



2015-10-08

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Phyllis Zaborosky

Dear Ms. Braun:

Re: **RM of Gimli Wastewater Treatment Plant: Notice of Alteration Request
Environment Act Licence No. 2587**

On behalf of the RM of Gimli, I am requesting a notice of alteration to the above noted Licence, to accept and treat industrial wastewater from the Crown Royal Distillery, owned and operated by Diageo Canada Inc.

Gimli currently has sufficient excess capacity in the wastewater treatment plant to allow Diageo wastewater to be combined with the municipal wastewater and be treated to meet the effluent standards and regulations within the Licence. Combing and treating the industrial waste is the first phase of a plan to expand the treatment, consistent with the Phase 2 expansions which was approved within the Licence.

I have attached a brief report outlining our current (Phase 1) and future (Phase 2) plans for the Gimli wastewater treatment system. I am sending a copy of the Industrial Services Agreement, separately, by email. Please treat the Industrial Services Agreement as confidential and not be released. If you have any questions, please contact me either by email: dmenon@rmgimli.com or by phone/ text: 204-396-1000.

Thank you

Yours truly,


Dick Menon, M.Eng. P.Eng, FEC

Project Manager

C. Joann King, CAO, RM of Gimli

Siobhan Burland-Ross

Jennifer Winsor

RURAL MUNICIPALITY OF GIMLI

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Gimli Wastewater Treatment System

1. Introduction

Rural Municipality of Gimli (Gimli or municipality) operates a wastewater treatment plant (GWWTP) at the Business Park (previously called Industrial Park), under an Environment Act Licence No. 2587. Gimli supports the recommendations of the Lake Winnipeg Stewardship Board for protecting the Lake and was the first municipal treatment systems to incorporate nutrient reductions, almost 12 years before the new regulations come into force.

GWWTP was built to ensure that sewer services could be provided not just for the Town, but to all of the developments along the shores of Lake Winnipeg, as well as the industrial loadings from the Crown Royal distillery, located to the north of Town. The GWWTP was constructed in the late 2000's with assistance from the Manitoba Water Services Board and the Canada Manitoba Infrastructure Program. The GWWTP has a truck receiving station to accommodate septage dumping from all developments within the municipality and some from within the RM of Armstrong.

Over the past decade a number of northerly and southerly developments, such as Pelican Beach, Loni Beach and South Beach have been connected to the Town sewer system and the GWWTP. In 2013, Gimli was successful in receiving federal provincial grants from the Build Canada Fund (BCF) to extend the sewer services to service the southerly developments, namely; Willow Island, Odin Green, Siglavik, Miklavik, Husavik, Sandy Hook and the Golf Course Developments, which are currently for the most part on truck pump-out system.



2. Background

In late 2013, Diageo Canada Inc. the owners of the Crown Royal distillery, approached Gimli about the possibility of treating their wastewater at the GWWTP. A study was undertaken for Diageo, by Dillon and Birchtree Consulting in 2013-14. The study indicates that it would be feasible to treat the combined wastewater from the Municipality and Diageo at the GWWTP in the short term, as there is sufficient capacity to do so. However, in the long term Gimli will need to expand the GWWTP, as envisioned in the Phase 2 approval within the licence, wherein a 3rd SBR basin and all of the associated works be built.

The revised Environment Licence issued in January 2003, made allowance for future flows by allowing Gimli to build the GWWTP in 2 phases, as follows:

- **Phase 1:**
 - Max. Hydraulic loading: 8,400 m³ per day
 - Max. Organic Loading: 2,520 kg/ day

- **Phase 2:**
 - Max. Hydraulic Loading: 12,900 m³ per day
 - Max. Organic loading: 3,870 kg/ day

3. Notice of Alteration:

With the acceptance and combining of the industrial wastewater (proposed) from Diageo, with the municipal wastewater, we anticipate loadings to the GWWTP as follows:

- **Immediate (short term):**
 - Average Dry weather flows: 3,440 m³ per day
 - Average wet weather flows: 4,180 m³ per day
 - Max. Day flows: 8,094 m³ per day



Max. Organic Loadings: 1,525 kg/ day

N.B.:

1. Diageo flows on average day is 1,300 m³ per day.
2. Diageo has indicated that their peak day will not exceed 1,600 m³ per day.
3. Gimli is to accept Diageo wastewater from their equalizing tank at a steady rate of 67 m³ per hour, over a 24-hour period.
4. Diageo will provide pH control at the lift station as needed.
5. Diageo waste stream is likely “warm”, which will improve the process in the winter months.
6. A metering/ composite sampler station is to be set up to measure daily hydraulic and organic loadings to the GWWTP.

Based on the anticipated short term loadings, Gimli is able to accept the wastewater from Diageo, without the 3rd SBR basin and associated works, as approved in the Environment Act Licence, as Phase 2 works, in the short term. We will provide details over the next year, plans to incorporate the Phase 2 works.

4. Current Plans:

Gimli is dealing with the acceptance of wastewater from Diageo, in 2 phases, consistent with the licence.

- Gimli has signed Industrial Services Agreement with Diageo to accept and treat their wastewater over the next 3 years.
- Gimli has awarded a contract to construct a 6.6 km forcemain from the GWWTP to Diageo property line, adjacent to their equalization lift station along Distillery Road.



- Retained a consultant to look at the feasibility of constructing sludge storage ponds at Gimli's landfill site. We will come forward with our sludge storage plans shortly. We believe that we have sufficient storage in the sludge digester until land application. Diageo has also given Gimli approval to use one of their two sludge beds for storage, on an interim basis.
- Gimli will shortly be retaining a consultant to develop process switch-over and optimization plans.
- Minor mechanical upgrades, to ensure that the noxious gases within lines are properly vented.