



February 12, 2021

Client File No.: 1071.0  
Our File Nos.: S-972-1, EMS  
020-17-08-11-00  
020-17-08-11-0N

Manitoba Conservation and Climate  
Environmental Stewardship Division  
Environmental Approvals Branch  
1007 Century Street  
Winnipeg, MB R3H 0W4

Attention: Shannon Kohler, Director

**RE: MONTHLY PROGRESS REPORT FOR INTERIM PHOSPHOROUS REDUCTION AND THE  
NEWPCC UPGRADE**

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Please find the attached monthly progress reports for the 'Interim Phosphorous Reduction Plan' and the Upgrade of the NEWPCC to Meet All Licence Conditions. These reports are for the month of January 2021.

Should you have any questions on the 'Interim Phosphorous Reduction Plan', please contact me at 204-986-4904 or by email at [mpaetkau@winnipeg.ca](mailto:mpaetkau@winnipeg.ca).

Should you have any questions on the 'Upgrade of the NEWPCC to Meet All Licence Conditions' please contact Colin Javra at 204-471-1765 or by email at [cjavra@winnipeg.ca](mailto:cjavra@winnipeg.ca)

Sincerely,

Michelle Paetkau  
Acting Branch Head of Wastewater Planning and Project Delivery

Attachment

MP/dr

- c: Siobhan Burland Ross, M. Eng., P. Eng., Manitoba Conservation and Climate (email)  
Yvonne Hawryliuk, MSc, Manitoba Conservation and Climate (email)  
M.L. Geer, CPA, CA, Water and Waste Department (email)  
G.K. Patton, P. Eng., Water and Waste Department (email)  
T. Shanks, P. Eng., Water and Waste Department (email)  
R. Grosselle, Water and Waste Department (email)  
C. Carroll, P. Eng., MBA, Water and Waste Department (email)  
C. Javra, P. Eng., Water and Waste Department (email)

**MONTHLY PROGRESS REPORT BY THE CITY OF WINNIPEG**  
**CITY OF WINNIPEG - NORTH END WASTEWATER TREATMENT PLANT UPGRADE PROJECT**

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**Progress Report Date: Report #12 February 12, 2020**

## **Interim Phosphorous Reduction Plan.**

### **The following key elements have been completed during the month of January 2020:**

- Please refer to previous progress reports for a complete history.
- The City's Request for Proposal (RFP) for Professional Consulting Services for NEWPCC Interim Phosphorous Removal Detail Review and Benchscale Testing, RFP No. 1179-2019:
  - Preliminary Modeling
    - Computer simulations for average conditions are complete.
  - Jar Testing:
    - Annual average jar testing is complete
    - Maximum month jar testing will be done in spring 2021
    - Some additional follow up testing on interim phosphorous removal may continue in Q1 2021
  - Design and costing
    - Conceptual design is complete and an AACE Class 4 cost estimate has been developed
  - Schedule
    - A report summarizing activities to date and recommendations for Interim P Removal was submitted to the provincial government on December 21, 2020
- The City met with the Project Advisory Committee and with representatives of the Provincial Government to review the findings of the NEWPCC Interim Phosphorous Removal Detail Review and Benchscale Testing Report
  - The report indicated that approximately 8-23% of the NEWPCC's phosphorous may be removed with ferric chloride but that additional infrastructure would be required to do so
  - The estimated cost to do so is \$10.5M
- An administrative report with budget request has been submitted to the Standing Policy Committee on Water and Waste, Riverbank Management and the Environment and will be considered on February 9, 2021
- COVID 19 Impacts:
  - Laboratory analysis and jar testing at the University of Manitoba continues following a COVID-19 safety protocol
  - Access to the sewage treatment plant and operators continues while minimizing direct contact and following appropriate social distancing
  - Meetings continue to be held remotely

### **The following key next steps are being carried out:**

- The City will request budget and approval from Council to proceed with Interim Phosphorous Removal; if approved the City will request a Notice-of-Alteration to the Provincial Government to permit interim-phosphorous removal via ferric chloride
- Some additional testing may continue in Q1 2021
- Testing during maximum month flows will occur in spring 2021; a final Interim Phosphorous Removal Report will summarize these findings and any additional testing that may occur

**Submitted to: Manitoba Conservation and Climate**

**Submitted by:**

Michelle Paetkau, P.Eng.

File Numbers:

Client File No: 1071.10

WWD: S-1146, S972, EMS, 020-17-08-11-00, 020-17-08-11-0N

**MONTHLY PROGRESS REPORT BY THE CITY OF WINNIPEG**  
**CITY OF WINNIPEG - NORTH END WASTEWATER TREATMENT PLANT UPGRADE PROJECT**

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**Progress Report Date: Report #12 February 12, 2020**

**Upgrade of the NEWPCC to Meet All Licence Conditions.**

**The following key elements have been completed during the month of January 2021:**

- Please refer to previous progress reports for a complete history.
- The Power Supply project has been commissioned and currently conducting training to fulfill total performance.
- On January 30, 2020, Council approved \$15,223,000.00 from the Biosolids Facilities project budget to secure engineering services. This engineering work has not yet started, as the Province has requested that the City undertake a review of a P3 project procurement methodology, which is ongoing.
- Evaluation of Headworks Project request for proposal (RFP) continues.
- ICIP funding application has been submitted for Headworks. Continue to provide information as requested by Provincial and Federal agencies.

**The following key next steps are being carried out:**

- The Power Supply and Upgrade Project to achieve Total performance once training is completed and O&M's are submitted.
- Continued evaluation of the Request for Proposals (RFP) for the Headworks Project.
- Funding applications and ongoing procurement strategies continue to be reviewed to determine the most efficient delivery model for the Biosolids Facilities Project.
- A constructability review of the biosolids is planned for the second and third quarter of 2021 to determine if there will be opportunities to accelerate the schedule
- Review and revise the schedule as assumptions are validated and/or constraints are realized

**Submitted to: Manitoba Conservation and Climate**

**Submitted by:**

Colin Javra, P.Eng.,