Appendix A.5

Environmental Compliance Approval No. 1688-8HZNJG, issued January 10, 2012
Waste Management Canada Corporation  
1271 Beechwood Rd  
Rural Route, No. 6  
Napanee, Ontario  
K7R 3L1

Site Location: Richmond Landfill Site  
1271 Beechwood Road, Parts of Lots 1,2, &3, Concession 4, Richmond  
Greater Napanee Town, County of Lennox and Addington

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:

leachate collection and disposal facility and stormwater management facility to service the Richmond Landfill Site located on Parts of Lots 1, 2 and 3, Concession 4, in the Town of Greater Napanee as follows:

SEWAGE WORKS APPROVED ON AUGUST 19, 2008:

Stormwater Management Pond - SWM Pond No. 3

a new stormwater management facility located south of the approved landfill footprint and north of Beechwood Road to service 20 ha drainage area of the Richmond Landfill Site, designed to provide quantity and quality control of stormwater runoff from storm events up to 1:100 return frequency consisting of the following:

- two (2) extended wet detention ponds interconnected by two (2) 750 mm diameter culverts providing a permanent pool storage capacity (including sediment storage) of 19,642 m$^3$ between the elevations of 122.4 m ASL and 124.4 m ASL and active storage capacity of 7,620 m$^3$ between the elevations of 124.4 m ASL and 124.73 m ASL (overall total storage capacity of 27,262 m$^3$);

- each detention pond equipped with a rip rap lined inlet structure, a forebay, and cattails planted in the shallow areas surrounding the permanent pool;
• an outlet structure consisting of one (1) 600 mm x 600 mm precast concrete catch basin equipped with a 100 mm diameter inlet orifice, one (1) 300 mm diameter PVC discharge pipe equipped with one (1) 300 mm diameter gate valve, discharging through a drainage ditch to the Beechwood Road side ditch eventually flowing to Marysville Creek;

• one (1) 3.0 m wide rip rap lined emergency spillway with an invert elevation of 124.73 m ASL, discharging through a drainage ditch to the Beechwood Road side ditch; and

• including all controls and associated appurtenances.

all in accordance with the Application for Approval of Industrial Sewage Works submitted by Waste Management of Canada Corporation dated April 11, 2008, drawings and design specification prepared by Henderson Paddon & Associates Limited, Owen Sound, Ontario and the document listed in Schedule 'B'.

EXISTING LEACHATE MANAGEMENT FACILITY:

• one (1) approximately 504 m long 200 mm diameter perforated PVC or HDPE perimeter leachate collector pipe, installed in a 50 mm clear stone bedding wrapped in geotextile, extending through seven (7) 1200 mm diameter pre-cast concrete service manholes (MH12, MH11, MH10, MH9, MH8, MH7 and MH1) along the west side and north side of landfill footprint discharging to a 22.3 m³ capacity North Concrete Pumping Chamber which is not equipped with pumps;

• one (1) approximately 429 m long 150 mm diameter perforated PVC perimeter leachate collector pipe, installed in a 50 mm clear stone bedding wrapped in geotextile, extending through six (6) 1200 mm diameter pre-cast concrete service manholes (MH6, MH5, MH4, MH3, MH2 and MH1) along the east side and north side of landfill footprint discharging to a 22.3 m³ capacity North Concrete Pumping Chamber which is not equipped with pumps;

• one (1) approximately 393 m long 200 mm diameter perforated PVC perimeter leachate collector pipe, installed in a 50 mm clear stone bedding wrapped in geotextile, extending along the west side and south side of landfill footprint discharging to a leachate pumping station described below;

• one (1) approximately 296 m long 200 mm diameter perforated PVC perimeter leachate collector pipe, installed in a 50 mm clear stone bedding wrapped in geotextile, extending along the east side and south side of landfill footprint discharging to a leachate pumping station described below;

• one (1) side slope riser leachate pumping station equipped with two (2) 80 USGPM capacity submersible pumps and a sump with bottom dimension of 2 m x 2 m filled with 50 mm gravel, discharging to a leachate lagoon described below;
• one (1) 16,245 m$^3$ storage capacity leachate lagoon, lined with clay and HDPE synthetic liner, located north of the landfill footprint used for temporary storage of leachate or leachate contaminated stormwater until dispose off site to a pre-approved sewage treatment plant;

• one (1) leachate storage lagoon located west of the landfill footprint used for collecting leachate and stormwater runoff from a composting facility until it is used for composting operations or disposed off-site to a pre-approved sewage treatment plant;

• including all controls and associated appurtenances.

