



October 31, 2022

Client File No.: 1071.1
Our File Nos.: S-972, S-1146 EMS
020-17-08-11-00
020-17-08-11-0N

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

Attention: James Capotosto, Director

**RE: NEWPCC UPGRADE PROJECTS REPORT NO. 6 – Q3 QUARTERLY REPORT FOR
JULY 1 TO SEPTEMBER 30, 2022 – ENVIRONMENT ACT LICENCE NO. 2684 RRR
AND INVESTING IN CANADA INFRASTRUCTURE PROGRAM GIS-EQ-1087**

The City of Winnipeg (the City) is submitting the NEWPCC Upgrade Projects Report No. 6 for Q3 Quarterly Report for the period of July 1 to September 30, 2022. This report is to satisfy conditions identified in the Environmental Act Licence No. 2684RRR as required by Manitoba Conservation and Climate on May 28, 2021, and Investing in Canada Infrastructure Program (ICIP) GIS-EQ-1087 letter dated June 2, 2021. The work tasks required to complete the NEWPCC Upgrades to meet the Environmental Act Licence requirements are summarized in this report.

The works to be conducted as part of the NEWPCC Upgrades include the Power Supply and Headworks Facilities, Biosolids Facilities, and Nutrient Removal Facilities projects.

Power Supply

- Total Performance of the Power Supply Upgrade project to be achieved when closeout documents, such as O&M manuals, have been submitted and accepted by the City. The Design Build (DB) contractor is making progress on the submission of these documents but has not provided a defined schedule for completion at this time. The system is operating without issue
- Liquidated damages are being applied to the DB contractor's contract until Total Performance is achieved.

Headworks Facilities

The contractor is tracking behind schedule during this period.

The graphical representation (Table 2: Earned Value) compares the performance measurement baseline (baseline schedule of how they intended to do the work) to the actual schedule performance (work actually complete). It shows the contractor planned to be 32.4% complete by the end of September 2022, but is only 22.9% complete.

The main issues affecting the schedule relate to the installation of the secant piles. The delays are a function of equipment breakdowns and varying ground conditions which have affected the design and drilling depths.

The following key work elements were advanced or completed by the contractor during this period:

- Continued submission of various 60% Design Submission packages
- Started submission of 90% Design Submission packages
- Grit building base slab was poured; formwork for first level walls are being prepared
- Excavation of H2 (Pump Station) shaft is approximately 70% complete
- Poured three generator bases at the Standby Power Generation Building
- Started secant pile installation at H1 and Y5
- Driven pile installation is complete at the Fine Screening Area, Odour Control and Transformer Yard
- Driven pile installation will continue until late fall
- Completed the new duct bank relocation
- Disposal of impacted soil to licenced facilities as approved by the Province is on hold until new contaminated areas are excavated. Reusable soil is being stored on site for future use

Critical milestones for the Headworks Facility are included in Table 1.

Biosolids Facilities

On August 16, 2022, a funding announcement was made confirming the inclusion of the Biosolids Facilities in the City's Investing in Canada Infrastructure Program (ICIP). The City awaits written confirmation of the tri-level government funding for this project based on the current approved budget of \$552 million.

The City is preparing Request for Qualifications and Request for Proposal documents based upon City Council's July 21, 2022 decision to procure the Biosolids as a design build. The City is preparing to engage in a market sounding in November to determine the market's tolerance for a fixed price design build.

The City has begun planning additional environmental and geotechnical assessments, early contractor work analysis, and Heritage Resources Impact Assessments for this fall. The City has begun preparing an application for a surface and subsurface crossing agreement between NEWPCC's Parcel A to Parcel B with Canadian Pacific Railway.

The City has begun engagement with a social procurement company to assist the project team with the social procurement bidding requirements mandated by City Council on February 24, 2022.

Nutrient Removal

- The Nutrient Removal Facilities project currently remains unfunded
- A constructability review for the full NEWPCC Upgrade works will be prepared for December 2023.

A schedule of key milestones for Biosolids and Nutrient Removal Facilities is identified in Table 3.



