



Ministry
of the
Environment

Ministère
de
l'Environnement

AMENDED CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 2057-6N5HZ9
Issue Date: March 24, 2006

Ontario

1382491 Ontario Limited
256 Sunset Boulevard, RR 1
Thornbury, Ontario
N0H2P0

Site Location: Keeper's Cove Trailer Park
Lot 39, Concession 12
Town of the Blue Mountains, County of Grey

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

A sewage collection, treatment and subsurface disposal system rated at capacity of approximately 80,300 L/d serving Park Model Trailers, Seasonal Recreational Vehicle Sites, Park Office and Administration Building located at Keeper's Cove in the Town of The Blue Mountains, comprising of the following works:

Sewage Collection System

A sanitary sewage collection system (approved under the C of A No. W0413/78) to service the above mentioned facilities at Keeper's Cove connected to a sewage treatment plant described below.

Sewage Treatment Plant

A sewage treatment plant (approved under the C of A No. W0414/78) comprising of the following:

- a Rotating Biological Contactor (RBC - Rotordisk Model L500) with a rated treatment capacity of approximately 136,400 L/d located north of the Sunset Blvd.;
- a sedimentation chamber adjacent to the RBC;
- a wet well adjacent to the sedimentation chamber having a working capacity of approximately 11,347 L and equipped with a high alarm level; and
- a dry well adjacent to the wet well and equipped with two (2) new 15 HP sewage centrifugal pumps, each pump rated at approximately 756 L/min at a TDH of 54 m discharging effluent via an existing 100 mm diameter forcemain to a sewage subsurface disposal system via flow splitter as described below.

Sewage Subsurface Disposal System

A sewage subsurface disposal system consisting of two (2) raised leaching beds as follows:

- a three-way splitter in 1200 mm diameter precast concrete manhole, located at the existing distribution boxes of the Cell No.2 leaching bed to direct treated effluent to Cell No. 2 and Cell No. 3;
- a leaching bed (described as "Cell No.2 Raised Leaching Bed, previously approved under the C. of A. No. W0414/78) with a total of approximately 1450.8 m of 100 mm diameter perforated distribution pipes, comprising of two (2) cells of an equal size and complete with an additional 300 mm thick sand mantle area at approximately 20 m x 80 m in surface (1,600 m²) for a total enlarged contact area of 5,900 m² and including "relief trenches" excavated every 6 m along the face of the slope (at right angles to the tile runs) and collected with an interceptor trench near the base of the original slope;
- a fully raised tile field (Cell No. 3) comprising of 28 runs of 25.5 m long trenches (for a total of 714 m of piping) housing 100 mm diameter perforated pipes located within a clear stone surround, complete with a mantle area, and a two-way flow splitter box,
- abandonment of the 'Older Raised Leaching Bed', previously approved under C. of A. No. W0413/78),

all in accordance with the following documents:

CONTENT COPY OF ORIGINAL

1. Application for Approval of Municipal and Private Sewage Works, dated June 27, 2005, submitted by Darryl Robins, P. Eng., Henderson, Paddon & Associates Limited, Consulting Engineers together with a report entitled 'Bound Supporting Documentation as mentioned in accompanying letter M.O.E. dated June 22, 2005.
2. Application for Approval of Municipal and Private Sewage Works, dated June 25, 2004, submitted by Darryl Robins, P. Eng., Henderson, Paddon & Associates Limited, Consulting Engineers.
3. Report entitled "Design Brief for the Field Replacement & Relocation at Keeper's Cove for 138491 Ontario Ltd.", dated June 2004 prepared by Henderson, Paddon & Associates Limited, Consulting Engineers.
4. Drawing No. 7831-2 dated May 1978, and Drawing Nos. 304015-01 and 304015-02, dated May 2004, prepared by Henderson, Paddon & Associates Limited, Consulting Engineers.
5. Application for Approval of Municipal and Private Sewage Works, dated April 14, 2001, submitted by Mark Wilson of 1382491 Ontario Limited.
6. Supporting Report for Changes to Existing Tile Field and Associated Structures at Keeper's Cove, dated April, 2001 and revised May 2001, prepared by Henderson, Paddon & Associates Limited.
7. Drawings No. 7831 - 1 to 7831 - 19, dated 1978 for the existing sewage works, prepared by Henderson, Paddon & Associates Limited.
8. Drawing No. 300011-S1 entitled Keeper's Cove Plan Showing Tile Field Upgrades, dated April 2001, sealed on July 11, 2001, prepared by Henderson, Paddon & Associates Limited.
9. Certificate of Approval No. W0413/78, dated September 26, 1978, issued by Grey-Owen Sound Health Unit for a construction of a sewer collector system to service trailer sites and convenience building.
10. Certificate of Approval No. W0414/78, dated September 26, 1978, issued by Grey-Owen Sound Health Unit for a construction of a Class 6 Sewage System (Rotordisk Model L500).

