



Ministry
of the
Environment

Ministère
de
l'Environnement

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 5600-53RPUL

Wycliffe Westbury Limited
34 Doncaster Avenue
Thornhill, Ontario
L3T 1L3

Site Location: Wycliffe Diamond Homestead
Part of Lots 74 and 75, Concession 1
Aurora Town, Regional Municipality of York

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

a stormwater works including stormwater management facilities comprising of three (3) stormwater management ponds, nineteen (19) infiltration trenches, conveyance and enhanced drainage system (grass lined swales) and two (2) oil/grit separators eventually discharging to a Holland River, to be constructed to service the total of 26.3 ha residential development called Diamond Homestead Subdivision, bounded by Vandorf Road to the north, the approved Stonebridge development to the east, and the Beacon Hall Golf Club to the south and west located within Part of Lots 74 and 75, Concession 1 in the Town of Aurora as follows:

North Stormwater Management Pond No.1

A stormwater management facility receiving a stormwater run-off from 3.0 ha drainage development area to provide water quantity, quality and erosion control functions, sized to provide a detention for the first 25 mm rainfall run-off to attenuate the peak post-development flows to peak pre-development flows for major storm events as follows:

Storm event Pre-Development flow Post-Development Maximum Controlled Flow

25 mm -- 0.004 m³/s
2 yrs. 0.05 m³/s 0.040 m³/s
5 yrs. 0.07 m³/s 0.060 m³/s
100 yrs. 0.20 m³/s 0.190 m³/s

Water quantity control is provided by an active storage of approximately 810 m³ with a maximum ponding depth of 0.8 m.

Outlet control structure will consist of a 300 mm dia Hickenbottom pipe equipped with a 60 mm dia orifice plate discharging up to 0.19 m³/s for the 100 year design storm to the drainage system being a branch of the Holland River and including a one-metre wide overflow weir for a flood control.

South Stormwater Management Pond No. 2

A stormwater management facility receiving a stormwater run-off from 6.0 ha drainage development area to provide water quantity, quality and erosion control functions, sized to provide a detention for the first 25 mm rainfall run-off to attenuate the peak post-development flows to peak pre-development flows for major storm events as follows:

Storm event Pre-Development flow Post-Development Maximum Controlled Flow

25 mm -- 0.008 m³/s
2 yrs. 0.04 m³/s 0.090 m³/s
5 yrs. 0.14 m³/s 0.140 m³/s
100 yrs. 0.30 m³/s 0.350 m³/s

Water quantity control is provided by an active storage of approximately 1710 m³ with a maximum ponding depth of 2.75 m.

Outlet control structure will consist of a 350 mm dia Hickenbottom pipe equipped with a 50 mm dia orifice plate discharging up to $0.35 \text{ m}^3/\text{s}$ for the 100 year design storm to the drainage system being a branch of the Holland River and including a one-metre wide overflow weir for a flood control.

Central Stormwater Management Pond No.3

A stormwater management facility receiving a stormwater run-off from 0.7 ha drainage development area to provide water quantity, quality and erosion control functions, sized to provide a detention for the first 25 mm rainfall run-off to attenuate the peak post-development flows to peak pre-development flows for major storm events as follows:

Storm event Pre-Development flow Post-Development Controlled Flow

25 mm -- $0.001 \text{ m}^3/\text{s}$
2 yrs. $0.04 \text{ m}^3/\text{s}$ $0.020 \text{ m}^3/\text{s}$
5 yrs. $0.06 \text{ m}^3/\text{s}$ $0.050 \text{ m}^3/\text{s}$
100 yrs. $0.10 \text{ m}^3/\text{s}$ $0.100 \text{ m}^3/\text{s}$

Water quantity control is provided by an active storage of approximately 150 m^3 with a maximum ponding depth of 0.67 m.

Outlet control structure will consist of a 300 mm dia Hickenbottom pipe equipped with a 50 mm dia orifice plate discharging up to $0.10 \text{ m}^3/\text{s}$ for the 100 year design storm to the drainage system being a branch of the Holland River and including a one-metre wide overflow weir for a flood control.

