Ontario

Ministry of the Environment
Ministère de l'Environnement

AMENDED CERTIFICATE OF APPROVAL
INDUSTRIAL SEWAGE WORKS
NUMBER 5616-86NKNW
Issue Date: June 29, 2010

Waste Services (CA) Inc.
1122 International Blvd, No. Suite 601
Burlington, Ontario
L7L 6Z8

Site Location: WSI Navan Landfill Site
3354 Navan Road
City of Ottawa, Ontario

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

the WSI Navan Landfill expansion project located on parts of Lots 2, 3 and 4, Concession 4, in the eastern portion of the City of Ottawa which includes a stormwater management (SWM) facility serving a total area of approximately 69.35 ha, designed to provide quantity and quality control of stormwater runoff from storm events with up to 1:100 year return frequency using the six-hour Chicago storm; and the collection, pre-treatment, transmission, and disposal of leachate generated at the landfill site. The project is comprised of the following specific components:

Stormwater Management Facility

The SWM facility consists of: (1) the East Pond which discharges to the Stormwater Bypass Ditch flowing towards the Mer Bleue Bog (south of the landfill), part of the Bear Brook drainage basin, which is part of the South Nation River watershed; (2) the West Pond which discharges to an existing ditch flowing to the Mud Creek drainage basin which in turn drains into Green's Creek, part of the Ottawa River watershed; (3) a stormwater diversion ditch (also known as the Bypass Ditch), located at the eastern most portion of the property line designed to divert clean stormwater entering the property towards the Mer Bleue Bog to the south of the property line; and (4) the drainage for the Entrance Facility. The ponds will receive stormwater collected by Interceptor Ditches, which are comprised of trapezoidal ditches at the toe of the closed landfill.

1. East Pond (to service a total area of 40.93 ha)

- one (1) northern side perimeter trapezoidal interceptor ditch, approximately 377 m long with a minimum depth of 0.75m on the lower portion, and approximately 167 m long with a minimum depth of 0.90 m on the upper portion;

- one (1) southern side perimeter trapezoidal interceptor ditch, approximately 969 m long with a minimum depth of 0.70m;

- one (1) eastern side perimeter trapezoidal interceptor ditch, approximately 642 m long with a minimum depth of 0.65m.

- road side swales with a minimum depth of 0.30 m along one side of the roads to direct runoff to the Interceptor Ditch.

- one (1) forebay with approximate dimensions of 28.3 m by 9.4 m, equal to 1/3 of the pond base length and width, 3H:1V side slopes, and discharging to an extended detention wet pond described below;

- one (1) extended detention wet pond with approximate dimensions of 85.0 m base length and 28.3 m base width and 3H:1V side slopes. The pond has an approximate extended detention volume of 1,637 m^3, with an average depth of 0.90 m; and a permanent pool of 3,479 m^3, with an average depth of 1.2 m; providing together a total approximate pond volume of 5,116 m^3, equipped with an outlet structure described below;

- an outlet structure consisting of one (1) orifice 25 mm diameter with an invert set at 74.7 m ASL at the permanent pool elevation; and a weir length of 2.5 m with an invert at 75.60 m ASL, discharging to the Stormwater Bypass Ditch flowing towards the Mer Bleue Bog.

2. West Pond (to service a total area of 20.91 ha)

- one (1) northern side perimeter trapezoidal interceptor ditch, approximately 344 m long with a minimum depth of 0.40m;

- one (1) southern side perimeter trapezoidal interceptor ditch, approximately 397 m long with a minimum depth of 0.60m; and

- one (1) western side perimeter trapezoidal interceptor ditch, approximately 365 m long with a minimum depth of 0.85m.

