



Ministry  
of the  
Environment

Ministère  
de  
l'Environnement

AMENDED CERTIFICATE OF APPROVAL  
MUNICIPAL AND PRIVATE SEWAGE WORKS  
NUMBER 1717-5VDRU5

Ontario

The Corporation of the Municipality of Grey Highlands  
PO Box 409  
Markdale, Ontario  
N0C 1H0

Site Location: Amik Wastewater Treatment Works  
Lot 8, 9, Concession 5, Township of Euphrasia  
Grey Highlands Municipality, County of Grey

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

modifications to the existing Amik Municipal Sewage Treatment Plant to achieve a "Rated Capacity" of 431 m<sup>3</sup>/d, all located on the southwest corner of the intersection of Grey County Road No. 7 and Sideroad Between Lot 9 and Lot 10, serving the Amik Subdivision and Talisman Mountain Resort, located in the Municipality of Grey Highlands (formerly Township of Euphrasia) including the construction of the following sewage works as follows:

- a raw sewage pumping station consisting of an inground wet well equipped with two (2) submersible sewage pumps (one duty, one standby) with forcemain discharge piping to both cells of the facultative lagoon system, flowmeter and recorder (replacing existing raw sewage flowmeter in upstream manhole), valves and piping, together with an adjacent pole mounted, lockable, weatherproof pump control panel with alarm;
- installation of a high liquid level alarm in facultative lagoon Cell No. 1 to prevent overflow;
- facultative lagoon Cell No. 2 to have seasonal aeration;
- modification to the existing treated effluent piping to allow land application by spray irrigation, overland flow and discharge to the wetland areas;
- treated effluent polishing on a total of 27.11 hectares including a spray irrigation area of 11.31 hectares, an overland flow area of 7.7 hectares and a wetland polishing area of 8.1 hectares;
- fencing of the entire sewage treatment facility including lagoons, spray irrigation area and area accepting overland flow and wetland treatment;

all in accordance with the Optimization Study report dated March 2000, revised October 2002, and enclosed plans and Water Quality/Biological Assessment report dated February 2001, prepared by Henderson, Paddon & Associates Limited, Consulting Engineers.

*This Certificate incorporates the following "Previous Works" approved under Certificate of Approval No. 3-0749-81-887 dated August 10, 1988:*

An extension to the existing 29,000 m<sup>3</sup> waste stabilization pond (with an average surface area of 1.9 ha) serving Talisman Estates (Amik) Subdivision located in part of Lots 8 and 9, Concession V, in the Township of Euphrasia consisting of:

Aerated/Facultative Lagoon -Construction of a 62,000 m<sup>3</sup> capacity aerated/facultative lagoon cell with a normal operating depth of 3.7m and an average surface area of 1.7 hectares.

Aeration Equipment -Consisting of four (4) - 5.6 Kw electric motor driven propeller aspiration type aeration unit for installation in the new aerated/facultative lagoon cell and one (1) 5.6 Kw electric motor driven propeller aspirator type aeration unit for installation in the existing lagoon, if required.

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Spray Irrigation -related spray irrigation equipment and related piping.

Pump Building - Consisting of a sewage transfer pump and a spray irrigation pump, related piping and electrical controls.

Sanitary Sewer -From an existing manhole upstream of the existing lagoon cell to the new aerated lagoon cell.

all in accordance with the plans prepared by Ainley and Associates Limited, Consulting Engineers.

*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;

"*Seasonal Average Concentration*" means the arithmetic mean of the *Monthly Average Concentrations* of a contaminant in the effluent calculated for the discharge season for any particular calendar year;

"*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;

"*Average Effluent Application Rate*" means the total volume of effluent applied to a spray irrigation field during a particular spray irrigation season divided by the number of days within that season during which effluent was actually applied to that field;

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

"*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;

"*Daily Concentration*" means the concentration of a contaminant in the effluent discharged over any single day, as measured by a composite or grab sample, whichever is required;

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

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

"*E. Coli*" refers to the thermally tolerant forms of *Escherichia* that can survive at 44.5 degrees Celsius;

"*Geometric Mean Density*" is the nth root of the product of multiplication of the results of n number of samples over the period specified;

"*Individual Waste Loading*" means the loading expressed in kilograms per day and calculated by multiplying the concentration of a parameter in a sample by the total volume of effluent discharged from the works during the day in which the sample is taken;

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

"*Monthly Average Concentration*" means the arithmetic mean of all *Daily Concentrations* of a contaminant in the effluent sampled or measured, or both, during a calendar month;

