



**To:** Township of North Dumfries  
Engineering and Public Works Department

**MTE File No.:** C55318-200

**Date:** November 7, 2024

**From:** Chelsea Dahmer, P.Eng.

**Project Name:** 50 Rose Street

**Re: SWM Technical Memorandum**

**Registered Plan: Plan 67 R – 1718 ; Assessment Roll #: 300101000114505**

MTE Consultants Inc. was retained to complete the grading and servicing design for the proposed single residential dwelling to be constructed at 50 Rose Street in Ayr, Township of North Dumfries.

The site is bounded to the north and south by existing residential dwellings, to the east by Rose Street, and to the west by the Nith River. The site is currently vacant and comprises approximately 0.103ha. The developable area for the proposed dwelling is 0.055ha due to required setbacks from the Nith River. Under the proposed conditions, the site's imperviousness will be 31.8%.

In the existing condition, drainage from the site currently drains towards the Nith River to the west of the site. Under the proposed condition, runoff from the driveway and a portion of landscape area at the front of the site will drain towards the Rose Street right-of-way. Runoff generated from the building rooftop, side and rear yards is proposed to drain towards the Nith River.

No water quantity control is required for this site due to the proximity of the Site to the Nith River. Furthermore, runoff generated from the building rooftop and landscape areas is considered clean. Therefore, no water quality control is required for the site.

Due to the size of the site and the insignificant increase in imperviousness of a residential dwelling, we do not anticipate any major impacts on the existing drainage conditions.

If you have any questions or concerns, please feel free to reach out to the undersigned.

Yours truly,

**MTE Consultants Inc.**

**Chelsea Dahmer, P.Eng.**

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