SEWAGE WORKS APPROVED ON OCTOBER 21, 1991:

**Stormwater Management Pond - SWM Pond No. 1**

A stormwater management pond constructed on a site approximately 750 m north of Beechwood Road and north of the fill area for a 25 year design storm having a minimum storage volume of 228 m$^3$ to retain surface runoff from an area of 3.38 ha (consisting of fill area) and to discharge at a rate of 70 L/s via a 375 mm diameter outlet pipe (fitted to a drop inlet pipe structure) to a Headwater Tributary of Marysville Creek (Intermittent), together with a drawdown structure, a 1200 mm diameter drop inlet pipe, a 3.5 m wide emergency spill-way channel, rock baffle, erosion and silt control protection;

**Stormwater Management Pond - SWM Pond No. 2**

A stormwater management pond constructed on a site approximately 750 m north of Beechwood Road and northwest of the fill area for a 25 year design storm having a minimum storage volume of 332 m$^3$ to retain surface runoff from an area of 4.94 ha (consisting of fill area) and to discharge at a rate of 103 L/s via a 375 mm diameter outlet pipe (fitted to a drop inlet pipe structure) to a Headwater Tributary of Marysville Creek (Intermittent), together with a drawdown structure, a 1200 mm diameter drop inlet pipe, a 3.5 m wide emergency spill-way channel, rock baffle, erosion and silt control protection;

all in accordance with the information submitted by Henderson Paddon and Associates Limited Consulting Engineers and the following documents listed in Schedule 'A'.

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

“Approval” means this Environmental Compliance Approval and any schedules attached to it, and the application.

“By-pass” means any discharge from the Works that does not undergo any treatment before it is discharged to the environment;
"Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA.

"District Manager" means the District Manager of the Kingston District Office;

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

"Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf.

"Owner" means Waste Management of Canada Corporation and its successors and assignees;

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

"Substantial Completion" has the same meaning as "substantial performance" in the Construction Lien Act; and

"Works" means the sewage works described in the Owner’s application, this Approval and in the supporting documentation referred to herein, to the extent approved by this Approval.

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

TERMS AND CONDITIONS

I - GENERAL

1. GENERAL PROVISIONS

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

(2) Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this Approval.

(3) Where there is a conflict between a provision of any submitted document referred to in this Approval and the Conditions of this Approval, the Conditions in this Approval shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.
(4) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The requirements of this Approval are severable. If any requirement of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this Approval shall not be affected thereby.

2. EXPIRY OF APPROVAL

The approval issued by this Approval will cease to apply to those parts of the Works which have not been constructed by August 19, 2013.

3. CHANGE OF OWNER

(1) The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within 30 days of the change occurring:

(a) change of Owner;

(b) change of address of the Owner;

(c) change of 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. B17 shall be included in the notification to the District Manager;

(d) change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager.

(2) In the event of any change in ownership of the Works, 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 forwarded to the District Manager and the Director.

4. UPON THE SUBSTANTIAL COMPLETION OF THE WORKS

(1) Within one year of the Substantial Completion of the Works, a set of as-built drawings showing the works “as constructed” shall be prepared. These drawings shall be kept up to date
through revisions undertaken from time to time and a copy shall be retained at the Works or at operational office of the Owner for the operational life of the Works.

5. **BY-PASSES**

   (1) Any By-pass of sewage from any portion of the Works is prohibited, except where:

   (a) it is necessary to avoid loss of life, personal injury, danger to public health or severe property damage;

   (b) the District Manager agrees that it is necessary for the purpose of carrying out essential maintenance and the District Manager has given prior written acknowledgment of the By-pass; or

   (2) The Owner shall maintain a logbook of all By-pass events which shall include, at a minimum, the time, location, duration, quantity of By-pass, the authority for By-pass pursuant to subsection (1), and the reasons for the occurrence.

II - **LEACHATE COLLECTION AND DISPOSAL SYSTEM**

6. **LEACHATE MONITORING AND RECORDING**

The Owner shall, upon commencement of operation of the Works, carry out the following monitoring program:

   (1) 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 the leachate stream over the time period being monitored.

   (2) For the purposes of this condition, 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;

   (3) **Leachate grab samples** shall be collected from a designated sampling location at the indicated
monitoring frequency and analyzed for each parameter listed in Table 1 and all results recorded:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Parameter</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkalinity</td>
<td>Arsenic</td>
<td>Silver</td>
</tr>
<tr>
<td>Dissolved Organic Carbon (DOC)</td>
<td>Cadmium</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Hardness</td>
<td>Chromium</td>
<td>Boron</td>
</tr>
<tr>
<td>pH</td>
<td>Cobalt</td>
<td>Barium</td>
</tr>
<tr>
<td>Total Ammonia Nitrogen</td>
<td>Copper</td>
<td>Beryllium</td>
</tr>
<tr>
<td>Nitrate Nitrogen</td>
<td>Mercury</td>
<td>Calcium</td>
</tr>
<tr>
<td>Nitrite Nitrogen</td>
<td>Molybdenum</td>
<td>Sodium</td>
</tr>
<tr>
<td>Total Kjeldahl Nitrogen</td>
<td>Nickel</td>
<td>Magnesium</td>
</tr>
<tr>
<td>Phenols</td>
<td>Lead</td>
<td>Manganese</td>
</tr>
<tr>
<td>PAHs</td>
<td>Selenium</td>
<td>Iron</td>
</tr>
<tr>
<td>USEPA 624</td>
<td>Zinc</td>
<td>Total Phosphorus</td>
</tr>
<tr>
<td>Conductivity</td>
<td>Hydrogen Sulphide</td>
<td></td>
</tr>
<tr>
<td>Sulphate</td>
<td>BOD5</td>
<td>Total Trihalomethanes (THM)</td>
</tr>
</tbody>
</table>

(4) The methods and protocols for sampling, 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;

(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; and

(d) the Environment Canada publications "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout" (July 1990) and "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Daphnia
magna" (July 1990), as amended from time to time by more recently published editions.

