



Minneapolis Park & Recreation Board Planting Project 2021 Validation Report Year 4

Document Prepared by City Forest Credits

September 26, 2025

PROJECT OVERVIEW

<i>Project Name</i>	Minneapolis Park & Recreation Board Planting Project 2021
<i>Project Registry Number</i>	021
<i>Project Type</i>	Tree Planting
<i>City Forest Credits Protocol Version</i>	Version 9, dated February 7, 2021
<i>Project Start Date</i>	October 31, 2021
<i>Project Location</i>	Minneapolis, MN
<i>Project Operator</i>	Green Cities Accord

SUMMARY

State what stage of crediting this Validation Report applies to (i.e. after planting, Year 4, 6, 14, or 26). Provide a few sentences about the overall project. Include the Planting Design and Quantification Method.

This project includes 23,755 trees planted in the city limits of Minneapolis MN in 2019, 2020, and 2021 by the Minneapolis Park and Recreation Board (MPRB). The trees have been planted in public right-of-way along city streets as well as on other public lands where MPRB has the authority to plant and maintain trees. The method of planting is single-tree dispersed (spaced 10" or more apart, i.e. street trees or linear plantings). Of the 176 sampled trees, 20 trees, or around 11%, were replaced. Droughts since the original project planting dates have been challenging for tree establishment. Of the sampled trees, 26 trees, or around 15%, were either standing dead or gone.

This Validation Report is for the Year 4 crediting phase.

DATA COLLECTION AND CARBON QUANTIFICATION

Carbon Quantification (Section 10 and Appendix A)

Criteria

Project Operator must follow the data collection and quantification methods outlined in Appendix A of the Protocol.

Issue Validated

Project Operator used the single tree quantification method, per Protocol criteria in Appendix A. CFC used the sample calculator in the quantification workbook to determine that 176 trees needed to be sampled. CFC used a random number generator to select the 176 trees to be sampled from the tree planting data submitted with the initial crediting documents.

Project Operator collected data on the 176 tree random sample spanning the project area, as provided by City Forest Credits. The status of each tree was documented, along with a geotagged photo. After

sampling was completed, the project has a current mortality status of 26 vacant/dead trees. There were no changes to the Project Area.

The Carbon Quantification Summary is as follows:

Total number of trees planted	23,755
Project area (acres), if applicable	N/A
Total number of trees per acre, if applicable	N/A
Credits attributed to the project (tCO ₂ e)	64,296
Credits after mortality deduction (20% or insert observed mortality, if greater)	51,437
Contribution to Registry Reversal Pool Account (5%) (tCO ₂ e)	2,572
Total credits to be issued to the Project Operator (tCO₂e)	48,865
Total credits requested to be issued in Year 4 (30% of above)	19,546

GHG Assertion: Project Operator asserts that the Project results in GHG emissions mitigation of 48,865 tons CO₂e over the 26-year Project Duration. Project Operator asserts that per Protocol guidelines, 40% Project GHG emissions mitigation is issued at Year 4, or 19,546 tons CO₂e.

Co-Benefits Quantification (Section 12 and Appendix A)

Criteria

Project Operator must follow the co-benefit quantification methods for rainfall interception, air quality, and energy savings.

Issue Validated

Project Operator has followed the co-benefits quantification method using the templates provided by City Forest Credits. The following table documents the quantified ecosystem services in resource units and avoided costs per year when Project Trees reach 25 years old.

Ecosystem Services	Resource Units	Value
Rainfall Interception (m ³ /yr)	124,911.99	\$894,252.94
Air Quality (t/yr)	3.7169	\$15,302.66
Energy: Cooling – Electricity (kWh/yr)	3,983,352.77	\$302,336.48
Energy: Heating – Natural Gas (kBtu/yr)	55,614,135.61	\$541,388.71
Grand Total (\$/yr)		\$1,753,280.78

VERIFICATION REPORT

CFC reviewed the Verification Report dated September 25, 2025 by Brian Goodall to ensure it accurately reflects the documentation contained in the Year 4 Project Design Document Amendment and supporting documents.

VALIDATION CONCLUSION

I attest that all the information provided in this validation report is free of material misstatement, to the best of my knowledge. The project complies with the validation criteria outlined in the City Forest Credits Standard and Tree Planting Protocol Version 9.

Approved by City Forest Credits on September 26, 2025.