- one (1) forebay with approximate dimensions of 128.0 m by 12.6 m, equal to 1/3 of the pond base length and width, 4H:1V side slopes, and discharging to an extended detention wet pond described below;

- one (1) extended detention wet pond with approximate dimensions of 84.0 m base length and 37.8 m base width and 4H:1V side slopes. The pond has an approximate extended detention volume of 836 m^3, with an average depth of 0.60 m; and an approximate permanent pool of 1,777 m^3, with an average depth of 0.90 m; providing a total approximate pond volume of 2,613 m^3, equipped with an outlet structure described below;

- an outlet structure consisting of one (1) orifice 175 mm diameter with an invert set at 75.0 m ASL at the permanent pool elevation; and a weir length of 1.0 m with an invert at 75.60 m ASL, discharging to an existing ditch flowing to the Mud Creek drainage basin.

3. Diversion Ditch (Bypass Ditch, serving an approximate area of 7.51 ha)

- one (1) stormwater diversion ditch aligned to the eastern property limit and discharging south of the landfill expansion at the VIA rail corridor and toward the Mer Bleue Bog south of the landfill, having a minimum depth of 0.60 m with a cross section of 3H:1V side slopes and a 2.0 m wide flat bottom.

4. Entrance Facility (with an area of 4.84 ha included in the East Pond drainage area)

- roadside swales and ditches with a minimum depth of 0.30 m which convey surface runoff to a 900 mm diameter culvert described below.

- a 900 mm diameter culvert under the main waste hauling road and to the interceptor ditch, ultimately outletting to the East pond.

Leachate Pre-Treatment System

A leachate pre-treatment system followed by disposal to the City of Ottawa's sewer system in compliance with the City's *Sewer By-Law* , consisting of the following:

- a blending chamber for balancing of all contributing piping flows, where Ferric Sulphate (or equivalent) is added to supress H2S as needed, and an aeration fan that aerates the leachate at an approximate flow rate range of 2.5 m^3/min to 8.5 m^3/min, and equiped with a backflow preventor downstream of the drain piping connection, and discharging via a forcemain with two (2) 3 HP lift pumps to the pre-treatment reactor (Chamber CH-1);

- an aeration and carbon filter system located in the blower building, equipped with two trains of carbon filter drums and two (2) air blower units, to feed air for pre-treatment process in the pre-treatment chambers through diffusers;

- two (2) pre-treatment reactors (Pre-treatment Chamber CH-1A of 16 m^3, CH-1B of 16 m^3 & CH-2 of 37 m^3), equipped with an aeration system and H2S gas monitors, communicated by gravity in series by riser inlets with pipe inverts at 70.90 m, and an outlet at CH-2 controlled with a valve and actuator with a pipe invert at 68.90 m;

- a forcemain with an approximate length of 2,150 m and 150 mm diameter HDPE, Class DR21 pressure pipe installed with a minimum depth cover of 1.8 m, equipped with flow meter and appurtenances, connected to the gravity sewer manhole of the City of Ottawa (SAM#9) at the intersection of Renaud Road and Page Road and connected at an obvert elevation of 77.11 m.

- two (2) effluent discharge 35 HP variable speed submersible pumps (or equivalent) installed in the existing 3.0 m diameter wet well pumping station structure. Each pump will be of variable speed design with a steady state operating discharge of not greater than 17.7 L/s, and a total head of 28.57 m (elev. difference of 14.2 m) to accommodate the estimated average daily leachate generation rate of 3.0 L/s and the estimated peak leachate generation rate of 11.5 L/s, with controls as described below;

- a liquid level sensor flow meter with data logger with high and low level alarms to control the duty and standby pumps, and communication controls;

- a water storage tank equipped with pump and pressure tank to operate an emergency eye/shower system near the chemical storage room; and

- all other controls, electrical equipment, instrumentation, valves, actuators and appurtenances essential for the proper operation of the aforementioned sewage works.