Table 1: Tasks and Critical Milestone for NEWPCC Upgrade Projects – Headworks Facilities

Task Description	% Complete Q2 Report	% Complete July Report	% Complete August Report	% Complete September Report**	Original Targeted Completion Date	Revised Targeted Completion Date	Actual Completion Dates
Procurement and Contract Award	100%	100%	100%	100%	June 30, 2021		June 11, 2021
DB Mobilization Complete	100%	100%	100%	100%	December 31, 2021		December 15, 2021
30% Design	100%	100%	100%	100%	December 14, 2021		December 14, 2021
60% Design	53%	60%	67%	67%	September 30, 2022	October 21, 2022	
90% Design	2%	6%	6%	6%	January 23, 2023	November 18, 2022	
IFC Design	2%	2%	2%	2%	April 17, 2023	January 27, 2023	
Driven Piles (All Areas)	0%	5%	13%	49%	August 19, 2022	January 30, 2023	
Secant Piles (H2, H1, Y5)	8%	20%	33%	50%	September 29, 2022	December 7, 2022	
Microtunneling (H1 to H2 & H1 to Y5)	0%	0%	0%	0%	December 20, 2022	March 13, 2023	
Generator Building, Structural & External Finishes	0%	0%	0%	0%	March 14, 2023	May 31, 2023	
Standby Generators, Install	0%	0%	0%	0%	August 3, 2023	October 20, 2023	
Raw Sewage Pumping Station (H2), Concrete	0%	0%	0%	0%	August 7, 2023	August 23, 2023	
H1 Chamber	0%	0%	0%	0%	September 5, 2023	September 7, 2023	
Standby Generator Facility & Fuel Storage System, Complete	0%	0%	0%	0%	September 15, 2023	December 4, 2023	
Grit Removal System, Install	0%	0%	0%	0%	September 18, 2023	November 3, 2023	
Y5 Chamber	0%	0%	0%	0%	December 7, 2023	December 11, 2023	
Raw Sewage Pumps, Install	0%	0%	0%	0%	January 23, 2024	February 8, 2024	
Headworks Building, Structural & External Finishes	0%	0%	0%	0%	June 7, 2024	June 10, 2024	
Odour Control System, Install	0%	0%	0%	0%	July 8, 2024	July 9, 2024	
Civil Works & Landscaping	0%	0%	0%	0%	July 26, 2024	January 8, 2025	
Headworks Building, Complete	0%	0%	0%	0%	November 5, 2024	December 4, 2024	
Commissioning	0%	0%	0%	0%	March 31, 2025	February 26, 2025	
Decommissioning	0%	0%	0%	0%	May 14, 2025		
*Substantial Completion	0%	0%	0%	0%	June 30, 2025	May 22, 2025	

*Substantial Completion: This is the only milestone that is contractual and cannot slide without penalty.

**Data source: Red River Solution's August 2022 Monthly Report submitted September 9, 2022.

ENGINEERING SERVICES DIVISION

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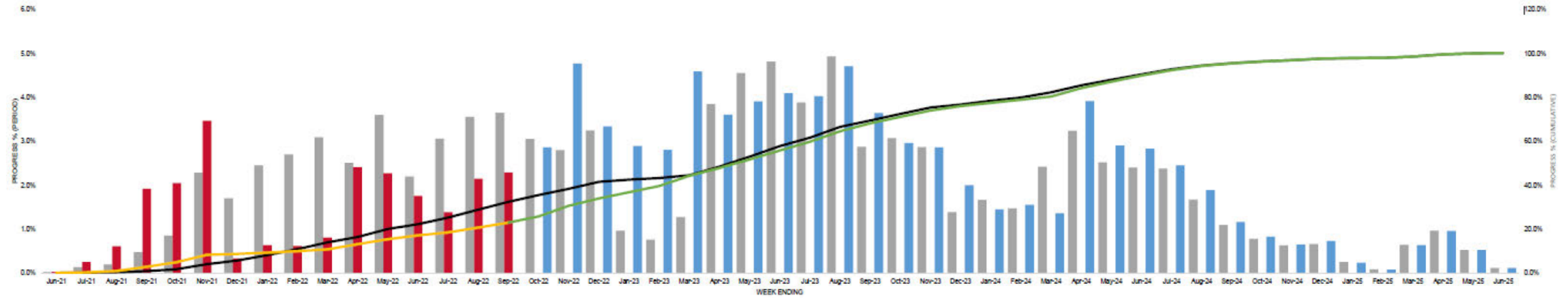
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Table 2: Earned Value