(5) 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 this Approval.

7. OPERATION AND MAINTENANCE

(1) The Owner shall exercise due diligence in ensuring that, at all times, the Works 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 operator training, including training in all procedures and other requirements of this Approval and the Act and regulations, process controls and alarms.

(2) By February 19, 2009, the Owner shall prepare an operations manual, that includes, but not necessarily limited to, the following information:

(a) operating procedures for routine operation of the Works;

(b) inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the Works;

(d) procedures for the inspection and calibration of monitoring equipment;

(e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the District Manager; and

(f) procedures for receiving, responding and recording public complaints, including recording any follow up actions taken.

(3) The Owner shall maintain the operations manual current and retain a copy at the Works or Owner’s Head Office for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

(4) The Owner shall maintain a logbook to record and report the volume of leachate disposed off-site, the date, and the name of the receiving sewage treatment plant;
III - STORMWATER MANAGEMENT FACILITY

8. MONITORING AND RECORDING

The Owner shall carry out the following monitoring program:

(1) 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 the effluent stream over the time period being monitored.

(2) The Owner shall collect stormwater grab samples from the following designated sampling locations at a monthly sampling frequency during spring and fall (March, April, May, September, October, and November) and analyse for the parameters listed in Table 2;

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Parameter</th>
<th>Field Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Aluminum</td>
<td>pH</td>
</tr>
<tr>
<td>Alkalinity</td>
<td>Arsenic</td>
<td>Temperature</td>
</tr>
<tr>
<td>Hardness</td>
<td>Barium</td>
<td>Conductivity</td>
</tr>
<tr>
<td>Biological Oxygen Demand (CBOD5)</td>
<td>Boron</td>
<td></td>
</tr>
<tr>
<td>Un-ionized Ammonia</td>
<td>Cobalt</td>
<td></td>
</tr>
<tr>
<td>Total Ammonia Nitrogen</td>
<td>Beryllium</td>
<td></td>
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<tr>
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<td>Cadmium</td>
<td></td>
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<tr>
<td>Nitrate Nitrogen</td>
<td>Chromium</td>
<td></td>
</tr>
<tr>
<td>Total Phosphorus</td>
<td>Copper</td>
<td></td>
</tr>
<tr>
<td>Total Suspended Solids</td>
<td>Iron</td>
<td></td>
</tr>
<tr>
<td>Total Dissolved Solids</td>
<td>Mercury</td>
<td></td>
</tr>
<tr>
<td>Total Organic Carbon</td>
<td>Nickel</td>
<td></td>
</tr>
<tr>
<td>Chloride</td>
<td>Potassium</td>
<td></td>
</tr>
<tr>
<td>Chemical Oxygen Demand (COD)</td>
<td>Sodium</td>
<td></td>
</tr>
<tr>
<td>Phenols</td>
<td>Selenium</td>
<td></td>
</tr>
<tr>
<td>BTEX</td>
<td>Silver</td>
<td></td>
</tr>
<tr>
<td>Naphthalene</td>
<td>Zinc</td>
<td></td>
</tr>
</tbody>
</table>

(3) The Owner shall collect stormwater grab samples from SWM Ponds No. 1, No. 2, and No. 3 sampling locations at a Quarterly frequency and conduct acute lethality tests for Daphnia magna and Rainbow Trout;

(4) The methods and protocols for sampling, analysis and recording shall conform, in order of
precedence, to the methods and protocols specified in Condition 6 (4);

(5) The measurement frequencies specified in subsection (2) in respect to any parameter are minimum requirements which may, after two (2) years of monitoring in accordance with this Condition, be modified by the District Manager in writing from time to time.

(6) 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 this Approval at the Works or Owner’s Head Office.

9. OPERATION AND MAINTENANCE

(1) Within six (6) months of the issuance date of this Approval, the Owner shall prepare a "Stormwater Contingency and Remedial Action Plan" for the Works and submit to the District Manager for approval.

(2) The Owner shall operate the Works (SWM Pond No. 1, SWM Pond No. 2, and SWM Pond No. 3) in a normally open position.

(3) Using the monitoring results obtained under Condition 8 (3), the Owner shall ensure that the stormwater runoff discharged from the Works (SWM Pond No. 1, SWM Pond No. 2, and SWM Pond No. 3) is not acutely lethal to Daphnia magna and Rainbow Trout.

(4) In the event that monitoring results obtained under Condition 8 (3) show that the stormwater is acutely lethal either to Daphnia magna or Rainbow Trout, then, the Owner shall resample within two (2) weeks period after receiving the lab results to confirm the toxicity results.

(5) In the event that the toxicity results are not confirmed during the second round of sampling conducted under Condition 9 (4), then, normal stormwater monitoring shall be resumed.

(6) In the event that the toxicity results are confirmed after the second round of sampling conducted under Condition 9 (4), the Owner shall operate the Works in a normally closed position, notify the District Manager forthwith, and conduct acute lethality tests for Daphnia magna and Rainbow Trout at a monthly frequency.

(7) While operating the Works in a normally closed position, the Owner shall implement the "Stormwater Contingency and Remedial Action Plan" prepared under Condition 9 (1) and continue conducting the toxicity monitoring program required under Condition 9 (6).