All in accordance with the Application for Approval of Municipal and Private Sewage Works and Attachments submitted by Waste Services (CA) Inc. dated January 29, 2008, and all supporting design specifications and drawings prepared by Golder Associates Ltd., and the following documents:

1. "Stormwater Management Report, Navan Landfill Site Expansion, OWRA Section 53". Prepared by Golder Associates Ltd.- Kanata Office, January 2008.
2. "Hydrogeology, Hydrology and Geotechnical Study Report. Navan Landfill Site Expansion Approvals". Prepared by Golder Associates Ltd. - Kanata Office, January 2008.
3. "Environmental Assessment Study Report. Volume I and II". Prepared by Golder Associates Ltd. - Kanata Office, February 2007.
4. "Proposed Terms of Reference for an Environmental Assessment of Expansion of Waste Services (CA) Inc. Navan Landfill". Prepared by Golder Associates Ltd.- Kanata Office, May 2006.
5. "Design and Operations Report. Navan Landfill Site Expansion Approvals". Prepared by Golder Associates Ltd. - Kanata Office, January 2008.
6. "WSI Leachate Treatment, Pumping Station and Forcemain. Design Brief". Prepared by Ainley Group, February 2006.
7. "Leachate Agreement (Sewer)". Agreement between the City of Ottawa and Waste Services (CA) Inc., dated June 6, 2007.
8. City of Ottawa Sewer By-Law No. 2003-514, which came into force on January 1, 2004, as amended from time to time.
9. Letter from Golder Associates Ltd., to the MOE, dated March 5, 2008, in response to an additional information request letters dated February 25 and 27, 2008.
10. Letter from Golder Associates Ltd., to the MOE, dated March 20, 2008, in response to an additional information request e-mail of March 6, 2008.
11. Letter from Golder Associates Ltd., to the MOE, dated April 24, 2008, in response to request to comment on draft Certificate of Approval.
12. Letter from Golder Associates Ltd., to the MOE, dated December 16, 2008, with changes to the proposed SWM Plan and associated site grading needed as a result of the completion of the final design.
13. Emails from Golder Associates Ltd., to the MOE, dated January 19, and February 6, 2009, with comments to the final draft Certificate of Approval.
14. Application for Approval of Industrial Sewage Works submitted by Waste Services (CA) Inc. dated June 10, 2010, including all supporting information.
15. Upgrades design brief and drawings, prepared by Garry Pearce of Ainley Consulting Engineers & Planners, dated June 2, 2010.

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;

"*Average Daily Flow* " means the cumulative total sewage flow to the sewage works during a calendar year divided by the number of days during which sewage was flowing to the sewage works that year;

"*BOD5* " (also known as $TBOD_5$) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;

"*CBOD5* " means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;

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

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

"*District Manager* " means the District Manager of the Ottawa District Office of the Ministry;

"*Leachate* " means the waste disposal site leachate produced at the landfill site;

"*Leachate Agreement* " means the document titled: "Leachate Agreement (Sewer)", between the City of Ottawa and Waste Services (CA) Inc., dated June 6, 2007, that regulates the WSI leachate discharge limits to the City of Ottawa sewer system;

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

"*Owner* " means Waste Services (CA) Inc., and includes its successors and assignees;

"*Sewer By Law* " means the City of Ottawa's By-Law No. 2003-514, dated January 1, 2004, as amended from time to time, which regulates the control of discharges to sewers and sewage works;

"*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* .

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 two (2) SWM ponds and the leachate pre-treatment system shall be constructed within **five (5) years** of the date of this *Certificate* or the approval will cease to apply to these components of the *Proposed Works*.

The approval issued by this *Certificate* will cease to apply to all remaining elements of the *Proposed Works* which have not been constructed within **one (1) year** following the date of the landfill closure.

3. CHANGE OF OWNER

(1) The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within **thirty (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) Upon the *Substantial Completion* of the *Works,* the *Owner* shall prepare a statement, certified by a Professional Engineer, that the *Works* are constructed in accordance with this *Certificate,* with permits issued as required by the South Nation Conservation for the Stormwater Bypass Ditch, and upon request, shall make the written statement available for inspection by Ministry personnel.

(2) Within **one (1) year** of the *Substantial Completion* of the *Proposed Works* , a set of as-built drawings showing the works "as constructed" shall be prepared. As-built drawings shall include the pond outlet elevations, which may differ to those stated on the project description of this *Certificate* . These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the *Works* for the operational life of the *Works.*

5. REPORTING

(1) The *Owner* shall notify the *District Manager* within one year of the commencement of the operation of the *Works* as to the operational status and compliance with the Effluent Limits as described in Conditions 8 and 9.