Month	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25								
Plan (Period)	0.0%	0.1%	0.2%	0.6%	0.9%	2.3%	1.7%	2.4%	2.7%	3.1%	2.5%	3.6%	2.2%	3.1%	3.5%	3.6%	3.1%	2.8%	3.2%	1.0%	0.8%	1.3%	3.8%	4.5%	4.8%	3.9%	4.0%	4.7%	3.6%	3.0%	2.9%	1.4%	1.7%	1.5%	1.4%	3.9%	2.9%	2.8%	2.4%	1.7%	1.1%	0.8%	0.6%	0.7%	0.2%	0.1%	0.6%	1.0%	0.5%	0.1%							
Earned (Period)	0.0%	0.2%	0.6%	1.9%	2.0%	3.5%	0.3%	0.6%	0.6%	0.8%	2.4%	2.3%	1.8%	1.4%	2.1%	2.3%																																									
Forecast (Period)																																																									
Plan (Cumulative)	0.0%	0.1%	0.3%	0.8%	1.7%	3.9%	5.6%	8.1%	10.8%	13.9%	16.4%	19.9%	22.1%	25.2%	28.7%	32.4%	35.4%	38.2%	41.5%	42.4%	43.2%	44.4%	48.3%	52.8%	57.6%	61.5%	66.4%	69.3%	72.4%	75.2%	76.6%	78.3%	79.7%	82.1%	85.4%	87.9%	90.3%	92.7%	94.3%	95.4%	96.2%	96.8%	97.5%	97.7%	97.8%	98.4%	99.4%	99.9%	100.0%								
Earned (Cumulative)	0.0%	0.3%	0.9%	2.8%	4.8%	8.3%	8.6%	9.2%	9.9%	10.7%	13.1%	15.3%	17.1%	18.5%	20.6%	22.9%																																									
Forecast (Cumulative)																																																									



Table 3: Tasks and Critical Milestones for NEWPCC Upgrade Projects – Biosolids Facilities & Nutrient Removal Facilities

Deliverable	Description	% Complete Q2 Report	% Complete July Report	% Complete August Report	% Complete September Report	Original Targeted Completion Date	Revised Targeted Completion Date	Actual Completion Dates
Biosolids Facilities	Updated Preliminary Design & Procurement Strategy	100%	100%	100%	100%	December 31, 2021	April 1, 2022	April 14, 2022 Council Approved July 21, 2022
	Post RFQ	N/A	N/A	N/A	60%	March 31, 2023		
	Preselected Proponents Names	N/A	N/A	N/A	0%	August 31, 2023		
	Post RFP	N/A	N/A	N/A	50%	October 31, 2023		
	Contract Award	0%	0%	0%	0%	December 31, 2023	November 30, 2024	
	Substantial Completion	0%	0%	0%	0%	September 30, 2029	December 31, 2030	
Nutrient Removal Facilities	Updated Preliminary Design	0%	0%	0%	0%	September 30, 2023		
	Procurement and Contract Award	0%	0%	0%	0%	June 30, 2026		
	Substantial Completion	0%	0%	0%	0%	June 30, 2032		



**Water and Waste
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Should you have any questions, please contact Colin Javra at 204-986-4480 or by email at cjavra@winnipeg.ca.

Sincerely,



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CJ/dr

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Figure 1: Shaft Excavation for Pump Station



Figure 2: Grit Building



Figure 3: Secant Pile Installation at H1 Area