(8) The Owner shall resume operating the Works in a normally open position if toxicity monitoring results from two (2) consecutive sampling events conducted under Condition 9(6) show that the stormwater is not acutely lethal to Daphnia magna and Rainbow Trout.
(9) Discharge of contaminated stormwater from the Works to storm sewer/surface water is prohibited, except where it is necessary to avoid loss of life, personal injury, danger to public health or severe property damage;

(10) The Owner shall prepare an operations manual prior to the commencement of operation of the Works, that includes, but not necessarily limited to, the following information:

(a) operating procedures for routine operation of the Works;

(b) inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the Works;

(d) procedures for the inspection and calibration of monitoring equipment;

(e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the District Manager; and

(10) The Owner shall maintain the operations manual current and retain a copy at the Works or Owner’s Head Office for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

(11) The Owner shall maintain a record of the date and the estimated volume of leachate contaminated stormwater disposed off site under the approved "Stormwater Contingency and Remedial Action Plan" for the Works.

(12) The Owner shall notify the District Manager orally, as soon as possible, and in writing within seven days of any discharge of leachate contaminated stormwater to receiving surface water including an assessment of the relative extent of leachate contamination, estimated volume of stormwater discharged, and proposed or completed remedial actions.

(13) The Owner shall inspect the Works (SWM Ponds) at least once a year and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation.

(14) The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the site and/or Owner's operational headquarter for inspection by the Ministry. The logbook shall include the following:

(a) the name of the Works;
(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed; and

(c) the volume of contaminated stormwater disposed off-site, the date, and the name of the receiving sewage treatment plant;

#### IV - GENERAL

10. **REPORTING**

(1) Ten (10) days prior to the date of a planned *By-pass* being conducted pursuant to Condition 5 and as soon as possible for an unplanned *By-pass*, the *Owner* shall notify the *District Manager* (in writing) of the pending start date, in addition to an assessment of the potential adverse effects on the environment and the duration of the *By-pass*.

(2) In addition to the obligations under Part X of the *Environmental Protection Act*, the *Owner* shall, within 10 working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by product, intermediate product, oils, solvents, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the *District Manager* describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

(3) The *Owner* shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to *Ministry* staff.

(4) The *Owner* shall prepare on an annual basis, and submit upon request, a performance report within ninety (90) days following the end of the calendar year being reported upon. The first such report shall cover the period following the commencement of operation of the *Works* and subsequent reports shall be prepared to cover successive calendar years following thereafter. The reports shall contain, but shall not be limited to, the following information:

   (a) a summary and interpretation of all stormwater monitoring data and a comparison to the Provincial Water Quality Objectives (PWQO), including an overview of the success and adequacy of the *Works*;

   (b) a summary of the monthly quantity of leachate disposed off site and corresponding average leachate quality;

   (c) a description of any operating problems encountered and corrective actions taken;

   (d) a summary of all maintenance carried out on any major structure, equipment,
apparatus, mechanism or thing forming part of the Works; 

(e) a summary of the calibration and maintenance carried out on all leachate monitoring equipment; and 

(f) a summary of any complaints received during the reporting period and any steps taken to address the complaints; 

(g) a summary of all By-pass, spill or abnormal discharge events; and 

(h) any other information the District Manager requires from time to time.

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

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.

2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.

3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.

4. Condition 4 is included to ensure that the Works are constructed in accordance with the Approval and that record drawings of the Works “as constructed” are maintained for future references.

5. Condition 5 is included to indicate that by-passes of untreated sewage to the receiving watercourse is prohibited, save in certain limited circumstances where the failure to By-pass could result in greater injury to the public interest than the By-pass itself where a By-pass will not violate the approved leachate requirements, or where the By-pass can be limited or otherwise mitigated by handling it in accordance with an approved contingency plan. The notification and documentation requirements allow the Ministry to take action in an informed manner and will ensure the Owner is aware of the extent and frequency of By-pass events.

6. Conditions 6 and 8 are included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives specified in the Approval and that the Works does not cause any impairment to the receiving watercourse.
7. Conditions 7 and 9 are included to require that the Works be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, damage to any property or injury to any person is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner and made available to the Ministry.

8. Condition 10 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.

**SCHEDULE 'A'**


2. Report entitled "Tricil Limited Landfill site parts of Lots 1, 2 and 3, Concession IV, Township of Richmond, County of Lennox and Addington" dated September 1988, prepared by Henderson Paddon and Associates Limited.


8. Minutes of the meeting held at Ministry of the Environment, 250 Davisville Avenue, Toronto, on June 25, 1991.


**SCHEDULE 'B'**


**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 5268-7E8LJW issued on August 19, 2008**

*In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:*

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

*Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.*

*The Notice should also include:*
3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. The municipality or municipalities within which the project is to be engaged in.

