



# re: Hydrogeological Response to City Comments Proposed Industrial Redevelopment 135 Cardevco Road – Carp - Ontario

- to: Premier Bus Lines Inc. Eric Hochgeschurz
- to: Arbaum Architects Mariana Palos marianapalos@arbaum.com
- date: May 16, 2023
- file: PH4600-MEMO.02

Further to your request and authorization, Paterson Group (Paterson) prepared the following memorandum to provide responses to the hydrogeological-related comments from the City of Ottawa listed in the letter dated March 14, 2023 (File No. D07-12-22-0173) regarding the proposed industrial redevelopment at the aforementioned site. This memorandum should be read in conjunction with Paterson Hydrogeological Report PH4600-1-REV.01 dated May 16, 2023.

# **Hydrogeological Comments**

# Comment 29

Well inspection report – not received, as requested during the pre-application consultation on July 07, 2022. Well inspection report is not the same as the Well record.

Visual inspection of the well (casing stickup, well cap) and a professional opinion that the well is in good condition, is required, ensuring that the final grading around the well meets O.Reg 903; i.e. casing must be a minimum of 40cm above ground surface, and the area around the wellhead must be sloped away from the well to avoid pooling of surface water around the wellhead.

This information can be provided as part of the Hydrogeological and Terrain Analysis update.

#### Response:

Report has been updated.

# Comment 14:

No infiltration/percolation testing was provided for SWM & septic field design, due to a highly vulnerable aquifer and groundwater recharge area present on site, as advised/informed during the pre-application consultation.



# **Response:**

The septic field design and supporting documentation is reviewed and approved by the Ottawa Septic System Office (OSSO) as per requirements of Part 8 of the Ontario Building Code. The associated T-time was assessed, reviewed and approved per standard practice of OBC by the OSSO, which reviews sewage system designs on behalf of the City of Ottawa. Additionally, having a highly vulnerable aquifer (HVA) or a groundwater recharge area (GRA) mapped onsite is related to Source Water Protection and has no restrictions related to placement of a sewage system within either of those areas. The requirements for Infiltration / percolation testing for SWM are to be addressed by the SWM engineer.

# Comment 25:

No boreholes have been provided in the area near the proposed septic bed and GWT elevation might be of concern due to highly vulnerable aquifer onsite; infiltration and long-term groundwater protection might be of concern and this relates to the Hydrogeological terrain analysis findings based on the geotechnical investigation.

# **Response:**

A sewage system design and associated application for a Ottawa Septic System Office (OSSO) sewage system installation permit will be submitted to the OSSO. The OSSO is a regulatory body which the City of Ottawa has retained for permitting purposes and is managed by the Rideau Valley Conservation Authority, for the precise purpose of regulating the sewage system application process in Ottawa. The HVA is noted under the Mississippi-Rideau Source Protection Plan and there are no restrictions related to placement of sewage systems within an HVA. The system has been designed to be in compliance with Part 8 – OBC.

We trust that the current submission meets your immediate requirements.

Best Regards,

Paterson Group Inc.

Erik Ardley, P.Geo.

Michael S. Killam, P.Eng.

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