"*Monthly Average Loading*" means the value obtained by multiplying the *Monthly Average Concentration* of a contaminant by the *Average Daily Flow* over the same calendar month;

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"*Owner*" means Municipality of Grey Highlands and includes its successors and assignees;

"*Peak Flow Rate*" means the maximum rate of sewage flow for which the plant or process unit was designed;

"*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*;

"*Rated Capacity*" means the *Average Daily Flow* for which the *Works* are approved to handle;

"*Regional Director*" means the Regional Director of the Southwestern Region of the Ministry;

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

"*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

#### 1. GENERAL PROVISIONS

- (1) This *Certificate* incorporates and amends, where applicable, all certificates, applications and supporting documentation.
- (2) 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.
- (3) 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*.
- (4) 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.
- (5) 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.
- (6) 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. 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 Informations 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*.

### 3. PLANS

Within one year of the date of the construction of the works, an up-to-date 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* for the operational life of the *Works*.

### 4. 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

(c) the *Regional Director* has given prior written acknowledgment of the *By-pass*.

(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.

### 5. EFFLUENT OBJECTIVES

(1) The *Owner* shall use best efforts to:

(a) maintain the pH of the effluent from the *Works* within the range of 6 to 9.5, inclusive, at all times;

(b) operate the works within the *Rated Capacity* of the *Works*;

(c) ensure that the effluent from the *Works* is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discolouration on the receiving waters.

(2) The *Owner* shall include in all reports submitted in accordance with Condition 10 a summary of the efforts made and results achieved under this Condition.

### 6. EFFLUENT LIMITS

(1) The *Owner* shall design and operate and maintain the *Works* such that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent from the *Works*.

<b>Table 1 - Lagoon Cell No. 2 Effluent Limits</b>	
<b>Effluent Parameter</b>	<b>Maximum Concentration*</b> (milligrams per litre unless otherwise indicated)
<i>CBOD5</i>	30
<i>Total Suspended Solids</i>	60
<i>Total Phosphorus</i>	2
<i>Total Kjeldahl Nitrogen (as N)</i>	6

NOTE: \* - seasonal discharge average concentration from April 1 to October 31 on a yearly basis.

(2) For the purposes of determining compliance with and enforcing subsection (1):

(a) The ***Seasonal Average Concentration*** of a parameter named in Column 1 of Table 1 of subsection (1) shall not exceed the corresponding maximum concentration set out in Column 2 of subsection (1).

(3) Paragraph (a) of subsection (2) shall apply upon the issuance of this certificate.

(4) Only those monitoring results collected during the corresponding time period shall be used in calculating the ***Seasonal Average Concentration*** for this *Certificate*.

#### 7. Lagoons, Spray Irrigation, Overland Flow and Wetland Effluent Polishing

(1) The *Owner* shall ensure that the Lagoons, Spray Irrigation, Overland Flow and Wetland Effluent Polishing system is operated such that:

(a) The Owner shall ensure that the raw sewage is stored in the lagoons between November 1 and April 1 of each year and that the annual average daily flow of sewage into the sewage treatment plant (lagoons) does not exceed 431 m<sup>3</sup>/d or 157,200 m<sup>3</sup>/year during any one (1) calendar year;

(b) The Owner shall ensure that the discharge of treated effluent to the wetland areas for polishing does not exceed a maximum hydraulic loading rate of 521 m<sup>3</sup>/d during the periods between April 1 to April 30 and from October 1 to October 31 of each year for a total of 31,800 m<sup>3</sup>/year;

(c) During the period between May 1 and September 30, the Owner shall ensure that the combined discharge of treated sewage effluent by spray irrigation, overland flow and discharge to the wetland areas does not exceed a maximum discharge of 142,800 m<sup>3</sup>/year during that period. Should it be necessary to operate the spray irrigation or overland flow system prior to May 1 or after September 30 of any year, the Owner shall obtain a prior written approval for such an extended operation from the District Manager on a case-by-case basis.

(d) During the period between April 1 and October 31, the Owner shall ensure that the discharge of treated sewage effluent to the effluent polishing areas does not exceed a maximum discharge of 174,300 m<sup>3</sup>/year during that period.

(2) the disposal of effluent via spray irrigation, overland flow and wetland polishing, is applied only on the areas as identified on Drawing No. 197057-02 "Property and Buffer Land Assessment Wastewater Treatment Plant Amik Sewage System dated April 2002 with a latest revision date of October 10, 2002; and

(3) no spray irrigation is to take place:

a) on frozen ground or during the seven (7) month period between October 1 of any calendar year and April 30 of the subsequent year;

- b) with the occurrence of rainfall or aerosol drift off the property; and;
- c) at an "*Average Effluent Application Rate*" greater than 55 cubic metres per hectare of spray irrigation area per day and a maximum hydraulic loading rate of 57,433 cubic meters per year.

