reason for Condition 5.13 is to specify the approval requirements for use of alternative cover material at the Site.

The reason for Condition 5.14 is to approved alternative daily covers for the Site.

The reason for Condition 5.15 is to ensure the Owner monitors leachate at the Site.

The reason for Conditions 5.16 is to ensure the leachate collections system operates in an environmental protection manner.

The reasons for Conditions 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8 and 6.9 are to ensure

that these facilities are operated in an environmentally acceptable manner for the protection of the natural environment and public health and safety.

The reason for Conditions 7.1, 7.2, 7.3, 7.4 and 7.5, are to ensure that accurate waste records are maintained to ensure compliance with the conditions in this ECA of Approval (such as fill rate, site capacity, record keeping, annual reporting, and financial assurance requirements), the EPA and its regulations. Record keeping is necessary to determine compliance with this ECA of Approval, the EPA and its regulations.

The reason for Condition 8.1 is to establish 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.

The reasons for Conditions 9.1, 9.2, 9.3 and 9.4 are to ensure that the Ministry is informed of any spills or fires at the Site and to provide public health and safety and environmental protection.

The reasons for Conditions 10.1, 10.2, 10.3, 10.4 and 10.5 are to ensure protection of the natural environment and the integrity of the groundwater monitoring network.

The reason for Conditions 10.6, 10.7, 10.8, 10.9, 10.10, 10.11, 10.12, 10.13 and 10.14 are to demonstrate that the landfill 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.

Conditions 10.15 to 10.17 are included to streamline the approval of the changes to the monitoring plan.

The reason for Conditions 11.1, 11.2 and 11.3 are to ensure that the Owner follows a plan with an organized set of procedures for identifying and responding to unexpected but possible problems at the Site. A remedial action / contingency plan is necessary to ensure protection of the natural environment. A leachate contingency plan is a specific requirement of Reg. 232.

The reason for Conditions 12.1 through 12.4 are to ensure that monitoring and reporting mechanisms are in place so that the Scugog River wetland and ecosystem are not adversely affected by landfill leachate.

The reason for Conditions 13.1, 13.2, 13.3 and 13.4 are to establish and maintain a forum for the exchange of information and public dialogue on activities to be 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.

The reason for Condition 14.1 is to ensure that the Site is operated by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person.

The reasons for Condition 15.1 is 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 annual report is an important tool used in reviewing site activities and for determining the effectiveness of site design.

The reasons for Conditions 16.1 is to ensure that final closure of the Site is completed in an aesthetically pleasing manner and to ensure the long-term protection of the natural environment.

The reason for Condition 16.2 is to ensure proper public consultation about the end use of the Site is undertaken and that the end use activities are consistent with those identified during the EA process.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A321504 issued on October 27, 2025

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me and the Ontario Land 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 ("the Notice") shall state:

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

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:

1. The name of the appellant;
2. The address of the appellant;

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

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

This Notice must be served upon:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

and

The Director appointed for the purposes of Part II.1
of the *Environmental Protection Act*
Ministry of the Environment, Conservation and
Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or www.oltt.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 16th day of February,
2026

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

AQ/
c: District Manager, MECP Peterborough
Ishrak Hasan, WSP Canada Inc.