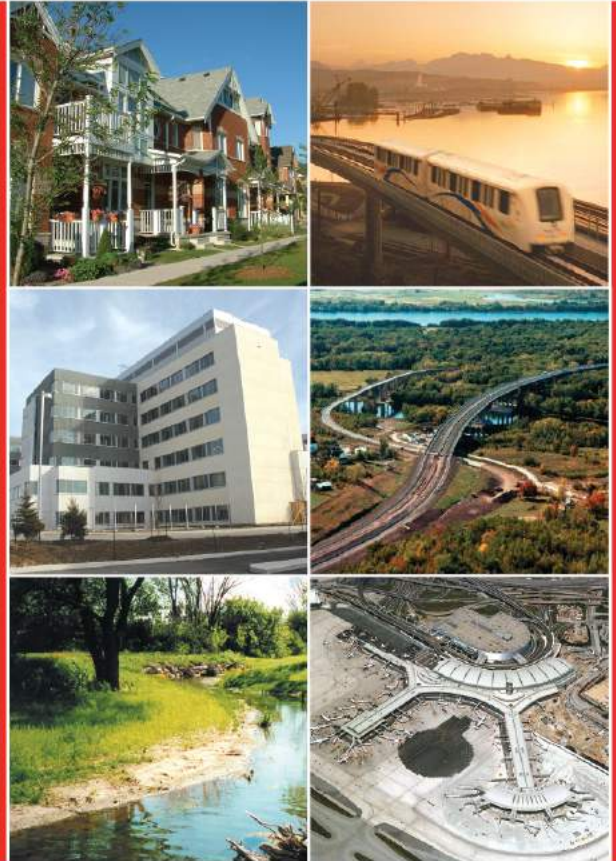


MMM Group Limited



Town of Mayerthorpe
Master Drainage Plan Update

COMMUNITIES
TRANSPORTATION
BUILDINGS
INFRASTRUCTURE



JUNE 2014 | 5311012000E04

Town of Mayerthorpe

MASTER DRAINAGE PLAN UPDATE

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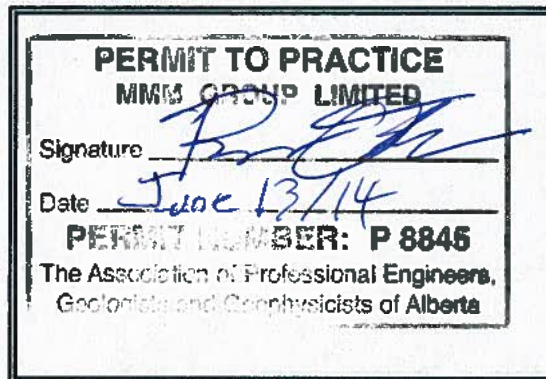
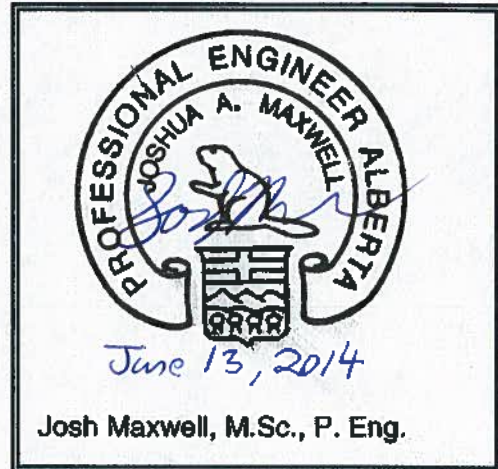
**MAYERTHORPE MASTER DRAINAGE PLAN UPDATE
Model Calibration and Adjustments for AESRD Comments
Completed on behalf of the Town of Mayerthorpe**

Respectfully Submitted,

Prepared By:



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STANDARD LIMITATIONS

This report was prepared by MMM Group Limited (MMM) for the client in accordance with the agreement between MMM and the client. This report is based on information provided to MMM which has not been independently verified.

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This Standard Limitations statement is considered part of this report.

VERSION HISTORY

REV	DATE	REASON FOR ISSUE	PREPARED BY	REVIEWED BY	SENIOR REVIEWED BY
00	June 21, 2011	Preview for the Client	Nedal Barbar	Kessie Govender	Jon Heisler
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02	August 4, 2011	2 nd Draft Submission to Client	Nedal Barbar	Kessie Govender	
03	December 15, 2011	Final Submission	Kessie Govender	Kessie Govender	Jon Heisler
04	June 6, 2014	Updated with Calibration Results	Lisa Maruska	Alberta Zhuge Joshua Maxwell	Ryan Olson

1.0 INTRODUCTION

1.1 General

The Town of Mayerthorpe identified a need for a overall stormwater management plan in their community and retained MMM Group Limited to prepare this Stormwater Management Plan. The Water Act and Alberta Environmental Protection and Enhancement Act, requires municipal authorities to provide a framework to deal with stormwater in their communities. This report presents the findings of the existing storm drainage system including future stormwater requirements and provides an overall stormwater management conceptual plan for the Town. In addition, this study provides technical support for the proposed system of managing storm water and is intended to be guiding document for development applications and capital infrastructure upgrades. The subject study area is shown on **Figure 1.1**.

1.2 Study Area

The Town is located approximately 140 kilometres northwest of Edmonton and shares its drainage boundaries with Lac Ste. Anne County. This Town is bounded in the north by the Little Paddle River, Range Road 83 to the east, and Highway 43 in the south and west. The CN Rail line bisects the northern portion of the Town in the east-west direction and Hwy 22 in the north-south direction. The study area including the Town boundary is shown in **Figure 1.2**.

1.3 Scope of Work

- ▶ Review existing information available such as as-built drawings and reports.
- ▶ Determine a pre-development discharge rate for the area based on available hydrometric station flow data available in Little Paddle River.
- ▶ Develop a stormwater management plan within the Town/Corporate limits and surrounding lands in accordance with Alberta Environment Protection Stormwater Management Guidelines.
- ▶ Assess the capacity of the storm drainage system for the present conditions and future requirements.
- ▶ Recommend practices, policies, and priorities for stormwater management.