



October 21, 2019

Via: Email

Mr. Koryun Shahbikian
Associate
Schaeffer and Associates Limited
6 Ronrose Drive
Concord ON L4K 4R3

Dear Mr. Shahbikian:

**Re: Infiltration Testing - Di Poce Lands Barrie
Project No.: 300041886.0000**

R.J. Burnside & Associates Limited (Burnside) has been undertaking a hydrogeological study on the Di Poce Lands in Barrie since 2018. Based on recent comments received from the Nottawasaga Valley Conservation Authority (NVCA) we have been advised of the need to conduct infiltration testing in the area of a proposed infiltration cell within SWM Pond H on the subject lands. The attached plan shows the area of the subject lands where the testing will be completed.

In response to this request Burnside proposes to conduct infiltration testing in the area of the infiltration cell using the Guelph Permeameter. Our testing will be conducted in up to four locations within the footprint of the infiltration cell in order to determine the in situ infiltration rate of the native sediments. It is our understanding that earthworks have begun in the area and that the current grade in the infiltration cell area is within 1 m of the proposed final elevation of the base of the cell. These conditions are therefore suitable for the infiltration testing to be conducted in this area. Burnside will therefore complete the infiltration testing using the Guelph Permeameter. In addition to the infield testing, up to two soil samples from the tested materials will be submitted to a laboratory for grainsize analysis. The grainsize analysis results will be used to augment the permeameter tests. The results of the testing will be summarized in a short letter/report and will be provided as soon as they are complete. It is expected that the testing will provide clear insight into infiltration in the area of the proposed infiltration cell.

If you have any questions, please do not hesitate to contact us.

Yours truly,

R.J. Burnside & Associates Limited



Dwight Smikle, M.Sc., P.Geo.
Senior Hydrogeologist
DS:cl



Stephanie Charity, B.Sc., P.Geo.
Hydrogeologist

Enclosure(s) Figure A1 – Location of Infiltration Cell

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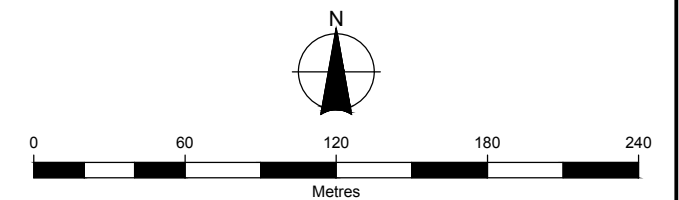
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LEGEND

- SUBJECT LANDS
- WATERCOURSE
- ⊕ MONITORING WELL (TERRAPROBE, 2011)
- ⊕ MONITORING WELL (TERRAPROBE, 2018)
- PROPOSED STORMWATER MANAGEMENT POND LOCATION
- PROPOSED INFILTRATION BED LOCATION



Client / Report
 DI POCE MANAGEMENT INC,
 BARRIE, ONTARIO
 HYDROGEOLOGICAL ASSESSMENT
 IN SUPPORT OF DRAFT PLAN

Figure Title
**LOCATION OF
 INFILTRATION CELL**

Drawn SK	Checked SC	Date OCTOBER 2019	Figure No. A1
Scale 1:3,000	Project No. 300041886		