

From: [Michael Oberle](#)
To: [Holly Malynyk](#)
Cc: [Jon Ingram](#); [Brad Baker](#); kingwoodplating@live.ca; [Barbara Dobreen](#)
Subject: File B7-21 (NB Wood Machining Inc. c/o Bowman) updated SVCA comments
Date: June 9, 2022 2:04:42 PM
Attachments: [BOW-21058-Location Plans-LP-1.pdf](#)

Good afternoon Ms. Holly Malynyk,

This email is further to the email of below and telephone conversation that I had with Jon Ingram from Jones Consulting yesterday.

This email is also further to SVCA comments dated November 18, 2021 regarding the above referenced file.

Please be advised that the Jones Flood Assessment dated January 25, 2022, and the responses of below, together with the attached location plan signed and stamped dated June 8, 2022, are generally acceptable to the SVCA.

Therefore, regarding the above referenced application, SVCA concerns with regard to natural hazard and natural heritage policy have been addressed. The Flood Assessment and the EIS are generally acceptable to the SVCA.

The consent application B7-21 is generally acceptable to the SVCA.

As part of the proposed development, an SVCA permit will be required for the watercourse crossing. As part of the SVCA permit process, SVCA will require that the recommendations from Flood Assessment and the EIS be followed.

I trust that this is helpful. Should you have any question, please do not hesitate to contact this office.

Kind regards,

Mike

Michael Oberle

Environmental Planning Technician

Saugeen Conservation

Cell: 519-373-4175

From: Jon Ingram <JIngram@jonesconsulting.com>
Sent: June 8, 2022 3:56 PM
To: Michael Oberle <m.oberle@SVCA.ON.CA>
Cc: Solomon Martin <kingwoodplating@live.ca>; Brad Baker (bbaker@birksnhc.ca) <bbaker@birksnhc.ca>; hmalynyk@southgate.ca
Subject: RE: Bowman comments

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Hi Michael,

Thank you for your assistance today. Please see below responses to your comments:

1. The storm events up to the 100-year event were included, why was the Hurricane Hazel (the regional storm in the SVCA watershed) not used. The regional storm data will need to be calculated and included to ensure safe access to the proposed building envelope.

The OFAT tool uses several methods to calculate both low flow and flood flow values. Flood flow is calculated via two methods:

- Flood Flow: Index Flood Method with EPA (Moin & Shaw 1985) – This method calculates flows from Storm Return Periods from the 1:1.25 to the 1:500 year storms. Note that the 1:500 year return period storm is considered greater than the regional Hurricane Hazel storm. The Hurricane Hazel storm is generally coincides with a 1:250 year storm
- Flood Flow: Primary Multiple Regression (Moin & Shaw 1985) – This method calculates flows from the Storm Return Periods from the 2 year to 100 year storms.

The 100 year flow associated with the Primary Multiple Regression Method was greater than the 500 year storm calculated through the Index flood method. Accordingly, we used the larger flows determined from the Primary Multiple Regression Method to confirm safe access can be provided to the development.

2. The report assumes that flow rates are restricted by the upstream and downstream culvert size, however, does the report address overtopping of the existing culverts and or blockages (if applicable). Please explain.

The report states that the upstream and downstream culverts are sized to allow the 100 year flow. Since this is the governing flow, overtopping should not occur except during extreme circumstances. A blockage in the upstream culvert would not impact the development since the water would make its way back into the channel before reaching the proposed crossing. A blockage to the downstream Southgate SDR 21 culvert would cause water to back up into the subject property and would eventually overtop the road. Southgate SDR 21 has an approximate elevation of 490.00 at the crossing. Our proposed crossing is at an elevation of approximately 491.35, as such, a blockage to the downstream would not impact safe access/egress to the proposed development. The proposed culvert crossing will have no impact on either the upstream or downstream culverts.

3. The report states no impact of flooding on upstream or downstream properties, can the report also address any erosion concerns upstream or downstream. Please explain.

The proposed crossing is located approximately 300m downstream and 600m upstream of the nearest culverts. The proposed crossing does not impact channel flow or velocity through this reach, as such, there is no concerns of erosion resulting from installation of the crossing.

4. Is a cut/fill balance analysis required as new material for the crossing will be placed in the floodplain. Please explain.

The proposed crossing will add approximately 3.5m³ of material into the flood plain. As this volume is less than your fill exemption requirements, we do not expect any cut/fill balance within the floodplain will be required.

5. Please identify the floodplain of the watercourse.

A floodplain in the area immediately surrounding the crossing has been identified on the revised plans. Refer to attached drawing.

Thanks,

Jon W. Ingram, P. Eng.

Associate Partner

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We are closely monitoring the situation and are following the practices recommended by local and international authorities to minimize the risk of exposure to the novel coronavirus (COVID-19) while doing everything in our power to ensure that our services continue uninterrupted.

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