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

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of the Environmental Protection Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal’s requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 10th day of January, 2012

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

SH/
c: District Manager, MOE Kingston - District
Jeff Armstrong, GENIVAR Inc.
Appendix A.6

Certificate of Approval for Industrial Sewage Works No. 5268-7E8LJW (REVOKED)
Waste Management of Canada Corporation  
117 Wentworth Crt  
Brampton, Ontario  
L6X 5L4

Site Location: Richmond Landfill Site  
1271 Beechwood Road Parts of Lots 1, 2 & 3, Concession 4, Richmond  
Greater Napanee Town, County of Lennox and Addington

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

leachate collection and disposal facility and stormwater management facility to service the Richmond Landfill Site located on Parts of Lots 1, 2 and 3, Concession 4, in the Town of Greater Napanee as follows:

PROPOSED STORMWATER MANAGEMENT FACILITY:

Stormwater Management Pond - SWM Pond No. 3

replacing the existing Stormwater Detention Pond No. 3 with a new stormwater management facility located south of the approved landfill footprint and north of Beechwood Road to service 20 ha drainage area of the Richmond Landfill Site, designed to provide quantity and quality control of stormwater runoff from storm events up to 1:100 return frequency consisting of the following:

• two (2) extended wet detention ponds interconnected by two (2) 750 mm diameter culverts providing a permanent pool storage capacity (including sediment storage) of 19,642 m$^3$ between the elevations of 122.4 m ASL and 124.4 m ASL and active storage capacity of 7,620 m$^3$ between the elevations of 124.4 m ASL and 124.73 m ASL (overall total storage capacity of 27,262 m$^3$);

• each detention pond equipped with a rip rap lined inlet structure, a forebay, and cattails planted in the shallow areas surrounding the permanent pool;
an outlet structure consisting of one (1) 600 mm x 600 mm precast concrete catch basin equipped with a 100 mm diameter inlet orifice, one (1) 300 mm diameter PVC discharge pipe equipped with one (1) 300 mm diameter gate valve, discharging through a drainage ditch to the Beechwood Road side ditch eventually flowing to Marysville Creek;

one (1) 3.0 m wide rip rap lined emergency spillway with an invert elevation of 124.73 m ASL, discharging through a drainage ditch to the Beechwood Road side ditch; and

including all controls and associated appurtenances.

all in accordance with the Application for Approval of Industrial Sewage Works submitted by Waste Management of Canada Corporation dated April 11, 2008, drawings and design specification prepared by Henderson Paddon & Associates Limited, Owen Sound, Ontario and the following documents:


EXISTING LEACHATE MANAGEMENT FACILITY:

one (1) approximately 504 m long 200 mm diameter perforated PVC or HDPE perimeter leachate collector pipe, installed in a 50 mm clear stone bedding wrapped in geotextile, extending through seven (7) 1200 mm diameter pre-cast concrete service manholes (MH12, MH11, MH10, MH9, MH8, MH7 and MH1) along the west side and north side of landfill footprint discharging to a 22.3 m³ capacity North Concrete Pumping Chamber which is not equipped with pumps;

one (1) approximately 429 m long 150 mm diameter perforated PVC perimeter leachate collector pipe, installed in a 50 mm clear stone bedding wrapped in geotextile, extending through six (6) 1200 mm diameter pre-cast concrete service manholes (MH6, MH5, MH4, MH3, MH2 and MH1) along the east side and north side of landfill footprint discharging to a 22.3 m³ capacity North Concrete Pumping Chamber which is not equipped with pumps;

one (1) approximately 393 m long 200 mm diameter perforated PVC perimeter leachate collector pipe, installed in a 50 mm clear stone bedding wrapped in geotextile, extending along the west side and south side of landfill footprint discharging to a leachate pumping station described below;

one (1) approximately 296 m long 200 mm diameter perforated PVC perimeter leachate collector pipe, installed in a 50 mm clear stone bedding wrapped in geotextile, extending along the east side and south side of landfill footprint discharging to a leachate pumping station described below;
• one (1) side slope riser leachate pumping station equipped with two (2) 80 USGPM capacity submersible pumps and a sump with bottom dimension of 2 m x 2 m filled with 50 mm gravel, discharging to a leachate lagoon described below;

• one (1) 16,245 m³ storage capacity leachate lagoon, lined with clay and HDPE synthetic liner, located north of the landfill footprint used for temporary storage of leachate or leachate contaminated stormwater until dispose off site to a pre-approved sewage treatment plant;

• one (1) leachate storage lagoon located west of the landfill footprint used for collecting leachate and stormwater runoff from a composting facility until it is used for composting operations or disposed off-site to a pre-approved sewage treatment plant;

• including all controls and associated appurtenances.

SEWAGE WORKS APPROVED ON OCTOBER 21, 1991:

**Stormwater Management Pond - SWM Pond No. 1**

A stormwater management pond constructed on a site approximately 750 m north of Beechwood Road and north of the fill area for a 25 year design storm having a minimum storage volume of 228 m³ to retain surface runoff from an area of 3.38 ha (consisting of fill area) and to discharge at a rate of 70 L/s via a 375 mm diameter outlet pipe (fitted to a drop inlet pipe structure) to a Headwater Tributary of Marysville Creek (Intermittent), together with a drawdown structure, a 1200 mm diameter drop inlet pipe, a 3.5 m wide emergency spill-way channel, rock baffle, erosion and silt control protection;

**Stormwater Management Pond - SWM Pond No. 2**

A stormwater management pond constructed on a site approximately 750 m north of Beechwood Road and north of the fill area for a 25 year design storm having a minimum storage volume of 332 m³ to retain surface runoff from an area of 4.94 ha (consisting of fill area) and to discharge at a rate of 103 L/s via a 375 mm diameter outlet pipe (fitted to a drop inlet pipe structure) to a Headwater Tributary of Marysville Creek (Intermittent), together with a drawdown structure, a 1200 mm diameter drop inlet pipe, a 3.5 m wide emergency spill-way channel, rock baffle, erosion and silt control protection;

all in accordance with the information submitted by Henderson Paddon and Associates Limited Consulting Engineers and the following list of documents containing the information relied upon in the issuance of the Certificate of Approval No. 3-0915-90-916.


