



Environment and Climate Change
Environmental Stewardship Division
Environmental Approvals Branch
Box 36 14 Fultz Blvd
Winnipeg, MB R3Y 0L6

April 7, 2025
Client File No.: 1071.10
Our File No.: S-1192
020-17-08-11-00
020-17-08-11-0N

Attention: Agnes Wittmann, Director

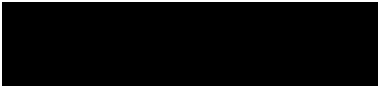
RE: NEWPCC UPGRADE: BIOSOLIDS FACILITIES - UPDATE TO 2016 APPROVAL LETTER

On March 10, 2016, Manitoba Conservation and Water Stewardship approved the City of Winnipeg's (City) Biosolids Master Plan, see Appendix A. This plan included the City's 30-year vision for sludge treatment and biosolids management, with the goal to maximize sustainable reuse and nutrient utilization of these materials. The Biosolids Master Plan identified thermal hydrolysis as the process to produce a low-pathogen product that should be able to be used for land application and soil manufacturing.

Since 2016, the City has advanced the design of the Biosolids Facilities project. Based on analysis completed in 2025, it was determined that thermal hydrolysis is no longer the most desirable process in terms of cost and operability. As a result, the City will be switching from thermal hydrolysis to thermophilic digestion. This will achieve the same low-pathogen product that should be able to be used for land application and soil manufacturing. The resultant end product would still remain in-line with the Manitoba Water Quality Standards, Objectives and Guidelines: Tier 1 Water Quality Standards for beneficial reuse of biosolids. The switch to thermophilic digestion can be made without impacting the substantial completion date of December 2030.

Should you have any questions, please contact me at 204-986-5210 or by email at cwiebe@winnipeg.ca.

Sincerely,


Cynthia Wiebe, P. Eng., CAMP
Manager of Engineering Services

ATTACHMENT: Appendix A – Regulator Approval Letter of the City's Biosolids Master Plan dated March 10, 2016

C:

Y. Hawryliuk, Environment and Climate Change (email)
S. Burland Ross, Environment and Climate Change (email)
K. Forrestall, Environment and Climate Change (email)
S. Bridges, Environment and Climate Change (email)
N. Rentz, Environment and Climate Change (email)

T. W. Shanks, Water and Waste Department (email)



Conservation and Water Stewardship

Environmental Stewardship Division
Environmental Approvals Branch
123 Main Street, Suite 160, Winnipeg, Manitoba R3C 1A5
T 204 945-8321 F 204 945-5229
www.gov.mb.ca/conservation/eal

File: 963.20

March 10, 2016

Chris Carroll, P.Eng., MBA
Manager of Wastewater Services Division
City of Winnipeg
109 – 1199 Pacific Avenue
Winnipeg, MB R3E 3S8

Dear Chris Carroll:

Re: City of Winnipeg Biosolids Master Plan 2014

The Biosolids Master Plan submitted September 29, 2014 in accordance with Clause 4 of the letter to you dated October 2, 2012 and subsequent updates dated December 11, 2014 and January 27, 2016 are hereby acknowledged.

The Biosolids Master Plan and subsequent updates have been reviewed. It is understood that the City will continue to review the viable land application alternatives identified in the Biosolids Master Plan. Conservation and Water Stewardship expects that a land application program will be proposed to be carried out by 2017.

It is understood that the City has a 30-year vision for sludge treatment and biosolids management to maximize sustainable reuse and nutrient utilization of these materials. Thermal hydrolysis producing a low-pathogen product that should be able to be used for land application and soil manufacturing was selected as a main focus of the Biosolids Master Plan.

The City is also pursuing a struvite/phosphorus recovery technology to be integrated with the North End Water Pollution Control Centre (NEWPCC) biological nutrient reduction and sludge treatment upgrades. Sludge from the South End Water Pollution Control Centre (SEWPCC) and West End Water Pollution Control Centre (WEWPCC) will be hauled to the NEWPCC for treatment and future phosphorus recovery with the intention of maximizing nutrient recovery and reuse.

Authorization to commence with the two-year pilot for biosolids composting at Brady Road Landfill in accordance with Environment Act Licence 3081 R was provided in my May 1, 2015 letter. It is anticipated that the pilot activities will be nearing completion next year and that a resulting report of findings will be provided thereafter.

Approval of the Biosolids Master Plan is hereby provided with the following conditions:

1. Annual updates regarding the biosolids application program and the status of the Biosolids Master Plan activities be provided to Conservation and Water Stewardship by January 31 of each year in accordance with Environment Act Licence 1089E RR; and
2. A plan for land application of a portion of the biosolids produced by the City of Winnipeg will be developed for implementation in 2017.

In addition please include any relevant sludge solids and biosolids updates as part of the regular progress reports on the ongoing construction activities at the NEWPCC and the SEWPCC.

If you have any questions or would like to discuss matters pertaining to the Biosolids Master Plan, please contact Robert Boswick, Environmental Engineer, at 204-945-6030 or robert.boswick@gov.mb.ca.

Yours sincerely,

“original signed by”

Tracey Braun, M.Sc.
Director

- c. Duane Griffin, P.Eng. – Water and Waste Department, City of Winnipeg
Don Labossiere/Donna Smiley – Environmental Compliance and Enforcement, Manitoba
Conservation and Water Stewardship
Cory Switzer/Asit Dey/Robert Boswick – Environmental Approvals Branch, Manitoba
Conservation and Water Stewardship
Public Registries