(2) The *Owner* shall report to the *District Manager* or designate, any exceedence of any parameter specified in Conditions 8 and 9, as specified in the trigger mechanism detailed in Condition 8(2).

(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 and submit to the *District Manager* , a performance report, on an

annual basis, within **ninety (90) days** following the end of the period being reported upon. The first such report shall cover the first annual period following the commencement of operation of the *Works* and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

(a) a summary and interpretation of all monitoring data and a comparison to the effluent objectives, including an overview of the success and adequacy of the *Works* ;

(b) a summary of any effluent quality assurance or control measures undertaken in the reporting period;

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

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

(5) The *Owner* shall ensure, as per the requirements of Condition 9, to inform the *District Manager* within **fifteen (15) days** of any changes to the effluent quantity and quality limits specified in the *Leachate Agreement* or the *Sewer By Law* .

(6) The requirements outlined in Section 4(1)(2)(3)(4) may be consolidated into the facility annual report to the *Ministry* required under Section 27 of the Environmental Protection Act.

II - STORMWATER MANAGEMENT FACILITY

6. OPERATION AND MAINTENANCE

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

(2) 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 operations office for inspection by the *Ministry.* The logbook shall include the following:

(a) the name of the *Works;* and

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

7. RECORD KEEPING

The *Owner* shall retain for a minimum of **five (5) years** from the date of their creation, all

records and information related to or resulting from the operation and maintenance and monitoring activities required by this *Certificate* .

8. MONITORING

(1) The *Owner* shall, upon commencement of operation of the *Works* , carry out the following monitoring program. Grab samples shall be collected from the designated sampling locations **at three times per year frequency** and analysed for the following parameters listed below:

Table 1 – Surface Water Monitoring Parameters Sampling Locations: at designated sampling points			
General Parameter	**Metals**	**Bulk Organics**	**Field Parameters**
Hardness ($CaCo_3$)	Arsenic	BOD_5	Conductivity
Alkalinity ($CaCo_3$)	Boron	COD	Dissolved Oxygen
Total Suspendid Solids	Cadmium	DIC	pH (field)
Calcium	Chromium	DOC	Temperature
Chloride	Cobalt		Flow
Magnesium	Copper		
Total Phosphorus	Iron		
Potassium	Lead		
Sodium	Manganese		
Sulphate	Zinc		
Nitrate nitrogen			
Nitrite nitrogen			
Ammonia Oxygen[1]			
Total Kjeldahl nitrogen			
TDS			

Note 1. unionized ammonia nitrogen calculated for surface water

(2) The *Owner* shall utilize the monitoring results obtained under Condition 8(1) to identify if a parameter exceeds the background range to initiate a three-step process for the purpose of determining whether implementation of the contingency plan is warranted. The three-step process and details of the trigger mechanism are contained in Section 13 of the study titled: "Hydrogeology, Hydrology and Geotechnical Study Report. Navan Landfill Site Expansion Approvals", which also includes monitoring of Leachate, Goundwater and Sediment parameters. The three-step process includes the following:

(a) Step 1. Assess the concentrations reported for other Leachate indicator parameters at the monitoring location. If more than one Leachate indicator parameter experiences an increase, assess two subsequent sampling sessions to determine if the parameters continue to increase. If an exceedance is followed by two subsequent increasing

monitoring sessions, assess whether the exceedance is due to migration of the leachate plume as a whole, or whether it is partially or wholly explicable by other factors. This will be achieved by considering trends in the leachate indicator parameter concentrations at all relevant monitoring locations or could include an expanded suite of monitoring parameters (if warranted depending on the on-going monitoring results and/or an increased sampling frequency);

(b) Step 2. Discussion of the results of Step 1 between the *Owner* and the *District Manager* to decide whether implementation of the contingency plan is warranted; and

(c) Step 3. If the conclusion of Step 2 is affirmative, then the *Owner* shall implement the appropriate contingency plan described in Condition 12.