2. Report entitled "Tricil Limited Landfill site parts of Lots 1, 2 and 3, Concession IV,
Township of Richmond, County of Lennox and Addington dated September 1988, prepared by Henderson Paddon and Associates Limited.


8. Minutes of the meeting held at Ministry of the Environment, 250 Davisville Avenue, Toronto, on June 25, 1991.


For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:
"Act" means the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended;

"Certificate" means this entire certificate of approval document, issued in accordance with Section 53 of the Act, and includes any schedules;

"By-pass" means any discharge from the Works that does not undergo any treatment before it is discharged to the environment;

"Director" means any Ministry employee appointed by the Minister pursuant to section 5 of the Act;

"District Manager" means the District Manager of the Kingston District Office of the Ministry;

"Ministry" means the Ontario Ministry of the Environment;

"Owner" means Waste Management of Canada Corporation and includes its successors and assignees;

"Previous Works" means those portions of the sewage works previously constructed and approved under a certificate of approval;

"Proposed Works" means the sewage works described in the Owner's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate;

"Substantial Completion" has the same meaning as "substantial performance" in the Construction Lien Act; and

"Works" means the sewage works described in the Owner's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate and includes both Previous Works and Proposed Works.

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

**TERMS AND CONDITIONS**

**I - GENERAL**

1. **GENERAL PROVISIONS**

   (1) The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Certificate and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

   (2) Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Certificate.
the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this Certificate.

(3) Where there is a conflict between a provision of any submitted document referred to in this Certificate and the Conditions of this Certificate, the Conditions in this Certificate shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The requirements of this Certificate are severable. If any requirement of this Certificate, or the application of any requirement of this Certificate to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this certificate shall not be affected thereby.

2. EXPIRY OF APPROVAL

The approval issued by this Certificate will cease to apply to those parts of the Proposed Works which have not been constructed within five (5) years of the date of this Certificate.

3. CHANGE OF OWNER

(1) The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within 30 days of the change occurring:

(a) change of Owner;

(b) change of address of the Owner;

(c) change of 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. B17 shall be included in the notification to the District Manager;

(d) change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager;

(2) In the event of any change in ownership of the Works, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Certificate, and a copy of such notice shall be forwarded to the District Manager and the Director.
4. **UPON THE SUBSTANTIAL COMPLETION OF THE WORKS**

(1) Within one year of the *Substantial Completion* of the *Proposed Works*, a set of as-built drawings showing the works “as constructed” shall be prepared. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the *Works* or at operational office of the *Owner* for the operational life of the *Works*.

5. **BY-PASSES**

(1) Any *By-pass* of sewage from any portion of the *Works* is prohibited, except where:

(a) it is necessary to avoid loss of life, personal injury, danger to public health or severe property damage;

(b) the *District Manager* agrees that it is necessary for the purpose of carrying out essential maintenance and the *District Manager* has given prior written acknowledgment of the *by-pass*; or

(2) The *Owner* shall maintain a logbook of all *By-pass* events which shall include, at a minimum, the time, location, duration, quantity of *By-pass*, the authority for *By-pass* pursuant to subsection (1), and the reasons for the occurrence.

6. **LEACHATE COLLECTION AND DISPOSAL SYSTEM**

II - **LEACHATE MONITORING AND RECORDING**

The *Owner* shall, upon commencement of operation of the *Works*, carry out the following monitoring program:

(1) All samples and measurements taken for the purposes of this *Certificate* are to be taken at a time and in a location characteristic of the quality and quantity of the leachate stream over the time period being monitored.

(2) For the purposes of this condition, 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;

(3) **Leachate grab samples** shall be collected from a designated sampling location at the indicated monitoring frequency and analyzed for each parameter listed in Table 1 and all results recorded:
(4) The methods and protocols for sampling, 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;

(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; and

(d) the Environment Canada publications "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout" (July 1990) and "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Daphnia magna" (July 1990), as amended from time to time by more recently published editions.
(5) 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 this Certificate.

7. OPERATION AND MAINTENANCE

(1) The Owner shall exercise due diligence in ensuring that, at all times, the Works and the related equipment and appurtenances used to achieve compliance with this Certificate are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator training, including training in all procedures and other requirements of this Certificate and the Act and regulations, process controls and alarms.

(2) The Owner shall prepare an operations manual within six (6) months of the issuance date of this Certificate, that includes, but not necessarily limited to, the following information:

(a) operating procedures for routine operation of the Works;

(b) inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the Works;

(d) procedures for the inspection and calibration of monitoring equipment;

(e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the District Manager; and

(f) procedures for receiving, responding and recording public complaints, including recording any follow up actions taken.