#### 8. 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) In furtherance to subsection (1), the *Owner* shall prepare an operations manual within twelve (12) months of the date of the issuance 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) contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations and for notifying the *District Manager*; and
- (f) procedures for receiving, responding and recording public complaints, including recording any followup actions taken.

(3) The *Owner* shall maintain the operations manual up to date through revisions undertaken from time to time 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* personnel.

(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 435/93.

#### 9. EFFLUENT MONITORING AND RECORDING

The *Owner* shall, upon the issuance of this certificate, 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) For the purposes of this condition, the following definitions apply:

- (a) Daily means once each day;
- (b) Weekly means once each week;
- (c) Bi-weekly means once every two weeks;
- (d) 3/week means three times per week
- (e) Monthly means once every month;
- (f) Bi-monthly means once every two months;
- (g) Quarterly means once every three months; and
- (h) Annually means once every twelve months.

(3) Samples of raw sewage and final effluent (ahead of the treated effluent spray irrigation, overland flow and wetland

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polishing area) and surface water (at the three tributaries of the Beaver River crossing County Road 7), shall be collected at locations satisfactory to the District Manager and analyzed for at least the following parameters at the indicated **minimum** frequencies during the effluent polishing season from April 1 to October 31:

<b>Table 2a - Raw Sewage Monitoring - (Sample Point)</b>		
<b>Parameters</b>	<b>Sample Type</b>	<b>Frequency</b>
<i>CBOD5</i>	grab	monthly
<i>Total Suspended Solids</i>	grab	monthly
<i>Total Phosphorus</i>	grab	monthly
<i>Total Kjeldahl Nitrogen</i>	grab	monthly

<b>Table 2b - Lagoon Cell No. 1 Monitoring - (Sample Point)</b>		
<b>Parameters</b>	<b>Sample Type</b>	<b>Frequency</b>
<i>CBOD5</i>	grab	monthly
<i>Total Suspended Solids</i>	grab	monthly
<i>Total Phosphorus</i>	grab	monthly
<i>Total Kjeldahl Nitrogen</i>	grab	monthly

<b>Table 2c - Final Lagoon Treated Effluent Monitoring - (Sample from Lagoon Cell No. 2)</b>		
<b>Parameters</b>	<b>Sample Type</b>	<b>Frequency</b>
<i>CBOD5</i>	grab	monthly
<i>Total Suspended Solids</i>	grab	monthly
<i>Total Phosphorus</i>	grab	monthly
<i>Total Kjeldahl Nitrogen</i>	grab	monthly

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<b>Table 2d - Surface Water Monitoring</b> - [Sample Points, on at each of three (3) tributaries of the Beaver River crossing County Road No. 7)		
<b>Parameters</b>	<b>Sample Type</b>	<b>Frequency</b>
<i>CBOD5</i>	grab	monthly
<i>Total Suspended Solids</i>	grab	monthly
<i>Total Phosphorus</i>	grab	monthly
<i>Total Kjeldahl Nitrogen</i>	grab	monthly
<i>Total (Ammonia + Ammonium) Nitrogen</i>	grab	monthly
<i>Nitrates</i>	grab	monthly
<i>Nitrites</i>	grab	monthly
<i>pH</i>	grab	monthly
<i>Temperature</i>	grab	monthly

<b>Table 2e - Groundwater Monitoring from Two (2) Monitoring Wells at Lagoon Cell No. 2- (Sample Point)</b>		
<b>Parameters</b>	<b>Sample Type</b>	<b>Frequency during May &amp; September</b>
<i>Chloride</i>	grab	monthly
<i>CBOD5</i>	grab	monthly
<i>Total Phosphorus</i>	grab	monthly
<i>Total Kjeldahl Nitrogen</i>	grab	monthly
<i>Total (Ammonia + Ammonium) Nitrogen</i>	grab	monthly
<i>Nitrates</i>	grab	monthly
<i>Nitrites</i>	grab	monthly
<i>E. Coli</i>	grab	monthly
<i>Total Coliform</i>	grab	monthly
<i>Ground Water Level</i>	static level	monthly

(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);

(b) the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (August 1994), ISBN 0-7778-1880-9;

(c) the publication "Standard Methods for the Examination of Water and Wastewater" (20th edition);



(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); and,

(5) The temperature and pH of the effluent from the Works shall be determined in the field at the time of sampling for total ammonia. The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended, for ammonia (un-ionized).