Infiltration Trenches

Nineteen (19) subsurface infiltration trenches (20 m long, 1.2 m wide, 0.8 m deep) to provide water quality, each trench complete with one (1) 150 mm dia perforated pipe surrounded by a 20 mm dia clear stone and protected from soil clogging with a filter fabric to be located behind condominium housing units.

Oil/Grit Separators

Two (2) oil/grit separators, one located immediately upstream of Pond No.2 and the other upstream of the Pond No.3., each having a sediment capacity of 5,660 L, an oil capacity of 915 L, total holding capacity of 7,525 L and a maximum treated flow rate of 18 L/s, discharging respectively to Ponds No.2 and 3.

including a temporary erosion/sedimentation stormwater management facilities and practices during construction;

all in accordance with the following supporting documents:

1. Application for Approval of Municipal and Private sewage Works, dated March 23, 2001, submitted by Gary Bensky of Wycliffe Westbury Limited.
2. Stormwater Management Report, Wycliffe Diamond Homestead, Town of Aurora, dated February 2001, revised May 2001, prepared by URS Cole, Sherman & associates Limited.
3. Addendum Hydrogeological Report, Wycliffe Diamond Development, Town of Aurora, dated January 2001, prepared by W. B. Beatty & Associates Ltd.
4. Fax dated October 17, 2001 and letter dated October 24, 2001 from Brian Plazek of URS Cole to Bozena Manowski of the Ministry.

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

- (1) "Owner" means Wycliffe Westbury Limited;
- (2) "Environmental Appeal Board" means the Environmental Review Tribunal established pursuant to the *Environmental Review Tribunal Act*;
- (3) "dia" means diameter;
- (4) "ha" means hectares;
- (5) "m" means metres;
- (6) "m³" means cubic metres;
- (7) "m³/s" means cubic metres per second;
- (8) "mm" means millimetres;
- (9) "L" means Litres; and
- (10) "L/s" means Litres per second.

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

TERMS AND CONDITIONS

1. The Owner shall make all necessary investigations, take all necessary steps and obtain all necessary approvals so as to ensure that the physical structure, siting and operations of the stormwater works do not constitute a safety or health hazard to the general public.
2. The Owner shall ensure that sediment and excessive decaying vegetation are removed from the above noted stormwater management system at such a frequency as to prevent the excessive buildup and potential overflow of sediment and/or decaying vegetation into the receiving watercourse.
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. The Owner shall design, construct and operate the oil/grit separators with the objective that no visible oil sheens occur in the effluent discharged from the oil/grit separator.
6. The Owner shall carry out and maintain an annual inspection and maintenance program on the operation of the oil/grit separator in accordance with the manufacturer's recommendation.
7. After two (2) years period, the District Manager may alter the frequency of inspection of the oil/grit separators if he/she is requested to do so by the Owner and considers it acceptable upon review of information submitted in support of the request.

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

1. Condition 1 is imposed because it is not in the public interest for the Director to approve facilities which, by reason of potential health and safety hazards do not generally comply with legal standards or approval requirements falling outside the purview of this Ministry.
2. Condition 2 is included as regular removal of sediment and excessive decaying vegetation from this approved stormwater management system are required to mitigate the impact of sediment and/or decaying vegetation on the

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downstream receiving watercourse. It is also required to ensure that adequate storage is maintained in the stormwater management facilities at all times as required by the design.

3. Condition 3 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.
4. Condition 4 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.
5. Conditions 5, 6 and 7 are imposed to ensure that oil/grit separators are operated and maintained without any adverse impact on the environment.

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 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 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
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 Appeal Board's requirements for an appeal can be obtained directly from the Board 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 7th day of November, 2001

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

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BM/

c: District Manager, MOE York-Durham District Office

Brian Plazek, P.Eng., URS Cole Sherman

W. Jackson, Town of Aurora