(3) The Owner shall maintain the operations manual current and retain a copy at the Works or Owner's Head Office for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

(4) The Owner shall maintain a logbook to record and report the volume of leachate disposed off-site, the date, and the name of the receiving sewage treatment plant;

III - STORMWATER MANAGEMENT FACILITY
8.  MONITORING AND RECORDING

The Owner shall carry out the following monitoring program:

1) All samples and measurements taken for the purposes of this Certificate are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.

2) The Owner shall collect stormwater grab samples from the following designated sampling location prior to each planned discharge event and analyse for the parameters listed in Table 2;

3) The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in Condition 6 (4);

4) The measurement frequencies specified in subsection (2) in respect to any parameter are minimum requirements which may, after two (2) years of monitoring in accordance with this Condition, be modified by the District Manager in writing from time to time.

5) 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 this Certificate at the Works or Owner's Head Office.
Table 2 - Stormwater and Surface Water Monitoring
Sampling Location: SWM Ponds No. 1, No. 2, and No. 3

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Parameter</th>
<th>Field Parameter</th>
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<tbody>
<tr>
<td>pH</td>
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<td>pH</td>
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<tr>
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<td>Temperature</td>
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<tr>
<td>Hardness</td>
<td>Barium</td>
<td>Conductivity</td>
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<tr>
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<td>Boron</td>
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<tr>
<td>Un-ionized Ammonia</td>
<td>Cobalt</td>
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<td>Beryllium</td>
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<tr>
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<tr>
<td>Nitrate Nitrogen</td>
<td>Chromium</td>
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<td>Potassium</td>
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</tr>
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<td>Zinc</td>
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<tr>
<td>Acute Lethality - Rainbow Trout</td>
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</tbody>
</table>

9. OPERATION AND MAINTENANCE

(1) The Owner shall prepare an operations manual prior to the commencement of operation of the Proposed Works, that includes, but not necessarily limited to, the following information:

(a) operating procedures for routine operation of the Works;

(b) inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the Works;

(d) procedures for the inspection and calibration of monitoring equipment;

(e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the District Manager; and

(2) The Owner shall maintain the operations manual current and retain a copy at the Works.
or Owner’s Head Office for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

(3) The Owner shall keep the outlet gate valves of SWM Pond No. 1, SWM Pond No. 2, and SWM Pond No. 3 in closed position during normal operation periods.

(4) Prior to any planned discharge of stormwater from any of the SWM Ponds to the natural environment, the Owner shall collect stormwater grab sample from a designated sampling location at the SWM Pond and conduct acute lethality testing for Daphnia magna and Rainbow Trout. The Owner shall ensure that the stormwater runoff collected in the SWM Pond is not acutely lethal to Daphnia magna and Rainbow Trout before allowing any discharge of stormwater from the SWM Pond.

(5) In the event that toxicity monitoring results obtained under Condition 9 (4) show that the contents of the SWM Pond are acutely lethal either to Daphnia magna or Rainbow Trout, or both, the Owner shall ensure that the contents of the affected SWM Pond deemed to be leachate contaminated is disposed in a preapproved manner;

(6) The Owner shall maintain a record of the date and the estimated volume of leachate contaminated stormwater disposed off site under Condition 9 (5);

(7) Discharge of leachate contaminated stormwater to the receiving surface water from the Works is prohibited, except where it is necessary to avoid loss of life, personal injury, danger to public health or severe property damage;

(8) The Owner shall notify the District Manager orally, as soon as possible, and in writing within seven days of any discharge of leachate contaminated stormwater to receiving surface water including an assessment of the relative extent of leachate contamination, estimated volume of stormwater discharged, and proposed or completed remedial actions.

(9) The Owner shall maintain the water level in all the SWM Ponds at a level that ensures adequate storage is available for stormwater runoff associated with major storm events by ensuring that detained stormwater is disposed of in a timely manner to minimize the occurrence of emergency overflow during major storm events.

(10) The Owner shall inspect the Works (SWM Ponds) at least once a year and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation.

(11) The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the site and/or Owner’s operational headquarter for inspection by the Ministry. The logbook shall include the following:

(a) the name of the Works;
(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed; and

(c) the volume of contaminated stormwater disposed off-site, the date, and the name of the receiving sewage treatment plant;

IV - GENERAL

10. REPORTING

(1) Ten (10) days prior to the date of a planned By-pass being conducted pursuant to Condition 5 and as soon as possible for an unplanned By-pass, the Owner shall notify the District Manager (in writing) of the pending start date, in addition to an assessment of the potential adverse effects on the environment and the duration of the By-pass.

(2) In addition to the obligations under Part X of the Environmental Protection Act, the Owner shall, within 10 working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by product, intermediate product, oils, solvents, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

(3) The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.

(4) The Owner shall prepare on an annual basis, and submit upon request, a performance report within ninety (90) days following the end of the calendar year being reported upon. The first such report shall cover the period following the commencement of operation of the Works and subsequent reports shall be prepared to cover successive calendar years following thereafter. The reports shall contain, but shall not be limited to, the following information:

(a) a summary and interpretation of all stormwater monitoring data and a comparison to the Provincial Water Quality Objectives (PWQO), including an overview of the success and adequacy of the Works;

(b) a summary of the monthly quantity of leachate disposed off site and corresponding average leachate quality;

(c) a description of any operating problems encountered and corrective actions taken;

(d) a summary of all maintenance carried out on any major structure, equipment,
apparatus, mechanism or thing forming part of the Works;

(e) a summary of the calibration and maintenance carried out on all leachate monitoring equipment; and

(f) a summary of any complaints received during the reporting period and any steps taken to address the complaints;

(g) a summary of all By-pass, spill or abnormal discharge events; and

(h) any other information the District Manager requires from time to time.