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (1) "certificate" means this entire certificate of approval document, issued in accordance with Section 53 of the *Ontario Water Resources Act*, and includes any schedules;
- (2) "Director" means any Ministry employee appointed by the Minister pursuant to section 5 of the *Ontario Water Resources Act*;
- (3) "Ministry" means the Ontario Ministry of the Environment;
- (4) "Environmental Appeal Board" means the Environmental Review Tribunal established pursuant to the *Environmental Review Tribunal Act*;
- (5) "Regional Director" means the Regional Director of the Southwestern Region of the Ministry;
- (6) "District Manager" means District Manager of the Barrie District Office of Ministry's Southwestern Region;
- (7) "Owner" means 1382491 Ontario Ltd.;
- (8) "licensed installer" means a person holding a licence under Article 2.12.3.1 of the Ontario Building Code.
- (9) "Professional Engineer" means a person entitled to practice as a Professional Engineer in the Province of Ontario under a licence issued under the Professional Engineers Act;
- (10) "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;

CONTENT COPY OF ORIGINAL

- (11) "sewage system" means the entire sewage treatment and subsurface disposal system;
- (12) "grab sample" means an individual sample of at least 1000 millilitres collected in an appropriate container at a randomly selected time over a period of time not exceeding 15 minutes;
- (13) "average daily flow" means the cumulative total sewage flow to sewage works during a particular calendar month divided by the number of days during which sewage was flowing to the sewage works that month;
- (14) "CBOD₅" means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;
- (15) "E. Coli" refers to the thermally tolerant forms of Escherichia that can survive at 44.5 degrees Celsius;
- (16) "C of A" means Certificate of Approval;
- (17) "dia" means diameter;
- (18) "L" means Litres;
- (19) "L/d" means Litres per day;
- (20) "L/min" means Litres per minute;
- (21) "m" means metres;
- (22) "m²" means square metres;
- (23) "mm" means millimetres;
- (24) "mg/l" means milligrams per litres; and
- (25) "TDH" means Total Dynamic Head.

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

TERMS AND CONDITIONS

1. CONSTRUCTION

1.1 The Owner shall ensure that the construction of the works is supervised by a licensed installer or a Professional Engineer.

1.2 Upon construction of the works, the Owner shall prepare a statement, certified by a licensed installer or a Professional Engineer, that the works are constructed in accordance with this Certificate of Approval, and upon request, shall make the written statement available for inspection by Ministry personnel.

2. PERFORMANCE

2.1 The Owner shall ensure that the average daily flow of sewage into the sewage system does not exceed 80,300 L/d for any period of time.

3. MONITORING, RECORDING AND REPORTING

3.1 The Owner shall ensure that the following monitoring program is carried out upon commencement of operation of the works:

(a) Daily quantities of effluent being disposed of through the subsurface disposal system shall be measured or estimated, and recorded.

(b) Grab samples of raw sewage and effluent ahead of the subsurface disposal system shall be collected for a period of one year (4 samples) after the start-up of operation of the works and analyzed for at least the following parameters at the indicated minimum frequencies:

Raw Sewage

- CBOD₅ once every three months
- Total Suspended Solids once every three months
- Total Phosphorus once every three months
- Total Kjeldhal Nitrogen once every three months

Effluent to Subsurface Disposal System

- CBOD₅ once a month
- Suspended Solids once a month
- Total Phosphorus once a month
- (Ammonia + Ammonium) Nitrogen once a month
- Nitrates once a month
- Nitrites once a month

(c) The sampling and analyses required by clauses (b) above shall be performed in accordance with the Ministry's Procedure F-10-1 (formerly Policy No. 08-06); "Procedure for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only)", Ministry of Environment and Energy, December 31, 1994; or as described in the American Public Health Association's publication "Standard Methods for Examination of Water and Wastewater", 20th Edition, 1998, or a more recently published edition.

3.2 The Owner shall retain for a minimum of three years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this certificate.

3.3 The measurement frequencies specified in subsection 3.1 in respect to any parameters are minimum requirements which may, after 36 months of monitoring in accordance with this Condition, be modified by the District Manager from time to time.