III - LEACHATE PRE-TREATMENT SYSTEM

9. EFFLUENT QUANTITY AND QUALITY

The *Owner* shall comply at all times with the *Leachate* effluent quantity and quality limits as per the requirements of the City of Ottawa's *Sewer By Law* and the *Leachate Agreement* as amended from time to time.

10. 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 staffing and training, including training in all procedures and other requirements of this *Certificate* and the *Act* and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the *Works* .

(2) The *Owner* shall prepare an operations manual prior to the commencement of operation of the *Proposed Work* 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 location of the *Works* for the operational life of the *Works*. Upon request, the *Owner* shall make the manual available to *Ministry* staff.

(4) The *Owner* shall provide for the overall operation of the *Works* with an operator who holds a licence that is applicable to that type of facility and that is of the same class as or higher than the class of the facility in accordance with Ontario Regulation 129/04.

(5) The *Owner* shall operate the *Works* in compliance with the City of Ottawa's *Sewer By-Laws* at any point in time.

(6) The *Owner* shall operate the *Works* with an actuated isolation gate on the gravity outlet pipe from Pre-treatment Chamber CH-2, and shall only release pre-treated effluent when the gas levels are within the allowable limtis as required in the *Leachate Agreement.*

11. MONITORING AND RECORDING

The *Owner* shall, upon commencement of operation of the *Works* , carry out a monitoring program, in accordance with the City of Ottawa's *Sewer By Law* as amended from time to time. *Leachate* samples shall be collected at the designated effluent discharge point at the frequency specified by means of the specified sample type an analysed in accordance with the *Sewer By Law* requirements as amended from time to time.

12. CONTINGENCY AND REMEDIAL ACTION PLAN

The *Owner* shall, upon commencement of operation of the *Works* , operate and maintain noting the Contingency and Remedial Action Plan developed by the *Owner* and included in: the Application information; the Letter from Golder Associates Ltd., dated March 20, 2008; and the *Leachate Agreement* " Schedule C, as amended from time to time and approved in writing by the *District Manager* , with the following considerations:

(1) The *Owner* shall include in the operations manual the Contingency and Remedial Action Plan to provide an approach for limiting discharge of contaminated stormwater and methods for removal of the contaminated runoff, that includes, but not necessarily limited to, the following information:

(a) potential for *Leachate* impacts to the ponds;

(b) accidental spill on-site which enters the site drainage system;

(c) forcemain not operational and/or shutdown for emergency response; and

(d) disposal of contaminated stormwater to the City of Ottawa's sewer system by hauling with tanker trucks

(2) The *Owner* shall maintain the Contingency and Remedial Action Plan and its considerations for disposing *Leachate* by hauling to the City of Ottawa's sewer system with tanker trucks current and retain a copy at the location of the *Works* for the operational life of the *Works* . Upon request, the *Owner* shall make the Plan available to *Ministry* staff.

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 *Owner* of 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 the *Works* are constructed in a timely manner so that standards applicable at the time of Approval of the *Works* are still applicable 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 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.

6. Conditions 6, 10 and 12 are included to require that the *Works* be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of the 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* . Such a manual is an integral part of the operation of the *Works* . Its compilation and use should assist the *Owner* in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for *Ministry* staff when reviewing the *Owner'* s operation of the work

7. Condition 7 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the *Works.*

8. Condition 8 and 11 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 and effluent limits specified in the *Certificate* and that the *Works* does not cause any impairment to the receiving watercourse.

9. Condition 9 and 10 are imposed to establish non-enforceable effluent quantity and quality objectives, which the *Owner* is obligated to use best efforts to strive towards on an ongoing basis in compliance with the City of Ottawa's *Sewer By-Laws.* These Conditions are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 4816-7C7M6C issued on April 16, 2009.

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 eachportion 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* The Director

Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

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**

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

DATED AT TORONTO this 29th day of June, 2010

Jennifer Barolet, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

ET/

c: District Manager, MOE Ottawa District Office
Garry Pierce, Ainley Group Consulting Engineers and Planners