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

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Certificate and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Certificate the existence of this Certificate.

2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.

3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the Works are made aware of the Certificate and continue to operate the Works in compliance with it.

4. Condition 4 is included to ensure that the Works are constructed in accordance with the approval and that record drawings of the Works “as constructed” are maintained for future references.

5. Condition 5 is included to indicate that by-passes of untreated sewage to the receiving watercourse is prohibited, save in certain limited circumstances where the failure to By-pass could result in greater injury to the public interest than the By-pass itself where a By-pass will not violate the approved leachate requirements, or where the By-pass can be limited or otherwise mitigated by handling it in accordance with an approved contingency plan. The notification and documentation requirements allow the Ministry to take action in an informed manner and will ensure the Owner is aware of the extent and frequency of By-pass events.

6. Conditions 6 and 8 are included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives specified in the Certificate and that the Works does not cause any impairment to the receiving watercourse.
7. Conditions 7 and 9 are included to require that the *Works* be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, damage to any property or injury to any person is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the *Ministry*.

8. Condition 10 is included to provide a performance record for future references, to ensure that the *Ministry* is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this *Certificate*, so that the *Ministry* can work with the *Owner* in resolving any problems in a timely manner.

This *Certificate of Approval* revokes and replaces Certificate(s) of Approval No. 3-0975-90-916 issued on October 21, 1991.

*In accordance with Section 100 of the *Ontario Water Resources Act*, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the *Ontario Water Resources Act*, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

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

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

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

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
MSG 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal’s requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or [www.ert.gov.on.ca](http://www.ert.gov.on.ca)
The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 19th day of August, 2008

Mansoor Mahmood, P.Eng.
Director
Section 53, Ontario Water Resources Act

SH/ c: District Manager, MOE Kingston - District
Jeff Armstrong, P.Eng., Henderson Paddon & Associates Limited

This certificate was mailed
ON Aug. 17, 2008
(Signed)
Appendix A.7

Certificate of Approval (Industrial Sewage) No. 4-0129-64-956 (Oil/Sediment Interceptor)
You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

Establishment of sewage works for the collection, transmission, treatment and disposal of stormwater from Laidlaw Landfill, Richmond Township, Ontario, consisting of the following:

- collection and transmission of stormwater and other drainage from a petroleum hydrocarbon contaminated soils storage area of 3,200 square metres, with collected drainage discharging at a maximum rate of 15,000 Litres per hour, via a catch basin and 150 millimetre diameter piping to a three chambered oil/sediment interceptor,

- one oil interceptor with three interconnected chambers, with each chamber having dimensions of 1.15 metres length, 1.34 metre width, and a liquid depth of 0.925 metres, discharging via 150 millimetre diameter piping to the sediment control ditch leading to the downstream sedimentation pond,

- all other controls, electrical equipment, instruments, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage works,

all in accordance with the Application for Approval of Industrial Sewage Works dated November 11, 1994 signed by J. Pullen, P.Eng. (Regional Manager, Engineering and Compliance), Laidlaw Waste Systems (Canada) Ltd. ("the Owner"), and all supporting documentation and information.

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

TERMS AND CONDITIONS

1. OPERATION

(1) The Owner shall prepare a draft operations manual prior to the commencement of operation of the works and shall revise and implement the operations manual within six (6) months of the commencement of operation of the works.
(2) The Owner shall ensure that both the draft and revised manuals include as a minimum:

(a) operating procedures for routine operation of the works, including but not limited to, routine inspection of the oil interceptor chambers, and removal of accumulating solid and liquid wastes;

(b) operating procedures for operation of the works during spills, fires, equipment malfunction, power outages, and other emergency or abnormal operating conditions, including notification procedures for the Ministry;

(c) best management practices to minimize contaminant discharges to the oil interceptor; and,

(d) any other procedures the Owner deems necessary for the proper operation of the works.

(3) The Owner shall maintain the operations manual, as revised from time to time, at the location of the works for so long as it is in operation, and shall make the manual available to Ministry personnel for inspection and copying, upon request.

(4) The Owner shall keep the operations manual up to date through revisions undertaken from time to time, so as to reflect any changes in described operation and maintenance procedures for the works or any newly introduced operation and maintenance procedures made necessary by good engineering practice, this certificate or the requirements of the Ministry.

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

1. Condition No. 1 is included to ensure certain operation procedures are followed to prevent deleterious effects on the environment.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

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

2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.
The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the sewage works are located;

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

This Notice must be served upon:

The Secretary,
Environmental Appeal Board,
112 St. Clair Avenue West,
Suite 502,
Toronto, Ontario.
M4V 1N3

AND

The Director,
Section 53, Ontario Water Resources Act,
Ministry of Environment and Energy,
250 Davisville Avenue, 3rd Floor,
Toronto, Ontario.
M4S 1H2

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 24th day of January 1995

R. P. Cornelius, P. Eng.
Director
Section 53
Ontario Water Resources Act

AA/pm

cc District Manager, MOEE Kingston District Office