4. OPERATION AND MAINTENANCE

4.1 The Owner shall use best effort to operate the sewage treatment facilities with the objective that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent ahead of the subsurface disposal system:

<u>Effluent to Subsurface Disposal System Parameters</u>	<u>Concentration</u>
CBOD ₅ <20 mg/l	200 mg/L
Total Suspended Solids <20 mg/l	125 mg/L
Nitrate Nitrogen<10 mg/l	

4.2 Based on the operational objectives stipulated above in Condition 4.1, the Owner shall prepare an operation and maintenance manual within six (6) months of introducing sewage to the sewage works and keep it up to date. Upon request, the Owner shall make the manual available for inspection by the Ministry personnel and furnish a copy to the Ministry.

4.3 The Owner shall prepare and make available for inspection by Ministry personnel upon request, a maintenance agreement with the manufacturer of the treatment process/technology and a complete set of drawings within one (1) year of substantial completion of the sewage works. The drawings shall show the sewage works as constructed at that time.

4.4 A complete set of the record drawings, incorporating any amendments made from time to time and a maintenance agreement with the manufactures of the treatment process/technology, shall be kept by the Owner at the site of the sewage works for as long as the sewage works are kept in operation.

5. REPORTING

5.1 One week prior to the start up of the operation of the works, the Owner shall notify the District Manager (in writing) of the pending start up date.

5.2 The Owner shall prepare, and upon request, submit to the District Manager annual performance reports for the sewage system. The first such report shall cover the period from the commencement of operation of the sewage works to the end of the calendar year and shall be prepared within the following ninety (90) calendar days. Each subsequent annual report shall be prepared within ninety (90) calendar days following the completion of the calendar year being reported upon. The reports shall contain the following information in a format acceptable to the District Manager:

(a) a tabulation of all monitoring and analytical results obtained during the reporting period, including sampling/monitoring locations and dates;

(b) a tabulation of daily volumes of effluent disposed of through the subsurface disposal system during the reporting period;

(c) a record of system maintenance undertaken during the reporting period; and

(d) an account of any environmental and operating problems encountered at the site and the mitigative measures taken during the reporting period.

6. GENERAL CONDITION

6.1 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.

6.2 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.

7. RESPONSIBILITY AGREEMENT

7.1 In accordance with the Ministry Procedure D-5-2 entitled "Application of Municipal Responsibility for Communal Water and Sewage Services", the Owner has signed a Responsibility Agreement with Town of The Blue Mountains.

Prior to the operation of the sewage works approved herein, the Owner shall register the certificate of prohibition, signed by the Director and provided with this approval, in the appropriate Land Registry Office.

The Owner shall submit a certified copy of the registered certificate of prohibition to the Director and District Manager.

Any dealings with the property are prohibited in any way without first giving a copy of this Certificate of Approval and the Responsibility Agreement to each person acquiring an interest in the property.

7.2 In the event that a municipality or other public authority with the power to provide sewage service to the users of the approved sewage works, determines to do so directly, pursuant to the Responsibility Agreement or otherwise, or is required, by the Medical Officer of Health or the Director, to do so, the Owner shall, without compensation, transfer to Town of The Blue Mountains, such parts of the approved works and any related interests in land required for the works as are determined by Town of The Blue Mountains.

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

1. Conditions 1.1 and 1.2 are included to ensure that the works are constructed, and may be operated and maintained such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented.

2. Condition 2.1 is included to ensure that the flow of sewage to the sewage system is within the approved treatment capacity of the works.
3. Conditions 3.1 and 3.2 relating to monitoring and recording the quality and quantity of treated effluent discharged to the subsurface disposal system, and the quality of the groundwater are required to enable the Owner to evaluate the performance of the works and to ensure that it is operated and maintained at a level which is consistent with the design objectives and other requirements of this certificate.
4. Conditions 4.1 through 4.4 are included to ensure that the works will be operated and maintained in a manner enabling compliance with the terms and conditions of this certificate, such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented.
5. Conditions 5.1 and 5.2 are included to ensure that all pertinent information is available for the evaluation of the performance of the sewage works.
6. Condition 6.1 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.
7. Condition 6.2 is imposed 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.
8. The reason for Condition 7.1 is to ensure that there is a Responsibility Agreement in place between the Owner and Town of The Blue Mountains prior to the operation of this works.
9. The reason for Condition 2 is to ensure that the Owner transfers to Town of The Blue Mountains any related interest in land required for the operation of this works without compensation.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 0693-666NEA issued on January 27, 2005, Certificates of Approval No. W0413/78 and W0414/78 both issued on September 26, 1978.

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
2300 Yonge St., Suite 1700
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

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

CONTENT COPY OF ORIGINAL

* 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 24th day of March, 2006

Mohamed Dhalla, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

HV/

c: District Manager, MOE Barrie District Office
Area Supervisor, MOE Owen Sound Area Office
Stephen Keast, Town of The Blue Mountains
Darryl M. Robins, P.Eng, Henderson Paddon & Associates Limited