



# Committee Report

<b>To:</b>	Warden Hicks and Members of Grey County Council
<b>Committee Date:</b>	February 28, 2019
<b>Subject / Report No:</b>	TR-CW-03-19
<b>Title:</b>	Badjeros Drainage Study
<b>Prepared by:</b>	Matt Marck, Engineering Manager
<b>Reviewed by:</b>	Pat Hoy, Director of Transportation Services
<b>Lower Tier(s) Affected:</b>	Municipality of Grey Highlands
<b>Status:</b>	Recommendation adopted by Committee of the Whole <b>as amended</b> as per Resolution <i>CW54-19</i> ; Endorsed by County Council on March 14, 2019 as per Resolution <i>CC24-19</i> .

## Recommendation

1. That Report TR-CW-03-19 regarding the Badjeros Drainage Study be received for information.

## Executive Summary

Private properties within the Hamlet of Badjeros, which is located on Grey Road 9 in the Municipality of Grey Highlands, have been experiencing yearly seasonal flooding issues for several years. At the request of the Municipality of Grey Highlands, Transportation Services retained the services of a consultant to investigate the cause of and available options to reduce the flooding issues in Badjeros. This report summarizes the findings of the investigation and the rationale for Transportation Services recommending that remediation not proceed at this time.

## Background and Discussion

Seasonal flooding issues due to spring melt are a regular occurrence in multiple areas across the County. Grey County received a grant from the Clean Water and Wastewater Fund to perform a drainage investigation to determine the possible alternatives to rectify seasonal flooding issues. The Hamlet of Badjeros was included in the study as the Municipality of Grey Highlands had earlier requested that the County address water issues in that community. In July, 2017, GMBLuePlan was awarded RFP-TS-26-17 to complete drainage studies in three areas, one of which was Badjeros.

The flooding in Badjeros is not consistent from year to year, with a range from little to no impact, to moderate impact, predominately in the north-east quadrant of the Hamlet. The seasonal events have not negatively impacted any Grey County owned facilities.

The Hamlet of Badjeros resides in a low area with no defined drainage outlet for any runoff from the catchment area, with the exception of infiltration. The Consultant investigated the possible alternatives to drain the runoff to an outlet.

Two existing culverts exist that cross Grey Road 9 in the Hamlet; a southerly culvert and an easterly culvert. Directing all runoff from the southerly culvert to the easterly culvert would be a fairly simple process. Locating an outlet from the easterly culvert is not a simple process. In order to outlet water from the easterly culvert, it would involve taking the runoff for an extended distance to Priddle Creek, which is costly. The drainage study is linked in this Report.

Table 1 below provides details of the options as provided by the Consultant.

Option	Description	Length	Estimated Cost	Report Section/Page	Report Figure
1	Storm sewer/open ditch along County Road 9/Grey Highlands Road 63 to outlet at Priddle Creek	1.35 km in length	\$250,000 to \$800,000 (cost variance based on a cheaper undersized design to a proper sized design)	7.2.1 / Page 13	6
2*	Tile drain/open ditch across private property to outlet at Priddle Creek	1.1 km in length	\$220,000 to \$550,000	7.2.2/Page 15 7.6/Page 18	7
3**	Stormwater Management Pond	N/A	\$20,000 to \$50,000	7.2.3 / Page 15	8
4***	Do Nothing	N/A	\$0	7.2.4 / Page 16 7.6 / Page 18	N/A

- Notes:
- \* Consultant's recommended solution if there is desire to move forward.
  - \*\* Not desired, as it does not provide a legal outlet and will take up valuable agricultural land.
  - \*\*\* This option is the Transportation Services' recommendation at this time.

## Legal and Legislated Requirements

If it is desired to move forward to obtain an outlet, a Petition for an outlet would have to be filed with the Municipality of Grey Highlands, under the provisions of the Drainage Act

The County is responsible for ensuring that its roads are appropriately drained in order to ensure the safety of road users as per Section 44 of the *Municipal Act, 2001*. The concern in Badjeros lies with the lack of drainage of the private lands abutting / in the vicinity of Grey Road 9. The County is not required to take steps to facilitate the drainage of private lands that are subject to seasonal flooding of this nature.

Transportation Services does not support petitioning the Municipality of Grey Highlands for a municipal drain, as Grey County facilities neither contribute to nor are impacted by seasonal flooding. The Municipality of Grey Highlands or any resident(s) have the same option to petition for a municipal drain. The petitioner would have to abide by the engineer's report that would allocate the associated costs incurred by all parties who benefit.

## Financial and Resource Implications

Cost considerations are shown in Table 1. Option 2 would cost from \$220,000 to \$550,000 for the overall project. County costs are unknown at this time as they would be a portion of the overall cost, which would be broken down in a report by the Drainage Engineer and allocated according to the benefit that the drain would provide to each property owner (property owners include Grey County, the Municipality of Grey Highlands and benefitting residents in the area).

## Relevant Consultation

Internal

Legal Services

External

Municipality of Grey Highlands

## Attachments

[Badjeros Drainage Study Grey Road 9 GM BluePlan July 2018](#)

Municipality of Grey Highlands Correspondence

**From:** Raylene Martell <[Raylene.Martell@greyhighlands.ca](mailto:Raylene.Martell@greyhighlands.ca)>  
**Date:** January 2, 2019 at 6:23:09 PM EST  
**To:** "pat.hoy@grey.ca" <[pat.hoy@grey.ca](mailto:pat.hoy@grey.ca)>  
**Subject:** Council Resolution - 2018-11-07

[EXTERNAL EMAIL]

Good afternoon,

The following resolution was passed at the November 7, 2018 Council meeting. I apologize for the delay in this, however I can not find any indication that this correspondence was sent previously as per regular process.

**That the report TES.18.32 Badjeros Drainage Study be received; and  
That Council receive the final GRY-002: Badjeros - Drainage Study prepared by GM BluePlan Engineering, dated July 2018 for information; and  
That Council requests Grey County to have a Joint Public Information Session in Badjeros.**

Kind regards,

**Raylene Martell, Dipl. M.M.  
Director of Council and Legislative Services/Municipal  
Clerk**

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