(6) The measurement frequencies specified in subsection (3) in respect of any parameter are minimum requirements which may, after (6) months of monitoring in accordance with this Condition, be modified by the *District Manager* in writing from time to time.

(7) Daily quantities of sewage being conveyed to the sewage treatment plant (lagoons) and the lagoon effluent being disposed on the effluent polishing land area by spray irrigation, overland flow and wetland polishing, shall be measured or estimated, and recorded.

(8) 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*.

#### 10. REPORTING

(1) Ten (10) days prior to the date of a planned *By-pass* being conducted pursuant to Condition 4, 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) The *Owner* shall report to the *District Manager* or designate, any exceedence of any parameter specified in Condition 5 orally, as soon as reasonably possible, and in writing within seven (7) days of the exceedence in a format acceptable to the District Manager.

(3) 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.

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

(5) The *Owner* shall prepare, and submit upon request in a format acceptable to the District Manager, a performance report, on an annual basis, within 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 limits outlined in Condition 6 including an overview of the success and adequacy of the *Works*;

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

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

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

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

- (f) a description of efforts made and results achieved in meeting the Effluent Objectives of Condition 5.
- (g) a tabulation of the volume of sludge generated in the reporting period and a summary of the locations to where the sludge was disposed;
- (h) a summary of any complaints received during the reporting period and any steps taken to address the complaints;
- (i) a summary of all *By-pass*, spill or abnormal discharge events;
- (j) spray irrigation, overland flow and wetland effluent polishing days, hours of operation and sewage volumes tabulated on a monthly basis and comparison with the requirements of Condition No. 7; and
- (k) any other information the *District Manager* requires from time to time.

## 11. REVOCATION OF EXISTING APPROVALS

11.1 The descriptions of the approved works and conditions of approval in this certificate apply in place of all existing descriptions and conditions in the certificates of approval under the Ontario Water Resources Act for sewage works which are part of the works approved by this certificate.

11.2 Notwithstanding Condition 11.1 above, the original applications for approval, including design calculations, engineering drawings and reports prepared in support of the existing certificate(s) of approval whose descriptions of the approved works and conditions are now replaced pursuant to Condition 11.1 above, shall form part of this certificate.

11.3 Where an existing certificate of approval referred to in Condition 11.1 above applies to works in addition to the works approved by this certificate, it shall continue to apply to those additional works.

## 12.0 GENERAL CONDITION

12.1 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.

12.2 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.

## 13. FINAL APPROVAL

13.1 The Owner shall not construct, or allow the construction of any portion of the new modifications until detailed design drawings, specifications and an engineer's report containing detailed design calculations for that portion of the works have been submitted to and approved by the Director.

*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 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.

3. Condition 3 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.
4. Condition 4 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 effluent 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.
5. Condition 5 is imposed to establish non-enforceable effluent quality objectives which the *Owner* is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs and before the compliance limits of Condition 6 are exceeded.
6. Conditions 6 and 7 are imposed to ensure that the effluent discharged from the *Works* meets the *Ministry's* effluent quality requirements thus minimizing environmental impact on the receiver and to protect water quality, fish and other aquatic life in the receiving water body.
7. Condition 8 is 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 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*. 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.
8. Condition 9 is 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 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.
10. Conditions 11.1 through 11.3 are included to stipulate that this certificate replaces all previous approvals for the works being the subject of this certificate, and that the existing approvals remain in force for the purpose of any works which are not subject to this certificate.
11. Conditions 12.1 and 12.2 are 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.
12. Condition 13 is included due to the provisional nature of the supporting documentation submitted by the *Owner* with the application for approval. The Director has only approved the works in principle, and this condition will to ensure that, in accordance with the provisions of the *Ontario Water Resources Act*, prior to the commencement of construction of any part of the works, the Director will have the opportunity to review detailed design drawings, specifications and an engineer's report containing detailed design calculations for that portion of the works, in order to determine the proposed works' capability to comply with the *Ministry's* requirements stipulated in the terms and conditions of the certificate.

**This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 7319-5GVM33 issued on December 19, 2002 and Certificate of Approval No. 3-0749-81-887 issued on August 10, 1988**

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*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., 12th Floor  
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

**\* 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 23rd day of January, 2004

Bozena Manowski  
Director  
Section 53, *Ontario Water Resources Act*

JC/  
c: District Manager, MOE Barrie District Office  
MOE Owen Sound Area Office  
MOE Standards Development Branch  
M.R. Slaughter, P. Eng., Henderson, Paddon & Associates Limited