Reforesting Des Moines, Iowa - 2021 Validation Report

Year 4

Document Prepared by City Forest Credits

October 20, 2025

PROJECT OVERVIEW

Project Name	Reforesting Des Moines, Iowa - 2021
Project Registry Number	016
Project Type	Tree Planting
City Forest Credits Protocol Version	Version 9, dated February 7, 2021
Project Start Date	November 11, 2021
Project Location	Des Moines, Iowa
Project Operator	Trees Forever

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 1,772 trees planted in the city limits of Des Moines, IA in 2020 and 2021 by Trees Forever. The trees have been planted in public right-of-way along city streets as well as on other public lands like parks. The method of planting is single-tree dispersed (spaced 10' or more apart, i.e. street trees or linear plantings).

This Validation Report is for the Year 4 crediting phase.

ELIGIBILITY

Additionality (Section 4)

Criteria
The City Forest Credits Standard and Tree Planting Protocol ensure additionality for every carbon project. A project activity is additional if it can be demonstrated that the activity results in emission reductions or removals that are in excess of what would be achieved under a "business as usual" scenario and the activity would not have occurred in the absence of the incentive period provided by the carbon markets.

Issue Validated

Project Operator has signed an Attestation of Additionality on August 19, 2025 that confirms that the trees were not planted due to an enacted ordinance or law, as well as stating that Project Operator used the Registry's performance standard baseline in adherence with the WRI GHG Protocol, that the Project Operator signed a Project Implementation Agreement with the Registry for a 26-year Project Duration, that the 26-year Project Duration is in addition to and longer than any commitment the Project Operator makes to non-carbon project tree plantings, and that trees were not planted on sites that were forested and then cleared of trees within the prior 10 years.

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 162 trees needed to be sampled. CFC used a random number generator to select the 162 trees to be sampled from the tree planting data submitted with the initial crediting documents.

Project Operator collected data on the 162 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 19 vacant/dead trees. There were no changes to the Project Area.

The Carbon Quantification Summary is as follows:

Total number of trees planted	1,772
Project area (acres), if applicable	N/A
Total number of trees per acre, if applicable	N/A
Credits attributed to the project (tCO2e)	5,702
Credits after mortality deduction (20% or insert observed mortality, if greater)	4,562
Contribution to Registry Reversal Pool Account (5%) (tCO2e)	228
Total credits to be issued to the Project Operator (tCO2e)	4,334
Total credits requested to be issued in Year 4 (30% of above)	1,733

GHG Assertion: Project Operator asserts that the Project results in GHG emissions mitigation of 4,334 tons CO_2e over the 26-year Project Duration. Project Operator asserts that per Protocol guidelines, 40% of Project GHG emissions mitigation is issued at Year 4, or 1,733 tons CO_2e.

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 (m3/yr)	10,979.53	$78,603.15
Air Quality (t/yr)	0.3302	$1,488.68
Energy: Cooling – Electricity (kWh/yr)	324,882.74	$24,658.60
Energy: Heating – Natural Gas (kBtu/yr)	4,640,941.03	$45,178.32
Grand Total ($/yr)		$149,928.75

VERIFICATION REPORT

CFC reviewed the Verification Report dated October 14, 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 October 20, 2025.